





ON LONDON STREET -- Danna Evans, daughter of Mr. and Mrs. John H. Evans, 412 North 6th Street, and University of The Pacific student, is photographed in London during UOP's winter term of independent study. She was one of a group of

19 students taking a course titled "International Business" during the January term. The students met with business leaders in London, Brussels, Paris, and Zurich in an effort to gain experience and insight into world business operations.

Alice E. Roberts Dies In Modesto Hospital

Private services were held Friday at Franklin & Downes Funeral Home in Modesto for Alice Edna Roberts, 78, who died Feb. 16 in a Modesto hospital after a brief illness. Inurnment was in Lodi Cemetery, Lodi.

A native of Lodi, where she was married, she lived in Patterson for 60 years, spending the last two and a half years of her life in Modesto. She was active in club and social life in Patterson with her late husband, Franklin Henry Roberts, former Patterson bank manager who served in many civic capacities here, among them acting as city treasurer for 16 years, sitting on the Planning Commission for 12 years and, in his time, filling the offices of president of the Chamber of Commerce and chairman of the Patterson-Westley Community Chest.

The Robertses celebrated their 50th wedding anniversary here in October of 1964.

Mrs. Roberts was a member of the Federated Church, a past worthy matron and

50-year member of Patterson Chapter 417, Order of Eastern Star, a member of the Central California Art League, Inc., and of the Delta Art Association, and a former director of the Mother Lode Art Association.

She is survived by two daughters, Mrs. Janet R. Peterson of Modesto and Mrs. Joyce R. Oakley of El Cerrito; a son, Franklin H. Roberts, Jr., of Sacramento; a brother, Percy W. Pearson of Modesto; six grandchildren and two great grandchildren.

Henry Stowers

Doctor Studies What Fish See

HOW DOES a fish see things? That question has long been a controversial one, and it has been the subject of several scientific studies.

No human can know exactly how a fish sees color, mainly because no human has ever talked to a fish. But a study by Dr. Edwin H. Keller, scientist for the I. E. du Pont Corporation, has brought some interesting findings.

Dr. Keller starts with a sunbeam and how it is affected by water. Sunlight is a form of radiant energy that appears white to us although it is made up of all the colors of the spectrum ranging from red through violet plus the invisible parts we can feel, infrared or radiant energy which is identified by a specific wave length.

Violet and ultraviolet have the shortest wave lengths; red and infrared the longest. About half of the energy of sunlight is visible light, the other half is invisible ultraviolet and infrared.

Now, what does this mean as to how a fish sees things and color?

When color, as we see it, enters and penetrates water we know that long light waves are more intensely absorbed. On a clear day in the ocean, red, orange, and yellow rays disappear in the first 35 feet. But blue, green and violet rays are visible to greater depths.

No Colors Deep

WILLIAM BEEBE went down in the ocean to 3,000 feet and he reported that after 2,000 feet there were no colors at all.

For about 50 years studies have been made by scientists all over the world about the visual shapes, colors and movements seen by fish. So far most findings have resulted only in theories.

In one study by Frank Brown Jr. of the University of Illinois he found that reds and shades of red and orange appeared to draw the most attention of fish. Fish would shy away from blues, greens and yellows.

Brown even experimented with a reward system whereby a fish was fed when it approached a certain color, got a mild electrical shock when it approached another color. As a result of many experi-

ments it was determined that a fish saw colors about the way humans see them when we are looking through a yellowish filter.

The makeup of fish eyes have been studied, and in general, although there are differences in various species, fish have a spherical lens that give them a broader peripheral vision than humans whose lens with more curvature admit five times more light.

A fish's eye, like that of a human, contains a combination of rods for light detection and cones for color perception. But these vary in fish that live at different depths.

All surface fish are believed to be able to distinguish between colors.

See Colors

BAIT SHAPES were found to be unimportant. Round baits, long baits, square baits were all tested on everything from minnows to tuna. All were taken almost equally as long as they were visible, moving and of a color the fish could associate with some food. There was one exception, a star shaped bait would not work as it apparently looked so foreign to anything familiar to a fish.

Size of baits and the movement were found to be more important than color or shape. Fish ordinarily prefer a bait size they can handle, but this depends upon the types of fish. Predatory fish such as a bass will strike at lures much larger than their ability to take in a single mouthful. Striped bass were found to strike better at fast moving baits.

The main thing of interest to anglers in the findings is that fish strike best at baits that are the same size, shape and color of natural prey.

Fish are able to see the lure and the line. Keller said although the subject has been studied extensively, there is still no such thing as a completely invisible fishing line. Stren lines come nearest, he said, and clear nylon monofilament is close.

The line such as Stren dyed with a fluorescent color emits a blue-violet color which makes the line glow a light blue under water until the ultraviolet radiation is absorbed, then it becomes colorless.

Sportscripts

Ali, Floyd Agree

From Wire Reports
Muhammad Ali will meet Floyd Patterson in a scheduled 12-round bout between former heavyweight champions at Madison Square Garden Aug. 28, it was announced Thursday. Ali, who will receive \$250,000 or 35 per cent of the receipts, won the first time the two met, in 1965, when Patterson quit in the 12th round of a title bout because of a bad back.

Joe Thomas, former Miami Dolphins personnel director, has a chance to become the general manager of the Baltimore Colts, he says, if the Ram-Colt team swapping

comes through. The hiring of Thomas, 49, hinges on the successful swap of the Ram with Colts owner Carroll Rosenbloom.

Marcel Pronovost, a stand-out defenseman in the National Hockey League for more than 20 seasons, signed Thursday to coach the Chicago Cougars of the World Hockey Association. Pronovost played 16 seasons with the Detroit Red Wings and 3 seasons with Toronto.

The National Hockey League announced Thursday that it was switching television networks and had signed a 3-year agreement with the National Broadcasting Co., beginning with the 1972-73 season. The NHL has had its Game of the Week program on the Columbia Broadcasting System since 1967.

The Pittsburgh Penguins have signed veteran right-winger Eddie Shack to a 2-year contract. Shack, who was seriously considering a bid from a WHA team according to Penguin general manager Jack Riley, became the 21st player to sign with the Penguins.

Ben Villaflor, making his first appearance since winning the world junior lightweight boxing crown, stopped a taller and heavier Carlos Fernandez in the third round of a nontitle fight Wednesday in Honolulu.

Jack Nicklaus was made a 9-4 favorite by bookmaker William Hill to win the British Open golf championship starting next Wednesday in Muirfield, Scotland. The bookies also are offering odds of 10-1 that he will complete the golf grand slam.

Bank Deposits

Dallas City Banks		
	June 30, 1972	June 30, 1971
Republic National	\$2,136,350,836.69	\$1,774,852,600.05
First National	1,965,605,943.14	1,596,564,200.00
Mercantile National	625,158,028.00	594,076,285.09
National Bank of Commerce	252,977,445.00	223,577,320.00
Texas Bank & Trust	238,899,285.90	225,123,997.28
Exchange Bank & Trust	105,893,722.79	92,233,229.82
Preston State	98,560,055.74	82,789,007.06
Oak Cliff Bank & Trust	91,948,928.02	88,346,974.36
Lakewood Bank	58,724,967.34	53,866,934.68
American Bank & Trust	47,253,852.93	42,612,380.93
Merchants State	45,914,895.74	39,275,516.93
Hillcrest State	43,804,560.89	41,293,861.56
Greenview Ave. State	37,953,622.82	34,844,483.37
Grand Ave. Bank & Trust	37,926,357.02	34,948,295.96
Wynnewood State	37,457,803.13	34,669,617.85
Park Cities Bank & Trust	37,171,903.99	32,370,763.07
South Oak Cliff State	33,798,972.83	32,793,593.37
First Citizens	28,033,503.04	24,839,814.59
North Dallas Bank & Trust	26,891,105.06	22,581,813.55
Fair Park National	25,985,818.71	22,908,996.88
Bank of Dallas	23,727,820.16	19,086,929.73
NorthPark National	21,901,830.21	18,421,396.86
Citizens National	21,606,356.24	20,393,049.52
Grove State	19,810,491.50	18,781,636.92
Dallas Bank & Trust	17,587,037.80	17,003,508.54
Commonwealth National	16,609,061.54	13,497,609.72
East Dallas Bank & Trust	16,453,231.07	15,222,191.38
Northwest National	15,891,665.05	15,138,973.52
Metro Bank	15,815,155.49	17,280,686.94
Dallas International	15,175,137.25	16,435,580.51
Hillside Bank & Trust	15,907,099.80	11,928,162.44
Inwood National	13,940,786.33	10,874,225.59
Bank of the Southwest	12,369,914.25	11,474,971.41
Main Street National	11,999,314.93	8,813,834.90
Trinity National	11,175,827.65	10,459,195.58
White Rock National	10,793,369.09	9,564,646.83
Casa Linda National	10,281,195.62	8,557,546.69
First Continental	10,172,818.33	9,678,460.03
Buckner State	9,418,348.71	8,651,761.23
North Central State	8,764,375.43	6,551,173.99
Brookhollow National	8,360,381.02	New
Commercial National	7,779,448.28	6,201,961.44
Texas National	7,322,308.77	5,130,535.68
Valley View State	6,590,651.89	2,081,005.92
Royal National	6,584,817.04	4,946,339.30
The Village Bank	4,831,670.99	New
Security Bank & Trust	3,544,822.30	1,904,638.93
TOTALS	6,319,726,545.14	5,381,649,710.00

Dallas County Banks		
	June 30, 1972	June 30, 1971
First National of Garland	\$64,513,792.00	\$43,241,471.60
Irving Bank & Trust	52,433,612.78	57,159,260.75
Southwest Bank & Trust	40,446,000.63	43,761,208.40
Citizens State, Richardson	38,924,229.91	39,723,903.89
First National, Mesquite	28,830,505.00	22,417,665.06
Grand Prairie State	24,977,848.43	25,775,331.71
Dallas County State, Carrollton	23,139,020.37	17,333,458.37
Central Bank & Trust, Farmers Branch	22,429,721.36	21,588,080.29
First National, Grand Prairie	20,300,538.77	15,653,278.48
First Bank & Trust, Richardson	19,864,268.80	15,948,049.44
First National, Lancaster	19,479,126.00	17,208,138.11
First National, Irving	16,975,060.72	6,758,004.46
Richardson Heights National	15,262,747.80	15,142,753.79
Garland Bank & Trust	14,519,268.36	22,225,470.16
Seagoville State	13,165,503.92	13,194,172.42
Midway National, Grand Prairie	12,980,961.08	10,220,390.79
First National, Duncanville	12,859,686.68	11,234,497.65
Colonial National, Garland	12,685,723.06	7,388,531.78
Southern Bank & Trust, Garland	11,811,835.85	9,761,752.15
First National, Richardson	10,362,989.21	8,770,963.57
Security Bank & Trust, Carrollton	10,077,889.89	6,044,594.66
De Soto State	9,265,504.58	7,459,215.11
Mesquite State	7,008,416.09	5,645,585.16
First Bank & Trust, Cedar Hill	6,877,090.74	6,061,124.40
Promenade National Bank of Richardson	5,541,003.23	2,520,278.29
Citizens State, Irving	4,565,467.52	3,227,994.24
Bank of Lancaster	4,546,524.07	2,774,800.57
American Bank & Trust, Irving	3,607,810.12	3,244,045.13
South Central State Bank in Hutchins	1,195,014.64	new
TOTALS	528,647,161.61	451,284,020.43

Denton County		
	June 30, '72	June 30, '71
First State Bank of Denton	53,332,351	48,558,937
Denton County National	35,653,391	32,176,887
Lewisville State	16,277,998	12,549,002
First National, Denton	6,888,570	8,460,025
Lewisville National	9,322,772	7,460,092
University State Bank, Denton	8,893,661	8,271,064
Sanger First National	8,137,373	6,901,078
Pilot Point National	5,787,465	4,980,351
Krum Farmers & Merchants	4,118,959	1,937,770
Justin State	2,474,982	2,250,990
TOTALS	150,886,628	133,546,196

Collin County		
	June 30, 1972	June 30, 1971
Collin County National, McKinney	21,467,836	19,143,724
Central National, McKinney	18,026,768	15,944,768
First National, Plano	13,613,354	9,872,513
Plano Bank & Trust	11,629,315	7,285,931
First State, Frisco	6,921,893	4,395,092
First State, Wylie	7,278,168	6,001,493
First State Bank of McKinney	6,007,066	New
First National, Farmersville	5,861,633	4,961,198
Citizens State Bank, Princeton	5,466,954	4,590,310
First National, Anna	5,262,639	4,442,295
First State, Celina	4,489,068	3,920,287
First State, Allen	2,425,217	2,194,697
Prosper State	1,594,934	1,605,013
TOTALS	110,084,850	84,386,521

Ellis County		
	June 30, 1972	June 30, 1971
Bank & Trust, Waxahachie	21,415,401	17,125,963
Citizens National, Waxahachie	20,680,718	17,051,323
Citizens National, Ennis	18,592,701	15,418,351
Ennis State Bank	10,482,453	9,869,656
First National, Midlothian	5,498,285	4,656,388
Red Oak State Bank	3,249,535	2,524,884
First State Bank, Italy	2,668,504	2,142,408
Farmers & Merchants State, Ferris	2,265,413	2,056,458
First State, Maypearl	1,307,972	1,088,708
First State, Milford	1,144,199	1,001,573
Commercial State, Palmer	902,018	879,924
TOTALS	88,207,199	73,815,636

Kaufman County		
	June 30, 1972	June 30, 1971
American National, Terrell	34,714,058	29,651,834
Farmers & Merchants, Kaufman	16,492,708	14,404,650
Terrell State	10,573,688	8,972,507
Bank of Mabank	5,527,660	4,663,989
First National, Kemp	4,788,719	4,331,162
Forney State	2,487,166	1,791,692
TOTALS	74,593,999	63,815,834

Rockwall County		
	June 30, 1972	June 30, 1971
First State, Rockwall	11,160,832	7,584,399
Citizens State, Royse City	4,443,310	3,638,829
TOTALS	15,604,142	11,223,228

Mid-Year Bank Deposits Climb Throughout State

Mid-year bank deposits in Dallas metropolitan area banks soared more than 17 per cent above those for the same time last year, indicating considerable improvement in the economy of the area.

The total was \$7,287,760,524.75, against \$6,199,721,145.43 on June 30, 1971.

The Associated Press reported that large increases were general throughout the state, and that some counties reported their highest deposits in history, although year-end figures are normally higher than at mid-year.

The Dallas County deposits total at mid-year was \$6,948,373,706.75, against \$5,832,933,730.43 a year ear-

lier, a gain similar to that for the whole metropolitan area. While the June 30 total was not a record for the county, it was only about \$8 million shy of the total last Dec. 31.

According to the Associated Press, Harris County and Houston went over the \$7 billion mark for the first time, reporting \$7,009,498,084.

Among cities and counties reporting record deposits, the Associated Press said, were Kerrville, Anderson County, Fort Worth, Del Rio, Abilene and Taylor County, Texarkana, Brown County, Tyler, and Hunt County (Greenview).

Only two Dallas city banks reported decreased deposits —Dallas International, which was off about \$1 million, and

Metro Bank (formerly City Bank & Trust) off \$2 million. Among the county banks, First National Bank of Garland jumped from \$43,241,471.60 to \$64,513,792.00. First National of Irving rose \$10 million (from about \$6 to more than \$16 million) after capturing the Irving Inde-

pendent School District deposits. Four other county banks were off for the year. Irving Bank & Trust was off \$5 million; Grand Prairie State was off slightly; Southwest Bank & Trust, off \$3 million; and Garland Bank & Trust, off \$8 million.

The Dallas Morning News

BUSINESS

12 B **** Friday, July 7, 1972

Space Corp. Asks Waiver of Default

Space Corp. of Garland announced Thursday it had given "notice of default" to the Republic National Bank of Dallas as trustee under the indenture pursuant to which the company issued its 6½ per cent convertible subordinated debentures due May 1, 1983.

The principal amount of the debentures is \$2,179,000, company officials said.

The announcement said the debenture holders will be asked at a special July 25 meeting "to amend the indenture to liberalize the restrictive provisions of the indenture and to waive the current default."

The company said that while preparing its annual financial statements for the fiscal year ended May 31, "it had determined that during that year the company had incurred indebtedness and debt service charges in excess of the limitations set forth in the indenture . . ."

William A. Roth, president of Space Corp., stated that while the restrictions were reasonable when entered into in 1968, subsequent events, particularly the increasing reliance of the company on non-governmental business, had necessitated the company's borrowing substantial funds to finance inventories and work in process, and therefore the restrictions were unduly burdensome.

The announcement noted that the rights of the debenture holders were subordinate to those of holders of senior debt, which stood at \$2,828,834 on March 31 this year.

The Sam P. Wallace Co. Inc., majority stockholder of Central Energy, said it has agreed to purchase Aircraftco if necessary to facilitate the liquidation of Central Energy.

Proceeds of the sales will be used to repay indebtedness and for a liquidating dividend which Central Energy president Vinson Marley said should be about 30c to 35c a share.

If authorized by a special meeting of Central Energy stockholders, which the company said it would call as soon as practical, the transactions will be completed by Nov. 1.

Operating Net Up for Quarter

Mercantile National Bank at Dallas reported second-quarter operating income of \$1,991,046, or 50c a share, a gain of 7½ per cent over prior-year figures of \$1,851,295, or 46c a share after adjusting for a 2-for-1 stock split in March this year.

Second-quarter net income after securities transactions was \$1,996,102 (50c a share) compared with \$2,037,645 (51c a share) in 1971.

CEC Plans To Liquidate

Central Energy Corp. announced Thursday plans to sell all its assets except Aircraftco Services Inc. to Lone Star Energy Co. for an undisclosed amount of cash.

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The Oakes companies manufacture and sell continuous mixers for the food, foam latex, foam plastisol, and chemical industries.

Katy Plans to Buy Oakes Companies

BOSTON (Sp.)—Katy Industries Inc.

COMPLETE FINANCIAL AMERICAN STOCK EXCHANGE LIST

Main stock market listing table with columns for High, Low, Sales, and Net for various companies. Includes sections for Dividends, Butter and Eggs, Fort Worth Grain, Wool Futures, and Spot Cotton.

STEMMONS FREEWAY in the Trinity Industrial District. Your finest and most convenient address.

Fort Worth Livestock. FORT WORTH (UPI-USA) - Livestock: Cattle fully steady; not enough feeders on hand for adequate price test; utility and commercial slaughter cows 25-30; 27-30; couple high yielding utility 27-30; cutter 24-10-26-50; few canner 21-20-23-50; utility and commercial slaughter bulls 28-30-33-50; and good 340-550 lb. slaughter calves 36-38-50.

New York Coffee. NEW YORK (AP) - The green coffee market was not Thursday. Roasters showed some resistance to the higher prices that have developed in the couple weeks at coffee producing countries, brokers said.

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Putting things together is our business. Now we're doing it as E-SYSTEMS INC. We put things together for 26 years as LTV ElectroSystems, Inc. and predecessor companies. Now we are putting things together under a new name and as an independent, publicly-held company.

Roberts is named to data post

William Roberts, 57, has been named data processing manager for Tarrant County.

He was picked for the newly-created \$18,000 per year post at an executive session of Commissioners Court Friday, beating out 56 other applicants for the job.

His chief function will be to co-ordinate the in-house computer system county commissioners hope to create in the next year.

A Fort Worth resident, Roberts will be leaving a job in Dallas County government, where he was assistant data processing chief.

"His selection was unanimous. We are lucky to be getting him with his experience in county government," Auditor Jack Benson said.

"Dallas has one of the most sophisticated computer setups in the country."

Roberts will assume his new duties Aug. 1, and will work from the auditor's office.

Knotty Problems Created In Public Funds Pledge

By JIM VACHULE
Star-Telegram Contributing Editor

The practice of pledging public funds for a particular purpose is fraught with peril, as 20 years of experience with Tarrant County's special right-of-way tax illustrates.

Back in 1952 voters authorized the levy of a special tax of up to 30 cents on each \$100 of assessed property valuation for the specific purpose of buying right-of-way for freeways and major roads.

Advocates of the special right-of-way tax, in urging voters to approve it at an election, promised it would be used for nothing except acquisition of land needed for new highways and freeways.

Voters gave their approval, the special levy went into effect in 1953 and since then has produced more than \$20 million in revenue for the county.

From its inception in 1953 through 1971 the right of way tax produced approximately \$20.2 million. Another \$1.3 million in interest was earned on the money by keeping portions of it in time deposits until it was needed for purchase of land. Thus total income, including the tax and interest earned, amounted to \$21.5 million.

THROUGH THE FIRST 13 years, according to county records, all the tax proceeds and interest were allocated to purchase of right-of-way.

Because right-of-way needs fluctuated from time to time, there were periods when the special fund would build up substantial surpluses of several millions of dollars. At other times, when demands for

right-of-way were heavy this surplus would be considerably reduced.

In any event the fact that the special tax existed enabled Tarrant County to take maximum advantage of the state and federal highway construction program.

When funds became available for construction of major roads Tarrant County — because of the tax — was ready to provide the right-of-way, or its portion of right-of-way costs.

So, through the first 13 years the tax was in effect all went as planned, with the money used precisely as voters were told in 1952 it would be.

But by the mid-1960s conditions were changing and new needs were arising.

ONE OF THESE problems had to do with the fact that in a city bond issue voted in 1953 funds were included for purchase of right-of-way for a proposed freeway from downtown to Oakland Boulevard.

Before that project could be accomplished, however, the Dallas-Fort Worth Turnpike was built along the route of the proposed East Side Freeway. That produced a steady barrage of criticism from East Side residents, who maintained the city had broken faith with them.

Finally, after years of controversy and negotiations, a plan was agreed upon for the city and county to pay the Texas Turnpike Authority for the privilege of free use of the turnpike between downtown and Oakland.

The county's share of the

cost for use of the section of turnpike, including additional traffic lanes and constructing exits and entrances at Oakland, amounted to \$800,000, a sum that then County Auditor Star Williams said had to be taken from the right-of-way fund, since no other money was available.

Williams and other county officials maintained such use of the right-of-way fund was legal.

THEY POINTED OUT that state law allowing the county to levy the right-of-way tax also permitted use of the money for other purposes, such as construction and maintenance.

In addition, it was explained, purchase of an easement to use the section of turnpike free of toll charges was within the scope of the right-of-way tax law.

So far as can be determined, no controversy ever arose over the decision to use right-of-way tax funds to convert the downtown-Oakland section of the turnpike into a freeway.

Also in the mid-1960s there was another development that had an even greater effect on the right-of-way tax.

This was the overwhelming decision by voters to build a downtown convention center.

In connection with passage of a \$15-million bond issue to build the convention center, voters were told that a county tax increase of not more than 3.5 cents on each \$100 of property valuation would be required to finance the project.

AFTER A NUMBER of

meetings involving county officials and civic leaders interested in the project it was agreed the center could be built for a total cost of \$15 million, thus a bond issue in that sum was submitted to and approved by the voters.

As sometimes happens, costs, including interest rates spiraled upward between the time the bonds were voted and the project could be built.

Accordingly the structure was not completed within the \$15-million cost estimate on which the bond issue was based.

The overrun has been estimated at about \$3 million.

County Auditor Jack Benson, named to the post when Williams retired in 1969, reported he presently is making a study to determine the precise final cost of the convention facility.

In any event there is general agreement among county officials that it was chiefly the convention center which "opened the door" for use of the right-of-way fund for other purposes.

FORMER AUDITOR Williams maintains that no right-of-way funds ever have been used on the convention center, and county records indicate his contention is correct.

Under the law granting the county permission to establish the right-of-way tax there is, of course, no way the funds derived from the tax legally could be spent on a project such as the convention center.

Yet the same law does place monies collected from

the right-of-way tax "under the jurisdiction and control of the commissioners court" and further states that such funds may be legally used not only for purchase of right-of-way but also for construction and maintenance of farm-to-market and lateral roads.

This, according to Williams and Benson, makes it legal for right-of-way money to be transferred into the county road and bridge fund.

WILLIAMS, in fact, pointed out that while he still was in office a lawyer in the state attorney general's office in Austin agreed with him that such transfer of funds is legal.

Williams and his successor are in agreement on the point that transfer of right-of-way tax money to the county road and bridge fund is legal.

From that point on, though, there is some disagreement as to when the transfer of right-of-way money into the road and bridge fund actually started.

The former auditor said last week that the transfers began after he retired in 1969 and that when he left his job at the courthouse the right-of-way fund contained more than \$4 million.

Benson, in contradiction, offered records he said show clearly the transfer practice actually started in 1966.

A report compiled in his office shows the county general fund tax rate in 1965 was 65 cents, the road and bridge fund rate was 17 cents and the right-of-way fund rate was 27 cents.

In 1966, the report continues, the general fund rate was increased to 70 cents, the road and bridge rate was lowered to 12 cents and the right-of-way rate cut to 24 cents.

In 1967 the general fund rate was pegged at 63.75 cents, the road and bridge fund at 2 cents, an interest and sinking fund of 16.25 cents was initiated to begin retiring the convention center bonds and the right-of-way rate remained at 24 cents, but 21 cents of this was transferred into the road and bridge fund.

The right-of-way rate, the report indicates, remained at 24 cents through 1969 and was increased to 29 cents in 1970, and the 29-cent rate has remained in effect since.

It also is shown in the report that of the right-of-way rate, 9 cents was transferred to the road and bridge fund in 1968, 22.4 cents in 1969, 17.4 cents in 1970 and 20.5 cents in 1971.

In terms of dollars, since the transfers started, a total of 4.4 million has been moved into the road and bridge fund.

Purpose of the transfers was to prevent the need for an increase in the general county tax rate so as not to violate the pledge made to voters when they were asked to approve the convention center bonds.

OR, LOOKED AT IN another way, it can be said that a pledge made 20 years ago was broken, or at least bent, in an effort to redeem one made more recently.

During a public discussion of county finances in June 1971 a majority of Commissioners Court agreed they would continue the tax-fund-transfer practice even though they conceded it is a betrayal of the voters' confidence.

"Clearly, the funds ought to be kept separate," said Commissioner Dick Lewis, the only member of the court who was on the county governing body when the practice began.

"It is a betrayal of the public's trust. Yet, we were told this was the only way we could get the convention center finished. That's why this was started," Lewis said.

Other commissioners agreed they wished they could find some other way to collect the necessary taxes, but Auditor Benson said there was no other way.

"I didn't start this. It was here when I came, so if there is anything wrong with it, neither I nor the present commissioners court should be blamed," he added.

OBVIOUSLY, barring a substantial, long-term increase in one or the other of the county's various separate tax rate levies, there seems no feasible way to return to the right-of-way fund the \$4.4 million transferred to the road and bridge fund.

At present about \$1 million remains in the right-of-way fund.

County Judge Howard Green, who took office after the transfer policy started,

and Benson contend that under normal conditions the sum is ample to fulfill all the right-of-way purchase pledges made so far by the county.

These commitments, said Green, include right-of-way for widening Texas 360 from US 80 to Texas 183; extension of Texas 121A from Bedford to Texas 114 in the vicinity of the new regional airport and extension of 114 from the Denton County line across the north boundary of the airport to the Dallas County line.

"We have the right-of-way funds to meet those commitments," the county judge stated flatly.

In connection with the transfer policy, Green pointed out that conditions and situations change over periods of 20 years.

"YOU CAN'T BIND yourself forever. This was something that had to be done and we are fortunate that we were strong enough to do it when it had to be done," he said.

What if the State Highway Department should agree to build a new major artery linking Fort Worth and Dallas, as project leaders of the two cities have been seeking?

Green and Benson said estimates show Tarrant County's share of the right-of-way cost for such a facility would be at least \$8 million.

They agreed that even if the right-of-way tax funds had not been transferred there still would not be enough in the right-of-way fund to finance a project of that scope without a bond issue.

Stewart to seek civil service rule

County Tax Assessor-Collector Reed Stewart may ask the state courts for a declaratory judgment on whether his employees come under the new county civil service.

"Nothing has been decided yet, but I am consulting with a lawyer," he explained today.

He said the lawyer is out of town and won't be back until next week.

He added that there may be other elected officials joining him in consulting the attorney with him.

Tarrant County's Civil Service Commission yesterday adopted the guidelines for county workers.

The three-member commission said that it would not hear five cases concerning fired employees because they were powerless to act before the rules were adopted yesterday.

Stewart Says Force Needed on Work Rule

Tarrant County Tax Assessor-Collector Reed Stewart will have to be forced to abide by civil service guidelines by approving work extensions for deputies over 65, he said Monday afternoon.

At the regular meeting of Commissioners Court Monday morning, Commissioner George Richardson revealed that Stewart had declined to approve an extension for a 65-year-old woman in his office on Aug. 15.

"If he just refuses to do, right away the civil service system of Tarrant County is not worth the paper it's written on," commented Richardson.

* * *

HE SAID Stewart, who has filed suit challenging the constitutionality of county civil service, is trying to retain the woman on the county payroll in violation of civil service rules.

Richardson suggested to County Auditor Jack Benson that he remove the woman in

Stewart's office from the payroll.

Stewart said he will not certify anyone for extended service "unless I'm ordered by a district court or someone else to do it. I have 17 or 18 clerks who are over 65."

Richardson also recommended that Doyle Willis be considered to aid the county legal staff in defending commissioners against the Stewart suit.

"He had been involved in two such cases before the Texas Supreme Court, both of which . . . he won," said the commissioner.

He said he would contact Willis again to determine whether or not Willis would be interested in representing the county and what fee he would charge.

* * *

IN OTHER business, commissioners heard a claim by Univac division manager Jerome A. Vitt that specifications for bids on the county computer system "plagiarize" those of one computer company.

Vitt said the requirements written by the county's computer specialist, Bill Roberts, "make it very difficult for most vendors . . . to bid it except for one brand."

Benson, pointing out that the court members are not well versed in the computer business, said the specifications sent to prospective bidders were not designed to eliminate anyone.

Vitt asked for a private meeting with commissioners on the issue, but was told his firm could meet with the committee appointed by the court to study computers at 9 a.m. Friday.

County Data On Computer Questioned

A representative of UNIVAC, one of the companies bidding on the county's computer system, hinted to Commissioners Court today that county-drawn specifications for the system were aimed at one particular computer company.

Jerome A. Vitt, UNIVAC division manager from Dallas, asked commissioners for a private meeting to report on "certain critical aspects" of the county's specifications.

He said, "The specifications make it very difficult for most suppliers to bid except for one bidder."

* * *

THE COUNTY'S specifications "plagiarize" material from certain vendors.

County Auditor Jack Benson denied that the specifications were aimed at any particular company.

Commissioners finally decided that UNIVAC representatives would meet with county computer official Bill Roberts and the county's computer selection committee.

* * *

THE MEETING probably will be Friday morning with Vitt having the option of going on to appear before commissioners after their informal meeting Friday.

Vitt would make no detailed comment on the claims because he said that the company has not yet completed a thorough analysis of the specifications.

Specifications make computer bids difficult

A computer company representative today said that the county's computer specifications make it difficult for firms to bid.

Jerome A. Vitt, branch manager for Univac, said that the specifications are a "direct plagiarism" from a brand name's specifications.

"The specifications make it very difficult for suppliers other than one brand name to bid," he said.

Vitt refused to name the company.

He asked commissioners to meet with him and go over the bidding requirements.

Commissioners told him to meet with a committee studying the problem to thrash out the issue.

County Auditor Jack Benson told commissioners that the specifications were not meant to exclude any bidders but only to set the standards.

Some officials feel that Benson and the county's computer man, Bill Roberts, favor IBM.

STAC-TELEGRAM - Monday Evening - SEPT. 11, 1972

3 BIDS RECEIVED

Computer Choice Due on Oct. 2

Buying a computer system isn't quite as simple as buying a truck, county officials have discovered.

Although bids for the county computer system were opened yesterday the decision on what company will be serving the county will not be made until Oct. 2.

The county sent specifications for the computer system to 16 companies. Yesterday they received three bids.

Each of those bids was two to three times as bulky in pages as the original specifications.

* * *

THE county's computer selection committee will be studying the bids during the next week.

They are charged with returning to commissioners court with a full evaluation of the bids and a recommendation on which one the county should accept.

County computer expert Bill Roberts explained the process in brief:

—They will look at the bids to see if they meet specifications and those that do not will probably be dropped.

—They will then look at the alternate requirements to see which company best fulfills most of them.

—They will run a cost evaluation on each bid.

—They will consider such other items as the reliability of the equipment, how good the company is on servicing their equipment and perhaps try to equate those intangibles into dollars and cents.

* * *

A CURSORY look at money figures, which officials say is not very meaningful, indicates that Burroughs Corp. submitted the lowest bid.

Burroughs quoted a purchase price of \$1,031,938 with a \$2,349 per month maintenance contract.

IBM ran second with a bid \$1,100,415 with \$2,394.75 per month for maintenance and Honeywell, Inc. third with a bid of \$1,205,620 and \$3,574 per month for servicing.

The three companies also bid on various rental and lease-purchase arrangements in which Burroughs also generally quoted the lowest costs.

Telephone-Disconnect Crisis Remedied for Crisis Service

Crisis Intervention Service should be able to continue its 24-hour operation without interruption, county health and mental health-retardation officials said Friday.

"The last report we had was that we were anticipating no interruption of service," said Tommie Duncan, MH-MR Center director.

Duncan said the MH-MR staff should begin moving from its 600 Texas St. location to just across from Peter Smith Hospital sometime Saturday and will be operational by Monday morning.

"I think the phone service should be transferred sometime Saturday," said Duncan. "We anticipate no disruption."

Mrs. Ruth Bowen, a staff member and agency volunteer, said workers had been told telephone service would be discontinued for 10 days.

Duncan admitted that he had made such a statement, but did so to prepare workers for the worst that could happen.

"But we are not giving up working to maintain continuation of service and it looks like with a little bit of help we'll make it," Duncan said.

Mrs. Bowen said she believed action on the part of MH-MR officials to ensure phone service is the result of a meeting agency volunteers had Thursday night.

During that session, the group decided to appear before the Tarrant County Hospital District Board to discuss the telephone situation and other concerns about CIS's organization and administration.

Before that meeting, Mrs. Bowen said, officials had done nothing to provide a phone line for CIS at the new quarters even though they had known about the move for six months.

William Taylor, district administrator, said plans were made to have calls sent to the Peter Smith Hospital switchboard and put into a separate extension.

"At any rate," he said, "there would be no interruption of Crisis Intervention."

Mrs. Bowen said that as far as she knew volunteers still intend to appear before the hospital board at its next meeting Oct. 24.

She said she feared she might be fired and the current group of volunteers replaced after what Taylor described as "a tempest in the teapot" died down, but that she felt she needed to speak out.

Miss Ann Armsby, one of the volunteers, said that "we're concerned at the lack of communication on plans for CIS."

She said some hospital personnel probably think CIS should perform as a community outreach service under some other agency.

"That's fine with us," she said, "if so. We don't care who runs it as long as the service is operative and efficient."

As of Friday, CIS was without a director. Jim Kersey resigned Thursday to take a teaching job at the University of Texas at Arlington.

Duncan indicated that someone else at MH-MR might perform Kersey's duties rather than hire a new director.

Panel to Continue Study Of County Computer Bids

Presentation of recommendations on bids for the county computer system will be delayed at least a week, County Auditor Jack Benson said Friday.

"It was on the agenda (for Monday), but we took it off," he said.

The auditor said the computer selection committee is still deeply involved in analysis of bids which were opened earlier this month.

"One of them is low in

lease plans. Another is low on a lease-purchase plan," he said. "We've got to get a common denominator — we've got to get it down to apples and apples first."

Benson, who originally said Burroughs Corp. appeared to have the low bid before evaluation, has met with representatives of all firms involved since then.

The committee is believed to favor a lease-purchase agreement

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BOB J

3225 ALTA ME

New Computer: Costly, Handy

By JIM DAVIS

Along about next April or May, Tarrant County will have its own computer in operation — an IBM computer that commissioners agreed to buy yesterday.

Analysis:
**WHAT THE
NEWS
MEANS**

This electronic wizard will be serving county government, the Tarrant County Hospital District, area law enforcement and the courts.

It will cost the taxpayer somewhere between \$600,000 and \$700,000 a year.

The question immediately arises: What can a machine do that's worth that kind of money?

* * *

THIS IS A question for which county officials have only a limited number of answers right now.

Bill Roberts, the man who heads the county's computer operation, said the immediate future of the computer is to pickup operations that the county and hospital district are currently farming out to computer service companies.

In terms of money this change itself will mean that the county will be doing for itself what it is currently paying someone else about \$350,000 a year to do.

On the county side, the computer will take over the compiling of voter registration information and jury lists and the recording and indexing of an assortment of documents in the county clerk's office.

* * *

ON THE HOSPITAL side, the computer will assume patient billing, bookkeeping, payroll and inventory operations.

In new programs, Roberts said that the computer will probably take over the county's payroll and the related functions of keeping up with

county insurance and retirement benefits.

Roberts said the first law enforcement function to be assigned to the computer will probably be a jail census.

This operation will tell law officers, the courts, the district attorney's office and the grand jury who is in jail and why.

* * *

THE OPERATION is currently being performed by a desk sergeant on a manual typewriter.

Beyond these relatively simple operations, Roberts foresees the computer's taking over such complex functions as the county tax roll.

In simple terms, the computer will be fed the formula for calculating tax rates and necessary information on each piece of property in Tarrant County.

The computer could turn out the tax roll over a weekend, Roberts said, an operation which is now done by hand with accounting machines and takes several weeks.

The computer has the potential, Roberts said, to do even more of the tax work.

* * *

GIVEN THE proper information the computer could handle tax work from assigning true values to property through sending statements to the taxpayer.

In the law enforcement field, a crime information center is envisioned which would allow a policeman in the field to obtain instantly all available information on a suspect or a motor vehicle or even a residence he is about to enter.

Lawmen claim this sort of information could have saved a number of policemen's lives.

The potential functions of a computer in government are almost limitless, officials say.

The functions of the Tar-

rarrant County computer appear to be a matter of priorities at this point—that is, perhaps a matter of political clout.

* * *

ROBERTS READILY admits that the computer will not always have to be people to feed information into the computer.

What the computer will do is detailed work that bores most people and otherwise would take a great deal of time.

White House Aide Raps McGovern Defense Plans

By FRANKIE PAUKNER
Star-Telegram Writer

DALLAS—Herb Klein, White House director of Communication, attacked Sen. George McGovern's defense cut proposal Monday, during a Love Field press conference.

"The number of jobs would increase drastically if McGovern's \$32 billion defense budget cut is made," said Klein, gearing his politically-oriented remarks to the Fort Worth-Dallas defense interests.

He hinted the President may visit the area before the Nov. 7 presidential election.

Klein was in Texas to promote Nixon's re-election and to talk about the future of

business and the economy for a luncheon at the Fairmount Hotel, sponsored by Southern Methodist University School of Business Administration, Dallas Chamber of Commerce and the U. S. Departments of Commerce and Labor.

"We must deal from strength to bargain for peace and maintain national security," said Klein, who said he was speaking for the President.

"McGovern is naive about the Soviets. He has said, 'I think they'll like me and want to keep my friendship,' but that isn't a concern of the Communists," he said.

"McGOVERN IS honest and dedicated, but not pre-

pared. A professional does not change his stand on issues once a week.

"The senator's intent to take troops out of Europe, throw out a country's government and stop the weapon supply would shackle the South Vietnamese and turn them over to a bloodbath."

Klein claims McGovern's finance proposals would bring the "worst depression since the 1930s. He would 'rob Peter to pay Paul.'"

Defense money used to provide health insurance and an 80 per cent subsidy to unemployed aerospace workers proposed by McGovern, isn't feasible, Klein said.

PROJECTING the economy

into the 1980s, he said Nixon would double the Gross National Product and provide 18 million more jobs in 10 years.

"One of 20 families now has an income of \$25,000. By 1990, the President plans to upgrade the economy so that one out of four families will have a \$25,000 annual income."

The labor force will grow from 82 million in 1972 to 100 million in 1980, to 110 million in 1990.

Of that group, the 20-24-year-old workers number will decrease, the 25-30 will grow and the 45-64-year-olds will increase at a diminishing rate, Klein said.

He contrasted the President's work ethic philosophy to Sen. McGovern's "idea of putting people on the dole."

AREA BUSINESSMEN attending the luncheon at the Fairmount were told the way to a growing economy is to inspire the work ethic among employees and find ways to stifle boredom.

"Research in this area and for business growth is the key," Klein said, "not one or five years ahead, but 20 or 30 years."

He urged bigger goals and a look beyond domestic markets to increased international trade.

"We must compete as a nation in a free enterprise system and continue Nixon's aim of a more de-centralized government, not the McGovern socialism and centralized federal power," Klein said.

McGovern's recommendations would affect space advancement, which in turn, would have impact on diverse areas such as farming, television, forestry and city planning.

KLEIN DENOUNCED McGovern's claim that the national GOP did not give Sen. John Tower proper endorsement.

"The President is in favor of Sen. Tower. Tower is vital, and has an outstanding record and is one of the best informed on national defense," he said.

Asked if Nixon needed the help of former Treasury Secretary John Connally to carry Texas, he replied that the President's achievement record was sufficient.

Klein noted Nixon accomplishments:

—The President has done more in three years to provide cleaner water and air in the environment than was done in the past 200 years.

—Last year, two and one-half million new jobs were created in private industry, with 250,000 in September. Unemployment has dropped nationally from 6 to 5.5 per cent.

—Nixon has kept the promise of more local control by creating the revenue sharing program and decentralizing cabinets, making the work of each more autonomous.

—PRICE CONTROLS have helped to stabilize the economy. "Nixon is against guidelines, but doesn't see a date for eliminating wage and price controls."

"This must be evaluated month by month," Klein said. —Dr. Henry Kissinger's work has brought us closer than ever to peace progress. "He's not out there making new dates," Klein quipped, referring to Kissinger's social life.

—The President has been strongly interested in Mexican-Americans and created the bilingual language programs in the schools.

—Government employees have been kept at the minimum number needed to get the job done, to prevent a bureaucracy.

Klein spoke to a Sigma Delta Chi group in Louisville, Ky., Monday night before returning to the capital.

County has two highway projects—Interstate Loop 820 and Interstate Highway 35W—which could be affected by a shortage of federal funds.

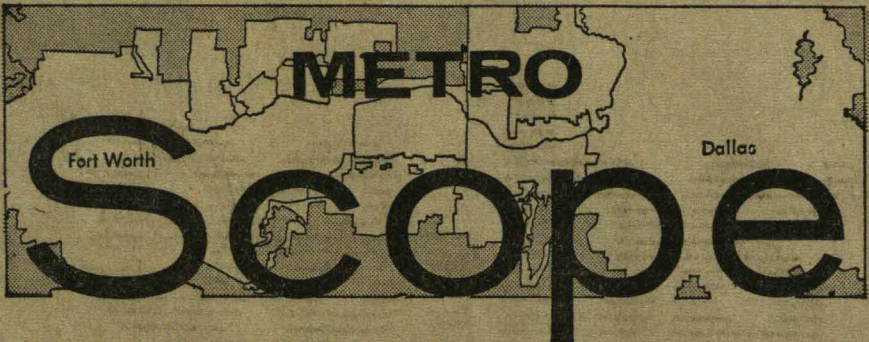
Fort Worth Highway Department officials have announced that they would be letting contracts on I35W work during December.

The stalemate in Washington, D.C., now throws into doubt the funding programs in three states—Virginia, Tennessee and Kentucky—and by June 1973, others, including Texas, would be affected.



PLANE SIDE — This view of Dallas-Fort Worth airport, looking west, shows one north-south runway and two taxiways nearing completion (at bottom). Planes will load and unload on aprons outside the semi-circular terminals. Automobiles will park within

the terminal semi-circles, with airport's spine road running north-south between terminal areas. Two other taxiways and another north-south runway are taking shape (at top). The two runways will each be 11,400 feet long.



NOW AND NOTABLE

Glaucoma Target Of Lions' Effort

By LES THOMAS

Lions Clubs from 10 cities are lending a hand for an area-wide fourth annual Glaucoma Screening Clinic in Grapevine Nov. 2.

Emphasis this year, says chairman Dr. Tom Chandler, is on persons over 35, but the clinic will be open to anyone.

Sponsoring Lions Clubs are Colleyville, Euless, Haltom City, Hurst-Handley-Meadowbrook, Fort Worth Northeast, Keller, Roanoke, Lewisville and Grapevine.

HURST-EULESS-BEDFORD Chamber of Commerce will have 55,000 new maps of the tri-cities area off the press in four to six weeks, reports Doug Morris. Revisions this year put about 100 new streets on the map.

SUNDAY AIRPORT TOURS dipped slightly this week, but Dallas-Fort Worth Airport officials say they're still encouraged by the response. Attendance for the first three

Radio Gear For Sheriff Gets Okay

Sheriff Lon Evans is apparently in hot water over some radio equipment he has contracted to buy, but which the county may not pay for.

The sheriff appeared before commissioners court Monday morning asking for permission to purchase the equipment for \$4,925 from Bell Communications.

Commissioners, with Jerry Mebus voting no, approved the proposal.

Evans said the equipment would enable cross-county communication between deputies in patrol cars.

It's something we've needed for many years," he said. County Auditor Jack Benson, however, opposed the purchase, saying the sheriff had already bought the equipment and, in doing so, was violating a state statute which directs officials to handle such matters through the county purchasing agent.

"It was an oversight on my part, I guess. It hasn't been installed yet so I'd like to get an okay on the purchase of it," Evans replied.

Benson told the court "I still may be placed in the position of not honoring the claim unless we feel we've complied with the law."

Evans said later he and Benson had reached an agreement to approve the purchase and that he had "sent a formal request to the purchasing agent."

Benson, however, denied that he and Evans had reached agreement and he would have to look at the request before making a decision on whether or not to pay it.

The auditor added that Evans was a "capable administrator and what he's done he's probably done right" but the action nevertheless was in violation of state law.

Chicano Support Sought by GOP

DALLAS (AP) — Three government officials began a tour of Texas cities Monday to search for Mexican-American votes for President Nixon.

The three are U.S. Treasurer Romana Banuelos, Phillip Sanchez, director of the Office for Economic Opportunity, and Carlos Villarreal, administrator of urban mass transportation in the Department of Transportation.

reached, the status of the various state highway departments and their expenses came into question.

Texas has funds to carry forward highway projects through "June of 1973, but the disturbing thing is that Texas can't let contracts for fiscal year 1973-74 until we know where the funds are coming from," said Garrett Morris, chairman of the Ground Transportation Division of the Port Worth Chamber of Commerce.

He pointed out that Tarrant



weeks of tours by SURTRAN bus has been 250, 450 and 319.

AIRPORT FREEWAY, the new name for the Texas 121A route to the airport is now official in three cities with the recent passage of a resolution by Richland Hills City Council. Similar resolutions have been adopted by Fort Worth and Haltom City.

MRS. H. L. ARNOLD, president-elect of the Texas Federation of B&PW Club, will be honored as an outstanding woman in business at a Colonial Country Club banquet Thursday. She's in Galveston Tuesday as key speaker for National Business Woman's Week.

UNIVERSITY OF TEXAS at Arlington has a new student employment office, reports Bill McCAda. Arlington area businesses with a need for student help can reach them at 273-2766.

MENDEED HEARTS INC. OF Arlington is taking reservations for an Oct. 28 first anniversary banquet through Glynda Podgers at 1933 E. Abram. Dr. Frank Cheavens is speaker for the dinner at Holiday Inn of Arlington.

NORTH RICHLAND HILLS breaks ground for a second city park Saturday at 10 a.m. Mayor Marion Massey says it'll be valued at nearly \$250,000 when completed. The Bureau of Outdoor Recreation is contributing \$115,000 to development of the 42-acre facility on Chapman Road near Rufe Snow Drive.

TCJC SOUTH CAMPUS STARTS new noncredit courses in home interior design and holiday floral design Tuesday. The Office of Community Services has details at 534-4861, ext. 306.

Road Bill's Death Could Affect Texas

State and local highway officials say it is too soon to know what effect the Saturday night "stalemate" in Congress on highway funding will have on state and Tarrant County projects.

Luther DeBerry, assistant engineer with the Texas Highway Department in Austin, said Monday: "I have no way of knowing yet what's going to happen. Congress hasn't adjourned yet. There's still a possibility they may act on it."

Saturday night, multibillion dollar federal highway bills died in House-Senate conference when mass transit and highway advocates could not reach agreement.

Lost in the impasse were a House bill authorizing more than \$29 billion for interstate and federal highway systems, and a \$25 billion Senate bill proposing that the Highway Trust Fund be opened for mass transit funding.

When no agreement between the two factions was

New Names Proposed For Roads

City Manager Rodger Line has proposed names for all the unnamed frontage roads of Interstates 20 and 820 and U.S. 287.

Line, who asked City Council to act on his recommendation Wednesday, said Monday that naming the frontage roads was "purely a subjective matter."

He noted that in recent discussions of the subjects, only one council member, W. S. Kemble Jr., had indicated any strong preference for naming the access roads after people, such as has been done in Dallas.

(State law prohibits the naming of state and U.S. highways. Thus only the frontage roads are named.)

"It's a fact," said Line "that the West Freeway has been known as the West Freeway for 20-odd years, so it won't make any difference what we call it."

He said that in the future the council might want to name the access roads to new freeways after individuals, before some other name has had a chance to become ingrained.

Line recommended that 120 frontage roads be named East Freeway from Main Street east to I35W, and West Freeway west to the Parker County line. He wants U.S. 287 frontage roads from I35W to the T&P Railroad named Poly Freeway North and from the T&P southeast to Loop 820 named Poly Freeway.

Various sections of the loop, if the council approves Line's recommendations, would have access roads called Northeast Loop 820, East Loop 820 North, East Loop 820, East Loop 820 South, Southeast Loop 820, Southwest Loop 820, West Loop 820 South, West Loop 820 North and Northwest Loop 820.

The council is meeting on Wednesday this week because some members were attending a seminar on revenue-sharing in Dallas Monday and Tuesday.

Honeywell Says Bids Biased For IBM; Suit Threatened

Honeywell, Inc., one of several bidders on the county computer system who lost out to IBM last week, apparently is considering legal action against the county.

A Honeywell representative, Walter Whittington, marketing manager for the branch office in Dallas, appeared before commissioners court Monday morning to protest the selection and approval of IBM to sell a computer to the county.

During the presentation, Whittington said Honeywell "was clearly the low bidder" and that the computer "specifications obviously were slanted to a single vendor."

He called the computer selection committee's report a "biased and emotional evaluation," adding that it was "not factual in the analysis of Honeywell's costs."

Commissioners court, however, expressed satisfaction with the committee's work — Commissioners Jerry Mebus, and Dick Lewis called the report "fair" — and declined to take any action on Whittington's proposal to re-evaluate the bids.

Whittington said later that "we are in the process of forwarding all the pertinent material to our legal counsel."

He said while he doubts a lawsuit will be filed, the decision would be up to the company lawyers.

Lewis said after the meeting that he had been approached by another Honeywell representative later last week and told he might have difficulties with his re-election campaign if he didn't support the Honeywell proposal.

"They came down here and threatened me," said Lewis, adding that the representative had also "threatened the county with a lawsuit."

Mebus said he had talked with someone from Honeywell, too, but did not feel any pressure was brought to bear on him.

"I'm not insinuating. It's slanted from beginning to end," replied Whittington.

County Auditor Jack Benson said analysis of the bids showed that, while Honeywell was slightly lower on their lease-purchase plan than IBM, costs for Honeywell equipment and services would be higher than IBM's after the county becomes owner of the computer five years from now.

Benson and Purchasing Agent Ed Smith also pointed out that while Honeywell offered free training for county personnel, the county would have to pay salaries plus other expenses while the people were taking the training.

They said the county should be able to find already-trained personnel to handle IBM equipment.

A split vote occurred last Monday when the computer recommendations were pre-

sented to commissioners court by the committee.

Commissioners George Richardson and Dick Andersen voted to accept the Honeywell bid while the others voted for IBM.

In a second vote on the issue, the IBM bid was approved unanimously.

Objections similar to those expressed by Whittington Monday were voiced last month by a UNIVAC representative.

The UNIVAC spokesman said the specifications for the system were written so that no firm other than IBM could successfully bid.

He said, however, that his firm did not think there was any "overt" attempt on the part of the county to rule out other bidders.

UNIVAC found the specifications so objectionable that it finally decided not to enter a bid.

Four Panels to Promote Chamber in Colleyville

COLLEYVILLE — Four committees have been formed to promote a chamber of commerce here.

A group of 12 businessmen appeared before City Council

last week and received permission to form the chamber.

Friday night 25 businessmen met and formed membership, design and organization, finance and project potential committees.

What's Going On Here

- 8 a.m.—Greer Island Nature Center at Lake Worth open until 5 p.m.
- 9 a.m.—Gray Line sightseeing tours leave Greyhound terminal and downtown hotels; Fort Worth Museum of Science and History open until 5 p.m., free; Log Cabin Village open until 5 p.m., 10 and 25 cents; Pate Museum of Transportation open until 5 p.m., U. S. 377 at Cresson, free; Fort Worth Zoological Park grounds, aquarium, herpetarium and aviary open until 6 p.m., \$1 for persons over 12.
- 10 a.m.—Amon Carter Museum open until 5 p.m.; Fort Worth Art Center open until 5 p.m.; Kimbell Art Museum open until 5 p.m.; Lion Country Safari open until 4 p.m.; Southwestern Historical Wax Museum open until 6 p.m.
- 1:30 p.m.—Gray Line sightseeing tour.
- 5 p.m.—River Ridge Pavilion at Forest Park open until 10 p.m., rent paddleboats and bicycles.
- 6:45 p.m.—"The Drunkard," Windmill Dinner Theater, 335-2686.
- 7 p.m.—Public Ice Skating until 9 p.m., Will Rogers Coliseum.
- 8 p.m.—Southwestern Baptist Theological Seminary—Faculty Recital with Jack Coldiron, baritone—Reynolds Chapel, free.
- 8:15 p.m.—TCU Select Series—"Bramwell Fletcher as Bernard Shaw"—Ed Landreth Auditorium, \$2.50.

N. Viet 'Builders' Press for Bomb Halt

Third of a four-part series.

By VICTOR ZORZA
Special to the Washington Post/Outlook
Those Hanoi leaders who want to concentrate on the "building of socialism" in the North, that is, on industrialization, would be far more vulnerable to the political effects of bombing than those who care primarily about a victory in the South.

The evidence of the debate between the two factions over the years shows that it is the "builders" who were usually pressing for concessions to the United States to procure a suspension of the bombing, while the "fighters" wanted to go on regardless. A major issue in this debate, which is again becoming visible, has been the fear that by bombing the North the United States might not just hold back the "building of socialism" but "liquidate" its Socialist system as such, that is, overthrow Communist rule there. Just how this end might be achieved, unimaginable as it may appear to most people in the West, was indicated in the

earlier stages of the debate. The United States was said to intend the liquidation of the "Socialist system" in the North by planning ultimately to unleash the southern generals against Hanoi. Why the North should fear any threat, even if it were seriously intended, when President Nguyen Van Thieu has his work cut out to maintain a viable regime in the South is a question that is answered by the history of Communist regimes elsewhere.

BOTH RUSSIA and China went through a stage when they believed their very existence threatened — for instance, by the United States policy of "roll-back" in the early fifties, when the avowed purpose of John Foster Dulles as secretary of state was to roll back the Communist system from the areas into which it had expanded.

Hanoi, in imagining the threat to be real now, may be a few years behind the times, but the men who have considered the United States as their principal enemy for

nearly 10 years would certainly be ready to believe the worst about their adversary's intentions.

Indeed, the United States was aware this was one of Hanoi's major motives, and repeatedly sought to reassure the Communists that it did

INTERPRETIVE

not intend to destroy the northern regime. American efforts to this end, which are described in the still secret volume of the Pentagon Papers dealing with diplomatic negotiations, had no visible effect. Signs persisted that some Hanoi leaders believed the United States sought destruction of the regime.

It is this fear that the northern regime might itself be liquidated that has been exploited by the Nixon administration to bring Hanoi to its knees.

THE UNITED STATES might be in no position, politically or psychologically, to expand its bombing offensive

against the North to include civilian targets and administrative nerve centers of the system. The outcry against even the presumed bombing of the dikes proved that much. But there was one voice that was crying out a different message — that of President Thieu of South Vietnam. He believed the dikes should have been bombed, and if his air force had the capability to do so, they probably would have been bombed. At least, Hanoi would certainly believe that Thieu, given the American weapons, would do all he could to destroy the northern regime, starting with the dikes — and perhaps not going much beyond that, because not much more would be required.

Thieu and, before him, his vice-president, air force commander, and lately rival, General Nguyen Cao Ky, repeatedly and sharply have pressed the United States to give them the aircraft capable of performing such operations. The United States has

refused precisely because it does not trust Thieu with them. Some U.S. officials, particularly those in Saigon and in the Air Force, have urged this course of action to Washington. To Hanoi, even the least sign that this was being discussed would confirm its worst fears.

Hanoi was certainly aware of the study launched by the Pentagon on White House orders, immediately after the beginning of the Easter offensive, about the best way to strengthen the South-Vietnam armed forces.

The Pentagon task force examined the question of re-equipping the South Vietnam air force with more powerful aircraft — something that Hanoi would certainly know — but, according to Defense Secretary Melvin Laird, there is no intention to proceed with any such plans. Would Hanoi believe him, or would it suspect the worst?

In the Wednesday morning Star-Telegram: Strong signal from President Nixon.

© 1972, Victor Zorza

Hereford-Angus Captures Title In Stock Show

HENRIETTA — A 970-pound black baldface Hereford-Angus cross shown by Russell Harrison, 10, son of Mr. and Mrs. L. C. Harrison of Dean, was judged grand champion steer of the Clay

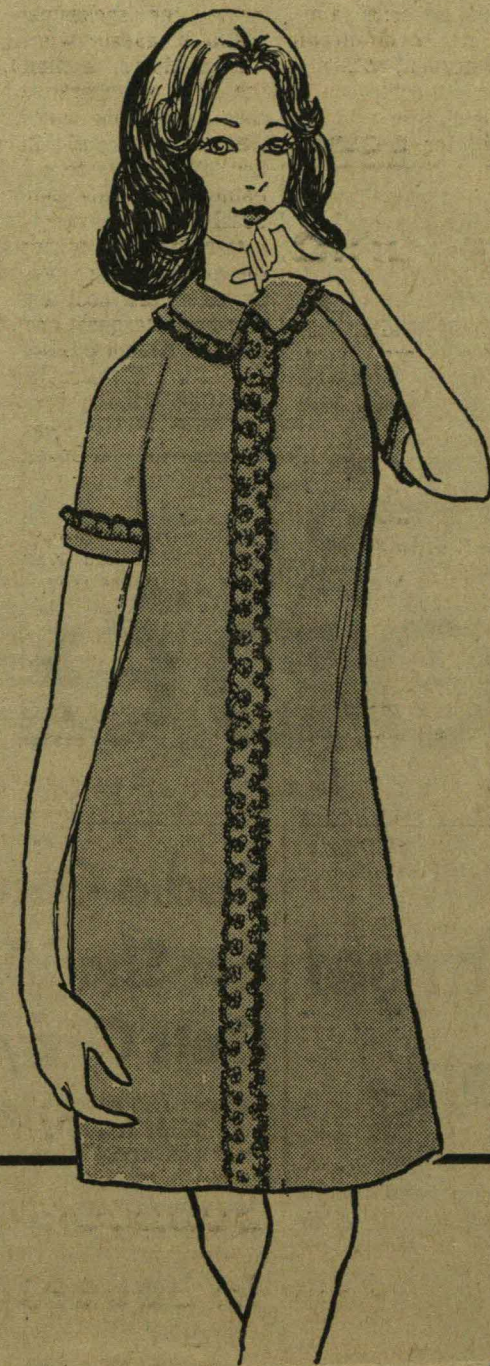
County Junior Livestock Show in Henrietta.

Reserve champion steer was another crossbreed. The entry was by Charles Tyson, 15, son of Mr. and Mrs. Marvin Tyson of Bellevue.

The division's showmanship trophy went to Ken Jones, 12, son of Mr. and Mrs. Billy Ray Jones of Byers.

More than 60 steers were entered in the show by Clay County 4-H and FFA youths.

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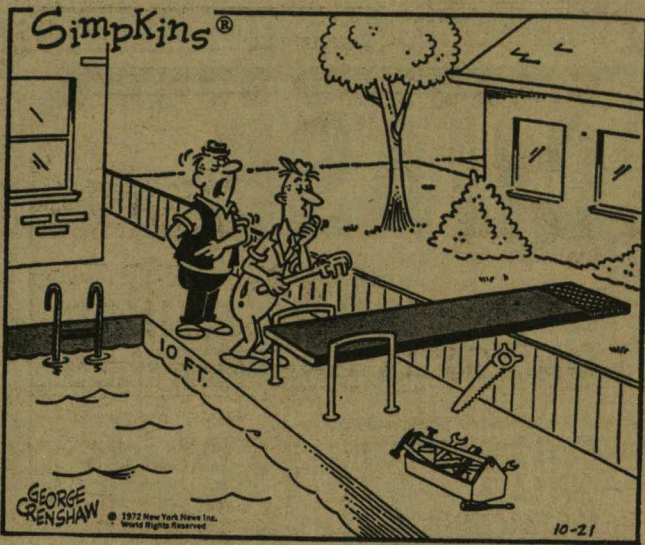
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"One small detail, Simpkins . . . the pool is THIS way!"

Benson Sees Strings Tying Sharing Funds

County Auditor Jack Benson warned county commissioners Friday that the \$1.7 million in revenue sharing funds due the county will not come without some kind of restrictions.

"There have always been restrictions or strings attached to federal grants," he said. "I expect that we will have some restrictions on this, also."

Benson told commissioners that the county "should receive our first sharing check sometime in the first half of November. This first check will probably represent one-half of the amount."

SAYING THAT "anything you start with federal funds never terminates whenever the federal funds terminate," the auditor advised against including the money in next year's budget.

"It might be unwise to base the day-to-day operations of Tarrant County on revenue sharing and then be left out on the proverbial limb," he said.

"This does not mean that Tarrant County should not be progressive," he said, suggesting that the federal money could be used for a "number of worthwhile capital projects."

Included in Benson's list of projects were purchase of

main components of the new computer system, renovation of the old courthouse, construction of a central records warehouse or a garage and warehouse for the fire department, voting machine and microfilm equipment purchases and building at least two more subcourthouses.

Commissioners, meeting informally, decided after some discussion that the county needs two more and perhaps three subcourthouses.

THAT ACTION came after they were informed that planning director Charles Winters intended to notify the Criminal Justice Council that the county will be seeking a grant to fund a facility in the north-west portion of the county.

Commissioner George Richardson suggested another be built on the South Side and was supported by Commissioner Dick Andersen.

Commissioner Jerry Mebus then noted that the Arlington subcourthouse is to be torn down in two years and replaced by a new city hall.

Commissioners indicated they might want to use revenue sharing rather than CJC money to build the facilities. CJC funding would pay 42.5 per cent of the building costs.

Bandits Take \$500 Cash, Pair of Boots

Two bandits fled with \$500 cash and a pair of boots Friday morning after tying up two employes at Kinney's Shoes, 5133 Wichita.

Employee Kenneth Malone, 19, told police the two men entered the store shortly be-

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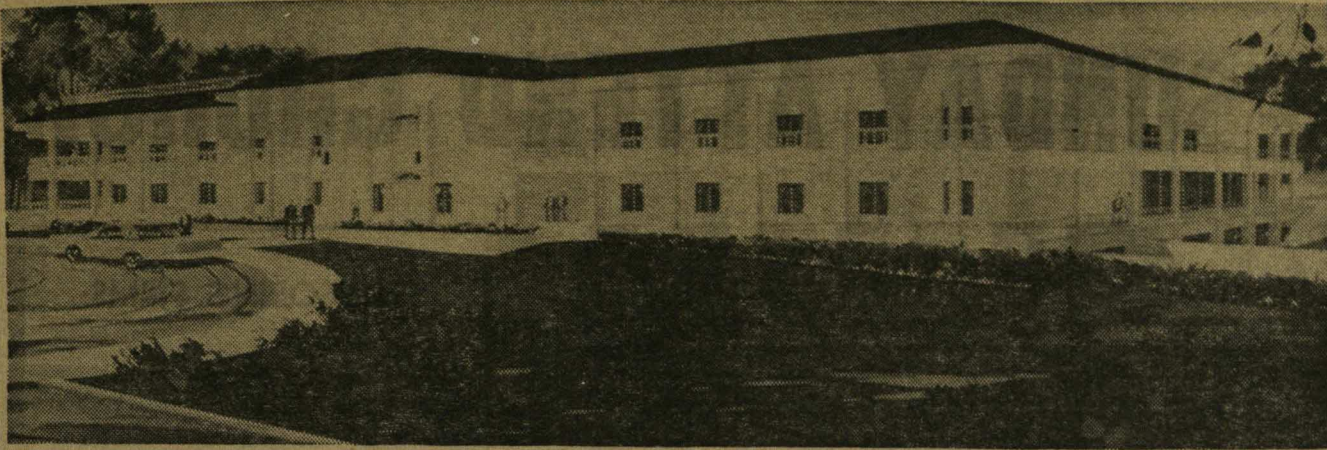


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Artist's view of Pecan Plantation

This is an artist's conception of how Pecan Plantation clubhouse will look when it's built in 1973 on a 17-mile stretch of the Brazos River and on Lake Granbury. The top floor will be a hotel for members with guests. Bob and Paul Leon-

ard, developers, plan an 18-hole golf course, an all-weather lighted airstrip, swimming pool and tennis courts. The development will be surrounded by pecan orchards.

Official of UN to visit in FW

United Nations YMCA representative, Dr. Nicholas T. Goncharoff, will be in Fort Worth Monday through Thursday for a series of speaking engagements.

Dr. Goncharoff, YMCA national director of international education and cultural affairs, will make two addresses at TCJC South campus Monday. Other scheduled appearances include TWC, the Northeast campus of TCJC, Colonial Cafeteria and TCU.

Particular information is available at the Fort Worth metropolitan YMCA.

GOP, Demos to watch every step

Some punch-card voting answers

By TERRY KELLY

It would take collusion between Democrat and Republican Party workers — and therefore would be virtually impossible — to tamper with punch card-voting in the upcoming general election.

Answering questions and worries related to the punch card system, an official of the company that is leasing the machines to the county says that GOP and Demo representatives will be in on every phase of the operation including the running of the computer that will count the votes.

Joe Chowning, vice president of Computes Election Systems, said computer experts from both parties have tested out the computer already and another test will be made Nov. 2. The experts will set up a card check for the entire 176 county precincts in their examination.

The duo of party-loyal experts will also be on hand and working election night to make sure there are no foul-ups. Each man will run a test deck—stack of cards—through the computer before and after votes are counted and will keep an eye on the running of returns.

SOME OTHER questions asked by individuals and groups — such as the League of Women's Voters, which is opposing the use of the system this election — include how voters can check votes, and will there be returns posted by precincts? How will the cards be transferred from precinct to computer?

To make sure the voter has punched out the correct hole for the candidate of his choice, the numbers on the

card can be compared to the candidates ballot number. The numbers should be the same.

How will the voters get their computer cards? According to County Clerk Ed Loftin the precinct workers will take a handful of cards, shuffle them and spread them out on a table "so they won't fall in numbered order." A voter will go to the ballot table and take any card he desires.

Can the cards be perforated when voters stand in line? No, Chowning says, the cards have to be poked with something sharp. "You can't just normally hold it in your hand and do it," he adds.

WHAT HAPPENS to cards voters mess up? Loftin says if a card is punched wrong — a voter gets three chances to punch one good card — "void" is written on the back and the serial number put down on a list. The ballot is kept 60 days along with the other ballots and then destroyed.

What is "over-voting" and what are the chances for it? Over-voting is casting votes for two candidates in one race. Chowning says that past performances show that there is less than one-hundredth of one per cent over-voting. If over-voting occurs that race will not be counted on an individual card.

How many cards will be torn or damaged? About one-10th of one per cent, if earlier figures hold up, the company's vice president says. When a card is damaged, it will be re-punched just as the voter voted. The safeguard: A Republican and a Democrat will do the re-punching together at the computer center. The cards are given a "cursory check" according to Chowning — again by the two parties' representatives — before they are fed into the computer. When the machine hits a damaged card it stops and the offending paper is taken out.

HOW DO THEY make sure a card is being counted in the correct precinct? Precinct numbers are programmed into the cards and a "leader card" is put into the computer first. If there is a card that does not match that programmed number "the machine will stop and print out a message that say 'incorrect ballot statement for this precinct,'" Chowning adds. "It has to read and compare cards."

The cards also have a precinct number stamped on the card for the human eye. They also have individual serial numbers.

Can there be a computer program foul-up? According to the computer man there can't be — only people not paying attention to what they're doing. The same program has been used about 400 times, Chowning says, and hasn't messed up yet. To be safe there is a back-up computer humming in readiness if needed.

IF THERE IS a plot to over-vote a number of ballots in a precinct, can it be detected? Yes. The computer will record the number of over-votes in a precinct and give the figure to the judges. If there seems an inordinately high amount in one precinct — enough to suspect some type of fraud — the ballots will be taken to the votes in the precinct to determine how the individuals cast their ballots. Vote tampering is a felony under Texas law.

How will the vote cards be transferred from the precinct to the computer center? After a voter completes his punching, he puts the ballot in a sealed box. The ballots will be taken out of the can while at least six workers, party representative and a law enforcement officer watch. The cards are then put into a transfer case. The cases are numbered seal. The cases — again in the company's presence — will be transported to the computer. ("They better get there with with that seal," Chowning says.) The seal will be broken and the cards counted.

ARE PRECINCTS in danger of running out of cards?

Loftin says he will give precincts enough to take care of the voters. However, if the precinct starts running low warehouse crews will take a new supply out.

Does the county have to buy the election supplies from CES after this election? The contract is just for the current election, according to Loftin. After that they will have to re-submit on a bid basis.

Is voting any faster on the punch card than it is on lever machine? The computer men say the time runs about the same for the average voter. Although some opponents say it will take longer to check over their votes.

UTA chief is named to new UT position

Dr. Frank Harrison, president of UTA, has been appointed president of the University of Texas System's Health Science Center in San Antonio effective Jan. 1.

Dr. Harrison, whose career has included service as a physician, educator and administrator, became president of UTA in September 1968.

An acting president to succeed Dr. Harrison will be announced at a later date.

Announcement of Dr. Harrison's appointment was made in San Antonio Friday by Charles M. LeMaistre, chancellor of the UT System.

LEMAISTRE SAID that Dr. Harrison "has earned such a reputation for his teaching and administrative abilities that both the faculty/student advisory committee and the 39-member selection committee for the South Texas institution recommended him highly for the job."

In his new position, Dr. Harrison will be responsible for a new concept in co-ordinating the instructional and research activities of the Medical School, Dental School, School of Allied Health Sciences and the Graduate

School of Biomedical Sciences.

In accepting the appointment, Dr. Harrison commented, "I view this change with mixed emotions. Naturally, I am sad to leave the many good friends I've made at UTA."

"BUT I'M honestly excited about being back in a medical school. Putting the different facets of medical education together is certainly a more efficient use of the taxpayers' money and I'm looking forward to the challenges of this new position."

Dr. Harrison, graduate of Southern Methodist University and a member of Phi Beta Kappa, earned a Ph.D. in neurology from Northwestern University and received an M.D. from Southwestern Medical School in Dallas.

DR. HARRISON came to UTA on a part-time basis in 1966 to organize the school's new graduate program, which now offers 24 master's programs and three doctoral programs.

He was named acting president of the university in September 1968 and became president 10 months later.

He was honored as SMU's distinguished alumnus in 1971.

Bishop to address TWC meet

Methodist Bishop W. McFerrin Stowe of the Fort Worth-Dallas area will deliver the address at the kick-off luncheon Monday for TWC's 1972 Sustentation Fund Campaign.

Goal of the fund drive, which will be held through Nov. 18, is \$200,000.

The luncheon will be held at noon in the Fort Worth Club.

Bishop Stowe was formally installed in his position last month, succeeding Bishop W. Kenneth Pope.

He is a graduate of Hendrix College, earned his bachelor of divinity degree from Duke University and a Ph.D. from Boston University.

R. E. Cox Jr., vice chairman of the TWC board of trustees, is general chairman of the 1972 campaign. Honorary chairman is Raymond C. Gee, trustee board chairman.



Bishop Stowe

Mushrooms, cheese go on hamburgers

Here's a luscious mushroom-cheese topper for hamburgers. Blend together a 10½-ounce can undiluted cream of mushroom soup, 1 cup (4 ounce) shredded Cheddar Cheese and ¼ cup chili sauce. Yields two cups of zesty sauce — enough for eight hamburgers.

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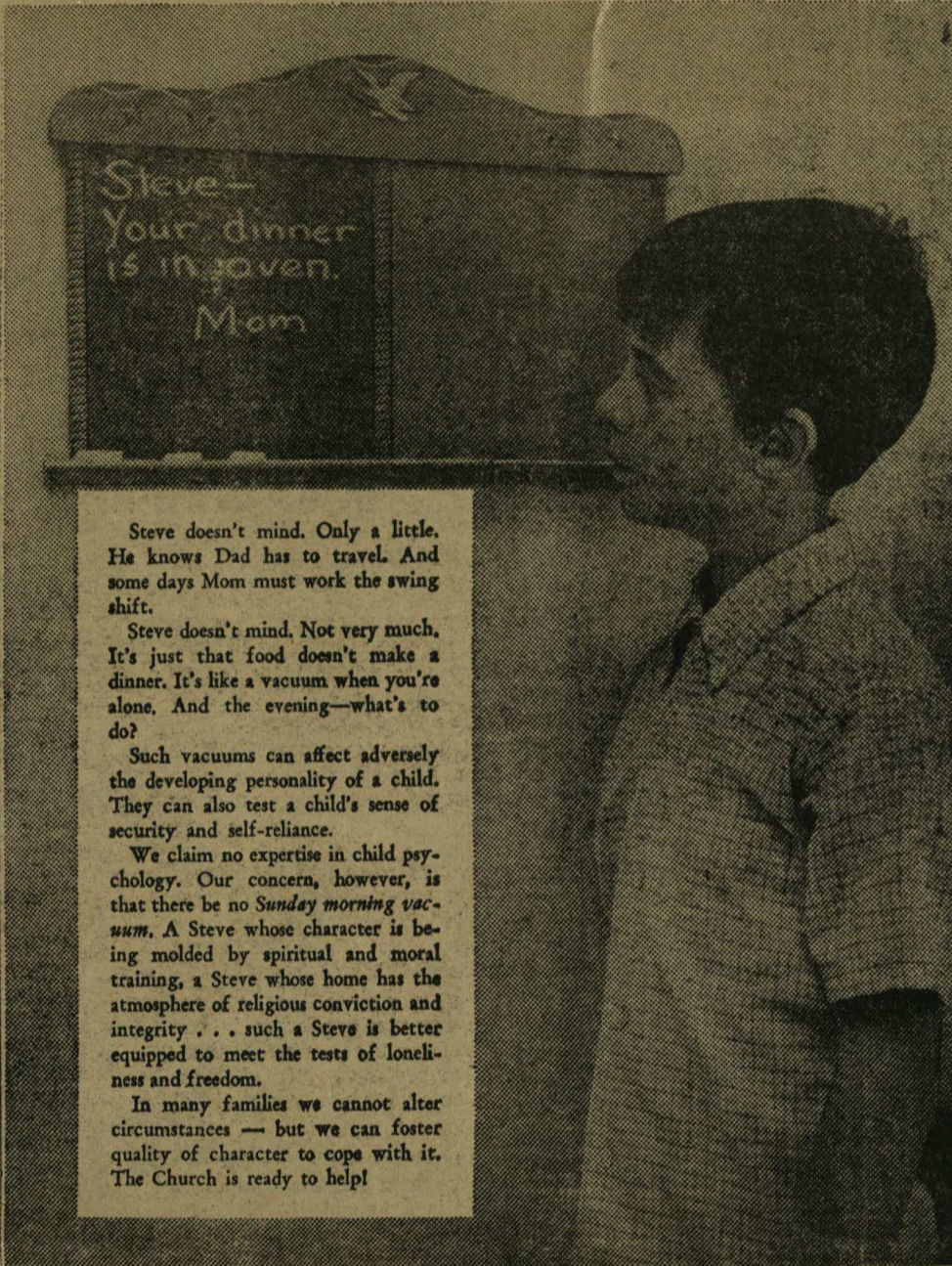
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In many families we cannot alter circumstances — but we can foster quality of character to cope with it. The Church is ready to help!

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Scriptures selected by the American Bible Society

	<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
	<i>Ephesians</i>	<i>Matthew</i>	<i>Luke</i>	<i>Acts</i>	<i>Hebrews</i>	<i>1 Peter</i>	<i>Revelation</i>
	2:4-13	28:16-20	24:44-48	1:7-11	12:1-6	1:10-21	1:1-8

WE ARE THANKFUL FOR THE LEADERS OF OUR COMMUNITY LISTED HEREON WHO BRING US THIS WEEKLY PAGE IN THE HOPE THAT OUR CHURCHES WILL BE STRENGTHENED AND THEIR INFLUENCE FELT IN OUR DAILY LIVES. OUR FAITHFULNESS IN CHURCH ATTENDANCE AND HOME WORSHIP WILL MOLD TOMORROW'S LEADERS.

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County employes ask benefits

The local union representing county employes today presented a nine-point program to county commissioners for approval.

Garfield Thompson, president of the union, asked commissioners for:

—A 10 per cent cost of living increase.

—Rebids on health insurance to include a maternity clause.

—Elimination of a time clock at Convention Center or have all employes punch it.

—Uniforms for employes at Convention Center, central garage, all custodians and precinct workers.

—Time and a half for work over 40 hours and double time for Sundays and holidays for all county employes.

—Increased sick leave from 90 to 120 days.

—Three weeks vacation after seven years rather than after 10 years.

—Classification changes.

—Equal opportunity for county law enforcement officers to work as security guards at Convention Center.

REPRESENTED by the union are 285 members of 1100 county employes.

Commissioner George (Skeet) Richardson said the county auditor was looking into the insurance program about a maternity clause.

County legal advisor Jim Morgan said the question of security guards was a matter for people at the Convention Center to handle.

Also at Commissioners Court today, another computer company filed a complaint.

Ed Lund, Dallas Metroplex branch manager of Burroughs Corp., said his company could save the county \$1,005,000 over five years. He asked that commissioners bring

in a third party to look at bids which resulted in the county awarding a bid to IBM on Oct. 9.

Earlier, Univac and Honeywell also had complained about the specifications which reportedly leaned toward IBM.

County computer man Bill Roberts said today: "The committee that recommended the IBM bid went over the bids fairly and exhaustively and I think the work has been done and been done well."

No action was taken by commissioners.

COMMISSIONERS also heard a request today for \$16,200 for next year's budget of Youth Services Bureau of Tarrant County.

Donald Weiss of the bureau said federal funds would be cut-off next Oct. 1 and the money would be needed as a stop-gap measure until a state agency could be set up to fund the program.

Judge Howard Green said, "I think it would be a crime for us not to continue this program."

Commissioners voted a resolution supporting the bureau, which is geared to keep kids out of trouble, but said funding could not come until budget time.

The Fort Worth Press

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TOPPLED TREE—James Johnson, an employe of the J. A. Tompkins Co.,

uses a chain saw to cut up a tree felled in Oakwood Cemetery.

—Star-Telegram Photo

Voting Figures Certified; Absentee Tally Still Hazy

General election vote tallies were canvassed and certified by county commissioners Monday despite an apparent deficit of 900 absentee votes. County Clerk Ed Loftin said 225,342 persons voted this year in Tarrant County and asked for certification of the ballot returns.

Or, the 900 ballots just disappeared.

Palm asked commissioners to look into the matter before certifying the vote totals, but the court approved the tallies after being advised by county legal adviser Jim Morgan that any challenges could be made only after certification.

Before commissioners could act, however, Republican County Chairman R. Ed Palm said the absentee totals still showed 900 votes missing.

Computer specialist Bill Roberts, whom Loftin said was in charge on the computer center on election night, said he knew of no discrepancies which occurred at the center.

He said checks had been made with the help of Loftin, but a total of only 11,383 absentee votes were tallied by the computer while clerk's office records showed 900 more persons actually signed in to vote.

Loftin said he was unable to explain the difference, but suggested that "if there are any misplaced ballots, they are mutilated."

Palm offered three explanations:

The court also revived the original punch card voting machine study committee to study the performance of the devices during the election.

Perhaps the 900 persons actually signed in on the county absentee voting facilities, but then left before voting;

Added to the committee were two representatives to be appointed by the Democratic and Republican parties.

Those 900 ballots were among votes mutilated to such an extent that they could not be re-punched in the computer center on election night;

The committee was instructed to report back to commissioners in January.

STAR-TELEGRAM 7:05 AM NOV. 14 1972

Commissioners OK Support Of Youth Services Bureau

County Commissioners approved a resolution Monday supporting Dr. Donald Weiss' request for \$25,200 to help fund Tarrant County Youth Services Bureau next year.

Weiss said he wanted the county to commit \$16,200 to his agency next year in addition to the \$9,000 rent money commissioners have already granted.

uate the bids and issue new recommendations.

COMMISSIONERS, however, were told by county computer specialist Bill Roberts that the county computer selection committee had "considered every factor. The recommendation was a good one, at the least cost to Tarrant County."

YSB, a federally funded pilot program, will probably lose federal support in 1973, said Weiss.

Commissioner George Richardson called the program necessary but said "checks and balances" on YSB were necessary. He suggested the bureau allow the county's auditing department to conduct an audit of YSB finances.

The commissioners refused to rescind approval of the IBM bid after Richardson said he thought the court "has made the just selection" and suggested that "we have to move on."

He said the bureau provides a "pre-delinquency program" which attempts to aid youths "before they reach that point where they would be liable to adjudication."

County Judge Howard Green said it would be "a crime for us not to continue the program."

The county employes union, Local 125 of the American Federation of State, County and Municipal Employes, was represented by its president, Garfield Thompson.

It also handles referrals from other agencies and works with youth groups and "youth all over Tarrant County ... and all over the state," he said.

Auditor Jack Benson, while noting that no money could be appropriated until early January when the new budget is approved, said funds for YSB could be readily drawn from revenue sharing money.

Thompson presented a list of nine requests for the commissioners to consider in writing next year's budget.

"Eighty-five per cent of all adult inmates ... have juvenile records," said Weiss. "We are trying to alter that."

Weiss said he needed a large governmental entity to show support for his agency before smaller municipalities would approve funds.

The list included a 10 per cent "cost of living increase for all county employes," health insurance including a maternity clause, uniforms for certain workers, overtime in the form of time and a half over 40 hours and double time for Sundays and holidays, and that employes be allowed to accrue 120 days sick leave rather than the present 90 days.

HE SAID THAT in the last year, referrals to his agency had risen while the cost of handling them had decreased.

ATTEMPTS TO get money from Hurst, Bedford and Haltom City have so far failed, but Weiss said the three cities are still considering YSB proposals.

What's Going On

- 8 a.m.—Greer Island Nature Center, p.m.
- 9 a.m.—Fort Worth Zoological and herpetarium open until 5 p.m., free; Gray Line terminal and downtown tation open until 5 p.m.
- 10 a.m.—Special performance at Fort Worth area schools, \$1.75 admission; Fort Worth Safari open until 5 p.m.
- Kimbell Art Museum, Historical Warehouse
- 1:30 p.m.—Greer Island Nature Center
- 5 p.m.—Riverfront park
- 6:45 p.m.—Fort Worth Zoo
- 8:15 p.m.—Kimbell Art Museum

have board James that they the make cast nlin- lay-prop the offi- that un-com- d. City days spur ewitt pro- group eady

In other business, commissioners heard a presentation from Burroughs Corp. asking for a re-evaluation of bids on the county compute system and a request from the county employes' union seeking a 10 per cent raise for all workers.

Burroughs' branch manager Ed Lund made a slide presentation in which he attempted to demonstrate million-dollar savings for the county if Burroughs had been given the computer contract rather than the bid winner, IBM.

Lund said a total of \$540,000 could be saved on hardware, \$390,000 on software and \$75,000 on support over five years if Burroughs were chosen.

"The five-year savings approximately equals the purchase of the Burroughs B4704 computer as proposed," he said.

Lund urged that a third party be authorized to reeval-

breaks 1000 t-taking seen

Glamor issues were irregular. Walt Disney gained $1\frac{1}{2}$, Xerox $1\frac{3}{8}$ and ARA Services $\frac{1}{8}$. Polaroid and Schlumberger each lost $1\frac{7}{8}$ and Curtiss Wright 1.

Superior Oil was off $\frac{1}{2}$ in the irregular oils.

Burlington Northern gained $1\frac{1}{2}$ in the higher rails.

Steels, motors, chemicals, airlines and aircrafts were mixed in fractions.

Tabulating tally terribly tricky

Once upon a time there was a general election. And in that general election there was some absentee voting. Those votes were tabulated . . . tabulated . . . tabulated . . . tabulated.

And still, nobody knows the outcome.

A new set of figures has popped up on each of the past three days.

County Clerk Ed Loftin's revised, corrected, amended, altered and repaired absentee vote tabulation today showed only 166 more people on record than ballots actually cast.

GOP county chairman Ed Palm earlier said there was an 842-vote deficit.

Loftin's figures today showed 11,539 names on various lists of voters, rather than the GOP total of 12,217. Only 11,373 cards were run through the computer.

After a week of hassling over the figures, some observers at the courthouse now are saying: "Who cares?"

Meanwhile, tune in for tomorrow's absentee voting facts and figures — Loftin was back at the adding machine today.

Fort Worth prices

OVER-THE-COUNTER ISSUES

Quotations from the National Assn. of Securities Dealers Inc. are representative inter-dealer prices as of approximately 10:30 a.m. Inter-dealer markets change throughout

NEW YORK STOCK EXCHANGE

These New York Stock Exchange prices at approximately 11 a.m. today obtained from A. G. Edwards & Sons Inc.:

Alcon Lab	34 3/4
Ampex	63 1/2

Townbeat

Horse to be auctioned

A registered Appaloosa mare and an antique Edison phonograph with cylinder records will be among items auctioned at Wichita Ave. United Methodist Church, 4625 Wichita, Friday and Saturday. Turkey dinners will be served and entertainment, including a barber shop quartet, will be provided.

Guardsmen give blood

Texas Army National Guardsmen of 949th Maintenance Battalion have rolled up their sleeves for Operation Blood Shed. Forty of the men donated blood to John Sealy Hospital, burn and kidney units, in Galveston and to St. Jude Children's Hospital in Memphis, Tenn., through Interstate Blood Bank Inc. Lt. Col. Donald C. Green, commander, said blood-giving was only one community project of guardsmen, who have done clean-up programs and aided Boy Scouts in good-turn day.

TCU receives \$113,000

The M. J. Neeley School of Business at TCU has received a \$113,000 gift for the Ellis M. Sowell Scholarship. Given through the bequest of the late Clara Bowman Worthington, the gift was presented to TCU Chancellor J. M. Moudy by William Bowman Worthington, son of the donor.

Line to speak at TWC

City Mgr. Rodger Line will speak on "Community Affairs and Issues" at a 10:50 a.m. meeting tomorrow of the TWC chapter of the American Assn. of University Professors. The talk will be made in the Arnold L. Reed Science Center lecture theater.

Drug problem speaker

Dr. Robert B. Dunn of Schick Hospital will speak at the Friday meeting of the Downtown Sertoma Club. His subject will be "America's Number One Drug Problem."

Post card slide program

Everett Frazier will present a "Holidays of the Year" slide program at the Cowtown Post Card Club meeting at 2 p.m. Sunday in the fellowship hall of Eastland St. Baptist Church, 4300 Eastland.

Trio face assault, store theft charges

Two brothers and their 18-year-old companion have been indicted by the grand jury for an Aug. 26 grocery store robbery and shooting at an Arlington policeman.

Indicted for robbery with firearms and assault on mur-

description of the car on radio following the alleged holdup. They stopped a car, shots were fired and a chase began.

The chase ended 3-miles later when the get away car was abandoned in a field

Commissioners need 'eligibles' count

Elderly tax exemption discussed

By TERRY KELLY

All county commissioners agree that persons over age 65 should get a tax break, but no one is exactly sure how to determine the num-

More TV sets than telephones

Would you believe that Fort Worth households have more television sets than telephones?

According to the Social and Economics Admn. of the U.S. Commerce Dept., 95.7 per cent of the 128,992 occupied households in Fort Worth had at least one television set, while 86.4 per cent had telephones.

In other statistics, the bureau found that 79.2 per cent of the city's households had air conditioning, 86.7 per cent had at least one automobile and 24.4 per cent had a dishwasher.

A total of 61.7 per cent of the units in the city were owned by their occupants while 38.3 were rented.

However, only 58.3 per cent of the housing units occupied by blacks were owned while 41.7 per cent were rented. Of the units occupied by Mexican-Americans or persons with Spanish surnames, 54.7 per cent were owned by the residents while 45.3 per cent were rented.

Deer went to wrong place

HARTFORD, Wis. (UPI)—A deer wandered down Main Street in Hartford Wednesday, and when spooked by traffic, jumped through the glass doors of City Hall before scampering off, apparently uninjured.

City Hall is where hunters will pick up door licenses and register their kills during the nine-day deer hunting season which starts Saturday.

ber of persons eligible for such an exemption.

Several plans are now being discussed, but commissioners say no action will be taken until next July when they set the tax rate for the following year.

Texas voters passed an amendment in the general election authorizing local governments to give the elderly a tax exemption of not less than \$3000 on their homestead.

The amendment says the local governments can enact the exemption, or a petition by the people can call a vote. Right now, the county overseers don't know how many people are entitled to the exemption or how much it will cost the county in revenue.

COUNTY COMMISSIONERS

Dick Andersen says he is talking to officials about asking people to write in and inform the county if they are eligible for such an exemption. "This way," he said, "we can get a feel for it. I think we can find out by having them fill out a form."

Commissioner George (Skeet) Richardson says

there is nothing to force these people to write in, so he thinks the county should "play it safe and figure \$500,000 to \$1 million less in expected tax revenue."

Computer expert Bill Roberts says the county possibly can get the needed information from the federal census and run it through the computer. Another possibility, says Roberts, is to run voter registration information through the computer—but this may not work since age is no longer required on voter registration forms.

ANDERSEN said the county at least needed some kind of rough idea about how many people are eligible for

such a tax exemption. "I hope we can grant an exemption," he said. "These people are really hurting."

Richardson, who says he co-authored a similar bill while in the state legislature, stated: "Anybody on a frozen small income is being eaten up by taxes. It's a shame we don't take more care of our old folks."

All commissioners are hoping the county's natural growth rate will take care of any lost income which might result from giving peo-

ple over 65 a tax break.

REED STEWART, county assessor-collector, says he thinks the whole question probably will wind up in court, due to a clause in the amendment.

Any taxpayer could protest the exemption on the grounds that it impairs getting rid of county indebtedness, or it raises taxes of other citizens.

"I would like to see an interpretation on the amendment," said Stewart, who added that he was not rec-

ommending taking action for or against such an exemption at the present time.

Oh! 3rd HIT WEEK!

Calcutta!

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12:00-3:00-6:00-9:00

2nd WK! "DIRTIEST GIRL I EVER MET"
12:40-2:25
4:10-6:00
7:45-9:35

12:10-4:05-8:00
"GONE WITH THE WIND"

12:30-2:15-4:05-5:55-7:45-9:35
WHAT'S UP, DOC?

He hung up his guns at the age of fifteen.

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PG

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20 mg. "tar" 1.4 mg. nicotine av. per cigarette, FTC Report AUGUST 72.



Dorothy Edge

Gory? Sure
 but it's true

One of the goriest movies ever produced will be repeated today for television viewers.

Truman Capote's "In Cold Blood" caused a stir when it made its debut in movie house late in 1967. And today's airing on Channel 39 at 8 p.m. is expected to have the same affect on the TV audience.

Based on facts, the story concerns the murderers of an entire family and the ensuing hunt to bring the killers to justice.

It is a terrifying film, obviously not suitable for the timid or very young.

CBS made the film available to Channel 39 after the networks local outlet refused to show it in prime time. Today, at 8, Channel 39.

IF YOU CAN'T see anything funny about a 47-year-old woman coming up pregnant unexpectedly, you didn't see the latest episode of "Maude."

But all is not lost—you'll have a second chance to laugh at the seemingly ridiculous situation as the two-part story is concluded next week.

Maude, capably portrayed by Beatrice Arthur, toys with the idea of an abortion as an alternative to becoming the 62-year-old mother of an Eagle Scout. Though a trifle late, her husband Walter (Bill Macy) starts thinking about a vasectomy.

What actually happens will keep you laughing the full half-hour.

Norman Lear, the executive producer of "Maude" says the show is gaining popularity as a result of its open and frank discussions of women's problems in real life.

"She (Maude) is typical of many women in their 30s, 40s and even 50s who are still wondering about their own identities," Lear commented.

Too bad they all don't have Maude's wit.

Tonight's television log

4 (KDFW) CBS 5 (WRAP) NBC 11 (KTVT) 8 (WFAA) ABC 13 (KERA) 39 (KDTV)

THURSDAY

6 P.M.

- 4 EYEWITNESS NEWS
- 5 TEXAS NEWS
- 8 NEWS 8 ON THE MOVE
- 11 DICK VAN DYKE — Buddy leaves the Alan Brady Show for another job.
- 13 EXPLORING THE CRAFTS—Pottery.
- 33 DEEPER LIFE BROADCAST
- 39 THE VIRGINIAN — An aging dancehall queen persuades Judge Garth to defend her son on a murder charge.

6:30 P.M.

- 4 HEE HAW
- 5 THE PARENT GAME
- 8 NEWS
- 11 WILD, WILD WEST — An assignment to take possession of a priceless diamond takes West to an eerie island estate.
- 13 NEWSROOM
- 33 OLD FASHION MOVIES — "Can This Be Dixie," Jane Withers. Traveling medicine showman and his niece attempt to save an old Southern plantation. 1936.

7 P.M.

- 4 HEE HAW
- 5 FLIP WILSON SHOW — Guests, Burt Reynolds, Tim Conway and Roberta Flack.
- 8 MOD SQUAD — Clu Gulager guest stars as a confidence man who robs a little old lady friend of Linc's.
- 11 WILD, WILD WEST.
- 13 NEWSROOM
- 33 OLD FASHION MOVIES
- 39 THE VIRGINIAN

7:30 P.M.

- 4 GREEN ACRES
- 5 FLIP WILSON
- 8 MOD SQUAD.
- 11 BIG VALLEY — Woman outlaw and her two sons take refuge in mission church.
- 13 FRENCH CHEF — Sudden Company.
- 33 OLD FASHION MOVIE— (7:45) "June Bride," Bette Davis. Magazine editor and her sweetheart reporter find love among the galley proofs. 1948.
- 39 GOMER PYLE—Sgt. Hack-

er bets Carter that he can't go twenty-four hours without losing his temper.

8 P.M.

- 4 MOVIE SPECIAL — "The Seven Year Itch," Marilyn Monroe, Tom Ewell.
- 5 IRONSIDE — Ironside re-opens a murder case on the strength of new evidence.
- 8 THE MEN-
- 11 BIG VALLEY
- 13 INTERNATIONAL PERFORMANCE — Romeo and Juliet and The Cobat of Tancrede and Clorinde.
- 33 MOVIE — Cont.
- 39 MOVIE — "In Cold Blood," Robert Blake.

8:30 P.M.

- 4 MOVIE Cont.
- 5 IRONSIDE

8 THE MEN

11 PETTICOAT JUNCTION — A big city comedian threatens all of Hooterville.

13 INTERNATIONAL PERFORMANCE

33 MOVIE Cont.

39 MOVIE Cont.

9 P.M.

- 4 MOVIE Cont.
- 5 IRONSIDE Cont.
- 8 OWEN MARSHALL — Former actress sues for defamation of character.
- 11 9 O'CLOCK MOVIE — "A Man Called Gannon," Tony Franciosa. Cowboy drifter takes a young Easterner for a sidekick and teaches him the art of a seasoned cowboy. 1969.
- 13 WHO BUILT THIS PLACE — Introducing the politics of landmark architecture.

33 MOVIE Cont.

39 MOVIE Cont.

9:30 P.M.

- 4 MOVIE Cont.
- 5 IRONSIDE Cont.
- 8 OWEN MARSHALL
- 11 MOVIE Cont.
- 13 THE ADVOCATES
- 33 MOVIE Cont.
- 39 MOVIE Cont.

10 P.M.

- 4 EYEWITNESS NEWS
- 5 TEXAS NEWS
- 8 NEWS 8 ON THE MOVE
- 11 NEWS-WEATHER; Movie Cont., 10:15.
- 13 THE ADVOCATES
- 33 CLUB 33
- 39 MOVIE Cont.

10:30 P.M.

- 4 MOVIE SPECIAL — "The Searchers," John Wayne, Vera Miles.
- 5 TONIGHT SHOW
- 8 NEWS
- 11 MOVIE Cont.
- 13 NEWSROOM
- 33 CLUB 33
- 39 CINEMA — "Walk, Don't Run," Cary Grant. Middle aged electronics expert in Tokyo during the Olympics. 1966.

11 P.M.

- 4 MOVIE Cont.
- 5 TONIGHT
- 8 DICK CAVETT SHOW
- 11 MOVIE; (11:30) "The Sea Wife," Richard Burton.
- 13 SIGN OFF, 11:30.
- 33 MOVIE—"Billy the Kid, Sheriff of Sage Valley," Buster Crabbe. Sheriff Billy fights injustices done to his fellow man. 1942.
- 39 CINEMA Cont.

12 MIDNIGHT

- 4 MOVIE; Sign Off, 12:30.
- 5 MIDNIGHT NEWS; Father Knows Best; Sign Off, 12:35.
- 8 DICK CAVETT; Ensign O'Toole; FBI; Living Prayer; Sign Off, 1:02.
- 11 MOVIE; News; Meditations; Sign Off, 1:30.
- 33 MOVIE—"Romance on the Range," Roy Rogers. Respectable citizen is actually the secret leader of a bandit gang. 1942; (1:05) "The Private Life of Don Juan," Douglas Fairbanks Sr. 1935; (2:40) "Dive Bomber," Errol Flynn. 1941; Sign Off, 5:05.
- 39 SIGN OFF

Win at bridge

By OSWALD & JAMES JACOBY

D'Artagnan was not only the greatest swordsman in France but he was a great strategist. He knew there was a time for daring and a time for safety.

What should he do after the wily Rochefort jumped to four hearts? A mere four-spade call was likely to be an underbid. A heart cue-bid would probably just elicit a further diamond bid from Porthos sitting North. A six-spade bid might leave him high and dry and wrecked on the rocks of distribution, but D'Artagnan tried that bid.

Rochefort considered a seven-heart save, but he had too much defense and he knew that all D'Artagnan's slams were not guaranteed by the Bank of France.

Jussace opened a heart, D'Artagnan ruffed and saw that the way to follow up his daring bid was with extreme caution in the play.

Watch the safe way he payed the slam. At trick two he cashed the ace of clubs. Then he led a diamond to dummy's ace and played a second club from dummy to guard against the possibility

NORTH		16	
♠K5			
♥J72			
♦AQ8654			
♣73			
WEST	EAST		
♠2	♥Q4		
♥9843	♦AKQ1065		
♦1092	♣KJ7		
♣J10986	♠Q5		
SOUTH (D)			
♠AJ1098763			
♥Void			
♦3			
♣AK42			
North-South vulnerable			
West	North	East	South
Pass	2♦	4♥	1♠
Pass	Pass	Pass	6♣
Opening lead—♥3			

that Rochefort had been dealt just one club.

When the club was not ruffed the hand was home.

D'Artagnan led a low club; ruffed with dummy's king of trumps; led a heart and ruffed with his ace of trumps as a super safety play; then ruffed this last club with dummy's five of trumps and told his opponents that one of them could take his queen of trumps any time he wished.

KERA BIG THIRTY

NOVEMBER 17, 1972

1. SUMMER BREEZE—Seals & Crofts	(LW)	2
2. FREDDIE'S DEAD—Curtis Mayfield		3
3. SOMETHING'S WRONG WITH ME—Austin Roberts		4
4. I CAN SEE CLEARLY NOW—Johnny Nash		1
5. STARTING ALL OVER AGAIN—Mel & Tim		7
6. VENTURA HIGHWAY—America		16
7. OPERATOR—Jim Croce		11
8. IT NEVER RAINS IN CALIFORNIA—Albert Hammond		12
9. I'D LOVE YOU TO WANT ME—Lobo		5
10. WITCHY WOMAN—Eagles		6
11. LOVING YOU JUST CROSSED MY MIND—Sam Neely		9
12. LISTEN TO THE MUSIC—Doobie Bros.		10
13. I AM WOMAN—Helen Reddy		8
14. ROCKIN' PNEUMONIA—Johnny Rivers		17
15. CLAIR—Gilbert O'Sullivan		20
16. I'LL BE AROUND—The Spinners		19
17. YOU OUGHT TO BE WITH ME—Al Green		21
18. CORNER OF THE SKY—Jackson Five		25
19. IF I COULD REACH YOU—Fifth Dimension		14
20. CRAZY HORSES—The Osmonds		23
21. FUNNY FACE—Donna Fargo		28
22. IF YOU DON'T KNOW BY NOW—Harold Melvin		26
23. DIALOGUE—Chicago		27
24. LIVING IN THE PAST—Jethro Tull		29
25. SWEET SURRENDER—Bread		30
26. LIES—J. J. Cale		—
27. ONE NIGHT AFFAIR—Jerry Butler		—
28. LONG DARK ROAD—The Hollies		—
29. WALK ON WATER—Neil Diamond		—
30. YOUR MAMA DON'T DANCE—Loggins & Messina		—

HITBOUND

YOU'RE A LADY—Peter Skellern
 I DIDN'T KNOW I LOVED YOU—Gary Glitter
 GOIN' DOWN—Contraband
 KEEPER OF THE CASTLE—Four Tops
 DANCING IN THE MOONLIGHT—King Harvest
 WHAT AM I CRYING FOR—Dennis Yost
 PIECES OF APRIL—Three-Dog Night
 I WANNA BE WITH YOU—Raspberries
 SITTING—Cat Stevens
 WONDER GIRL—Sparks
 I RECEIVED A LETTER—Delbert & Glen

ALBUMS

CATCH BULL AT 4—Cat Stevens
 CARNEY—Leon Russell
 "SUPERFLY"—Curtis Mayfield
 TOULOUSE ST.—Doobie Bros.
 ROCK OF AGES—The Band
 MOODS—Neil Diamond
 CARAVANSERAI—Santana
 RHYMES & REASONS—Carole King
 WHO CAME FIRST—Peter Townshend
 PHOENIX—Grand Funk R.R.

'Double-Cross' by W. Germans Caused Massacre--Guerrillas

BEIRUT (AP)—Three Palestinian guerrillas involved in the Munich Olympic massacre charged today West German authorities double crossed them and "deliberately forced us to kill the 11 Israeli athletes."

"We never intended to kill any of the hostages," declared one of the three in an interview with the Beirut newspaper An Nahar.

Ibrahim Badran said, "The purpose of the operation was to secure the release of the

Palestinian guerrillas in Israeli prisons ... to attract world attention to the Palestine cause and to hoist the Palestinian flag rather than Israeli corpses on the Olympic flagpole."

"West German Interior Minister Hans Dietrich Genscher had given us his word of honor that a safe conduct had been arranged for to leave with the hostages for Cairo unmolested.

"But when we arrived at the air base near Munich all hell broke loose ... Gensch-

er's honor proved to be in Moshe Dayan's wallet."

Dayan is defense minister of Israel.

An Nahar did not say where the interview with the guerrillas was conducted.

It said one of them, Abdel Kader Denawi, was ill and on a juice diet, as a result of ill treatment by West German investigators after the Sept. 5 Munich killings. His two other comrades, Ibrahim Badran and Mohammed Samer Abdulla, were reported in excellent health.

'HANDS UP' GETS NEW TWIST ADDED

LITTLE ROCK (AP) — Albert Clark of Little Rock, a driver for a cab company, was forced to drive away without his pants today after a passenger robbed him.

Clark told police a man forced him to stop his cab and take off his pants. The man then searched the pockets, took about \$20 and threw the trousers into the street.

When the man got out of the cab Clark sped away, wearing only his shorts. Clark returned a short time later with police. The pants were still in the street but the robber was gone.

Roads Ceremony for New Town Delayed

FLOWER MOUND — Groundbreaking ceremonies for the first roads to serve Flower Mound New Town have been rescheduled for 2 p.m. Tuesday after being postponed this week because of weather conditions.

Phase I of the new town project will consist of 1,364 acres and will be developed during the next four years. It will provide homes for approximately 10,000 people.

More than 100,000 square

feet of retail space and approximately 400 acres for parks and recreation will be developed.

The ceremonies will be at the intersection of Farm 1171 and Kirkpatrick Road where much of the Phase I area lies. Present will be Mayor William Wilkerson, general partners Raymond D. Nasher and Edward S. Marcus, project director Marshall Kaplan, and John Immel, chairman of the Planning and Zoning Commission.

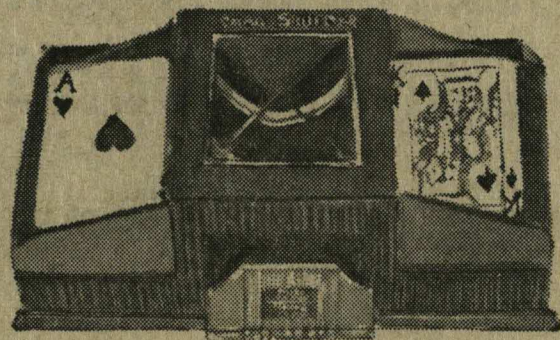
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Important Patrol Division Loaded With Rookie Police

(Last of a Series)

By EVAN MOORE

Most policemen agree that the patrol division is the most important part of a police department.



EVAN MOORE

It is the patrol division which receives the young men graduating from the police academy, resulting in a large bloc of young patrolmen.

These men, most of whom are about 25 years old, see their work in a somewhat different light from older policemen.

The younger men themselves are sometimes regarded by veteran officers with a varying mixture of tolerance, awe, disapproval and respect.

"I wasn't quite 21 when I went to work and I don't think I was mature enough for the job," said a middle-aged officer. "It takes time and a person that's mature."

"I mean, all a policeman has to offer is service after the damage is done and, let's face it, a lot of what a policeman has to do hurts people. It helps society, but it hurts people — the individual. A man has to be mature to tolerate the job and to be tolerated while he's doing it."

"A YOUNG person's actions sometimes run ahead of their thoughts and, in this job, a little mistake in a tense situation can be awfully serious."

But among the criticisms made of the younger men — that they want too much salary too soon, are too prone to value education over common sense and desire too many

changes in department policy — none has denied willingness to do the job.

One of these young men is D. R. Whisenhunt, 24, who has been a Fort Worth patrolman for about 3½ years.

Whisenhunt achieved some fame and may have broken a record for short terms of duty when, about three years ago, he was shot, only four months after he graduated from the academy.

"I got a call on a domestic disturbance and I drove to the address and got out of my car. When I walked up in the front yard, the man shot me in the stomach with a .12-gauge shotgun from about 20 feet away," he said.

"When I woke up in the hospital the next morning I had some serious thoughts about quitting this job, but I stayed."

"I think if I had it to do over again I'd go on to school (he's had two years of college) and do something else, but it's gotten in my blood now and I just can't seem to quit."

"I'VE HAD PEOPLE call me every name, spit on me, flip cigarette butts at my car, but I just don't quit. I guess I like the excitement and the variety and I've always liked people — liked to deal with them."

Whisenhunt works the night shift, as do most of the other, younger policemen.

The city changes at night. The people on the streets are cast in roles different from their daytime pursuits and their demeanor alters accordingly.

Most violent crime occurs at night and a policeman is more likely to meet physical resistance to an arrest after



dark. Such an arrest, in which the policeman must use force, always carries the potential of a brutality complaint.

"You know," said Whisenhunt, "a lot of our job is public relations work. For a lot of people, the only contact they have with the police department is through one of us and they'll get their ideas about police in general from the way we treat them."

"So you stop a man for a traffic violation or something and you know you should check him out through 'R & I' (Records and Information) and it takes 20 minutes for an answer and he has to sit and wait. He sure gets mad and I can't blame him. I'd get mad too if I had to wait that long to find out I hadn't done anything."

IT IS AN occurrence such as this which causes many persons to become belligerent with policemen and, when a man resists arrest, a young policeman may have doubts about how far he should go to subdue him.

"There's a lot of pressure on you in this job," said Whisenhunt. "It seems like if a minority group complains they get an awful lot of attention and they should."

"I mean they should have somebody to look out for them, but I've always been told that the FBI is supposed to investigate complaints against police officers — not a civilian review board or some other group that's biased against us."

"A lot of the men feel like they don't have any backing and when you're out here in the middle of the night you really need to feel like somebody will stick up for you."

"And a lot of the men don't feel like they can speak their mind at police association meetings and that's not good — I don't know. If you were listing the reasons that the men are quitting I guess it would be salary first and morale second."

"I'LL TELL YOU one thing. We've got some of the finest men on this police force that I've ever met and some of them are quitting. It's bad when we lose them."

Whisenhunt's words were echoed by other young patrolmen. Among them was O. L. Cullum, 26, who has been a policeman four years and is a vice president of the police association.

"It's like you have to be a sergeant or better around here to have a good idea," he said. "We (the younger men) don't have any voice at the association meetings and if we want to change something we're just told that it's the policy of the department and can't be changed."

"Like the business of having to wear your hat when you're going home from work. I know that's a little

thing, but it's the little things that get to you after a while."

Cullum attributed the problem of insecurity to both city powers and the public.

"THE PUBLIC doesn't help us," he said. "The crime is down, but we're operating with less men than we had a year ago (because of attrition) and the people in City Hall just don't seem to care."

"And some of the men don't feel like they get any backing from the department."

Cullum was one of several patrolmen who told the story of a young policeman who arrested a prominent businessman and his wife recently for driving while intoxicated.

"A lieutenant turned the guy loose before (the policeman) even got away from the station," he said. "I've never heard of a place where a jail lieutenant can just turn somebody loose that way when he's obviously drunk."

"I don't mean the men feel that way about all the administration. There're some fine lieutenants and sergeants here. You just need to feel like your sergeant or lieutenant will back you up if you make an arrest."

"SOMETHING'S GOT to be done. If the guys start quitting, what are we going to replace them with? It will be rookies."

"I mean it wasn't so long ago that I was a rookie myself and I'm just beginning to really get my feet on the ground. When I was new I needed help on a lot of calls and I couldn't back another man up as well as I can now. I know I'd want someone with more experience to help me if I was in trouble."

"And our hands are tied so much. Everything is supposed to be done by the book and there's a set procedure for every situation, but they don't always work in reality. It's hard enough to make decisions out here — like whether to make an arrest or not — without all your latitude being taken away."

"There's a problem with communications between the chief and the men," said Whisenhunt. "A lot of the men don't think he cares about them. I don't think that, but I've talked to him and they haven't."

"I KNOW HE'S got an open door policy, but some little rookie's going to be too scared to go walking in there

and say, 'I want to tell you about this problem.' He's (the chief) got to go to them."

Not all Fort Worth policemen are dissatisfied. Most complained about their salary and others said the department offers little incentive for a policeman to attend college, but, in general, they seem to enjoy their work.

"I wanted to be doing something worthwhile and I thought I would be if I became a policeman," said B. W. Pate, a patrolman for six years.

"I know I am today," he said.

"I just wish society would

realize a policeman is a person just like themselves. We are enforcing the laws that they passed. We're doing the job they've asked us to do."

"Of course some things bother you. You see a man run a red light and you wish you hadn't because you know that when you stop him, especially if he's a minority member, there are chances you'll be hurt or complained about and then called up and investigated."

"It could happen with anybody, whenever they enforce the law, but you go on and do it anyway."

TONY SLAUGHTER

Back From Paradise



Home in record numbers from the orchid island of Ohau, loaded with muu-muu dresses, leis, pineapples and chocolate candy flavored with Macadamia nuts, are members of the FW Board of Realtors. Among them were FW Board president and Mrs. Ray Wright and Texas president and Mrs. Lester Weatherby.

THE GROUP INCLUDED SHIRLEY SHACKELFORD, Gene Ham, Mary Nell Scholvin, Violet Miller, Jewell Perry, Tess Sebesta, Katherine Spears, Olgy Patterson, Powell, Helen Perkins, Jerry Prince, Loretta Betty Anderson, Ethel Fish, Elsie Llewellyn, Gladys Houston, Mary Houseworth, Marie Bickford and Elizabeth De-

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IT'S

Ambulance Proposal Trimmed by Lankford

By LARRY NEAL

Fire Marshal Mason Lankford presented a radically trimmed plan to provide county-controlled ambulance service Monday afternoon to commissioners court.

The new plan called for 15 ambulances manned by 91 employees instead of the original 40-vehicle proposal.

He told commissioners the total cost would be \$895,655, of which \$403,200 was expected to be paid for through charges to users. The remainder would come from revenue sharing.

Nonrecurring costs — the initial outlay for items such as the ambulances and radio units — would amount to \$258,055, Lankford said.

* * *

THE FIRE marshal also reported on reactions from 34

governmental units contacted about the plan.

Bedford, Benbrook, Colleyville, Fort Worth, Grapevine, Haltom City, Hurst, Kennedale, Mansfield, North Richland Hills, Richland Hills, Saginaw and White Settlement favored countywide ambulance service, he said.

Crowley, Everman, Forest Hill, Lake Worth and Pantego were opposed.

Lankford said no answer was received from the other 15 units contacted.

The City of Arlington, he said, had told him through its city manager and fire chief that it favored the plan and would provide facilities for ambulances and crews in two years after the present contract runs out.

Commissioner Jerry Mebus expressed surprise at that statement, saying, "The last

time I talked to anyone in authority, they didn't express any interest."

Lankford said the City of Fort Worth was especially interested in a countywide service.

He said he had been told by the city that it would not renew the present contract with Ray Crowder Funeral Home when it runs out in April.

"In review of the answers presented, the majority of the population of the county is covered by the 13 communities desiring the establishment of the countywide ambulance service," said Lankford.

He said those voting no and those who did not answer are being served by private firms with the exception of Everman, which has its own volunteer ambulance company within its volunteer fire department.

The fire marshal urged that the plan be adopted, saying it would eliminate the present problems of "no control over response time or quality of service."

He said if the plan were implemented for 1973, within two years the county ambulance service would be countywide despite current doubts by municipalities.

Commissioners, however, told Lankford his plan didn't have much chance this year.

"Generally speaking," said Mebus, "I think the commissioners have been thinking about other priorities."

* * *

COMMISSIONER George Richardson, noting that communities in his precinct expressed little interest, also said there were many other projects higher on the revenue sharing investment list.

The remarks led to a discussion as to what those priorities were and Richardson named the county computer system, a county records warehouse and facilities for Lankford's fire department and personnel.

County Auditor Jack Benson also suggested that remodeling of the county welfare offices was "something we've got to do next year."

Commissioner Andersen said some of the money should be used to rewire and air condition the courthouse. "We've got the most deteriorating courthouse in the State of Texas," he claimed.

County Closer To Computers

County commissioners took another step today toward bringing the computer age to county government.

Commissioners agreed to have purchasing agent Ed Smith seek bids on the various pieces of support equipment necessary for the county's computer system.

County Public Works Director Le Roy Erwin, who

brought the item to the court's attention, listed such things as air-conditioning, fire prevention system and a "raised floor" among the items necessary for what he calls "site preparation."

Erwin estimates that the preparatory work in the basement of the Civil Courts Building will cost about \$35,000.

THE ONLY HITCH Erwin encountered was his suggestion that a local electrician be hired to perform a "professional service."

Erwin said that the particular electrician is the only one familiar with the wiring in the courthouse complex.

Under state law, the county can hire professionals without going out for bids.

County Commissioner Dick Andersen objected, saying that he has never heard of an electrician being hired as a "professional." Erwin quickly backed off his request and the entire project will be up for bids.

IN OTHER action, the commissioners discussed briefly without taking action several requests from the county's labor union.

Commissioner George Richardson brought the request to the court's attention, saying, "We promised to consider these at budget time. I just don't want them to be forgotten."

The union has requested changes in the county's sick leave and vacation policies.

The union also wants a pregnancy clause inserted into the county's personnel policies.

And the Tarrant County League of Women Voters won approval for county financial support of a booklet explaining Tarrant County government.

The group will be given \$3,000 to pay for printing of the 70-page booklet.

COMMISSIONERS, however, reserved the right to read and change the booklet before having it released to the public.

Commissioner Dick Lewis said he has already found two mistakes in the publication.

Commissioner Richardson said he would like to see someone in the government departments of the area universities go over it, too.

"I glanced at it," he said. "It's pretty accurate, but parts of it are weak."

RUSSIAN CREWMEN SAVE LIFE OF BABY, FATHER

CORPUS CHRISTI (AP) — Crewmen from a Russian freighter loading grain here saved the life of a baby and his father yesterday after the tot fell into the water.

Later, given dry clothing aboard the vessel, R. E. Cast smiled and pointed at his son, Jeffrey, and "his genuine Russian diaper and shirt."

Cast and his family were among a group of persons touring the ship when young Jeffrey, 22 months old, slipped on the ship's gangplank and fell into the water at dockside.

Cast leaped after his son but got into trouble when his boots filled with water.

A Russian photographer, Syschuk Anatoly, 36, jumped in and kept Cast's head above water while the trio reached the safety of two other Russian seamen who pulled them ashore.

Mrs. Cast said Anatoly had ran down the gangplank when the baby fell into the water. "I just told him my little boy had fallen in," she said. "He just said 'little boy' and jumped in."

A Russian doctor aboard the ship the Fizik Lebedev, gave Jeffrey emergency first aid.

Arlington Council To Hear Alternative

ARLINGTON — A group of residents here have formed the Committee for Responsible Progress and will explain their objectives before the Arlington City Council tomorrow night.

Marshall Daniel of 3301 S. Fielder Road, committee president, said he would explain to the council why the committee was formed and "why we feel there is a better way of planning Arlington's future other than by methods of moving traffic."

Daniel was referring to a recently adopted master thoroughfare plan for the city.

One of the proposals in the 18-year plan calls for widening Fielder into a six-lane, north-south route by 1990. That proposal, he said, is strongly opposed by the approximately 200 members of the committee.

The citizens' group, like some city officials, hope to find an alternative to the proposal for Fielder.

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No FW Bond Issue Seen For 1973

City Manager Rodger Line told City Council today that he does not plan to propose a bond election in 1973.

Line said, however, that in December of next year he will submit a proposal for the next bond election.

Line made the observation in a report to the council on his proposed \$56.9 million capital improvement program for 1973-1975.

That plan specifies a requirement for \$4,185,000 in bonds for water system improvements and \$6,565,000 in bonds for sanitary sewer improvements.

HE SAID those figures are preliminary and subject to revision.

"These suggested improvements are supported from water and sewer revenues, but the need for additional tax supported bonds has not been detailed," Line said.

In connection with the capital improvement program the council today gave permission for the sale of \$9.8 million in municipal bonds on Feb. 14.

THE BOND SALE will include \$5.2 million for street improvements, \$300,000 for fire department improvements and \$4.3 million for sanitary sewer and sewage disposal projects.

In another matter the council awarded a \$6,000 contract for an architectural study of remodeling the Lancaster Street maintenance building at the headquarters of the city bus system.

It had been planned to build another center on a location on the North Side.

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2:30 p.m.	Non-stop 4:27 p.m.		
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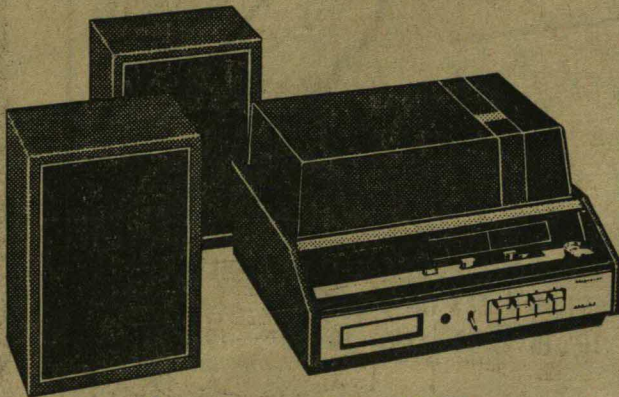
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THE METRO REPORT

Western Santa Visits Colleyville

By Jim W. Jones

Colleyville added a Old West touch to its Christmas tree lighting ceremony Saturday.



Santa Claus rode into town on a buckboard. A team of horses substituted for Rudolph and the deer.

The tree lighting ceremony was sponsored by the Colleyville Garden Club.

POPULAR BOOK: At an Arlington Chamber of Commerce Women's Division meeting at noon tomorrow UTA senior Diana Wright will review Richard Bach's best-selling book, "Jonathan Livingston Seagull."

The women's group, after a recent membership drive, now has more than 160 members, said Mrs. Joyce Davis Tynes, vice president. Goal for 1973 is to get a total of 300 members, she said.

WATAUGA has been short-changed on revenue sharing funds, says the mayor of the town, Mack Burke Jr., and it all started with the 1970 census.

The census was wrong, says Burke, in saying Watauga had only 3,300 residents.

Burke has been trying to get a recount. He claims Watauga has 6,000 to 7,000 population. Revenue sharing funds are partially based on population and Burke thinks the \$5,500 in federal funds received recently would have been doubled if the correct population count for Watauga had been given.

BURLESON'S beauties: Vicki Miller of Amon Carter Riverside High School in Fort Worth won the high school division of the Burleson Winter Carnival of Beauty recently.

The pageant, sponsored by the Omega Delta chapter of Beta Sigma Phi, had 45 en-

tries. Other winners included Delain Ivson of Joshua in the junior high division. Three girls from Burleson won in their divisions. They were Lynnette Garza, age 3-5; Stacy Grisson, 6-8, and Vita Freese, 9-11.

UNsung COLLEGE: You don't hear much about one Arlington college, the Bible Baptist Seminary, which is on the north side of U.S. 80 in West Arlington on the hilltop site of what was once the old Top O' the Hill Terrace gambling establishment.

The independent Baptist college has an impressive campus now. Once the college activities were limited to the old house where the gambling activities were held.

Latest addition to the campus will be a \$596,250 two-story building which will house a gym, auditorium and classrooms. A building permit for the project was issued recently.

SIX FLAGS Mall got the help of Arlington elementary school students in decorating 15 Christmas trees in the tradition of various foreign countries.

There are Christmas trees at the mall representing Finland, Yugoslavia, Italy, Japan, Russia, Austria, Sweden, Germany, Denmark, England, Holland, Brazil, Poland, Mexico and France. One of the seven-foot trees was decorated in the style of pioneer America.

The Spanish Club of Irving's Forest Meadow Junior High School decorated the Mexican tree. Arlington schools taking part included C.C. Duff, J. B. Little, Speer, Pope, Roquemore, Short, Johns, Amos and Swift Elementary Schools.

TONIGHT'S PUBLIC MEETINGS

Keller City Council, 7:30; Irving School Board, 7:30; Lewisville City Council, 7.

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cent wouldn't and the remaining 22 per cent were not sure.

EVEN STAR TELEGRAM.

12-22-72

New County Computer Program Gathers Cost

Tarrant County's computer operation is slowly gathering more of what in financial jargon is called "continuing cost."

On commissioners' Tuesday agenda for routine approval under personnel matters is the hiring of the second and third members of the computer program staff.

They are a "senior programmer-analyst" and a secretary.

The programmer will be drawing a \$12,000 annual salary to start and the secretary a \$6,432 salary.

The two will join Bill Roberts, an \$18,000-a-year computer expert, who has for the last several months been heading up the computer department and trying to get everything ready for computer system's start-up date in March.



Norton Mockridge

Splintered, twisted English

United Feature Syndicate

NEW YORK. — The most distinguished collector of Fractured English in the world has gotta be Carl Miemeyer, the Thomas Lamont Professor of Ancient and Modern Languages at Union College, Schenectady, N. Y.

And from time to time he has provided me (the world's least distinguished collector) with some sparkling examples taken from the term papers and written examinations of his students. Things like: "He's a starch traditionalist," "A belief in the dupability of man," "In connection with the beheadment of John the Baptist," and "An unscene force such as bureaucracy."

WELL, MY friend, Phil Johnson, the news director of Union College, tells me the sorry news that Prof. Neimeyer is retiring after 27 years on the faculty and that alas and alack! the flow of Niemeyerisms soon will cease.

Meanwhile, however, I have the latest bundle that the good professor has been furnishing his friends, and here are some samples.

One student wrote: "Maupassant tells of Old Mother Savage burning the

German soldiers out of revenge for her son who was killed by the Germans in very realistic terms."

ANOTHER budding genius had this to say: "The ballad has a tradition of being handed down from mouth to mouth." But I think he was topped by this line in a term paper: "Again we see the girl through the odd gentleman with the whiskers eyes."

Here's a sample of purty prose (exactly as it was written) that delights me:

"In both stories, Siegfried is brave with fear of no one. He spends a questionable time with Brunhild in Wagner and in the Niebelungenlied, he, to keep the guise of Gunther to win the affection of Brunhild wrestles with her in the Kings chambers part of this night is questionable as later there is a confrontation and a display of overlapping of the two stories by Krienhild."

THAT KID could go on and be a real help to Woody Allen, if he develops as indicated.

This boy is pretty good, too:

"But science progresses and there is less mystery, and the reason why we live

has become a greater mystery despite it being very simple."

AND ANOTHER sample from the same source:

"Mailer is horny and aggressive, vibrant, alive, or so he seems from his writing."

Declaring stoutly that: "Arthur, Lancelot, and Guenevere had a 'melange a trois,'" an imaginative student went on in another paper to say:

"Browning was misled by love to rate his wife's poetry far above his own; she saw more truly that beside his organs hers was but a tingling cymbal." (Nothing like a tingling cymbal!)

ONE YOUNG man seemed to be the champion of the class this year, and here are some of the things he produced:

"So I write these forwarding words to say that it is more like a poet to chase his tail, than a philosopher."

"Almost, (mind you) as though the universe were like a mobia strip. Can you recognize that this same omnidimensional cycle occurs when we attempt to define similarity?" (Frankly, — no. NM)

"If we go far enough to

one extreme, we often find ourselves on the doorstep of its opposite."

"BRUNO WAS burned at the stake.

"At the age of 15, Bruno entered the Dominican order, and 13 years later renounced his frock."

From a student deeply immersed in the study of modern poetry, came this gem:

"An example of Eliot's use of literary reference comes from the following passage: '...that Shakespearian Rag...' The 'rag' is a reference to the song by Tom Lehrer entitled, 'Vatican Rag.' Without such knowledge the passage loses meaning and the reader can easily get the feeling that the author is merely playing with words."

A BRIGHT young gentleman who in one paper described "A news-hungry public," and referred to "our greatest metropolitiss," delivered himself of this in another paper:

"He is non-rational, not rational, because he is not rationalizing, but he is acting in a fashion in accordance to his past unconscious conditioning, but irrational to the outsider."

Sure is!

make their bow here than in Dallas, Houston or big metropolis in Texas.

Our young ladies, who must be properly adorned, are busy from early June until they leave for college making their selection of debut dresses for presentation at the Assembly and Steeplechase.

WHITE IS THE TRADITIONAL attire for Assembly debs when they make their bow the first Friday in November. Steeplechase debs are also introduced that evening but in gowns of many hues and tints.

The second Friday in November the process is reversed, with the Steeplechase debs taking the spotlight in white and the Assembly debs in color.

Skirts of the deb gowns must be generous, measured for the full court bow to the floor which is a tradition at both balls. Eastern debs, however, get by with just a curtsy, and fashion designers there are doing narrow skirts.

GOWNS ARE SELECTED and tailored specifically for each young lady. Dainty puffed sleeves might be just right for one, while another might wear a sleek, sophisticated dress. Both types are equally formal and appropriate. Very big this year is hem interest, with flounces and borders in abundance.

The selection of a gown is just as exciting for the mother of the deb, who dresses in rich blues, pinks and other becoming colors, but never in black or white. For the grandmother, who is also beautifully gowned, it's the highlight of her life to see her granddaughter make her debut.

Even father, who usually just gets the bills, shares the fun. He usually is invited to the store and asked by his daughter while modeling her gown, "Daddy, do you like this?"

THE DRESSES ARE NOT shown to anyone else—no aunts, friends or neighbors prior to the debut.

In fact, they rarely leave the store until the big day, when they are pressed to a gnat's eyebrow and lovingly wrapped and transported with great care and security to Ridglea Country Club.

Mother, father, family and friends first see their deb completely attired in ball regalia when she proudly steps out completely gowned and wearing her long white gloves, ready to be photographed and to make her bow.

FORT WORTH welcomes newcomers to our growing city — the Otto Galls from Oswego, Ore.; the Glenn Sharps from New Providence, N. J., the Lowell Woodses, from Knoxville, Tenn., and the Thomas Dawsons from Vietnam and San Pedro, Tex.



TO SERVE — Mrs. Garland Holt will serve as president of the Tarrant County Junior College Woman's Club for the 1972-73 school year.

Ice cream sale planned

Homemade ice cream, cake and coffee will be served by Southside Chapter No. 673, Order of the Eastern Star, Friday in the Community Room of Lone Star Gas Co. Bldg., S. Main at Morningside Dr.

Admission to the 5:30 to 9:30 p.m. event is 75 cents for adults and 50 cents for children under 12.

Amanda Panda



ed upside down on a permene pillow case that I want to er
CECELIA

DEAR POLLY — I have two. One is with material used for blankets. The blankets stay looking new but after a time the binding in the center and starts coming apart. Blankets look shabby unless they are replaced.

Also, I get peeved with potatoes that do not have a mesh front so I can see them. I am buying. Often they are brought home and the potatoes are not only muddy but many are bad.

DEAR POLLY — When visiting, wear soft-soled shoes or those with low heels. Many people do not like the distracting click-click of heels on and down uncarpeted corridors. Many patients. —SHIRLEY

DEAR POLLY—We have had a carpeting throughout most of our house. We also have a 5-month-old baby who has a tendency to spit up a bit so there are spots all over the carpeting that are hard to remove. I have tried different carpet cleaners and even mopped the spots with steam cleaners, but nothing works. The

Absentee Voting Still Mystery

The search for an answer to the missing absentee vote question today turned up a discrepancy upon the discrepancies.

County Clerk Ed Loftin and his chief deputy, Madrin Huffman, re-tabulated their figures on absentee voting returns in last week's general election and produced a total voter figure that is 166 more voters than votes counted. Shortly after the election, Loftin said it was more than 1,000.

Earlier in the week, Republican party officials claimed that by their figuring there were 842 more absentee voters than votes counted.

A refiguring of the Republican totals showed that there were 679 more voters than votes counted.

No one knows for sure what happened in absentee voting.

Commissioners OK three contracts without bids

County officials feel justified in having \$13,000 worth of work done without going through usual bidding processes.

In the words of Commissioner Skeet Richardson, "We'd be real foolish if we just sat here..." Time has pressured the

commissioners into giving the OK to contracts for three projects needed to get the county's Central Information Systems Dept. operable. The computer system installation is costing the county in the neighborhood of \$650,000.

The vote to spend the \$13,000 without taking bids was not unanimous. Commissioners Dick Andersen and Jerry Mebus voted against the action while Dick Young and Richardson voted for it. County Judge Howard Green's yes vote broke the tie.

bad move if it did not take action to get the system operating properly in time to meet contractual obligations with the Tarrant County Hospital District. Equipment installation is due to be completed by March 1 and the data processing system is obligated by contract to assume the hospital district's data processing work on May 1.

Andersen and Mebus opposed the action because they felt the county should follow usual procedure of requesting bids. In order to contract for work without taking bids, commissioners had to declare an "emergency." Mebus and Andersen did not feel the situation was an "emergency."

ACCORDING TO County Purchasing Agent Ed Smith the \$13,000 will cover three projects. He said \$3500 would pay for air conditioning the electronics area of the computer building, \$4500 would pay for air conditioning the office portion of the building and \$5000 would pay for petitioning rooms in the building and some plumbing expenses.

Smith said, "There is no way our own engineers could figure the plans and specifications for these projects and allow us time to get the bids back in and the work underway before we had to take over the hospital's work."

NTSU recruiting for education teachers

Special to The Press

New faculty members will be recruited for the College of Education at North Texas State University, according to the man who will take over the deanship of the college.

Dr. John J. Horvat, who will leave the post of associate dean of the Indiana University School of Education for the NTSU post on Aug. 1, will spend 20 days between now and then talking to prospective faculty members.

In coming to NTSU, he will assume the deanship of the state's leading producer of certified teachers. The NTSU College of Education certified 1682 elementary and secondary school teachers last year.

A graduate of Ohio State University, the 39-year-old educator has been associated with Indiana University since 1966, first as an assistant professor of education, then as assistant and associate dean for administration and education development.

"North Texas State always has been the leader in the of Dr. Horvat as dean is just another step in striving for national as well as regional prominence," NTSU

President C. C. Nolen said. state and region in the area of education and the naming

THE "FORS" felt the county would be making a

One last swipe at Mebus' budget nixed

The last swipe at Pct. 2 Commissioner Jerry Mebus' budget was overruled.

Not by Mebus, however, but overruled by the rest of the County Commissioners.

Mebus had volunteered to take \$10,000 out of his \$50,000 contingency fund in his 1973 budget to pay for utilities in the new county clerk's building in Arlington, the old Arlington library building.

Other commissioners immediately spoke against the action and County Auditor Jack Benson said the county would be able to find the utility funds elsewhere in the expected \$17 million budget.

The contingency funds had already suffered losses in the budget wars. Some commissioners had asked for \$100,000 in the fund and others \$75,000 but they compromised by putting \$50,000 in each of the four precinct's contingency funds.



Mrs. Gertrude Archer examines street damage

FW 'tore hell' out of street

By TOM CURTIS

From 1943, when widow Gertrude Archer bought the small frame house at 3017 North Terry, until last July 25, the street out front was an unpaved dirt road.

Over the years, Mrs. Archer, now 72, acquired adjacent property and tried intermittently to have local government pave the street to reduce the dust and dirt. In the early 1960s, she says, the city agreed to do the work if property owners would pay an assessment of \$1.50 per square foot, but Mrs. Archer couldn't get a majority of her fellow property owners to go along and the plan died.

Three years ago, when others revived the momentum for paving the street, the area had been rezoned for light industry and the city raised the assessment to \$11 per square foot. Even Mrs. Archer wouldn't agree to that.

Finally, last summer Mrs. Archer noticed that County Commissioner George (Skeet) Richardson was repairing roads in the area and persuaded him to top a one-block stretch of North Terry with an asphalt-gravel mixture.

Mrs. Archer couldn't have been happier.

Then, early last week, a city motor grader came through the area to clean silt

out of the ditches. Mrs. Archer says the vehicle's blade has "torn hell" out of the street. Incensed, she called the Press's Action Desk.

"When we clean out the gutters with a blade, we do cut up the street a little bit," John Kimbro, city streets superintendent admits to the Press. "But we didn't try to destroy the street."

Kimbro, who visited the area, promises repairs will be made to the gutter, where most of the damage is, as soon as "the sun comes out and the area dries."

House with silver lining

During the silver mining strike at Treasure City, Nev., in the 1870s, two miners built a house from rocks picked up at their claim. Later, when the mine gave out, the two "mined" their home for \$75,000 in silver.

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president

NAGGING BACK PAIN Pain Pills Not The Answer

I am Mrs. Ethel Mae Hartin of 700 Leisure Drive, Fort Worth, Texas, CR4-6242. I injured my back May 22, 1970. I thought I had just pulled some muscles, but after a short time it was apparent that I had hurt myself seriously. I started having stomach trouble and my neck and shoulders began to pain me. I got to the point I could hardly turn my head. Pain pills and tranquilizers were prescribed for my condition, but it didn't take long for me to realize that this was not the answer.



MRS. ETHEL MAE HARTIN

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Results Good

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The Fort Worth Press

A SCRIPPS-HOWARD NEWSPAPER

Delbert Willis, Editor

Leslie E. Yates, Business Manager

GIVE LIGHT AND THE PEOPLE WILL FIND THEIR OWN WAY

Congress moves on Vietnam

Congress has returned to Capitol Hill with blood in its eye because of President Nixon's heavy bombing of North Vietnam.

It is now likely that if the President does not negotiate the United States out of Vietnam in about two months, Congress will force his hand by cutting off funds for the war.

That would be a bad, messy and dangerous way of leaving Vietnam. But if it comes about, Nixon will have himself to blame.

He forfeited much support in Congress and the nation by unleashing what most of the world views as terror bombing of the North—without consulting or informing congressional leaders or explaining his acts to the American people.

There was something so single-handed, even imperious, in his bombing decision that it alienated many democratic-minded people, including some who shared his goal of an honorable, negotiated peace.

The Democratic majority, which controls both houses of Congress, has now resolved to deny funds for all U.S. combat operations in Indochina, subject only to "safe withdrawal of American troops and the return of American POWs."

We can understand Congress' chagrin—seeing peace that was "at hand" before the election turning to carpet bombing afterwards. But we gravely doubt that swinging the congressional meat-axe and

repudiating a president in the midst of negotiations is the best course.

For one thing, Congress would in effect be telling North Vietnam: "Give us our prisoners back and then we don't care what you do in South Vietnam." That would be callously abandoning a state that we created (perhaps misguidedly) and encouraged to take up arms in its defense.

Congress should beware imposing on Nixon a settlement worse than the one offered by Hanoi in October and that perhaps is still available in talks resuming Monday between Henry A. Kissinger and Le Duc Tho.

The Oct. 22 Kissinger-Tho draft agreement called for a cease-fire between Hanoi and Saigon forces. Probably there would be violations, but a signed cease-fire is better than just walking out and leaving the parties to resume slaughtering each other.

Also, the draft provided for international supervision of the cease-fire. The machinery turned out not to be reliable enough for Nixon. But surely a weak inspection team is better than none at all, which would be the case if Congress' end-the-war formula prevails.

We hope Hanoi is returning to Paris, as it claims, for "serious" negotiations. One danger is that it will stall the new talks, hoping that growing anti-war sentiment and an angry Congress will give it a more favorable settlement than it was willing to take before.

"He must be alive — I keep hearing a loud 'boom, boom, boom!'"



Letters from the people

Mr. Harrell: Memorable pictures

Editor, The Press:

I have many wonderful pictures hanging on memory's wall. There's the old house by a tree, a wildwood, a gentle brook and the dog I ran and played with.

On a warm February morning in 1887, I walked by the side of a two-horse plow and planted my first corn. The field was full of birds. They followed the plow and picked up the bugs and worms. The dog ran himself down chasing robins. He never caught one.

I'll never forget the spring morning I saw a pretty girl dressed in red with blue ribbons standing in a small vale of pink flowers and bluebonnets. It took my breath away.

One spring morning a gentle rain had fallen. The clouds went away, the sun came out and spread its rays over an apple orchard in full bloom. It was a thrilling picture.

One day I stood by the side of a field of dark waving corn and saw sunshine and shadows chase each other over it.

The best picture of them all is the first time I saw my wife and our first born child together. An aura of loveliness hung over them for several minutes.

These pictures are priceless. They helped me when the nights were dark and I was lost.

H. L. HARRELL

Box 982, Argyle

(Editor's Note: Branch-Smith, Publishers, 120 St. Louis, Fort Worth, is reprinting another edition of Mr. Harrell's memorable "Letters to the Editor," including the one about the death of his wife. The first edition was a sell-out. Send check for \$2.50 to the publisher to order a copy. This includes tax and postage.)

Conserve electricity

Everywhere you look there is another article concerning the threat of a power shortage. If you study the problem you learn about air pollution from the conventional coal, oil, and gas plants. With a nuclear power plant you learn the risks of radioactive contamination, should a small leakage occur, or of a catastrophe beyond belief in the event of a major accident. You learn that our needs for more electricity increase while our sources for electricity are running out.

So what is the answer? I have always thought it a basic rule that when there is

a shortage of something you ration. So why are we not being educated as to how we can decrease our demands for electricity? I see billboards and commercials every day encouraging us to use more electricity, to buy unnecessary appliances, gadgets, tools and toys of all kinds. All this to make our lives easier; then we turn around and use electric exercise machines to get ourselves back into shape. And what about these new all glass buildings we are seeing today? If my house were all glass I can imagine my electric bill. We act as if we have an unlimited supply of power; yet we are running fast into a dead end.

I would like to see our electric companies show us how we can conserve electricity at our homes, schools, businesses and factories instead of encouraging us to use more. Almost anyone would like to learn how to avoid wasting electricity to receive a lower electric bill, while reducing the air pollution and avoiding having to take the risk of nuclear power.

MRS. H. B. DORRIS

3833 Westcliff Rd. S.

Missed Mr. Harrell

I have just gotten home from the hospital with a bout or spell of flu and am confined mostly inside. I had planned to meet Mr. Harrell at The Press office. I'm sorry I couldn't come.

I have read a great many of his most interesting letters. I always enjoy them.

J. Z. PHILLIPS SR.

Bluffdale, Tex. 76433

Thoughts

He was praying in a certain place, and when he ceased, one of his disciples said to him, "Lord, teach us to pray, as John taught his disciples."— Luke 11:1.

Help us God, and give us light so that we don't stand in our own way, let us do from morning till night what should be done, and give us clear ideas of the consequences of our actions.—Johann Goethe, German poet and dramatist.

Jobs plus \$500 nets him only \$50

Welfare: Where do we go next?

By DON OAKLEY

We may be reaching the point of diminishing returns in this matter of welfare.

Something like this is suggested by a between-the-lines reading of a just-released study by a joint House-Senate subcommittee on fiscal policy which examined the effects of federal regulations that scale down or eliminate benefits on the basis of income. Among examples it cited:

●A job paying \$500 a month would add only \$50 per month disposal income to a totally unemployed father in New Jersey with three dependents receiving food stamps and unemployment insurance benefits.

●If the income of a family of four in Chicago, earning \$400 a month but receiving some aid for dependent children, were increased to \$500, the effective increase might be only \$22 a month.

●A mother on three in New Jersey who receives aid for dependent children, food stamps, public housing and Medicaid benefit, would gain only \$200 a month in net income by taking a job paying \$1000 a month.

Rep. Martha W. Griffiths, D-Mich., chairman of the subcommittee, directed strong criticism at a "nightmarish set of rules" which not only discourage people on taking by a person in a certain welfare category?

No one suggests that welfare beneficiaries be maintained at mere subsistence levels as second-class citizens. Nor does anyone suggest that present benefits be cut in hopes of making it more worthwhile for beneficiaries to seek and accept employment.

But the fact is that we can never truly equalize the living standards or economic situation of those receiving public assistance with those who are gainfully employed and not receiving assistance.

The more we do equalize them, the closer we come to the paradoxical point where not only is welfare more attractive than self-sufficiency but where injustice begins to be done to those whose earnings place them

just above whatever arbitrary subsidy level we may decree.

welfare from taking jobs but sometimes tempt them to misreport income or to conceal it, such as by taking jobs that pay cash, in order to avoid benefit reductions.

"Some people argue that welfare recipients do not want to work and others contend there are not enough jobs," she says. "But few bother to ask how much the available jobs are worth to beneficiaries of public programs."

Yet there is another question which few people ask, or which nobody seems to have the answer to. And that is where we should place the dividing line between public subsidy and private self-sufficiency — which, after all, is what the regulations are an imperfect attempt to achieve.

If, for instance, an unemployed father of three does almost as well on welfare as he would by taking a job at \$500 a month, what about the employed father of three earning \$500 or perhaps something less than that who does not receive any benefits?

Have we not arrived at an undesirable state of affairs if, even in theory, a job paying \$1000 a month is scarcely worth the

Barbs

By PHIL PASTORET

There's nothing quite like a blizzardy January day, for which let us be thankful.

Why do they call 'em "office boys" when that's where you never can find them?

We've got a couple computer experts and the rest of the gang knows what to do to make the thing work.

A wise politician is one who begins to run from office four years in advance.

The SALT talks are to be taken with a grain of salt till the cooks settle on a recipe.

One man's bargain is another man's goods that aren't selling.

House Committee Posts, Reform Moves Portioned

By PATRICK MARTINETS
Star-Telegram Austin Bureau
AUSTIN — House influence over legislation was placed in new hands Friday when House Speaker Price Daniel Jr. appointed committee membership and assigned chairmanships.

Almost concurrently, Daniel's package of nine reform measures were introduced and referred to the committees.

Daniel said it would take a minimum of two weeks before any floor action could be expected on his bills, which include limiting speakers to a single term, setting new ethical standards for legislators and state officials and revising the state's lobby control law.

He said while he wants floor debate on the measures as soon as possible, he also wants the bills studied fully in committee.

Tarrant County representatives drew two committee chairmanships, one vice chairmanship and positions on nine other major committees.

AS HAD BEEN expected, Fort Worth Rep. David Finney was given the chairmanship of the State Affairs Committee and Rep. Neil Caldwell of Angleton was chosen as chairman of the Appropriations Committee.

Rep. Bill Healy of Paducah, who held the Appropriations chairmanship for many years, remained on the powerful panel by virtue of his seniority. Rep. Richard Slack of Pecos, vice chairman of Appropriations in 1971, was named to that post again.

Under Daniel's new reform "rules" for the House, adopted the day he assumed the speakership, the number of standing committees was pared and provisions set up for sub-committees to handle the workload of the session.

Daniel was given the power to appoint half the membership of each committee (except House administration and calendars) in addition to naming the chairmen and vice chairmen.

The other half of the committee spots were filled on request from the members.

with priority given on the basis of seniority.

REP. GIBSON Lewis of Fort Worth was chosen chairman of the Committee on Natural Resources and Rep. Bill Hilliard of Fort Worth was given the vice chairmanship of the Transportation Committee.

Other important committee chairmanships included naming Rep. Joe Allen of Baytown as head of the House Administration Committee and Fred Head of Troup as chairman of the Committee on Reapportionment.

Both Finney and Head have indicated interest in the speakership of the House.

Rep. Terry Doyle of Port Arthur was selected as chairman of Revenue and Taxation.

After the committee assignments were announced, Lewis said he felt the Tarrant County delegation received some of the best appointments and "came out better than any other section of the state."

Lewis said, "We have our people equally distributed on the committees to give us an effective voice. The Speaker was extremely good to us."

COMPLETE committee assignments for the Tarrant County delegation are as follows:

—Rep. W. G. Coody of Weatherford: Agriculture and Livestock, Education and Reapportionment.

—Rep. Charles Evans: Business and Industry, Judiciary and Rules.

Rep. David Finney: Reapportionment, in addition to his State Affairs appointment.

—Rep. Bill Hilliard: House Administration, Insurance, in addition to the Transportation Committee assignment.

—Rep. Gibson Lewis: State Affairs, plus his chairmanship of Natural Resources.

—Rep. Chris Miller: Environmental Affairs, Human Resources and Reapportionment.

—Rep. Tom Schieffer: Elections, Human Resources and Natural Resources.

—Rep. W. C. Sherman: Elections, Liquor Regulation and Revenue and Taxation.

—Rep. Joe Spurlock: Criminal Jurisprudence, State Affairs and Transportation.

—Rep. Doyle Willis: Appropriations, Labor and Transportation.

THE LUMPITS by Hancock



Ear Reattached After Amputation

Los Angeles Times-Washington Post
MONEBELLO, Calif.—Surgeons reattached a 23-year-old Pico Rivera, Calif., man's left ear Friday after the victim told authorities assailants cut the ear off in a dispute over a missing electric guitar amplifier.

Thomas Arispe was listed in satisfactory condition after surgery. However, the long-term success of the operation will not be known for weeks, a hospital spokesman said.

INDIAN LIFE CENTERS

More than half of the 800,000 American Indians live in five states: Oklahoma, 98,468; Arizona, 95,812; California, 91,018; New Mexico, 72,788; and North Carolina, 44,406.

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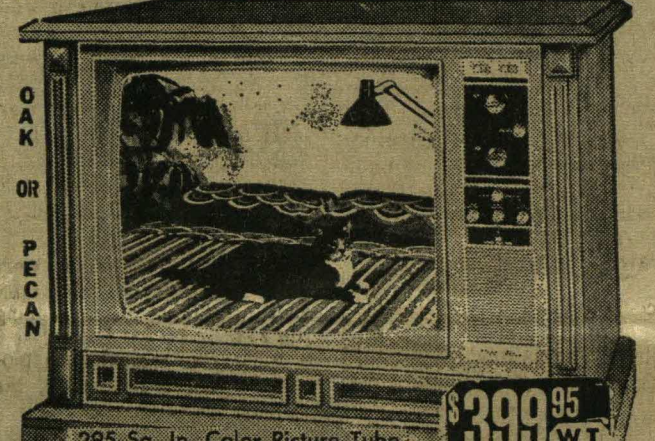
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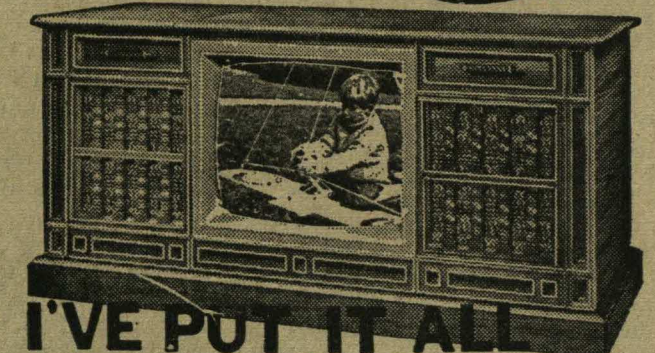
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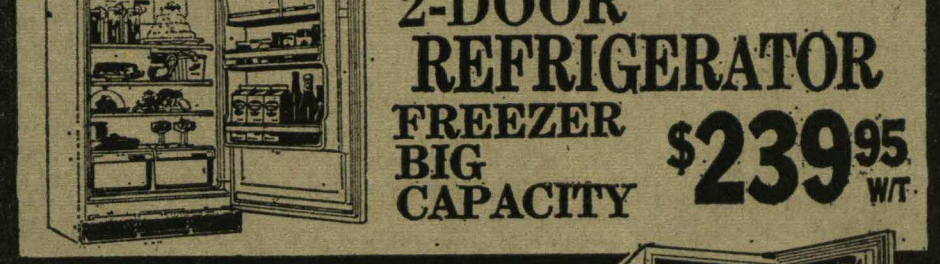
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Council to Plan Street Hearing In Arlington

ARLINGTON — City Council is scheduled Tuesday night to call a public hearing on the improvement of Arkansas Lane, the largest single street project ever proposed by the city.

The improvement of the street from Browning Drive to Farm 157 would cost about \$750,000.

Council also is scheduled to decide whether to award a contract for the improvement of Medlin Road from Arkansas to Farm 157. At a public hearing on the project at the last council meeting five persons opposed the project and one supported it.

Also on the agenda is the rezoning from agricultural to industrial classification of about 510 acres west of Farm 157 and north of the Trinity.

A. J. MORRIS, M.D. ANNOUNCES HIS RETIREMENT

JERRY MITCHELL, M.D. ANNOUNCES THE ASSOCIATION OF RALPH WEEKS, M.D. IN THE PRACTICE OF OPHTHALMOLOGY (DISEASES & SURGERY OF THE EYE) 3800 CAMP BOWIE BLVD. (817) 737-3313

Billy Graham WORLD-WIDE BROADCAST

HEAR HOUR OF DECISION SUNDAY with CLIFF BARROWS GEO. BEVERLY SHEA TEDD SMITH
WFAA 10:00 PM 570 KC
KSKY 4:00 PM 660 KC
KDTX-FM 5:00 PM 102.9 MC

\$19.4 MILLION FOR 1973

Commissioners Okay Budget

After twice giving it tentative approval, county commissioners Friday finally gave the 1973 budget their final okay, but not before making some last-minute adjustments.

Added to the \$19,479,253 budget at Friday's session

were \$8,400 to cover car allowances for all eight constables, \$7,000 for the Fort Worth Museum of Science and History, \$10,000 for the Fort Worth Rehabilitation Farm and \$2,000 for the Grand Prairie Library.

Requests which were heard

but turned down came from Tax Assessor-Collector Reed Stewart, who wanted a hike from 6 to 7 per cent in retirement fund input and reclassification of two employees, James Gaskin who wanted a minorities training program and Commissioner Dick Andersen, who wanted \$10,000 to help the Boy Scouts.

COMMISSIONER George Richardson made the motions on all of the additions except the one to aid the Grand Prairie Library. Richardson supported the

\$10,000 aid to the rehabilitation farm despite criticism from Commissioners Jerry Mebus and Dick Andersen. Andersen said he thought some effort at coordinating activities of the farm and the county's detoxification center should be made before the court gave away \$10,000.

The move passed with Richardson, Commissioner Dick Lewis and County Judge Howard Green voting for it and prompted Andersen to propose helping the Boy Scouts by giving them \$10,000 to use in an anti-narcotics program.

That motion died for lack of a second.

In quick succession the \$7,000 cut from the museum's budget request was restored in a unanimous vote and the library, which is not located within the county, but serves Tarrant residents, was included in the list of libraries getting \$2,000 each.

Another split vote occurred when Stewart made his pitch for increasing to 7 per cent the amount of salary an employee would put into the retirement fund.

"I don't see any reason why this county can't go to 7 per cent," he said. "If we don't do it this year, we won't ever do it."

COUNTY AUDITOR Jack Benson said the proposal would cost about \$74,000 in matching funds a year and Stewart said that cost could be paid by eliminating one of the planned subcourthouses.

Then Stewart said the money would be available from the data processing budget. "I'd like to see the computer forgotten."

"I think you can put that off for another year," responded Andersen.

"I know you can," said Stewart.

"I move we raise the county retirement to 7 per cent," said Andersen.

Andersen and Dick Lewis lost that vote to Mebus, Richardson and Green.

The commissioners also considered a proposal from James Gaskin to hire 10 disadvantaged persons for on-the-job training.

Gaskin asked the court to pay the 10 people \$2 an hour and ensure that they would be given regular jobs when their training had given them enough knowledge to pass civil service examinations.

He pointed out that the county would save money in the long run because the persons so employed would in all probability come off the welfare rolls.

"THIS IS A good idea," said Personnel Director Stan Zinn of the plan. "You'd have to go after them, but I suspect some of them would like a chance."

Gaskin, saying he was interested in getting more minority members onto the county payroll, noted that "everytime we go before a body of government, the first thing you hear is that we have no qualified people."

"We want to do something to qualify them," he said, promising that "people will take advantage of it."

The court ordered Zinn to meet with Gaskin and investigate the proposal and return with a report on it at a later date.

Commissioners ended the meeting Friday by approving the budget after making one last change at the behest of Andersen, who asked that legal adviser Cue Lipscomb be granted an \$1,800-a-year car allowance.

Complaint Will Cost Investor

A Dallas real estate investor may wind up with a higher tax bill than he expected this year after appearing before commissioners court Friday.

The investor, Manning Grimman, came along with others to oppose transfer of funds from the right-of-way fund to the county general fund.

Grimman said he owns about 50 per cent of the property along Texas 360 on the west side of the Dallas-Fort Worth Airport and tried to stress the need to conserve money with which to buy this land.

HE SAID it was important for commissioners to consider that many businesses would establish themselves in the area once the highway development is approved and the land purchased.

County Judge Howard Green then accused Grimman of being a "land speculator" interested in selling property at inflated prices.

Grimman admitted buying acreage — he wouldn't say how much — for \$3,500 an acre three years ago and then buying out a partner recently for \$20,000 an acre.

Asked what he was paying in taxes on the land, Grimman replied, "I don't know, but I object to it."

"Well," said Green, "I object to you coming up here and complaining about taxes. I think Mr. Stewart is going to raise you up where you ought to be."

Tax Assessor-Collector Reed Stewart seated at the rear of the courtroom, nodded his assent.

A cursory check of the tax assessor-collector's records showed that among Grimman's holdings are three tracts totalling 122 acres near 360.

Total value for tax purposes is currently set at \$36,600 or about \$300 an acre.

ACREAGE FOR highway right-of-way around the airport site has been sold as high as \$50,000 an acre and commissioners have said for some time they wanted Stewart to look into revaluing the high-priced land on the tax rolls.

Grimman became the first landowner to be mentioned by name in that context Friday after he appeared and although he declined to say exactly how much he owns, Commissioner Jerry Mebus said Grimman contacted him recently and mentioned holdings of 465 acres.

That much acreage, assessed at \$50,000 an acre, would bring a tax bill of approximately \$60,000.

Skittering City Bus Scuttles FW Nurse

Mrs. Martha Holmes, 67, of 2332 Marigold, received a broken ankle when a city bus for which she was waiting slid into her on the city corner of N. Sylvania and Marigold about 8:45 p.m. Friday.

Mrs. Holmes, a registered nurse at St. Joseph Hospital, was taken to St. Joseph and treated. She was in satisfactory condition late Friday night.

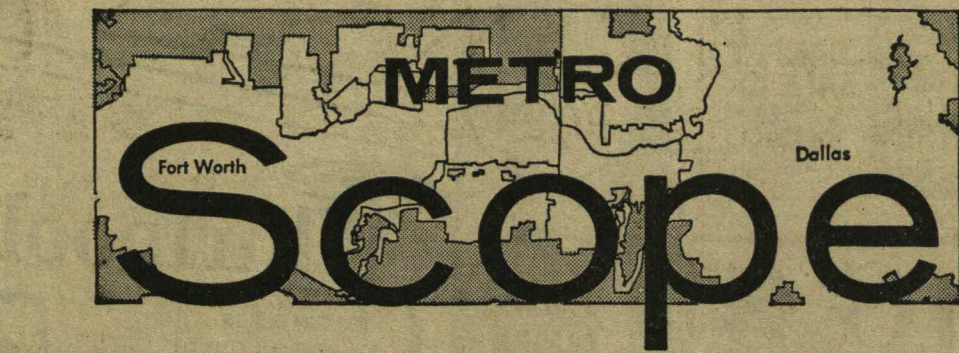
Services Today for TCU Dean

Funeral services for Frank Clayton Hughes, 57, dean of the TCU School of Fine Arts, will be Saturday at 2 p.m. in Partners in Prayer Chapel.

The body will be cremated and the remains placed in a cornerstone of the chapel.

Hughes, who lived at 3905 Lynncrest Drive, died Thursday in a hospital here.

Hughes, born in Ada, Okla., was a World War II veteran. He received a bachelor of fine arts and music degree and a master's degree from the University of Oklahoma. His second master's and a doctorate were from the Eastman



Director of Meacham Field Honored by Retirement Fete

Otto Warren, director of Meacham Field, was honored at a retirement party Friday afternoon to mark the end of a 26-year career.

Fellow workers gathered in the airport's cafe for the reception for Warren, who came to the city from the Navy at the end of the World War II and has been here ever since.

He served as supervisor of maintenance and operations from 1947 to 1962, when he was made director of the airport.

He will be succeeded by Barry Hall, now assistant director of aviation.

"The only thing I'm regretting is that I would like to stay on until the program is completed," Warren said. A \$5 million improvement program is scheduled to start soon which includes two brand new runways, one 7,500 feet long and a companion parallel 2,800-foot runway for smaller aircraft. The east-west runway will be 4,050 feet.

"When it's finished we will have a completely new airport," he said. The airport will be "up to date—now its about 10 years behind."

Warren, 65, lives with his wife at 2905 Leith Ave. They have no children.



WARREN RETIRES—Mr. and Mrs. Otto Warren examine a party hat Warren received at a retirement party Friday as Lloyd Preston, director of aviation for the City of Fort Worth, right, looks on. Warren retires Monday from his position as director of Meacham Field where he has worked since 1945.

GP Mayor Honored As Citizen of the Year

GRAND PRAIRIE — Mayor William F. Bowles received the Grand Prairie Chamber of Commerce Citizen of the Year award Friday night during the chamber's annual banquet at the Rondavel Restaurant at Lion Country Safari.

The mayor was cited for his role in getting citizens to participate in municipal government.

The Member of the Year Award went to Tom Bracken of Texas Electric Service Co. He is a past president of the chamber and served this year as president of the chamber's economic and industrial development team.

The Public Service Employee award was presented to Mrs. Louise Gilbreath, director of public information for the city. She is a former editor of the Grand Prairie Daily News.

Mrs. W. R. Fenwell, president of the Women's Division of the chamber for 1971 and 1972, was given the Distinguished Service Award.

Also at the banquet outgoing president John Thorne

Last Signing Of Petition On Weekend

Final signatures on petitions opposing the NAACP integration plan will be obtained this weekend from blacks in the city, the Rev. Don Peavy said.

The petitions state, "We the undersigned citizens of Fort Worth think that the NAACP does not represent the black community of Fort Worth in the integration suit now pending before the United States Court for the Northern District of Texas. We should like to have our views on the subject of integration made known to the court."

The Rev. Mr. Peavy, who spoke Wednesday against the NAACP at a school board meeting, said most of the needed 200 to 300 signatures on the petitions have been obtained.

At the Wednesday board meeting, the Rev. Mr. Peavy accused the NAACP of not representing the majority of Fort Worth residents, and was particularly critical of the NAACP recommendation to close Terrell High School.

Bureau Begins Shelter Project For Runaways

ARLINGTON — A project is under way to establish a shelter for runaway youths.

The Arlington branch of the Youth Services Bureau of Tarrant County conducted an organizational meeting to establish a board of directors for the project this week.

Bob Underwood, who was elected chairman, said the group is attempting to locate a house, in which the program can be operated. A foster couple will also be selected to oversee operation of the shelter.

Underwood said plans also call for a youth counselor to be available to talk with runaways who either voluntarily appear at the shelter or who are referred there by law enforcement officials.

JA Companies Will Present Wares at Fair

ARLINGTON — Tarrant County Junior Achievement companies will present their second annual trade fair Saturday from 10 a.m. to 5 p.m. in Six Flags Mall.

Twenty JA companies, under sponsorship of parent firms, will display products made by the companies and in production since October.

Products include lamps, garbage bag holders, car trouble lights, games, cutting boards and many other items.

Now in its 17th year, Tarrant County JA includes 47 miniature companies involving about 1,300 high school students.



RETIRED TIRES — Mike Shiflett, a UTA student, holds pulverized rubber to be used in tests by UTA's Construction Research Center.

Old Tires Won't Be Retired If UTA Research Succeeds

Old tires don't die — they just get pulverized and go back to the road.

They will, at least, if research by Dr. Ernest Buckley and Mike Shiflett of the University of Texas at Arlington proves successful.

The men are planning next month to test their theory that pulverized rubber from throw-away tires will strengthen and lengthen the life of the type of street pavement now in use.

Buckley is associate director of UTA's Construction Research Center. Shiflett is a student.

A test slab is to be laid at a Texas Industries rock quarry in Midlothian, where it will be subjected to unusually heavy and frequent traffic.

"AT THE QUARRY there are 50-cubic-foot rock haulers," Buckley said. "We think that within a year the concrete will be destroyed (because of the extra-heavy traffic) and we can see if the rubber might be effective in making those slabs last longer than conventional ones."

The top of the pavement will be the same as that used on Fort Worth streets, Buckley said.

Several types of reinforcement also will be used with the rubber in the testing.

Buckley said the pulverized rubber might be used to protect slabs under houses. Polyethylene film used with the slabs often cracks when workmen walk on it, Buckley said. The cracks allow moisture to seep through.

The rubber would strengthen both the street pavement and foundation slabs because, Buckley said, he is "95 per cent confident" that subsurfacing with the rubber would be an effective moisture barrier.

"WE ARE CONSIDERING using it (the rubber) experimentally as a vertical barrier to prevent moisture migration, particularly in this area where foundations are built on

an expansive plane," Buckley said.

Buckley is optimistic about the results of his tests. The ecological aspects make him hopeful.

"There are about 180 million tires thrown away each year, but in addition to reclaiming and recycling the

tires, there would be some requirement for producing some of this pulverized rubber — if this (process) came into wide and general use," he said. "I don't want to sound overly optimistic, but if we could just use up all the used tires in the world, it would be good."

NOW AND NOTABLE Water Contract Will Be Awarded

Engineers expect to award a contract in two weeks for a new \$1.4 million treatment plant that will give Bedford and Euless their first supply of lake water.

The plant, together with pipelines from Cedar Creek and Lake Arlington, is a \$3 million project due for completion before the summer of 1974.

Both cities presently use only water from wells.

LARRY COLE, THE DALLAS Cowboy lineman, has a new business office open in Hurst at 440A Pipeline Road. He's in commercial real estate and development in the off season.

LES THOMAS, NTSU EXTENDED registration through Monday because of the snow. Day classes begin Tuesday . . . School officials there are hoping to ease the parking situation with a trial bus shuttle service between the Fouts Field parking lot and the campus next week.

WATCH FOR HURST-EULESS-BEDFORD Hospital, due to open in May, to get a new name soon. Administrator Wayne Kirchoffer says the second phase of the new medical facility in Bedford will be ready in August. Total cost is about \$2.4 million.

DEBBIE RATLIFF, AN L. D. Bell and Baylor grad, has been named news and information service director at the new upper-level University of Texas at the Permian Basin scheduled to open in Odessa in September. She's the daughter of Mr. and Mrs. G. C. Ratliff Jr. of 4821 Weyland in Hurst.

HUEY BALL, NEW CHIEF architect at Knowlton-Ratliff-English-Collins got the two-story Bedford city office-library complex as his first job. . . Three \$50 gift certificates have been added as prizes in the North Richland Hills park naming contest that has a \$500 scholarship as a grand prize. Only North Richland Hills students are eligible and the deadline for entries is Jan. 31.

D-FW AIRPORT-SHADOWED residents of Coppell felt the sting of progress in their rural-oriented community this week. The city council assigned everyone house numbers. Never needed them before the airport growth, said one councilman. Policemen and firemen knew "just about everybody and where they lived."

Garbage Runs Called Off Because of Icy Streets

In case you haven't noticed, there was no garbage collection Friday.

Sanitation crewmen were on the job Thursday, the first day after the big snowfall.

But Friday, said Public Works Director Jack Graham, the street conditions were too bad. On Thursday, he pointed out, the snow was soft and the big trucks had no trouble. But by Friday, Graham

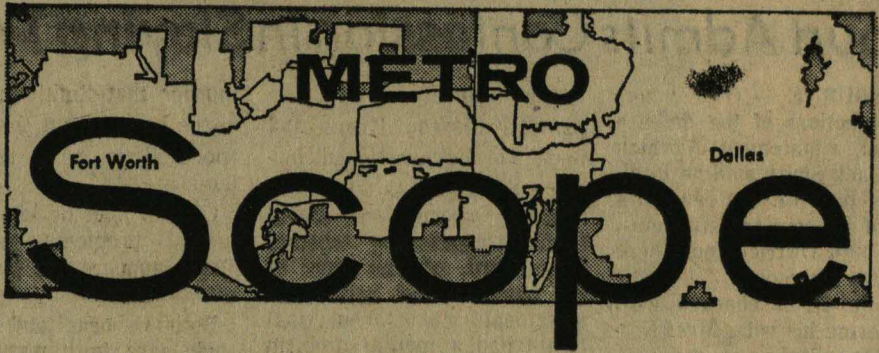
commented, the traffic had packed it down so much that streets were slick and garbage trucks were immobilized.

In such a situation, collection would have been dangerous for all concerned, Graham said.

So Friday customers will have their garbage collected on their next regularly scheduled collection date—Tuesday.

What's Going On Here

- 8 a.m.—Greer Island Nature Center at Lake Worth open until 5 p.m.
- 9 a.m.—Fort Worth Museum of Science and History open until 5 p.m., free; Fort Worth Zoological Park grounds, herpetarium, aviary and aquarium open until 6 p.m., \$1 for persons over 12; Gray Line sightseeing tour, Sheraton-Fort Worth; Pate Museum of Transportation open until 5 p.m., U.S. 377 at Cresson, free.
- 9:30 a.m.—Gray Line sightseeing tour.
- 10 a.m.—Amon Carter Museum open until 5 p.m.; Fort Worth Art Center open until 5 p.m.; Kimbell Art Museum open until 5 p.m.; Lion Country Safari open until 4 p.m.; Southwestern Historical Wax Museum open until 6 p.m.
- 1 p.m.—Public ice skating until 3 p.m., Will Rogers Coliseum.
- 1:30 p.m.—Gray Line sightseeing tour.
- 6:45 p.m.—"Arsenic and Old Lace," Windmill Dinner Theater, 335-2686.
- 7 p.m.—Gray Line western excursion to Mansfield Kow Bell Indoor Rodeo, \$10 and \$7; Public ice skating until 9 p.m.
- 8 p.m.—Texas Girls' Choir Concert, Will Rogers Auditorium, \$2 adults, \$1 students, 332-9308; Dan Danciger Jewish Community Center, Paddy Chayefsky's "Middle of the Night," \$2.50; Square dancing—Tri-City Promenaders, Hurst Civic Center, 700 Mary Dr.—Beachcombers, Sycamore Recreation Center, 2525 E. Rosedale—Longhorns, Meadowbrook Recreation Center, Arlington.
- 8:15 p.m.—Community Theater presents "Child's Play," Scott Theater, \$3.50 adults, \$2 students 738-6509.



Civil Service Reported 'Out of County Hands'

County commissioners cannot undo now what they did earlier when they created the county civil service system, said Commissioner Dick Lewis Tuesday.

Lewis said the only way civil service can be ended in Tarrant County is by vote of the people or by a court ruling it unconstitutional.

* * *

IT WAS reported Monday that some county officials were discussing petitioning commissioners to abolish the system.

Peace Justice W. W. Matthews, one of several officials who would like to see an end to civil service, said several department heads were considering going to the court

as a group to make the request.

Lewis, however, said the statute under which the county first authorized organization of the system does not allow the commissioners to reverse their action.

"They would have to take it to the people" in the form of a referendum, he said.

* * *

LEWIS SAID a petition bearing signatures of a certain percentage — "I don't know how many it would have to be" — of the voters in the last general election would have to be presented and an election called on the issue.

Or, said Lewis a court could rule the civil service setup invalid and order it ended.

Lewis, at odds with Personnel Director Stanley Zinn recently over administration of civil service regulations, said he doesn't want the service banned, only properly enforced.

He said rules have been waived for special cases too many times and advocated equal application of the civil service rules to all county employes.

* * *

HE POINTED to waivers granted on residence requirements to personnel now being hired for the newly formed information systems department and to an instance where only one of two persons being transferred into the public works department was required to take a test as examples.

Lewis, however, maintained that, although he has been critical of the system, he is still a strong backer of the civil service concept.

"I fought for it and I still think its good," he said.

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- 9:30 a.m.—Gray Line sightseeing tour.
- 10 a.m.—"Connecticut Yankee in King Arthur's Court" by Mark Twain, Casa Manana Theater, \$1.25 students, \$1.75 adults, 332-9319; "Pilgrim's Progress" presented by Everyman Players, Broadway Baptist Church, free admission; Lion Country Safari open until 4 p.m.; Museum of Science and History open until 5 p.m.; Fort Worth Museum of Science and History open until 5 p.m.

Council Oks Rate Increase For Phones

ARLINGTON — City Council approved a telephone rate increase Tuesday by a 5-1 vote.



Victim describes robber

Mrs. Jean Demerson tells Policeman Tony Arocha, left, and another officer how two FBI agents rescued her after an armed robber got \$40 in cash from her office, the Frank C. Bliss Real Estate Co. at 4321 E. Berry today. Mrs. Demerson said a man

in his 30s with a pistol came into the office about 11 a.m., asked about renting a house—and then tied and gagged her. She hopped to the street, and was untied by FBI agents Bob Oakley and James Acree, who happened to be passing.

New civil service member debated

Attorney David Chappell's appointment to the County Civil Service Commission may not be a cinch.

At least two other nominees are being contemplated.

Commissioner Dick Andersen has suggested Buzz Kemble, a labor attorney, and Commissioner Dick Lewis said he has a nominee but he won't mention his name until Monday.

County Judge Howard Green said earlier this week commissioners had agreed that Chappell could be the member.

Commissioner George (Skeet) Richardson said he might even come up with a couple

of appointments to fill the spot vacated by Joe Bruce Cunningham, who is leaving county service to run for Fort Worth city council.

Judge Green asked Richardson, "Are you against Chappell? You told me you were for him."

Richardson said, "Well, I might have a few names to kick around."

When Andersen suggested Kemble, he said the attorney had expressed a desire to serve on the board.

Richardson mused, perhaps, facetiously, "I think he has signed an ad against me the last two years."

Richardson jokingly conceded commissioners would "have trouble finding anybody who is qualified who didn't (sign an ad)."

Texas, Utah want rule on abortion overturned

WASHINGTON (UPI) — Texas state officials have asked the U.S. Supreme Court to reconsider its Jan. 22 decision striking down the state's law regulating abortion. The Utah House of Representatives also urged the court ruling be overturned.

Texas Attorney General John J. Hill told the court Thursday it had improperly substituted its own "social beliefs" for the "collective wisdom of the people of Texas, speaking through their legislature."

The rulings left abortions up to the pregnant woman and her doctor through the first three months of pregnancy. State regulation was permitted during later stages, but abortions were not completely forbidden at any stage.

Squabble is settled

The question of whether court co-ordinators and the DA's business manager fall under civil service requirements has been settled out of court.

County Personnel Director Stanley Zinn said the four court co-ordinators, the business manager, and three clerks will not fall under the civil service system because their jobs are provided for in Texas Criminal Justice Council grants. He said the employees, however, would receive county benefits. "This is part of the in-kind services the county must provide as matching funds for the grant," Zinn said.

He said the grant employees will be treated as temporary employees and, if the money runs out after the three-year grant period, the employees will be out of work unless the county decides to take up their salaries.

The four court co-ordinators are scheduled to transfer from the jurisdiction of the district clerk's office to the employ of each of the four criminal district judges. According to Zinn, if the county does not pick up the co-ordinator's salaries, the four co-ordinators will not be able to transfer back into their old jobs.

The court co-ordinators will make \$1000 per month under the grant, the DA's business manager will make \$17,409 per year, and the clerks will be paid in accordance with starting clerk's salary in the county, Zinn said.

He said the DA has already picked his business manager and the court co-ordinators have been selected, but are yet to be approved by the county commissioners. He said hiring of the clerks will be handled by the personnel office, in accordance with the wishes of the DA and the judges.

Which pageant has the subsidy?

By TOM CURTIS

The question isn't which twin has the Toni, but which beauty pageant has the subsidy.

All that's clear now is which one doesn't have the subsidy — the nationally televised Miss Teen-age America Pageant. On the advice of Cue Lipscomb, county legal advisor, the advisory board of the Tarrant County Convention Center voted Thursday to reject the pageant's request for a three-year, \$105,000 subsidy. He said such a direct subsidy would be illegal.

Representatives of that pageant have said the money is the price of continuing to hold the event in Fort Worth.

Meanwhile, the board said it will consider at its March meeting whether to cover the expected deficit of the locally-broadcast Miss Texas Pageant up to \$7000. But it seemed unlikely that it will do so.

Don Magness, chairman of the Miss Texas Pageant, asked the board to underwrite the event, but promised it will stay in Fort Worth for the next two years regardless.

LIPSCOMB SAID he thought this would be legal as an expense of advertising the center if the televised pageant opened and closed with a credit line saying it was "brought to you from the fabulous and ex-

citing facilities of the Tarrant County Convention Center in Fort Worth, Texas."

Magness argued that the Miss Texas Pageant, which selects the state's nominee for the Miss America Pageant, is "totally and completely different" from the Miss Teen-age America Pageant.

The board promised to consider covering Magness' possible losses up to \$7000 at its March meeting if he furnishes data on the dollar value of the two advertising credit lines.

Then, after Magness left, the board voted 4-3 to reject the project outright, but reconsidered. Three members abstained and one was absent.

ONE OF THOSE for turning the project down, former Fort Worth mayor DeWitt McKinley, said subsidizing the Miss Texas Pageant would amount to "going around the back door to get this thing in because we like it" and probably would be illegal. Another opponent, former city councilman Harris Hoover, said it was an improper use of tax funds and asked, "Where do you draw the line?" in deciding whom to support.

This year the Tarrant County Commissioners gave the Convention Center a \$40,000 budget to promote the facility and the board can advise commissioners how to spend it. Commissioners have already voted to reject the Miss Texas Pageant request.

An unanswered question is whether the county's \$25,000 subsidy to the Miss Teen-age America Pageant last year was legal, and whether earlier subsidies funneled to the pageant from the county through the Chamber of Commerce were legal.

LIPSCOMB DECLINED to say. Last year Jim Morgan, then county legal advisor, OK'd the subsidy.

"I'm not going to second-guess him," Lipscomb said. "I'm not going to look over the shoulder of another lawyer."

In other action, the board:

—Received a financial report indicating that the Convention Center earned \$818,400 net profit last year, avoiding a budgeted deficit of \$64,000. This put the center in the black in the fourth year of its operation, one year earlier than projected, according to chairman Herman J. Smith, a local builder-developer.

—IN EFFECT WIPED out the profit by voting to refund \$1000 rent to Lennox Industries because the center couldn't be used when it was promised because gas was shut off in a December cutback. However, the \$1000 debit will appear on 1973 books to preserve the profit.

—Unanimously re-elected present officers, including chairman Smith; vice chairman James Fuller, vice president of Bell Helicopter; and secretary M. M. Goldman, owner of White Rose Distributors. Because Goldman is gravely ill, Jimmy Payton of Payton Ford Co. was named acting secretary.

Women were too handy

Police were questioning two women held in jail today because they were too handy when a 24-year-old man was shot during a robbery attempt at an East Side motel.

After the man was shot at a Central Motel, 5800 E. Lancaster, about 8:40 p.m. yesterday, the women, 17 and 21, came in to see if they could be of help.

When the suspect was taken to the hospital with a bullet wound in his neck, the two women showed up at the hospital and inquired about his condition.

When the suspect first walked into the motel, Mrs. Lee Harrison Studds, wife of the manager, became suspicious. She motioned for her husband to bring his pistol.

The man registered. Then when Studds came in, he told Studds, "All right, hold it right there."

The suspect pulled a pistol but Studds was too quick for him. He fired twice, one bullet striking the suspect in the neck.

A witness told police that he saw the two women in a car outside the motel before the robbery attempt and shooting.

Winds, cloudy skies are weather recipe

The weekend is beginning with winds, cloudy skies and cool temperatures.

It will be mostly cloudy tonight and tomorrow. Low tonight will be in the middle 40s, the high tomorrow in the upper 40s.

Winds, easterly, 5 to 10 mph, will become westerly, 10 to 15 mph, tomorrow.

Friday's high was 51, the low today, 28



Salute to son Billy

Maj. Robert Jeffrey of Dallas breaks into a grin and salutes his 8-year-old son Billy after landing at Sheppard AFB yesterday. Maj. Jeffrey left for Vietnam when his son

was only a few months old and is returning to the U.S. after being a POW for over seven years. See story page 2.—UPI Telephoto.

Hanoi to release 20

WASHINGTON (UPI) — Hanoi will free the next 20 American prisoners of war at midnight Saturday, EST, the Pentagon announced today.

A Defense Department spokesman, Jerry W. Friedheim, said the men would arrive at Clark Air Base in the Philippines—the first processing point for returning POWs—about 3 a.m. EST Sunday if the schedule follows that of

previous releases. Some of them might be on their way back to the United States a day or two later.

The unscheduled release raises to 163 the number of POWs that have been freed or that Hanoi has promised to free on a specific date. Friedheim said he did not know whether this small release would reduce the size of the next scheduled POW handover, expected about Feb. 26.

All the men being released this weekend are military officers—16 from the Air Force and four from the Navy.

Friedheim said details of the release were worked out during meetings this week of the Four Party Joint Military Commission in Saigon and were relayed to Washington early today by Gen. Gilbert H. Woodward, the chief U.S. representative on the commission.

Absentee vote starts Tuesday

Absentee voting will start Tuesday for the March 13 Trinity River bond election.

Absentee voting will be on the fourth floor of the Tarrant County Courthouse.

Absentee ballots may be cast until 4:30 p.m. March 9.

County Voter Registration Clerk Jerrie Reynolds said registration for voting in that election ended Friday, Feb. 9. She said the final day of registration brought only a flurry of phone calls and very few registrants. "Most callers just wanted to make sure they were registered already."

Townbeat

SWHS college night

Southwest High School will have representatives from 37 colleges on hand to talk with parents and students Tuesday. It is the school's fifth annual College Night program which begins at 7 p.m. The college representatives will talk to the parents and students about entering college.

Juvenile judge on 'JZ

Juvenile Judge Scott Moore will air his views on the proposals to reduce the penalty for marijuana on KFJZ's "Side Track" program from 10 p.m. to midnight Sunday. The judge will discuss some of the proposed legislation.

P.O. holiday Monday

Mail service will be altered Monday when local U.S. Post Office workers observe a George Washington's birthday holiday. According to Postmaster Jack D. Watson there will be no window service at the offices and no delivery on city, rural or star routes. Special delivery service will continue. Residential collections will be made during the early afternoon. The downtown business section will get regular foot collections.

To punch cards or pull levers: Still a dilemma

By LARRY POWELL

To hear it from opponents of the punch card voting system in Tarrant County, you can't trust the blamed machines and you darn sure can't trust the people who set up the computer to count the votes.

But, that's only one side of the issue of deciding what sort of mechanical means is best for Tarrant County elections.

The other side, not so steadfastly maintained by the Tarrant County voting machine study committee yesterday afternoon, is that the punch-card voting machines are cheaper and preferred by 71 per cent of the 17 voting precinct chairmen which used them during the 1972 general election. But, according to figures from County Auditor Jack Benson, 77 per cent of the 83 precinct chairmen using lever machines preferred them. Nobody asked how many people preferred paper ballots. A handful of selected precincts, however, did indicate they had no preference as to either type of machine.

MEMBERS of the committee who weathered the two-hour meeting included Benson, County Purchasing Agent Ed Smith, County Clerk Chief Asst. Madrin Huffman, Public Works Director LeRoy Erwin, County Democratic Chairman Estil Vance, and County GOP Chairman Ed Palm.

Organized and unorganized opponents of the punch-card voting machines, in Tarrant County the Vot-A-Matic, met with the six-member committee and overwhelmingly opposed use of the punch card-computer voting system, citing a number of reasons.

Electronic data processor Jean Chidgey, who was among the persons who operated the county computer system on election night in November, 1972, told the committee there were "bugs" of some sort in the system.

She said this was obvious because the computer broke down and the computer programmer had to be called from his hotel bed to fix it. She said she suspected the computer broke down because absentee ballots fed into it were mutilated. She said she would recommend that absentee ballots not be computerized in future elections.

She estimated 70 to 100 ballots were too badly mutilated to use, three-fourths of the absentee ballots. In all, she said, 2500 ballots had to be repunched because of mutilations. And here, she said, is where dishonesty could have crept into the election.

AS MRS. CHIDGY was explaining the 2500

mutilations, and some members of the committee apparently did not see the effect of that number, Margaret Carter of the Tarrant County Democratic Women's Club asked, "What was the difference between Mr. (Dick) Andersen's total and his Republican opponent's total?" Andersen won his seat as commissioner of Pct. 1 by nudging Tom McCann by about 1000 votes.

Two young men who repunched mutilated ballots told the committee it would have been very easy for them to have added votes to their favorite candidate's total just by repunching the ballots the way they wanted to repunch them. Jim Church said he was "worried about the potential for fraud."

Committee member Ed Smith, the county purchasing agent who said he was looking at the economy of the punch-card machines, asked Church if he was familiar with the reputation of some paper ballot elections. Church said, "I understand they were very corrupt."

Mark Regenzer, also a repuncher, told the committee re-punchers were never given any "exact information on re-punching." The county's chief data processor, Bill Roberts, confirmed the young man's claim.

EARLIER in the meeting, Roberts and UTA computer professor Dr. Ralph Estes locked horns over whether the computer's program had been tampered with on election night. Roberts claimed it hadn't and Dr. Estes said he wasn't too sure because he'd seen more re-start cards than normal fed into the computer after the programmer had fixed it.

Dr. Estes said a "secret program" in the computer could offset the testing of the system and result in "manipulations." Roberts said the program had been tested several times prior to the election and could not be broken.

Dr. Estes called his discussion with Roberts an "honorable disagreement."

An Arlington man, Rusty Russell, told the committee, "We've just seen these two computer experts discuss this thing and if the experts cannot agree on the situation, then what protection as voters do we have?"

Roberts suggested several things which would keep the last election night from stretching into the next day as the November election



MRS. KATHLEEN WYNNE DAY has been named assistant campaign manager for the Tarrant Citizens for the Trinity organizational effort in favor of Trinity River improvement bonds to be voted on March 13.

Expanded board sought

Press Austin Bureau

AUSTIN—The State Board of Health would be expanded from nine members to 12 with the addition of a veterinarian, a hospital administrator and a registered nurse to the board under a bill introduced by Sen. Betty Andujar of Fort Worth.

Currently, the board, appointed by the governor and subject to Senate confirmation, must consist of six physicians, one dentist, one pharmacist and one civil engineer, each of whom must have been licensed to practice in their respective professions in Texas for at least five years prior to appointment. Board members serve staggered six-year terms, with three members being replaced each two years.

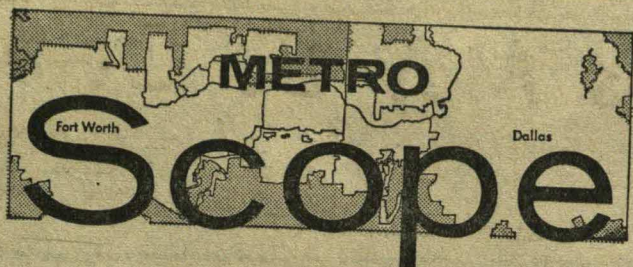
Under Senator Andujar's bill, S.B. 241, the three additional professionals would also be required to have at least five years experience in their respective fields. To continue the policy of staggered terms, Senator Andujar proposes that the veterinarian be appointed for six years, the hospital administrator four years and the nurse two years. At the expiration of the first terms, all members would once again be appointed for six-year terms.

He told the committee better instruction for workers would be necessary, more workers would be needed to beat the fatigue factor, and the absentee ballots would have to be dealt with differently.

He said, "If I'm ever involved in another punch-card election, there will be some improvements made. I don't particularly want to be a part of another punch card election."

The Fort Worth Press

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Opponents Hit Punch Cards

County officials squared off against opponents of punch-card voting Thursday in a committee hearing and came out, surprisingly, agreeing with some of the opposition.

Among those who appeared to attack the punch card system, which was used for the first time here in the last general election, were two former political candidates, a University of Texas at Arlington professor and several election workers.

The most consistent complaint to the committee appointed by commissioners court centered around security of the punch-card ballots when they reached the vote-counting center during the last election.

Former candidates for state representative, Rusty Russell and John Chidgey, joined with UTA Professor Ralph Estes to question security.

Estes, who teaches computer science, said computer programs like the one used to tabulate votes in November may be expected to have "bugs" in them.

"Eventually the bugs will be ironed out and it will work," he said, "but I'm not optimistic that those bugs will be ironed out soon enough ... so that someone will not be elected who did not get the votes."

ESTES ALSO raised the possibility that someone could program the computer to handle a test run perfectly, while turning out incorrect totals when the actual ballots are fed into the machine.

"The secret program would control it so that the test deck would run through okay," said Estes.

He also said that, on election night, he had been told by a computer operator that the computer program was removed from the machine at least once.

On that he was challenged by the county computer expert, Bill Roberts, who said that "in no way was the program ever unloaded."

"I must have been misinformed," replied Estes.

The professor also said bugs in the system caused many delays and much confusion election night. "This program was extensively tested ... but something happened that night."

Estes also attacked the computer system because election watchers, unless they were computer experts, would have trouble spotting irregularities.

Decisions involving control of the machine, he said, are made by "people who are not elected officials."

Russell asked the committee, "if the experts can't agree, what assurances do we have" that the ballots were counted properly?

He and Estes also said the public is less likely to have confidence in the computer system.

COUNTY AUDITOR Jack Benson, chairman of the committee, said, "I believe we've made every possible test we can make," but agreed that he could "understand the mistrust of it."

The main attack of the afternoon, however, was aimed at reports of laxity in duplicating mutilated ballots by election workers in the computer center.

Chidgey's wife said workers simply placed the mutilated card atop a new card and punched downward through the holes in the top ballot.

"I would not be satisfied ... with the way these things were repunched," she said. "If you knew a person's place on the ballot, you could just punch through both cards."

She said the policy of one worker checking on another was eliminated as election night wore on and fatigue set in. "In the wee hours of the morning, everyone said, 'Okay, I trust you and you trust me so let's sit down and punch these cards.'"

Chidgey said, "It depended on a lot of integrity by us. If you remember the election of 1948 when Lyndon Johnson won by an 87-vote margin, we could have easily won it for him."

ROBERTS AGREED the system was faulty, but attributed it not to the punch cards or the computer, but "just the way the election was held here."

Another public hearing on the issue is planned, Benson said.



TRUCK DUMPED
dent occurred w

Low Clearance Tall Trucks Expensive

The scene is common: massive truck jammed beneath an un-yielding concrete and steel highway overpass.

The clearance sign is clearly visible, but the truck slams the rig into the top of the pass anyway.

"Things like that are a pain," said Bob Hodge, Tarrant County Highway Department engineer.

He agreed with his league, Bill Davis, highway department district maintenance engineer, that such accidents are expensive, troublesome and should be prevented.

Many of the accidents occur because truck owners do not buy a \$5 highway department permit, the engineers say. The permit includes road work with sufficient overhead clearances.

EXPENSES TO the taxpayer can be heavy. Although a driver is usually required to pay repair costs, some damage takes weeks to repay and slows or detours traffic while construction crews repair smashed pre-stressed concrete supports or bent steel beams.

It is possible, Davis says, for a driver to do extensive damage to a bridge, back up traffic and leave the scene by another route.

When this happens, highway department personnel are taken off other jobs to find the violator. Usually, offenses can be found to identify the trucker.

Of the six overpass accidents this year in Tarrant County — all of them occurred in Tarrant and Johnson counties — only one hit-and-run has not been solved.

Job Link To Funds Proposed

The continuing dispute over civil service and how it should affect people hired under federal grants has raged at least one commissioner.

County Commissioner Jerry Mebus said Thursday he does not want to be put into the position again of automatically hiring people after the federal money with which they were paid runs out.

Referring to the current problems between civil service, the district attorney and the criminal district judges, Mebus said he wants a written agreement stating that when the funds run out, the position and the employee will be terminated.

The dispute — which revolves around the hiring of a business manager and clerical personnel by the district attorney and four court coordinators by the criminal district judges — appeared to have been temporarily settled Thursday.

Personnel Director Stanley Zinn said an agreement had been reached under which the persons to be employed will be declared temporary county employees, not subject to civil service, but receiving all the benefits of regular employees.

THE BUSINESS manager will be paid about \$17,500 a year and the four coordinators, about \$1,000 a month, but when the programs lose their federal funding, they will either lose their jobs or the county will pick up the tab.

Mebus cited the problem the court faced last year and early this year in having to keep personnel hired under the federal Equal Employment Assistance program at county expense after EEA funds were no longer available.

He said he doesn't want it to happen again.



BIRTHDAY RESOLUTION — Lt. Gov. Bill Hobby, third from left, Thursday in Austin handed Mayor R. M. Stovall the legislative resolution marking Fort

Worth
Sens.
Fort

Cases may go to trial

Computer to zap traffic offenders?

By LARRY POWELL

Tarrant County's computer system, due to be operational in April, could help reduce the sizeable load of traffic tickets on appeal in County Criminal Court No. 3.

The judge of that court, Don Burdette, thinks the computer will be able to scan through the backlog and pick out those drivers with a number of outstanding violations.

These drivers could, theoretically, go to trial on appeals.

County Criminal Court No. 3, since its creation in 1963, has been the stopping-place for thousands of municipally-issued traffic tickets and traffic tickets issued by other law enforcement organizations.

ACCORDING to Burdette, some people who get traffic tickets simply file a notice of appeal and the ticket does not appear on their driving record with the Dept. of Public Safety.

Therein lies the inspiration for appeal.

Judge Burdette believes, "It's not that most of these people don't want to pay a traffic ticket; it's just that they can't afford to see those insurance premiums jump up."

It is common practice at the Dept. of Public Safety to turn an individual's driving record over to his insurance company. Thus, since August, 1969, when the state adopted the insurance

IF A person appeals a ticket — and he can appeal as many as he gets — that ticket does not appear on his driving record and his insurance payments do not rise. Also, a driver loses his license after four convictions in one year — not after four appeals.

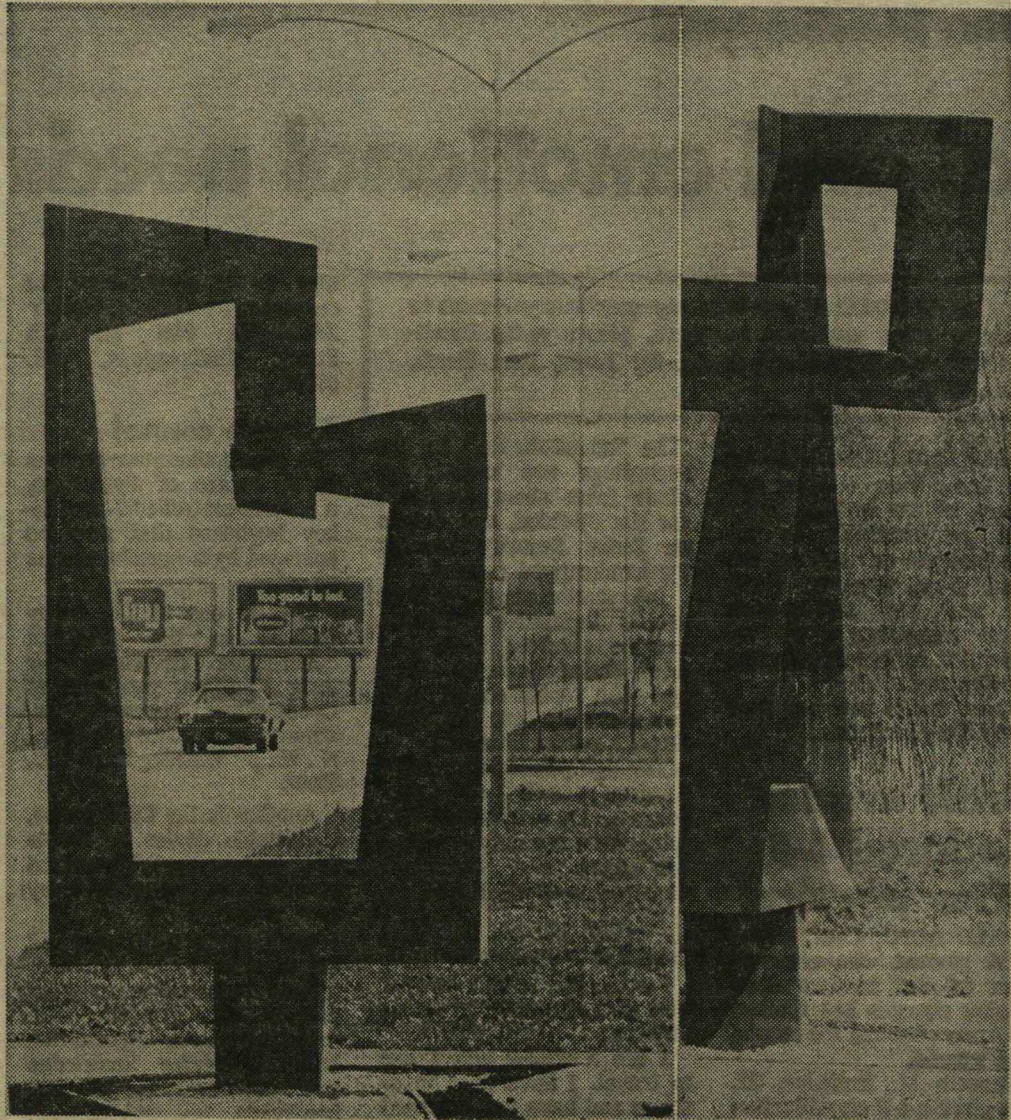
Judge Burdette, whose court handles not only traffic ticket appeals but any offense punishable by up to two years in the county jail and a \$200 fine, already had a huge supply of appeals on hand when he took office two years ago.

The backlog resulted, he said, from the tremendous number of appeals filed each month. The driving public averages about 1100 traffic ticket appeals per month in Tarrant County, he said.

BUT, HE hopes with the addition of the computer service traffic violators will no longer be able to hide behind the cloak of an appeal.

"The guy who rolls through a stop sign once in his life when nobody is around is not the guy whose appeal needs to be straightened up first. It's the guy who is habitually speeding or driving recklessly because he is a menace," Judge Burdette said.

INDY-WINNER
Bobby Unser
 Will Race in the
Texas Twin 200's
 Saturday, April 7 1:00p.m.
 TEXAS WORLD SPEEDWAY
 COLLEGE STATION, TEXAS



This metal sculpture greets persons driving into Grand Prairie. If you look closely as you pass, you can see a "G" and "P" greeting you. —Press photo.

Four more to be erected

GP sign is expensive

This sculpture on Belt Line Rd. near Grand Prairie is one of the most expensive outdoor ads any city ever bought. The futuristic sculpture is designed to read as a "G" from the front and a "P" from the side — and cost the city it promotes about

IMPERIAL

Pure Cane

SUGAR

EXTRA FINE granulated

QUICK DISSOLVING

900 DOORS (No. 2)

purchased a manufacturer's
 out of miscellaneous doors
 sizes and types to choose

NOW **\$2.95**
 TO **\$9.95**

900 #1
 OUTSIDE SHUTTERS

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18x59
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18x35
16x31

\$3⁰⁰ each

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 HOURS: 9-5:30 Weekdays .9-1 Saturday



Council countdown Anti-busers see support

By NANCY KEMPLIN

Anti-busing candidates are looking for a large turnout of their supporters to either put them in office or at least force some races into runoffs.

Meanwhile, officials from a U. S. Senator to the city attorney keep warning that busing cannot be an issue in the city council race, that only school boards and the courts are legally involved in the furor.

Much of the 10 proclaimed anti-busers' campaigning has been aimed at stirring anti-busing sentiment.

Last Thursday, Taxpayers for Neighborhood Schools held a candidates' forum at which five anti-busing candidates spoke. Another candidate, not allied with the anti-busers, complained later that he attended but was not allowed to speak.

IN PL. 8, where busing opponent Roger N. Parsons is running against five other candidates, there appears little disagreement over traditional issue: taxes, city hall staffing, city services, etc.

But, says Parsons, "we split the blanket" when it comes to busing.

He admits busing is a "highly explosive issue" — but that very "explosive" emotion is what he and his friends are counting on for support.

"I've talked to hundreds of people and I find very few who disagree with me on busing," says Parsons.

"But they're all suffering from what I call a 'futility syndrome.' Everybody feels like big business and government and city hall are too big to fight. There's nothing 'little old me' can do."

Parsons tells them that's not so. He uses John Adams and other heroes of 1776 as examples. "They won independence against overwhelming odds."



Parsons

HE CONTENTS that if Fort Worth's city council had been in Berlin in the early '40s, its members would have closed their eyes and said "there's nothing we can do" while east side Jews were carried to concentration camps.

Nevertheless, most candidates and the entire city establishment argue forcefully that there is nothing city council can legally do to stop forced school busing.

If council were to pass a resolution against forced busing, what effect would it have on the Supreme Court? they ask.

And, officials say, the courts are bound to intervene should council pass ordinances to physically stop busing — such as the one Parsons suggests that would forbid bus traffic on city freeways.

BUT PARSONS and his colleagues say even taxes are involved in the busing squabble.

Taxes will go up, he predicts, when the school district starts running its 84 new buses.

Generally, Parson says, press coverage for anti-busing spokesmen has been either nil or unfavorable.

"And we're watching our freedoms go right down the drain," he says.

Withdraw FW from Council of Governments?

Pl. 4's Gracie Reese wants Fort Worth to withdraw from the North Central Texas Council of Governments.

"My stand on this issue is that we must not allow city funding to this group," she said. "To do so would deprive us, as a city, the right to local government."

"Would anyone in Fort Worth want someone, an outsider, unfamiliar with our needs telling us what he thinks is best for us and our city? Surely not."

Candidates to be interviewed on TV

Coming up this week: Channel 5 will present short interviews with each candidate Saturday.



Hints for the handicapped

Sexual and emotional needs

By PATRICIA GALBREATH

Research into public and professional attitudes toward the sexual and emotional needs of handicapped people has been released in report form jointly by the Spastics Society and England's National Assn. for Mental Health.

Many people find something fundamentally disturbing in the idea that the handicapped have the same needs and desires as the rest of the population, the society says.

The study attacks a number of myths. Some concern alleged lack of sexuality or excessive sexuality in the handicapped.

Institution staffs were found to have reinforced the public's stereotyped reactions by denying knowledge to disabled persons about their sexuality and the means of expressing it.

The findings of the report reflect not only the frustrations and difficulties of the handicapped but also the ambivalence and embarrassment of institution staffs in facing up to the normal needs of their charges.

Copies of the report are available from the Spastics Society, 12 Park Crescent, London W1N 4EQ, England.

PAT'S NOTE: If you have any questions you want to ask or hints you want to share, please write Handicapped, c/o Fort Worth Press, 507 Jones, Fort Worth, Tex. 76101.

New books for blind

I know your readers are aware of the talking books that are available to the handicapped as well as the blind. Now, however, there are two new talking-book discs containing vital information on benefits for the handicapped.

These books are just now ready for circulation.

Draft evader declared 4-F after physical

PALO ALTO, Calif. (UPI) — A student who returned from Sweden to face draft evasion charges has flunked his Army physical the second time around.

Kenneth M. Rutledge, 27, was given a 4-F classification by doctors at the Oakland Induction Center because he had "a bad right knee," his attorney, Jerry Berg, said.

Rutledge returned from Sweden Feb. 5 and surrendered to FBI agents, saying he wanted to "get it over with" now that the Vietnam War had ended and there were no signs amnesty would be granted.

The "sound-sheets," as the recordings are called, include facts about Medicare for the disabled, and details on Social Security benefits for handicapped persons.

Information about the most recent legislative revisions can be obtained from any local Social Security office and the sound-sheets and machines are available through public libraries.

Through public information services such as your column, we are better able to perform our duty in aiding the aged and the handicapped. — MRS. B.L.B.

Senior pen-pals

I would like to be a pen-pal with retired people or senior citizens.

I am a widow and I like to travel. I have been in 49 states and have just returned from Hawaii, and am hoping someday to get to Alaska.

Right now though, I am just a lonely girl who would

WE SERVICE ALL MAKES OF AIR CONDITIONING EQUIPMENT
And Usually Can Make Most of Them Work
Grant Air Conditioning Co.
1616 Rogers Rd. ED 2-7979

like to have someone to correspond with. — CRESEY JACKSON, 6421 W. 13th Street, Indianapolis, Ind. 46224.

Remote control

We would like your readers to be aware of Cybertype, a remote-controlled 7- and 14-key keyboard that may be operated by a muscle, tongue or voice.

This is one of the many devices in the field of cybernetics developed by Haig Kafafian, president of Cybernetics Research Institute, 2233 Wisconsin Ave., N.W., Washington, D.C. 20007.

Another is the Cyberphone, a portable device to enable deaf and-or speech-impaired persons to use ordinary telephones.

We want to thank you and all of the people who contribute information to your column for providing the members of our organization with a greater knowledge and understanding of our handicaps. — MARY K., NPF member

2 TIME USAC CHAMP

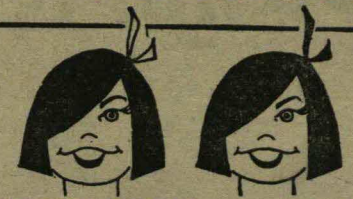
Joe Leonard

Will Race in the Texas Twin 200's

Saturday, April 7 1:00p.m.

TEXAS WORLD SPEEDWAY
COLLEGE STATION, TEXAS

"What's the Difference?"



OFFICIAL ENTRY

Joy expressed is joy increased;
Grief expressed is grief diminished.

gause-ware

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CHAPEL
5800 E. BELKNAP
PENNSYLVANIA
AT FIFTH AVENUE

Funeral Homes

Court House Computers Win Honor

Tarrant County's data processing system has won international recognition and an invitation to an international workshop on local government and information technology to be held in Denmark Sept. 28-Oct. 1.

Bill Roberts, director of Tarrant County's information systems, is one of 45 top computer executives from local governments invited to participate in the workshop in Aalborg.

The invitation cited Tarrant County's professional and efficiently-operated data processing, Kommunedata, which handles computer work for cities and counties in Denmark, is sponsor. Besides the international group of computer executives, academic researchers and representatives of international organizations concerned with local government computer work will participate.

Roberts is past president of MIX and GMIS, both national computer organizations, and past president of the Fort Worth chapter of Data Processing Management Association.

He is national chairman of a committee on data processing for Hospital Management Systems Society of the American Hospital Association and is a member of the Institute of Electrical and Electronics Engineers.

UTA Prof Retires

W.J. (Jack) Marquis, senior faculty member at University of Texas-Arlington, has retired after 41 years. A physics professor, he started in 1939 when the school was North Texas Agricultural College and had 2,000 students.

Court House Names In the News

Attorney Charles H. Roach has been named chief felony prosecutor for District Attorney Tim Curry's staff. He succeeds Jack Strickland, prosecutor for the Cullen Davis trials, who entered private practice with Allan Butcher and Tom Hill. Also promoted were attorneys George Kredell and C.T. Bellows, Jr. Tanya Bogard was transferred from a grant payroll to the regular payroll as a legal secretary, and Cindy Burgess was hired as an office clerk.

A NUMBER of promotions

General Dynamics Boulevard Plan Dropped

General Dynamics has told White Settlement not to bother renaming Spur 341 General Dynamics Boulevard.

In making the request several weeks ago the aerospace company offered to pay the cost of changing the street signs.

Mayor Rex Scott said city council, however, would change the name of the thoroughfare only if General Dynamics also paid \$50,000 to install a traffic actuated signal at the intersection of Clifford and Bomber Road.

Joins TCU Faculty

Dr. Charles F. Falk has been appointed director of continuing education at Texas Christian University. He was formerly head of Northern Illinois University's College of Continuing Education and Business Office Outreach.

have been approved for county employees. In the Tax Office E.T. Finley and B.G. Bass, realty appraisers, were promoted; M.C. Bowlen was promoted to deed records clerk; D.A. Brown and A.C. Haden were promoted to tax clerks; L. Conley and P.A. McCreary were hired as office clerks....J.C. Pyle was hired as

a jail physician; W.H. McCollough as a jailer; B.A. Morgan as an office clerk and S.K. Ramsey as a reserve patrolman by Sheriff Lon Evans. K.L. Rohwedder was transferred from reserve to regular status on radio patrol....Also hired was R.D. Jones, office clerk, Child Support.

STEP PAY raises were approved for M.A. Merritt, CETA Administration; Angie Hammack, chief bookkeeper, County Clerk; and C.L. Gault, office clerk, Auditor.

Home Slump Cuts Sales For Justin

Sharply curtailed residential construction activity this year has resulted in a sales and profit decline for Justin Industries Inc., John Justin, chairman and chief executive officer, said this week.

Net profit for the second quarter ending June 30 was less than half the 1979 figure, or 42 cents per share compared to the record 88 cents earned in the second quarter of 1979. Net income for the quarter amounted to \$1,592,000, compared to \$3,350,000 in 1979. Sales for the quarter were \$46,257,000, compared to \$47,279,000 in the prior year.

Earnings per share in the first six months of 1980 totalled 72 cents, compared to \$1.11 in the same period last year. Sales year-to-date were \$87,327,000, compared to \$84,032,000 for the prior year.

Justin said that while brick sales and profits were hurt by the low level of home building activity, all other major areas of the company produced excellent results.

WHY GAS IS PLentiful EFFICIENT AND RICH FOR THE

It's time to kiss rumors goodbye and settle down with reassuring facts, one of which is that gas is plentiful for the residential and commercial customers of Lone Star Gas Company.

Rumors are usually more exciting than fact, but the fact is that approximately 2,500 drilling rigs were at work in the United States in December 1979. This was the highest active rig

TEXAS AND OKLAHOMA HAVE 50% OF THE NATION'S ESTIMATED ONSHORE GAS RESERVES

NEW APPLIANCES USE UP TO 30% LESS

Buck Buchanan's Safe Driving Tips For The 80's.

"Do radial tires really help improve gas mileage?"

— M.B., Conroe

Yes. Because of their special construction, radial tires produce less friction with the road surface. Therefore, it takes less power to roll along on them. Experts say gasoline savings can range from five to seven percent.

Computers Without Programmers

By Faith Pearson and Myron E. Weiner

Wethersfield, CT, and other cities use fourth-generation languages for certain municipal computer functions. Are these languages leading to a programmerless computer world? If so, what are the implications for society?

During the current period of rapid change in computer-related technologies, municipalities face the issue of taking advantage of major advances in the field. While computer hardware has made significant price-performance advances, by far the most important improvements are in software. Local governments now have the opportunity to utilize a fourth generation language (4GL) which some recent literature indicates is more productive than COBOL in terms of time and cost and requires significantly less technical knowledge.¹

Since 1974, Wethersfield, Connecticut (population 29,000) has been using a 4GL for its municipal and board of education computer applications. Wethersfield was the first to use ADMINS, the proprietary trade name of the city's 4GL. In 1981, the system is being used in more than 48 cities and public agencies in the Northeast, Midwest and Pacific Coast area of the United States and in Several European cities. The Wethersfield experience might help other cities draw some conclusions about the ADMINS concept.

THE WETHERSFIELD EXPERIENCE. From 1974-1981, Wethersfield invested less than \$250,000 in its Digital Equipment Corporation (DEC) minicomputer. The DEC/ADMINS system is operated with one full-time and one part-time employee known as information specialists. While Wethersfield's original information specialist has training and experience (programming and systems) as a computer technician, other Wethersfield information specialists do not have computer backgrounds. In other local governments using ADMINS, finance directors, assistant city managers, accountants, tax collectors and police

patrolmen have been among those selected to be information specialists who develop the municipal computer applications.

Essentially, the information specialists have performed the following functions: 1) application "programming;" 2) help other municipal employees "program" with ADMINS; and 3) schedule/monitor the computer use. In Wethersfield, the ADMINS system is being used by the following departments: assessor, engineering, finance, fire, manager, police, public works, purchasing, recreation, social services, tax collection, town clerk and voter registration.

Since its inception, the Wethersfield system has been an on-line, interactive system. A large number of departmental employees serve as computer operators, entering and retrieving their own data on a real-time basis. Several video and printing terminals are located in different departments in Town Hall and in the town garage and the Board of Education buildings, both several miles from Town Hall. As one source reports:

Managers, from departments and division heads to the town manager, also use the machine for management purposes. Because it is not programmed in the traditional way, it is possible to design a report using any information stored in the computer regardless of filing sequence or numbers of different files involved.

Further, new information can be developed by the mathematical computation of recorded data. Therefore, one may develop a report that was unanticipated when basic applications were developed by combining information from a variety of files. Such a program may be designed and produced in a matter of

hours, in some cases, even minutes. By traditional methods, the same process could take weeks, perhaps months, and require the full-time attention of high-priced programmers.²

A smaller number of municipal and board of education employees, including the chief accountant and several finance department employees, actually "program" using ADMINS. These employees were either given personal training by the information specialists or they undertook what is technically called computer-based training (CBT), using a primer, a step-by-step, computer-aided instruction function in ADMINS. The best way to learn a non-procedural 4GL is to actually begin using it. Then, facilitated by the information specialist, the user develops computer applications.

FOURTH-GENERATION LANGUAGES. What can a 4GL do, and what are its limitations? It is not the language of HAL, the computer in the movie *2001: A Space Odyssey*, in which the user talks to the computer and the computer responds verbally, visually or electronically, controlling other machines. While software for such transparent or invisible computer "programming" is available, it is extremely limited. Recently, fifth generation language software was introduced. It questions the nontechnician user via a video terminal, then it writes the computer application program(s). A 4GL does *not* operate this way.

It is convenient to refer to ADMINS as a language, although it is not of the same nature as COBOL, FORTRAN, BASIC or Assembler languages. It is more accurately described as a set of integrated programs used as tools to supply data needs and create a non-technical communication channel between users and the computer without the need for a technical intermediary. Frankly, there is no pat word or phrase to describe ADMINS; "language" is used here as a poor substitute for one. A 4GL, then, is complete and includes all functions needed in a data entry, storage, retrieval and reporting environment, as well as a batch-like maintenance facility and an extremely versatile dynamic file-linking capability.

A 4GL is a relational data management system. It should be thought of, however, as an integrated set of data-handling tools, which makes it more

powerful than what is generally considered data base management. For instance, ADMINS is also a word processing system. While the ADMINS system does support COBOL, BASIC and Assembler languages, ADMINS users never switch to other languages, even when converting existing COBOL programs.

Some 4GLs require conventional programming (in COBOL or Assemb-

This is a societal/managerial issue for the business manager as well as the public manager. For the public finance director in this decade of cutback management, capitalization is a necessary precondition for continually increasing public productivity rates

ler languages) and then provide software to manipulate the data acquired by these programs. For example, with this type of software, a "parameterized" report can be prepared by a nontechnician user, listing all taxpayers in a city's specific geographic area who live in homes built within the past 10 years and are currently assessed at more than \$75,000. A 4GL provides the municipal (nontechnician) user with a total integrated data-handling environment which can perform these major functions:

- 1) Acquisition of external data (via tapes or disks)
- 2) Preparation of external tapes
- 3) Definition of records structures
- 4) Creation of disk files
- 5) File manipulation (sorts, summaries, aggregations)
- 6) CRT-based, update, query and display (one or several related files—split screens)
- 7) Report generation to produce forms, simple/complex management and analytical reports.
- 8) Computation and recoding of values (decision tables, algorithms)
- 9) File linkage operations (link records or whole files)
- 10) Data base administration (file backup, restoration, transaction logging, disk space management, resource accounting)
- 11) Word processing (simple correspondence or complete documentation)
- 12) On-line messages (user to user, computer to user)

Perhaps a 4GL's most powerful fea-

ture is the ability to quickly and easily modify an existing application, create a new application or prepare *ad hoc* reports for operational or management control purposes. The turnaround is hours instead of the usual interval of days or weeks associated with traditional computer programming.

A 4GL provides the ability to reorganize and restructure data as use evolves or analytic requirements emerge. Deriving files, cross linking in unanticipated ways, adding fields to records, building summary files, etc., are straightforward, routine operations.

Is the ADMINS system used by Wethersfield and other municipalities a "computer without programming" system? Yes, in the conventional computer programming sense. It provides persons directly responsible for operations and management—administrators, supervisors and professional/clerical employees—with the ability to design and develop computer applications necessary to support their specific needs. Even though the language is fourth generation, it is a language with a syntax that must be learned to communicate with the computer. The many nontechnician municipal employees who use ADMINS to apply computer technology to their departments' operations, planning and management tasks do not need training as computer programmers, but they must learn the ADMINS functions.

WETHERSFIELD COMPUTER SYSTEM: ACTUAL VERSUS INTENDED RESULTS. An early report on the Wethersfield system³ proposed the notion that ADMINS and other 4GLs would provide a new way of looking at computers—not as computing/analytical machines, but as office machines that would be viewed as electronic filing cabinets, word processors, report generators, planning and design aides, clerical assistants and communication devices.

The report further proposed that Wethersfield would be in a position to move into an electronic automated office environment and to spread the use of personal computing in counter-distinction to organizational computing. The former has been accomplished, but not the latter.

Although user-friendly, the Wethersfield system is still viewed as the organizational computer—a centralized system that primarily performs organization-wide functions. The

countless daily tasks of most municipal employees are still performed manually in Wethersfield and in other municipalities.

ISSUES AND IMPLICATIONS OF COMPUTERS WITHOUT PROGRAMMERS. *Capitalization and the U.S. Economy.* Ours is a service economy. We need to focus on average capitalization rates: \$55,000 worth of capital equipment for each farm worker; \$35,000 worth for each production worker; \$3,000 worth for each office worker. How is the United States going to maintain a productive position in the world economy with such a low capitalization rate in the economy's prime area?

If the United States is to regain its position as a productivity leader among world economies, the country's leaders must recognize the need to significantly increase the capitalization level in the office environment, a major segment of the service economy, in business and government institutions.

This is a societal/managerial issue for the business manager as well as the public manager. For the public finance director in this decade of cutback management, capitalization is a necessary precondition for continually increasing public productivity rates.

Capitalization and Local Governments. Municipalities are obvious prime targets for increased office worker capitalization. An extremely large percentage of employees perform office-type functions and tasks. We are a labor-intensive society with relatively low levels of investment in capital equipment for office workers.

The symbolic history of the computer field includes: electronic accounting machines (EAM); electronic data processing (EDP); information systems. But these are limited symbols; our most important symbol is *electronic*. The electron has been harnessed to improve the effectiveness, productivity and quality of our work environment.

In reality, then, the primary symbol of the field is *electronic*. Its implications are profound. The 1980s and 1990s will witness the evolving of general-purpose and special-purpose work stations in public organizations, as workers struggle to carry their share of increased productivity in a service economy. These stations will probably include combinations of the following:

General-Purpose Work Station

- Electronic filing

- Transaction processing
- Quantitative analysis
- Word processing
- Document preparation, printed and graphic
- Data retrieval
- Document retrieval
- Electronic mail
- Facsimile processing

Special-Purpose Work Station

- Computer-aided mapping (CAM)
- Electronic funds transfer (EFT)
- Teleconferencing (video/voice/documents/computer)
- Computer-aided property pricing
- Computer-aided information and referral (CAIR)
- Electronically prepared documents (photocomposition)
- Voice recognition/voice response
- Remote sensing
- Process control
- Computer-aided/managed instruction (CAI/CMI)

But this shift in symbols from "data/information" to "electronic" raises several issues to be dealt with by all concerned with the organization and management of public agencies. A brief review of two of these issues is presented here.

1. *Need for new organizational-financial policies.* The organizational-financial policy that has tight control over the use of computer technology (capital equipment) in local government organizations has been:

- the technology is very expensive and scarce
- it can only be used if cost-displacement can be established
- use must be prioritized (queued) according to cost-effectiveness ratios
- maximize throughput (Grosch's law of economy of scale)
- maximize investment in the centralized "maxi(s)"
- create a central organizational unit, under the chief executive (no longer the finance director) to insure all of the above are carried out.

While data processing directors did not necessarily create the above organizational-financial policy, they aided the process and now are it staunchest defenders, since it brought with it newfound power, status and position.

This is, perhaps, still a legitimate, necessary organizational-financial policy for municipalities, particularly for organization-wide systems. But most municipal employees, profes-

sionals and administrators particularly do not utilize the electronic technologies directly or personally. Rare is the public professional/administrator who utilizes the electronic technologies for his/her daily tasks, whatever the department—engineering, public works, recreation, fire, building inspection, health, housing code enforcement, social services, etc.

For personal productivity a new organizational-financial policy is needed and should be such that:

- it treats the electronic technologies as widely available at a cost all departments can afford;
- a department can invest in technology and treat the investments as an expendable as long as:
 - cost effectiveness can be established for a period of X years (just like an investment in a payload);
 - the basic return on investment (ROI) approach is used, focusing on cost-avoidance; and
 - the user controls his/her own design and use of the technology with the technologist/specialist playing a facilitator role.

The implications of the necessary, additional policy are that of the total investment a municipality makes in electronic technology capitalization, Y percent (5 percent to 10 percent) must be made available for departmental modernization through increased capitalization for personal productivity.

2. *Need for ROI Approach.* Policymakers want increased public productivity, but are they willing to make the necessary investments in public organizations as they would readily make for private organizations? To date, they have not shown this willingness. For example, the local government investment in computer technologies represents an average of 1 percent of municipalities total operating budgets. Compare this with private industry, the investment is 8 percent to 10 percent. Even this private-industry rate is being criticized as inadequate.

ROI implies capital investments from capital budgets, not capital investments from operating budgets, which is the dominant municipal approach to capitalization in the electronic technologies. Until this approach is accepted and respected in the same way school and road investments are accepted, municipal organizations can only look forward to agonizingly

**Exhibit 1
TRADITIONAL VERSUS USER-ORIENTED APPROACHES
TO COMPUTER USE**

	Traditional	User-Oriented
Accomplished by	specialty trained management analysts, computer systems analysts and computer programmers	users (operating employees professionals and administrators) supported by a data system facilitator
Nature of Process	linear (each phase in sequence) requiring a great amount of interpersonal communication; the phases are: 1) analyze operations 2) conceptualize new system 3) design system 4) develop (program) system 5) test system 6) implement	design and develop as you go by user interacting (communicating) directly with computer
Time Frame (calendar days from start to finish)	weeks to months (usually three to six months)	days to weeks (usually four to six weeks)
Programming Language	extremely technical (machine's own language) or moderately technical (English-oriented computer languages such as COBOL—Common Business Oriented Language)	nontechnical syntax (symbols or abbreviations of English words) which actually carry out complex computer programming functions (technically called a high-level user's language)
Design Medium	standard system symbols and flow charts described in great graphic detail on large pieces of paper	computer video displays stored in computer memory
Basic Perception of System	a logic machine (e.g., can replicate human processes)	an electronic filing cabinet (e.g., faster tool for filing, retrieving and manipulating data)
Starting Point	design for ease of computer	continue what user is doing manually, but let computer reduce manual labor

FOOTNOTES:

- ¹"Assuring MIS Success," *Datamation* (February 1981).
- ²"Computers Speak English," *Public Management* (December 1977).
- ³"Low-Cost Data Management Tools for a Small Municipality" (Storrs, CT: University of Connecticut, Institute of Public Service, December 1975).
- ⁴"The Future of the Finance Directorate," MFOA Study 3 (Chicago, IL: Municipal Finance Officers Association, 1978).

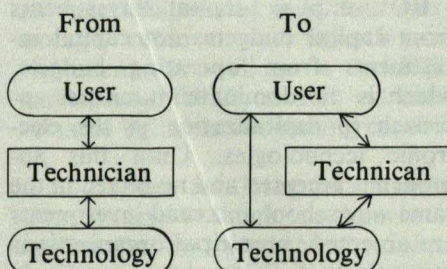
FAITH PEARSON has been an information specialist for the Town of Wethersfield, Connecticut since 1972. Previously she worked with computer systems in private industry for 20 years. In 1975, she installed the ADMINS system for the Town of Wethersfield—the first U.S. municipality to use the system described in this article. Pearson is a past president of Government Management Information Sciences. She received an engineering degree from Purdue University.

MYRON E. WEINER has been a professor at the University of Connecticut for 17 years and has worked with computer systems for municipalities since 1962. Prior to his employment with the university, Weiner worked for state and local governments for 15 years. He specializes in the application of modern technology to municipal management and has written and taught extensively on the subject. Weiner has a master's degree in government management from the University of Pennsylvania Wharton School.

slow increases in the capitalization necessary for significant increases in productivity.

RELATIONSHIPS: USERS, TECHNICIANS AND THE TECHNOLOGY. There is a substantial difference between the traditional approach to computer use, which has dominated the field in the first two decades of this new technology, and the user-oriented, user-friendly approach which 4GLs provide. As a frame of reference, the two approaches are summarized in Exhibit 1.

In essence, the relationships have been altered by 4GL in the following fashion:



More subtle is that municipal users have come to expect someone else to design their office/data systems for them. Specialists must free users of this need. Only users can fashion their own work environments. The technician's role is to facilitate the process through education, experimentation and planning.

SUMMARY. While Wethersfield, along with other 4GL municipalities, is on its way to being a local government having computers without programmers, it is not there yet.

But the technology is only in its infancy. Programmerless computers will come, but they will raise a more fundamental question than just the type/manufacturer of the computer and the software selected by a city. At issue is the way we conduct the operations and management of municipal functions, such as finance, indeed the very role of the finance professional.⁴ While this issue is threatening, it also is an exciting challenge. It comes at the time when society needs it most.

Computer Firm Targets Municipalities

By GAIL PALMER

An admitted "workaholic," Faith W. Pearson returned from her second retirement to establish a computer organization that is impacting municipalities and public agencies from Farmington and Avon to Ventura, Calif.

The Farmington resident founded MISTI (the acronym is short for Management Information Systems and Training, Inc.) a computer firm through which towns find they are able to "borrow" programs from one another and adapt them to their own needs.

And, through a unique barter-type arrangement, she has established a computer center in Farmington Town Hall that could ultimately offer as many as 30 lines accommodating eight towns.

For providing the space for the hardware, Farmington obtains a free line into the computer center.

Other municipalities are being offered the opportunity to "buy in" to a line at \$1,500 per month; it would cost them an estimated \$100,000 to \$350,000 to buy their own computer system.

"We've had a lot of towns that are interested in something they could go on line to, without having to buy their own computer," she said.

Already, she said, Avon and Plainville Town Councils are discussing the possibility of linking up with the sophisticated system.

WHAT CAN THE COMPUTER do for these towns?

It can compile and print payroll reports, benefits reports, pension studies and employee merit review schedules.

It can keep track of overtime records and of investments, of dog licenses and fishing licenses.

It can locate the areas where most potholes occur when a town is evaluating future road reconstruction activity, as they did in Ventura, Calif.

And it can even help capture a rapist, as it did in one Connecticut town.

In the latter situation, Mrs. Pearson said, police had only a description of a car to go on. At their request, she fed tapes supplied



Faith Pearson demonstrates an ADMINS computer system in the West Hartford office of MISTI, the computer firm she heads.

Staff Photo by Gail Palmer

by the state Motor Vehicle Department into the computer and within about a half hour printed out a list of owners of similar vehicles and their addresses.

Using this information, police found the rapist.

It also can provide tracking information on traffic, crime and other police-related information.

Although the computer itself is located in the small room in Farmington, communities "buying in" have instant access through their telephone and a printer located in their own offices.

To the uneasiness with which municipal employees sometimes greet the arrival of computers in their offices, Mrs. Pearson says, "nobody ever lost his job ... they just

a technician.

"It's really fun to see somebody really take it and do what they want with it."

She discovered the potential of the ADMINS computer program in 1974 when she came out of her second retirement to join the staff of the Town of Wethersfield as information specialist.

Her previous career path took her from an engineering post at Hamilton Standard Division of United Technologies (then United Aircraft Corp.) to Connecticut General Life Insurance Co., where she was a programming supervisor in the '60's.

She retired while she and her husband — president and board chairman of the Bloomfield-based Pearse-Pearson Company — built their home on Ely Road in Farmington and moved from West Hartford.

But once they were settled, the restlessness set in, and she accepted the Wethersfield position.

"MY HUSBAND SAID, 'you're not going to get as involved as you usually do, are you,'" she recalls with a laugh, "and I said, 'oh, no!'"

Now, the versatile, friendly, soft-spoken woman heads a firm with 14 employees — most of whom express awe at her energy level — and does much of her paperwork on planes while en route to California or Florida.

She has been elected president of Government Management Information Sciences, a national organization of data processing managers, and has established a headquarters office in West Hartford Center.

The office exists "to answer customers' questions and maintain our books," she explains. The seven full-time and seven part-time employees work with customers in their own offices, designing and adapting individual programs.

They have taken the ADMINS, Inc., computer systems — developed by two principals in a 10-year research project at the Massachusetts Institute of Technology — to municipalities, libraries, universities, court houses and other applications in the public sector throughout the country.

get more information than they ever had before, more timely and accurately."

But, she adds, "it does mean that, as they grow, towns don't have to add personnel."

MOST SIGNIFICANT in the case of the ADMINS computer system, according to Mrs. Pearson, is the fact that a municipality doesn't need programmers in order to effectively program their own data base management system.

In fact, she cites towns such as Manchester, Conn., where two police officers wrote and programmed their own system to "do a lot of investigative kinds of things."

Government leaders find the system exciting, she said, because "you don't have to have experts to run it; you don't have to be

Headlines and Headliners

Mundy's New Title Won't Be Chief Appraiser

By PORTIA

Tarrant Appraisal District head Bill Roberts has denied rumors that recent TAD hire Leland Mundy is being groomed to take over his chief appraiser position.



Bill Roberts

But he did admit that the TAD board of directors has been "keeping an eye out" for a suitable candidate for the job. The rumors began circulating after Mundy was hired to do financial work for TAD last month but was not given a job title. Mundy, who was first assistant to retired County Auditor Jack Benson for 14 years, still doesn't have a title, Roberts said, although "director of accounting" and "director of budgeting and purchasing" have been tossed around. Roberts said he has a "gentleman's agreement" with the TAD board to remain at his post for at least two years and has no plans to leave with only 16 months under his belt. "The board told me that if I could find a suitable candidate for an understudy, to bring them in and put them on the staff and I have done work to that end," Roberts said. "However, we now have three new board members and we've decided to wait on that. There's no rush to have the job filled just to have it filled. They're more interested in finding the right person." New board members include former Arlington city manager Ross B. Calhoun, Arlington contractor E. Roy Harry and James K. Norwood, a professional fee appraiser from the Mid-Cities area. Outgoing board members are Gaylon Mayfield of Bedford, attorney Bill Brown and engineer Herman Veselka.

ARTS PATRONS will enjoy a holiday buffet and music for dancing tonight at the palatial Westover Hills home of Van



Van Cliburn

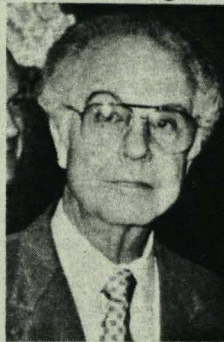
Cliburn. The \$250 per person black tie gala will benefit the Van Cliburn Foundation. Last night, partygoers had the privilege of paying \$1,000 per person to sit at Cliburn's table or \$500 per person for a reserved table in the Tapestry Room of the mansion that formerly belonged to

Kay Kimbell. Last night's festivities included caroling in the drawing room. Honorary chairmen of the benefit committee for both events are Mr. and Mrs. Perry R. Bass, with Mr. and Mrs. Lee A. Smith and Mr. and Mrs. J. Don Williamson as co-chairmen. Vice chairmen include Mrs. Joseph D. Ambrose, Mrs. Glenn Darden, Mrs. William S. Davis, Mrs. Hedrick Fender, Mrs. Theodore P. Gorski Jr., Mrs. Edward R. Hudson Jr., Mrs. Elton M. Hyder Jr., Mrs. Hugh Lamensdorf, Ms. Henry L. Luskey, Mrs. Richard W. Moncrief, Mrs. Barclay R. Ryall, Mrs. Byron B. Searcy, Mrs. Ogden Kelly Shannon III, Mrs. Sterling W. Steves and Mrs. Joe A. Tilley Jr.

A FUNDRAISER FOR SHERIFF Don Carpenter's re-election campaign drew approximately 800

Sheriff Don Carpenter and included John McMillan, Dee Womack, County Judge Roy English, J.A. Garrison, Ed Wilke, Nat Summers, Larry and Donna Bunnell, Rev. Homer Ritchie, former sheriff Lon Evans, Jess Kinnaird, James and Tom Leggett, Charles Tidwell, Dan and Nancy Wegmack and Larry and Carolyn Meeks. Food was provided by Vance Godbey.

AN INTERESTING mix that includes a former Fort Worth police chief, newspaper publisher, grocery store owner, realtor and businessman



Herbert F. Hopkins

were appointed to the new city Racetrack Development Policies Advisory Committee Tuesday. The former police chief is Herbert H. Hopkins, appointed by Mayor Bob Bolen because of Hopkins' experience as a racehorse owner and his law enforcement background. Councilman Estil Vance Jr. appointed former *News-Tribune* publisher Madeline Williams; Councilman Louis Zapata named Charles (Chuck) Tegethof, a North Side businessman and a former Zapata campaign treasurer; Russell Lancaster appointed East Side business leader Alex Jimenez and Gary Gilley appointed his long-time friend, Tommy Welch, a realtor. The panel was charged to study those issues which "might impact the city if a Class 1 or Class 2 track is developed in or near the city," Gilley said. It was his suggestion that the committee be formed. The panel will look at six broad issues: zoning, traffic access and circulation, impacts on future capital improvement projects, controls the city will have for tracks planned on land outside the city limits (traffic impact analysis and platting), public safety and economic impacts. Mayor Pro-tem Bert Williams, Councilwoman Virginia Nell Webber and Councilmen William Garrison and Steve Murrin will make their appointments at a later date. Gilley said the establishment of the committee authorized staff travel to nearby cities with racing sites for consultations with city officials there on racing's impact. He wants the committee to report its findings to the city council by Feb. 1, 1988.

DENNIS SHEEHAN, 33-year-old attorney with the Haines & Boone law firm here, will announce his candidacy for Tarrant County Democratic Party chairman at a press conference this morning. Sheehan, a Fort Worth native, has been active in a number of political campaigns including U.S. Sen. Lloyd Bentsen's races in 1976 and 1982, former Congressman Bob Krueger's try for the U.S. Senate nomination in 1984, and Gov. Mark White's re-election campaign in 1986. County Democratic Chairman Betty Fisher has announced she will not seek another term.

VICTOR HENDERSON has filed for re-election to the Tarrant County Water Control and Improvement District No. 1's board of directors. The Fort Worth petroleum engineer was appointed to the board Nov. 15, 1985 to fill the unexpired term of Robert Alexander who died in office. Two

Newton. All three terms end Jan. 1, 1988. Candidates must file at the district office on Northside Drive. Filing closes Dec. 28.

ALTHOUGH CENTRAL BANK and Trust seemed the hands-on favorite for a Tarrant Appraisal District depository contract last month, the bank did not participate in a second round of bidding this month, prompting the TAD Board of Directors to keep its approximately \$1 million in reserves at River Plaza National Bank. After looking at the first set of bids issued last month, directors decided that bid specifications were unclear and advertised for new bids. Although MBank's bid was competitive with River Plaza's in the recent bidding round, directors decided to save the costs of changing banks. Chief Appraiser Bill Roberts, who praised Central's "financial soundness" at October's meeting, said he was not sure why the bank did not re-bid. "I guess we're not very attractive now that we only have approximately \$1 million in reserves and interest," he said.

MAYOR BOB BOLEN is sleeping a little easier this week after checks totaling \$800,000 landed on his desk, honoring two more outstanding pledges for the Western



Bob Bolen

Currency Plant to be built in North Fort Worth. "Those checks leave us within shooting distance of our goal," Bolen said. "We're about \$1.2 million shy but I am really heartened by those fairly large pledges being honored. We now have enough money in hand to get the plant under construction." Fort Worth won out over 80 other cities including Denver and Las Vegas as the site of the new currency printing plant because it offered the government a turnkey, no-cost deal worth \$15-plus million that includes a 100-acre site, security fence, plant and museum shell. The city will extend water and sewer lines to the site and Tarrant County commissioners volunteered their crews and equipment to clear the site, which was donated by William Y. Harvey and Associates. Bolen said the tough economic times that struck the area shortly after Fort Worth was selected for the plant slowed the honoring of the pledges. "Many of the firms and individuals who pledged money or services wound up being sold or going out of business but most of them are coming through," Bolen said. Construction bids for the plant are now being evaluated by the staff and all appear to be well under estimated costs, another bit of good news, Bolen said.

ANNABELL MASSEY, the public relations doyenne at All Saints Episcopal Hospital, is leaving after Christmas for a new job as vice president of marketing for Care One Health Systems in Zanesville, Ohio. Ms. Massey, a Fort Worth native and a graduate of Western Hills High School, joined the All Saints public relations department 11 years ago after serving

VOLUNTEER SPOTLIGHT

DANNA LEVY



retired Chief Executive Officer of the Center for 36 years, "Both Danna and the late Dr. Louis Levy were original supporters of the Child Study Center. Dr. Levy was instrumental not only in making the Center a reality, but in getting the support of the Rotary Foundation, one of the first charitable contributions. Danna is one of the most dependable, pleasant and supportive volunteers any organization could have."

Danna remembered some fun times. "I used to have a lot of fun preparing food for the Calico Kitchen fund-raisers. I remember when it was just a bake sale. That was before we started baking and delivering bundt cakes. If I had a nickel for every cake I've baked over the years!" she laughed. Danna also remem-

bers the holiday parties and smiling children. "The Center has been a wonderful place to volunteer, and I enjoy all the people there."

She brings joy to others. "Through the years", said McCarthy, "Danna has supported almost every activity sponsored by the

Center. She's a very important person and a treasure to all of us. She has brought joy to the lives of children who have some difficult challenges in their lives."

Thank you Danna for your many years of service!

"Oh, dear, I can hardly remember how long I've been volunteering for the Child Study Center," Danna Levy winked. "And I've slowed down a bit recently," she sighed. The mother of three, grandmother of eight and great-grandmother of seven, Danna was one of the original volunteers when the Center saw its first patient in 1962.

She also served as a charter member of the Auxiliary established in 1967. That's nearly 40 years, any way you look at it!

"Whether it's stuffing popcorn bags for the holiday party or placing labels on the newsletter,

Danna is always gracious and willing," said Ellen McCarthy, Vice President of the Child Study Center Foundation. "She's been a valuable advocate of the Center, inviting her friends to get involved."

Added Larry Eason, founder and recently

DR. MAUK

continued from cover

who is concerned about a child showing developmental differences. As early as birth, or at the very first sign that causes a concern, an evaluation by a developmental specialist may be indicated and can be very helpful. Those children with risk factors should be followed carefully.

Here at the Child Study Center, our staff represents many experts in developmental assessment and treatment, such as developmental pediatrics, child psychiatry, pediatric psychology, speech and language therapy and audiology.

We are ready and willing to meet with any family and discuss what we can do to help bring a child's potential to light!



THERE ARE MANY WAYS TO GIVE

You can help the Child Study Center by planning ahead. Many individuals make provisions in their estate planning. Provisions can be made in your will, a charitable remainder trust created or appreciated stock given. When you name the Child Study Center as a beneficiary, you have many choices. One possibility is a bequest of a fixed dollar amount. Another is to give a percentage of the estate. Your gift can also be contingent, allowing the funds to go to an individual if that person survives you. If not, then it would be paid to the Center. Many people create trusts which pay an income to

an individual for life, with the remaining principal to be given to the Center after.

One of the nicest things you can do is to make your gift in memory of someone --- either a family member or a person you've loved or admired. We're pleased to honor this kind of request, and we have many ways of granting appropriate recognition. If you would like more information on how to include the Child Study Center in your estate plan, call the Child Study Center Foundation at 336-8611 x 203.

SPOTLIGHT ON MARIE LOUISE COLE



One of our most loyal and steadfast volunteers is Marie Louise Cole. Her association with BRIT dates back to 1988 before the collections from SMU were moved across the Trinity River. She has served as plant mounter, docent and, for the last six years, filer. Her most recent endeavor has been changing old genus covers to archival-quality, color-coded folders. After a two-month stint, the entire legume family is now housed in colored folders that point to a geographical area.

Marie Louise is no stranger to volunteering. She's been involved with the Girl Scout program for many years and is currently a member of the Friends of our Cabana in Mexico and an outdoor trainer of leaders in the local council. An avid walker, another of her interests is an offshoot of American Hiking Society. Twice yearly, she helps their trail-building efforts in northwestern Arkansas. She says bending and stretching to reach folders in storage cabinets at BRIT helps her fitness program, and the opportunity to learn about plants and geography suits her as well.

We appreciate the opportunity to work with Marie Louise Cole.







Esther Huckaby and Lesbia Roberts



Norma Green, Bettye Palmer and Dorothy Keeton



*Polly Leonard
and Glenda Parker*

WOMEN OF ROTARY INSTALLS OFFICERS

The Women of Rotary installed new officers at a recent luncheon at Ridglea Country Club. Lesbia Roberts became the organization's 55th president.

Photos: SHARON CORCORAN



Opal Carson, Nona Cobden and Danna Levy

WOMEN OF ROTARY CELEBRATE

Women of Rotary celebrated a 50th anniversary last week with a party at Ridglea Country Club.

Photos: GLENN KILLMAN



Carol Blais and Lois Freeman



Nona Poston

*Nonna here
is a copy of what
I sent to Ester
Have her change
to suit you if
it does not meet
your approval -
Opal C.*

LOOKING AT HISTORY

Fort Worth Women of Rotary was organized at a luncheon meeting on February 27, 1947 in the ballroom at Colonial Country Club in Fort Worth, Texas.

The luncheon was a culmination of a visit Fort Worth and Dallas Rotary Anns had at a Rotary International meeting in Florida.

Rotary Anns were called by telephone to make reservations for the meeting. A large group came, also a few women from the Dallas Club to help with suggestions.

Maxine Baker, wife of Edward L. Baker of the Downtown Club, was selected as Temporary President, and a committee to draw up a constitution and by-laws was appointed.

The meeting time was to be the first Thursday in each month, from October through May. The next meeting to be the first Thursday in March. All members paying \$5.00 dues that day were Charter Members. Maxine Baker was elected President, the Committee reported. It was decided to have all meetings, both regular and Executive Board, at Colonial Country Club, with lunch each meeting. When in 1953, the Country Club kitchen was destroyed by fire, we met in a tent for our meetings, and had lunch catered.

In 1983, we moved to Ridglea Country Club, and decided on lunch only at our regular meetings. Our Executive Board meetings, as always, would be on the third Thursday at 10:00 A.M., but would be a brunch in the members' homes, with at least three hostesses.

We continue to do this routine in 1996-1997.

Opal Carson

Large local government entity in North Texas wishes to hire Data Processing Manager. Must be well versed in data processing technology and have an extensive T.P. background. Must be an efficient manager and able to communicate with officials and department heads. This is a new installation and the person hired will be instrumental in planning the system. Salary will be commensurate with qualifications. Excellent fringe benefits and retirement plan. Please send complete resume and salary requirement to Box 628-DN, The Wall Street Journal

Roberts is named to data post

William Roberts, 57, has been named data processing manager for Tarrant County.

He was picked for the newly-created \$18,000 per year post at an executive session of Commissioners Court Friday, beating out 56 other applicants for the job.

His chief function will be to co-ordinate the in-house computer system county commissioners hope to create in the next year.

A Fort Worth resident, Roberts will be leaving a job in Dallas County government, where he was assistant data processing chief.

"His selection was unanimous. We are lucky to be getting him with his experience in county government," Auditor Jack Benson said.

"Dallas has one of the most sophisticated computer setups in the country."

Roberts will assume his new duties Aug. 1, and will work from the auditor's office.

Commissioners Knock 2 Cents Off County Tax Rate

Tarrant County commissioners today made it official — the county tax rate will be reduced by 2 cents.

In two separate motions this morning, the commissioners unanimously voted to combine the road and bridge funds with the county general fund and to reduce the combined tax rate from 88 cents per \$100 valuation to 86 cents.

Commissioners maintained the county's right-of-tax at 29 cents per \$100 valuation, and on the recommendation of the Tarrant County Hospital District board, maintained that tax rate at 75 cents.

PROPERTY OWNERS will see the results of the 2-cent reduction in October when they get their tax statements.

A property owner whose home has an assessed value of \$10,000 will save \$2 a year with the new tax rate.

Both the combining of funds and the tax reduction came on motions from Commissioner Dick Andersen, who is up for re-election in November.

The only possible opposition to the move, from Commissioner George Richardson, did not materialize in the open meeting.

Richardson has been seeking a unit system for commissioners' precinct operations.

The combining of the two funds is a very limited version of Richardson's idea.

RICHARDSON said after the meeting, "I thought of making a motion for the unit system but realized that I didn't have the votes. I couldn't even have gotten a second."

The concept of combining the funds so that the county could afford a tax cut was introduced Friday when Richardson was absent.

In order for him to push for the total unit system, he would have had to oppose the tax decrease.

One of the backers of the tax proposal was Commissioner Jerry Mebus, who had been the most outspoken opponent of the unit system.

Richardson said that in combining the road and bridge and general funds, Mebus actually has the most to lose — Mebus has a \$400,000 surplus in his precinct's road and bridge fund.

MEBUS' SURPLUS will now become part of the general fund.

Richardson said, "This is at least a step in the right direction . . . we can do more on the unit system later."

County Auditor Jack Benson, who made the two recommendations today, gave Commissioners Court an estimate of 1973 receipts and expenditures which balanced at \$16,108,260.

He said that the cut in taxes will mean no decrease in county services.

Included in Benson's estimates were a number of new expenses for the county in 1973.

Two in particular stand out — a 4 per cent cost of living increase for county employes (\$348,000) and a computer start-up fund of \$250,000.

IN OTHER action, commissioners voted to reapportion about \$272,000 in federal emergency employment funds.

As of Nov. 1, the county will be cut off in one section of their Emergency Employment at funding.

The cut, totaling \$344,000, will affect some 76 employes who are working for various governmental units around the county.

A representative from Benson's office said that he expects that about 50 per cent of the employes will be retained by the county.

Formerly, Tarrant County operated under Section 5 and Section 6 of EEA.

Section 6 was for areas with "emergency employment needs." That section has been dropped for Tarrant County because the federal government no longer considers the county unemployment rate an emergency situation.

STAR-TELEGRAM - SAT. MORN. JULY 8, 1972

Hospital Board to Review IBM Contract Decision

The Tarrant County Hospital District board will meet at 1 p.m. Wednesday to reconsider its decision last week to give IBM a contract to help Peter Smith Hospital develop its proposed in-house computer system.

With five of the seven board members present, the board voted three to two to contract with IBM over the stiff objections of board member and county auditor Jack Benson.

Just before the board met to discuss Mental Health and Mental Retardation Center business Friday, Benson asked that a meeting be called to reconsider the matter.

He said he believes there are misunderstandings about the contractual nature of the arrangement with IBM.

The hospital administration recommended IBM be given the project of helping the hospital develop its data processing programming, largely because the company has unusual expertise in hospital programming and because its representatives have already been working with hospital personnel.

CARMICHAEL



COMPREHENSIVE PROGRAM SOUGHT

Board Okays MH-MR Study

A study which may lead to a program of comprehensive services for emotionally disturbed children in Tarrant County was approved Friday by the Tarrant County Hospital District board.

The board, which also doubles as the Mental Health and Mental Retardation Center board, also approved a tentative budget for MH-MR services next year.

The budget, based on estimates of state allocations, will provide only for maintenance of present MH-MR programs, and will allow little or no expansion or additions.

The board approved a \$3,605 contract with the firm of Christian, Miller & Honts, Inc., under which the firm will find what services for emotionally disturbed or mentally ill children now exist and will determine what needs are not being met.

THE FIRM THEN will in-

vestigate sources of funding — local, state and federal — which will support a comprehensive program, and will write grant applications.

MH-MR Center Executive Director Tommie Duncan said several agencies now provides services for emotionally disturbed children.

However, he said there are many "cracks" that children with needs fall between and that many agencies now providing services, such as the Child Study Center, have long waiting lists.

He said many children, especially those from poor families, are receiving no help at all.

The comprehensive program envisioned would use the services of existing agencies and programs, coordinate those programs and add new services.

Duncan said to his knowledge no city in Texas would have as thorough a system of services to mentally retarded children.

THE BOARD ALSO approved a 1973 budget of \$2,846,537 for the MH-MR Center, which represents a 15 per cent "cost of living" increase over last year's.

The budget, as well as budget projections for 1974 and 1975, has to be approved prematurely because the state department of MH-MR requires that the budget projections be in Austin by Monday.

Duncan said the budget figures are "guesstimates" because the center does not know yet what the state legislature will allocate to community MH-MR Centers.

The legislature was asked to allocate \$10.5 million to the state's MH-MR Centers, but

Duncan said it now appears the allocation will be about \$7.5 million. The Tarrant County center's budget therefore is based on the lower figure, but can be adjusted if the appropriation is higher or lower.

Representatives of the MH-MR Center's two mental health and mental retardation advisory committees expressed concern that the budget will not allow expansion of MH-MR services.

THE 1973 BUDGET, they said, only "holds the line" on present services being provided for 3,310 mentally retarded persons and about 9,400 mentally ill persons.

It is estimated, they said, that 23,000 retarded persons and 35,000 mentally ill persons live in Tarrant County and need services.

"These facts show the great unmet need," Duncan said.

He said if the state does appropriate more than the \$7.5 million, of which about \$600,000 would be given Tarrant County, the advisory committees will return to the board with recommendations for expansion of programs and additions of new ones.

Among pressing needs, Duncan said, are residential and day care centers for the mentally ill and more facilities for vocational training for the retarded.

HE SAID OFFICIALS at the Wichita Falls State Hospital say about 75 of 300 Tarrant County residents in the hospital could be returned to Tarrant County if the county

had places for them to live and programs for them.

He also said many persons released from the Peter Smith Hospital psychiatric ward and Elmwood Sanatorium have nothing to do except return home, stay under medication and "stare at four walls."

"This is not the best way to exist," Duncan said.

He said the center will at least be able to add a new program of activities for the mentally ill next year, starting with 15 to 20 people.

Hospital Board 'Suspends' Contract for Computer System

Members of the Tarrant County Hospital District Board in effect suspended Wednesday a contract with IBM that they had approved by a split vote little more than two weeks ago.

The move was made in spite of the possibility of a damage suit for breach of contract.

Board members approved a motion by Hugh Parmer that a decision on the contract to help Peter Smith Hospital develop a proposed in-house computer system be delayed until the board's August meeting.

Hospital administrator Wil-

liam Taylor pointed out that IBM personnel already were on the job and that work would have to be suspended.

Wednesday night, Taylor said he had talked with IBM officials for their reaction and, while he received no formal response, he said they indicated they would go along with the delay.

The action will give county officials time to draw up specifications, which will be put out for bids, on a computer system the hospital district will share.

County Auditor Jack Benson, a recently appointed

board member, had asked that the matter be brought up again at Wednesday's meeting and reiterated his opposition to the contract.

Claiming that it was an "open end" arrangement,

Benson declared that the district might wind up paying "thousands of dollars, maybe tens of thousands of dollars" more than the face value of the contract.

He pointed out that county

commissioners had not yet decided what brand of computer "hardware," or machinery to use and any system or programs that might be developed for hospital administration be designed to fit in with any equipment.

Benson moved that other companies be asked to bid on the services. He later withdrew the motion.

Jira Morgan, the county's legal adviser, pointed out that IBM might feel entitled to damages if other firms were allowed to bid for a contract that already had been signed.

Taylor noted that one reason IBM was chosen was be-

cause of their prior experience in designing systems for hospitals and reminded board members that the board had paid IBM \$13,000 for system development during Phase I of the hospital's building program.

Benson, County Judge Howard Green and Commissioners Dick Lewis, Jerry Mebus and Dick Andersen, said the board might get a better price and a better contract if it invited competitive bidding.

Andersen contended that other firms might not want to bid on a county computer system if IBM already had designed the system.

Thursday Morning, July 13, 1972

EDITORIALS

Commissioners Act for Better Government

It has been said, and with good reason, that county government in Texas is a horse-and-buggy operation in a jet age.

This saying, however, is much less applicable to Tarrant County now than it was only a few years ago, and recent developments indicate that the county is sincerely trying to find new ways to get more efficient, less expensive government — all of which is very good news indeed for Tarrant County taxpayers.

Earlier this month, county commissioners agreed unanimously to adopt a modified "unit" plan of government. This was done by combining the road and bridge fund with the general fund. The road and bridge fund previously had been a separate fund, with each commissioner controlling one-fourth of it. Because commissioners agreed to give up surpluses which had accumulated in these funds, Commissioners Court was able to grant a 2-cent county tax reduction for fiscal 1973.

Combination of these funds certainly was an idea whose time had come, and Commissioners Court deserves a vigorous round of applause for taking this beneficial step.

But there's more good news from the Courthouse.

Precinct 4 Commissioner George Richardson last week suggested another consolidation step — this one a transfer of the county's central garage, complete with the notorious "little red gas pump," from Precinct

4 control to that of the county public works department.

Commissioner Richardson proposed this action as a followup to the earlier funds consolidation, saying that it would save the county "a little" money. In our opinion, it is an eminently worthwhile suggestion, and while the cash savings may not be dramatic it is another step in the direction of getting the most benefit from the taxpayer's buck.

In still another forward-looking development, a proposal to set up a nine-member city-county health committee as the next step toward merging permanently the city and county health departments will be offered Monday at the meetings of Commissioners Court and the Fort Worth City Council. The aim will be to find the most effective means of organizing and financing a joint city-county health department.

This is one of the fruits of the labors of the city-county liaison committee composed of council members Margret Rimmer and Jess Johnston and Commissioners Richardson and Dick Andersen.

The above-named commissioners, together with their colleagues County Judge Howard Green and Commissioners Jerry Mebus and Dick Lewis, are doing good things for the people of Tarrant County. They are taking seven-league strides toward building up a new and better image of county government suited for the times in which we live.

FORT WORTH PRESS - Wednesday, August 23, 1972

County to ask computer bids within a week

The county will call for bids on its new computer system within a week.

County Auditor Jack Benson said today a meeting has been set up for tomorrow to review specifications.

He said that corrections will be made within the next couple of days and companies will be asked to bid before Aug. 31.

"They'll have two weeks to respond," he said. The bid requests will be sent to eight or nine companies. The com-

panies will be bidding on a lease and a lease-purchase arrangement.

The computer will be used by the county and hospital district. Operations will cost between \$500,000 and \$600,000 a year. Benson said he could not say how much the computer itself would cost.

Operations will be financed by the county and hospital district with some funding possible from Texas Criminal Justice Council.

Benson said delivery date might be by March. The computer will be used for payrolls, hospital records and billing, voter registration, and criminal justice data.

STAR TELEGRAM - FRIDAY EVENING, AUG. 25, 1972

Commission Will Ask Computer Center Bids

County commissioners Monday will ask for bids on the county's forthcoming computer center.

County Auditor Jack Benson said that the bids will be on both the computer equipment and certain portions of the computer programs.

Benson would not say what the estimated cost of the contract will be. However, he said he expects the computer will cost the county from \$500,000 to \$600,000 a year after it becomes fully operational.

The computer is expected

to handle various chores for county law officers, the Tarrant County Hospital District, the county tax assessor and county clerk.

The county once asked for federal funding for their computer but were turned down.

Federal officials gave among their reasons that their funding program was not set up to help counties start a computer program from scratch.

Commissioners expect that once the computer center is in operation, the federal government will help pay for its expansion.

Hospital Drops Data Processing Issue

By KATHI MILLER

The issue of a data processing service contract for Peter Smith Hospital was temporarily dropped by the hospital board Tuesday.

The board also referred to committee a "fiscal responsibility" proposal offered by board member Hugh Parmer, a proposal that partially grew out of the computer programming dispute.

Since June the board has been arguing over whether to award IBM a contract to help Peter Smith develop programming for the new computer system the hospital will share with the county.

Tuesday, Peter Smith Administrator William Taylor recommended that the agreement with IBM "be forgotten at this point."

Taylor recommended in June that IBM, which already had technicians assisting the hospital, be given the programming contract.

HE SAID IBM had the necessary expertise, plus was already familiar with the hospital's requirements.

However, board member and county auditor Jack Benson said the contract should be put out for bids.

The board first voted to give IBM the contract, then in July reversed its vote and suspended a decision until this month's meeting.

In recommending that the subject be dropped, Taylor said the time slippage in-

involved in the debate had been enough to make it apparent that the new computer system could not be put into operation by next May, when the hospital's present contract with Electronic Data Systems in Dallas expires.

The hospital has wanted its own "in-house" computer system because the arrangement with the Dallas firm has proved expensive and inefficient.

Taylor said it is no longer prudent to try to set up the in-house system by May, "but rather instead to try to perfect what we will inherit in the way of programs from EDS, cleaning them up as much as possible."

He recommended postponing any further consideration of a programming development contract until "we see how things are going to go with the development of the (computer) center itself."

TAYLOR SAID the move will be satisfactory with IBM.

Four members of the board were named to a committee to study Parmer's proposed amendment to the by-laws, which would call for requests for major unbudgeted expenditures to be on the board's agenda twice before a vote is taken.

Parmer originally gave \$5,000 as the minimum expenditure the board should consider at two meetings, but Tuesday he revised the figure to \$10,000.

He said he proposed the amendment because he felt the board was being presented with too many "emergency" situations and called on to approve large expenditures without time to study them.

He and Benson, who supported his proposal, said they did not intend to imply that either the administration or board had been fiscally irresponsible, but simply wanted to insure that the board would have sufficient time to study requests.

PARMER SAID the board could suspend the amendment any time a real emergency situation existed.

Board Vice Chairman Clifford Davis, however, offered an objection to the amendment, although he said he favors the spirit of the proposal.

Davis pointed out that the hospital is involved in construction involving frequent change orders, and that delay in approving the orders could cost the hospital unnecessary money.

He suggested that in place of the amendment the board establish a procedure by which board members would be informed of requests for expenditures 10 days before meetings, or far enough ahead of time to insure time to study the matters.

Parmer asked for a non-binding "straw vote" of the five board members present. Three members — Parmer, Benson and Lyn Gregory —

voted for the amendment, but Marvin Stetler voted against it and Davis said he would have opposed it had he not been presiding.

Parmer, Benson, Davis and Gregory were named to the committee to study the proposal.

Officials Launch Computer Tour Of Three Cities

Two Tarrant County commissioners Monday boarded a plane with other county representatives to begin a two-day tour of computer operations in Houston, Atlanta and Charleston, S. C.

Earlier Monday, Commissioners Court approved a request from County Purchasing Agent Ed Smith to advertise for bids for a county computer center.

Accompanying commissioners on the computer inspection tour are District Clerk Jim Boorman, County Engineer LeRoy Erwin, county data processing manager Bill Roberts, Sheriff Lon Evans and Asst. Dist. Atty. Rufus Adcock.

The Tarrant delegation will look at only the computer systems of Honeywell Corp.

Commissioners earlier went to Dallas to see an IBM operation.

Trips by County Officials Draw Questions, Criticism

Fort Worth Bureau
FORT WORTH—Should Tarrant County commissioners take trips as guests of a firm which is seeking a lucrative courthouse contract?

That question arose anew Tuesday after Commissioners George Richardson and Dick Anderson, who have made repeated trips since becoming courthouse officials, left on a tour arranged by the Honeywell Corp.

The firm hopes to get a contract from the county for computer equipment which could cost more than \$500,000.

Richardson and Anderson said Dist. Clerk Jim Boorman, Sheriff Lon Evans, Public Works Director LeRoy Evans, an assistant district attorney and a computer technician would join them on the flight to Houston, Charleston, S.C., and Atlanta, Ga.

County Auditor Jack Benson said he was advised that Honeywell would provide transportation while taxpayers would pay for meals and hotel rooms.

Richardson and Anderson said the trip would give the group a chance to study computers in operation under conditions similar to those expected here. They said it could lead to a savings for taxpayers.

Critics argued:

• The trip could influence the commissioners to favor Honeywell when they consider bids on the computer system after they are opened Sept. 18.

• They could study computer operations without taking such a lengthy trip.

• There was no need for such a large group to make the trip.

Benson noted there are precedents for the trip since commissioners and other courthouse officials took a trip to view voting devices in use with the manufacturer paying for meals and hotel rooms.

Richardson and Anderson received strong criticism last year when they flew to Hawaii at the expense of taxpayers to attend an environmental conference.

3-CITY TOUR ON TAP County Chiefs to See Computers

A six-man team from Tarrant County will make a three-city tour Monday and Tuesday to look at computer operations.

Making the trip, which is sponsored by the Honeywell Corp., will be District Clerk Jim Boorman, County Engineer LeRoy Erwin, Bill Roberts, county data processing manager, Asst. Dist. Atty. Rufus Adcock, and Commissioners Dick Andersen and George Richardson.

The Tarrant team will look at the computer system for the city of Houston, the criminal justice computer system in Charleston, S.C., and visit Honeywell's operation in Atlanta, Ga.

Honeywell is among "six or seven" computer firms that the county is considering for its proposed computer system, County Auditor Jack Benson said.

Benson said a delegation al-

ready has looked at the IBM computer in Dallas.

Tarrant County commissioners will ask for bids Monday on the county's computer center.

Benson, who said the computer will cost the county from \$500,000 to \$600,000 a

year after it becomes fully operational, said the bids will be on both the computer equipment and certain portions of the computer programs.

Delivery on the computer is not expected until next spring, Benson said.

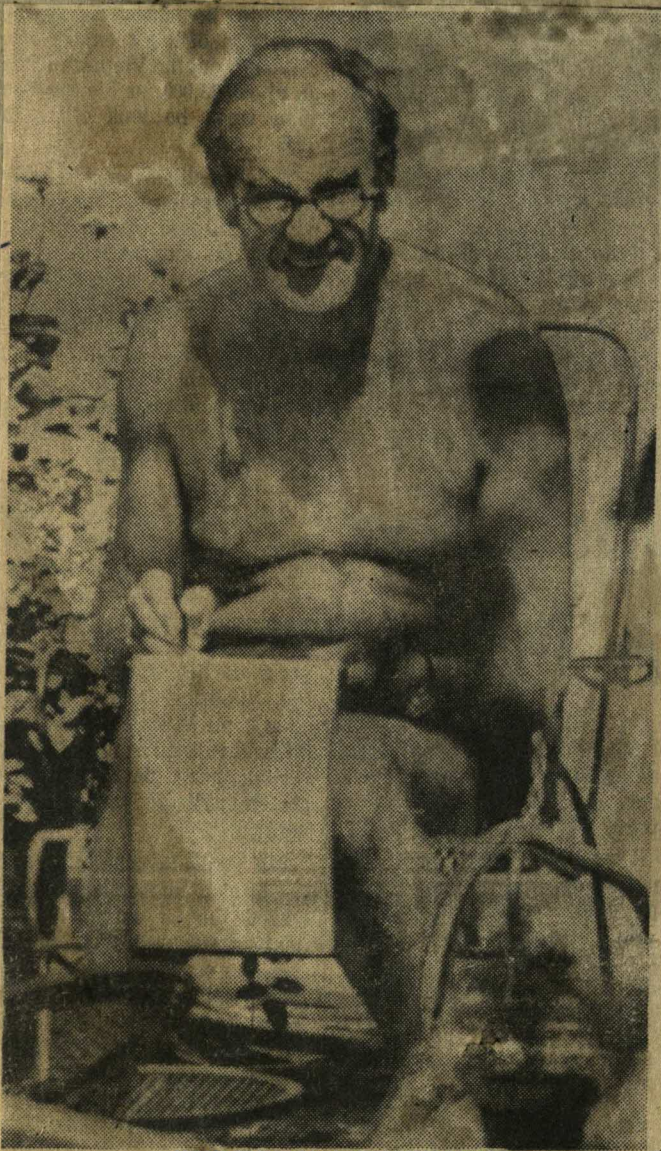
LARGEST COMBINED
DAILY CIRCULATION
IN TEXAS

FORT WO

MONDAY, AUGUST 28, 1972



NIXONS SHARE A LAUGH WITH ZSA ZSA ...



... WHILE MCGOVERN RELAXES

DUE BY SEPT. 18

Bids Sought For Computer Center Here

Tarrant County commissioners today approved a request from County Purchasing Agent Ed Smith to advertise and start accepting bids for a computer center.

Smith will begin advertising for bids in the near future.

The bids are expected to be returned to county officials Sept. 18 and will probably be tabulated Sept. 20.

* * *

THE COMPUTER center is destined to handle most of the county's paper work including voter registration, law enforcement and tax records. Cost of running the center, when completed, was estimated at \$500,000 to \$600,000 a year.

Within half an hour after the meeting, commissioners George Richardson and Dick Andersen departed for Meacham Field where they will begin a tour to look at Honeywell Corp. computer operations.

* * *

ACCOMPANYING THE commissioners will be District Clerk Jim Boorman, County Engineer LeRoy Erwin, county computer expert Bill Roberts, Sheriff Lon Evans and possibly attorney Cue Lipscomb, who will become first assistant district attorney under Tim Curry.

The group will go to Houston today to look at that city's computer operation then to Charleston, S.C.

Tomorrow they will visit Honeywell's home operation in Atlanta, Ga.

County heavy in federal grants

By JIM ATKINSON
Staff Writer

Dallas County is spending federal money as if it were its own.

More than \$1.1 million in federal grants currently is involved in 11 different county programs—everything from a sophisticated computer records system to a drug abuse rehabilitation program.

And there is much more to come.

The county has its fingers crossed on final rubber stamping of \$10 million in federal Law Enforcement Assistance Administration grants to support a bevy of crime prevention projects under the impact program.

And County Auditor George Smith has just completed making application for \$330,000 in federal money to help alleviate costs of renovating the county jail according to the requirements of U.S. Dist. Judge Sarah T. Hughes' federal court orders.

Federal dollars compose about 70 per cent of the budgets of the 11 existing programs. The county picks up the tab for the remaining 30 per cent — about \$800,000.

Of the programs in operation, the Regional Criminal Justice System has the lion's share of federal money—

\$554,000 of the \$1.1 million total funds the county presently has in its pockets.

The vast majority of the money has been poured into the county's ever-expanding computer system, which has a 1972 budget of some \$2 million. The county will pitch in the remaining \$1.5 million of the computer budget.

The unique system, housed on the

AN ANALYSIS

fifth floor of the county records building, gradually has been phased into county government during the last 10 years.

It provides the major components of county government, the district attorney's office, judges, district clerk and sheriff's office—with any information in a matter of seconds.

There is an additional \$150,000 in federal money helping to support a records conversion and radio communications design program, much of which is involved with the computer system.

Another approximately \$150,000 is sliced up among three delinquency prevention and rehabilitation programs,

including the Key Link Project.

The Key Link Project utilizes high school student volunteers as counselors for potential juvenile delinquents. Gov. Preston Smith last week signed a new \$56,000 award to the program to fund the third year of operation.

Smith also approved third year funds amounting to \$35,000 for the county's prosecutor training and continuing education program.

Both the Key Link project and the prosecutor's education program lost their original federal grants July 31.

Smith also signed three other new grants for the county—\$225,000 to the North Central Texas Council of Governments; more than \$200,000 to provide assistance to the county's seven criminal district judges, and just under \$180,000 to the Dallas Area Criminal Justice Council for development of long range crime fighting plans.

The first of the approximately \$10 million in impact grants should arrive in October. Some \$300,000 to \$500,000 will be used to establish two additional criminal district courts, which will be manned by visiting judges.

Other impact programs well into planning include expansion of the juve-

nile probation department and renovation of the jail to meet Judge Hughes' court order.

County officials say federal grants are of "immeasurable" aid to the county because they allow the local government to "try things, new concepts that we couldn't even think about on our budget alone."

Smith said the only potential hazard of utilizing federal grants is that the county can become "overcommitted" financially for its share of the programs and then be left "high and dry" if the federal funds are curtailed for some reason.

"You can get \$1 million in federal grants to start several programs," he said. "But you have to remember you are sinking in a good amount of your own money, too."

"You might become dependent on the services of the program and then one day find out the federal grant has been nixed. Then what do you do, stop the program or sink that much more of your own money in?"

However, Smith said he is not aware of any curtailment of federal funds among the 11 county programs supported in part by federal dollars.

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Wed., Aug. 30, 1972

THE DALLAS TIMES HERALD METROPOLITAN

Dallas Firm Contracts to Develop County Clerk 'How-to' Handbook

ARLINGTON — Soon there'll be a "how-to" book for people who want to learn the county clerk business.

Pete, Marwick, Mitchell and Co. of Dallas has been awarded a \$44,000 contract to develop a handbook of detailed instruction for operation of county clerk and district clerk offices.

The contract, made by the North Central Texas Council of Governments, is funded through a Texas Criminal Justice Council grant.

The handbook, which will be distributed throughout the state, will emphasize the criminal responsibilities of clerks. The Clerks' Criminal Justice Handbook Committee of the County and District Clerks' Association of Texas will aid in preparing the book,

which will be presented in a three-day seminar next summer.

F.W. MAN HEAD OF FOUNDATION

Fort Worth attorney Edgar H. Keltner Jr., member of the State Bar's governing board of directors, has been elected chairman of the Texas Bar Foundation.

The Cleburne native has practiced law here since his admission to the bar in 1947.

A graduate of the University of Texas School of Law, Keltner is a past president of the Fort Worth-Tarrant County Bar Association and the Fort Worth Rotary Club.

He was chairman of the board of directors of the Tarrant County Community Council.

Grant Sought for Computer System

County Auditor Jack Benson will ask leaders of the North Central Texas Council of Governments today for approval of a federal grant application to help fund the country's forthcoming computer system.

The grant application which must be approved by COG and the federal Criminal Justice Council will ask for \$611,240 over the next three years.

The county asked for a federal grant once before for their computer and was turned down.

CJC representatives told the county officials that they weren't going to fund a computer program from scratch.

AT THAT time the county had no computers of its own, but commissioners have since voted to create their own computer system.

Benson said today that he expected computer equipment would be in the county courthouse complex by March or April of next year.

The \$611,240 is earmarked for funding law enforcement and court related uses of the computer.

The grant is a 75 per cent federal and 25 per cent county funded arrangement.

When county officials submitted their first application they were also told that CJC didn't have the money this year to fund any new computer projects.

Benson said he has talked to CJC representatives in Austin who indicated that the

money may be available this time.

Benson won official approval from Commissioners Court this morning to submit the grant application.

At today's commissioners meeting, County Clerk Ed Loftin received approval for his \$2,500 project to computerize election returns from lever voting machines.

THE \$2,500 is for the purchase of a computer program so that the lever machine returns can be tabulated along with the returns from punch card voting machines.

Lever machine returns will be put on computer cards as they are turned in to the courthouse Nov. 7.

The cards will then be taken to the county's computer center and tabulated.

Tabulations on all returns are to be done by Commercial Computer Services which already does some contract work for the county.

COMMISSIONERS today also approved a resolution supporting the creation of a new thoroughfare through the northeastern Mid-Cities area.

The project proposed by city officials in six cities will run along Watauga-Smithfield and Cheek-Sparger Roads from U.S. 377 to the Dallas-Fort Worth Airport.

Today's move by commissioners only voices support for the \$7 million project which is to be funded primarily by the federal government. The resolution cost the county nothing.

Justice Grants Up for Approval; FW Included

Star-Telegram Austin Bureau

AUSTIN — The executive committee of Gov. Preston Smith's Criminal Justice Council recommended Friday approval of 33 criminal justice action grants totaling more than \$2.6 million.

Included among the grants was one for \$113,421 to the city of Fort Worth to fund a countywide organized crime intelligence unit.

An action grant of \$17,326 to the city of Arlington also was tentatively approved to establish a community center where young offenders or potential delinquents receive guidance and supervision.

Establishment of a program of intensive counseling designed to lower recidivism among juvenile probationers at a cost of \$92,325 was recommended for approval to Tarrant County.

The Fort Worth Press

9-8-72

County auditor pleased with Austin results

County Auditor Jack Benson came back from a meeting with representatives of the Texas Criminal Justice Council in Austin pleased over the results of the meeting.

Benson met with CJC about the federal grant application to help fund the criminal justice portion of the county's proposed computer.

"Their reaction was very positive and very good," the auditor told commissioners today. "I see no problems with the application." He said that he met with the Austin group informally on the proposal and will submit a formal application to the North Central Texas Council of Governments, who must review the application, Oct. 11. However, he said the application calls for funding back to Oct. 1.

If the grant is approved, the money will be used to pay for 75 per cent of the computer time used by law enforcement agencies. Computer bids are out now and will be opened Sept. 18.

Purchasing agent Ed Smith said that so far the county has received responses on the computer from 30 companies.

FORT WORTH PRESS - TUESDAY, September 5, 1972

Computer grant bid is talked by officials

County Auditor Jack Benson is meeting today with North Central Texas Council of Government representatives to talk over a criminal

justice computer grant.

Tarrant County will apply for a grant of \$611,240 for the justice portion of the proposed computer. The application will be for a 36-month program.

BENSON IS asking for first-year funds of \$85,815 to pay personnel. Total cost for the first year will be \$137,400.

The application, after it is worked out, will go to the Texas Criminal Justice Council (CJC).

The county is asking that the federal grant pay 75 per cent of the computer time used by law enforcement after the first year.

Criminal justice will use

about 45 per cent of the computer time.

THE CJC rejected an earlier computer grant application, because representatives said that they didn't have the money last spring. They also said that the county needed to co-operate with Dallas County's system and not start another system.

However, Benson said that he has talked with CJC officials and thinks chance of getting the grant are favorable.

Most of the county expenses after the grant will be paid with "in-kind" services, Benson said. The county computer may be delivered in March or April.

COG Hears Presentation On Tarrant Computer Plan

County Auditor Jack Benson made what he called an "informal presentation" of the planned county computer system to officials of the North Central Texas Council of Governments Tuesday afternoon.

Benson's talk with COG leaders came after county commissioners approved application for \$611,240 in federal money to fund 75 per cent of the proposed system.

The auditor said Tuesday he was hopeful that the computer equipment could be installed in the courthouse by March or April.

He said no county money would be spent until next year with the first \$85,000 increment coming from the federal government.

A small portion of the funds would be used to study other systems so the county system would not have to be built from scratch.

The grant, which is to last 36 months, would cover about 75 per cent of the total computer cost, he said.

Benson said he had been in contact with Criminal Justice Council officials at Austin

who indicated they viewed the application favorably.

The county has been turned down in one computer application already by CJC, which offered a variety of reasons for rejection, including the fact that the county had not worked through COG originally.

Committee Supports Vote Machine Plans

A county computer selection committee is expected to recommend to county commissioners Monday that they not withdraw computer specifications.

Representatives of UNIVAC Division yesterday tried to persuade the committee to recall the county's request for bids because specifications were "biased" toward a certain machine made only by one firm.

County Auditor Jack Benson said after the presentation that the committee will not ask that the specifications be withdrawn.

A UNIVAC spokesman said later, without knowing of the

committee's decision, that the request was made to "eliminate the bias toward one particular vendor's equipment."

He said he could see little need to expend the resources to submit a bid from his company.

James Gehling, a UNIVAC representative, told the committee in the meeting that he did not believe that the bias was the result of an "overt plan" on the part of anyone connected with the county.

But, he continued, specifications indicate they are written with one particular machine in mind.

So far, 16 firms have submitted bids which must be in by 1 p.m. Wednesday.

Firm Declines To Bid on Computers

A UNIVAC representative made a last plea to Commissioners Court today for changes in specifications on the county's computer system, but finding no success told the court, "We choose not to bid."

In return Commissioner George Richardson told UNIVAC Branch Manager Jerome Vitt, "Commissioners are committed to vote for what they think is the best system—if you don't bid for it that's your own fault."

Vitt and other representatives of the computer company have accused county officials of unknowingly writing the computer system specifications "100 per cent toward a particular model of a particular family of computers."

Commissioners and the county Computer Selection Committee have denied this accusation.

Richardson told Vitt, "If you can come up here and say you can do the job best, I will consider your right along with IBM—and they are the company you're talking about."

Vitt admitted that his company could bid on the county's system, but persisted

that its bid could not be comparable.

Bids for the computer system are due in Wednesday and a final decision on who will get the bid is expected to be made Oct. 2, after a study and recommendation by the selection committee.

MORNING - STAR-TELE
TUES. SEPT. 19, 1972

UNIVAC Stays Out Of Bidding

When bids on the county computer system are opened Wednesday afternoon, UNIVAC's apparently won't be among them.

Jerome Vitt, the firm's branch manager from Dallas, told Commissioners Court Monday he had decided not to bid because the county would not change its specifications.

HE SAID, however, that UNIVAC would reconsider its decision if the specifications are rewritten or reissued in any way.

Vitt insisted under questioning by the commissioners that the requirements "fit one particular model of one particular vendor perfectly."

"The undertone of the specifications are so unusual — not at all like the ones issued by the federal, state or local agencies," he said.

"The undertone of your presentation here is one I simply don't like," replied Commissioner Dick Andersen. "We've got 16 companies bidding on this thing and evidently they're not experiencing the same problem you're having."

COMMISSIONER George Richardson said he "would hate to see you drop out and not bid. If you come up here and say you can do the job for so many dollars... then I'm going to consider you right along with this IBM company."

Bidding deadline is 1 p.m. Wednesday and commissioners will reconvene at 2 p.m. to see the bids.

County Awards Contract for Card Punch Vote Machines

County commissioners today awarded a one-year contract for 700 card punch voting machines to Computer Elections Systems Co.

The cost to the taxpayers will be \$39,752.86.

Commissioners on June 26 opened the bids for the machines for the November general election, but delayed the decision on who would get the award until County Purchasing Agent Ed Smith could evaluate the bids.

Smith said CES is the only company that "verbatim" meets the county's specifications and is also the lowest bidder.

TWO OTHER companies, out of 10 companies which were asked to bid, returned bids to Smith. Voting Instrument Products bid \$90,760 and

the Seiscor Company bid \$68,267.

CES predicted it would deliver the 700 machines by July 28 and start an educational campaign for the public on Aug. 15.

Included in the cost of the one-year lease is a campaign to teach election workers and the public how to use the new voting devices.

* * *

COMMISSIONER George Richardson said that at the end of the 12 month lease the \$29,000 lease price will be considered payment on possible future purchase of the machines.

In delivering his recommendation to commissioners, Smith said that county government is "quite frequently referred to as government by crisis."

He complimented commissioners for not operating in that way in acquiring the voting machines.

He said that the need for the machines became obvious two months ago during the May 6 primary, but commissioners didn't take any quick drastic action.

He said that a good deal of study and careful consideration has gone into the decision to buy the card punch devices.

* * *

THE 700 CARD punch voting machines will supplement the county's 650 lever type machines in the November general election.

County Clerk Ed Loftin said that the new machines will be distributed to various precincts in the county but that the card punch machines and the lever machines will not be mixed in any precinct.

In other action commissioners approved a \$3,500 remodeling job for the new offices of the Adult Probation Department which is moving into the district attorney's old offices in the county criminal courts building.

Commissioners also approved a grant application from Sheriff Lon Evans to the Law Enforcement Assistance administration for about \$8,500. Evans wants to purchase a complete video tape setup and eight walkie talkies.

Punch Card Probe Under Way

Dist. Atty. Henry Wade said Tuesday he is investigating charges that a number of county employes have been stealing data processing cards from County Auditor George Smith's office.

Wade said that at least 700 pounds of used computer punch cards have been reported missing from Smith's office in the County Records Building.

"It is my understanding that the cards are being sold to a company that fills in the punched out holes and sells them again," said Wade.

Reports of "thievery" among county employes circulated Monday after Smith requested a closed session with the county commissioners to discuss personnel problems.

When Commissioner Jim Tyson asked that a representative from Wade's office be present at the closed meeting, Smith said he was not yet ready to "approach" the district attorney.

Wade said two janitors recently fired by the county have already confessed to the theft and Smith's concern now is whether or not to file charges.

At least four other maintenance men employed in the Records Building are also being questioned as possible accomplices in the theft.

Wade said the stolen punch cards are valued at less than \$200.

Burroughs Bids Low For Computer Work

Burroughs Corp., asking \$16,935 per month rental, appeared to be low bidder for the county's computer business when bids were opened Wednesday afternoon in Commissioners Court.

Burroughs also offered a \$6,450 per month lease-purchase plan for a computer.

Other bidders included Honeywell, Inc., asking \$24,765 rental or \$1,205,620 total purchase price; IBM, \$24,000 rental; and Commercial Com-

puter Services, which entered a partial bid for conversion of the present computer system at \$15 per man hour.

Specifications originally were issued to 16 firms and responses received from seven.

Two companies said they were not manufacturers and could not bid. Others, including UNIVAC, Reece Corp. and Texas Instruments, declined to bid.

UNIVAC representatives had appeared before commissioners, claiming that the computer specifications issued by the county were biased in favor of one company.

They later told the court that their firm had decided not to bid.

The bids were turned over to the county's computer selection committee for analysis and recommendations.

The committee will meet Thursday and Friday with representatives of the bidders and could return with its recommendations to commissioners at a meeting Oct. 1.

9-14-72

Dallas County loses data processing head

BY DON RUTHERFORD
Daily News
Tarrant County Bureau

Some people all it robbing from Peter to pay Paul. Others say that it's simply buying experience from your neighbor.

Whatever the rose by any other name is called, Tarrant County now has Dallas County's data processing manager.

He's William E. (Bill) Roberts, a native Californian who took over the Tarrant County computer operations on Aug. 1.

Of course, Tarrant County doesn't as yet have a computer center, so Roberts is in the process of setting one up.

"Tarrant County has already

made the decision to establish an in-house computer center owned and operated by the county," Roberts said.

"My job is to design and implement that computer center. The hardware is out for bid at the present time. When we evaluate these bids, that will select the primary vendor for Tarrant County's hardware.

"We will have to balance hardware resources and suitable personnel resources. Those two factors make up a great bulk of data processing."

The county must provide service immediate in three areas, Roberts said. They are:

1. "We must assume the present data processing work of general county government."

2. "We must assume data processing functions as required by the Tarrant County Hospital District which also is being performed by a different service bureau."

3. "We must proceed to implement a criminal justice system for the Tarrant County area, which will be supported by the Texas Criminal Justice Council."

Roberts said after satisfying those three needs, his office will proceed to serve any Tarrant County governmental agency with their data processing needs.

"Governmental data processing is somewhat unique in that it has very strict requirements in the areas of quality, accuracy and security," Roberts explained. "These factors must be built in to the work and not left as an afterthought.

"Tarrant County data processing department is a service function of government and is available to county departments to do their work but the user department, of course, has the ultimate responsibility; hence we must provide those departments with the type of service they need and desire.

"To achieve this end, the county department heads and their higher level deputies are expected to be intimately involved. It is not our intent to impose our thinking on anyone."

Roberts said Dallas County has had a very comprehensive and sophisticated computer setup for a number of years.

"Tarrant County is just now starting to have its own in-house program," he said. "I

expect we will benefit from the experience of Dallas County. They have been most helpful and assure us of continuing cooperation in setting up our own department. I don't expect Tarrant County will ever approach the scope of data processing that Dallas County has.

"The emphasis here is on fiscal conservatism; hence, the computer center will be very much concerned with efficiency and cost factors, but still the great emphasis is on accuracy, quality and security.

Ancient inflation

APHRODISIAS, Turkey (UPI) — Archaeologists have unearthed evidence in the ruins of this Greco-Roman metropolis that inflation is nothing new.

Dr. Kenan T. Erim, associate professor of classics at New York University, reported finding 300 pieces of inscribed stone that, when fitted together, turned out to be a table of fixed prices dating from 301 A.D. In that year Emperor Diocletian froze wages and prices to stem runaway inflation.

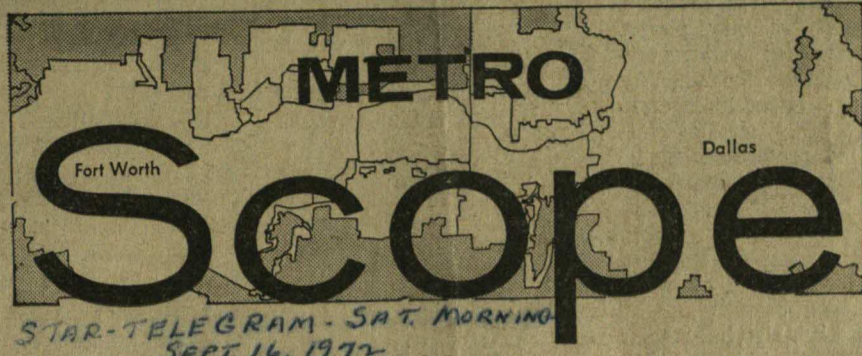
Obscure veep

CHICAGO (UPI) — The 11th U.S. vice president has the distinction of being the least known statesman with one of the best known names.

Prior to the vice presidency, he had been minister to Russia and a U.S. Senator. Later, at the outbreak of the Civil War, he was minister to Great Britain. But, according to the Encyclopaedia Britannica, George Mifflin Dallas is best known because the settlers of a Texas hamlet named the town in his honor.

REMOVING SUMMER LITTER

LANSING, Mich. (UPI) — For the third year in a row, the State Highway Department is hiring more than 200 young people from inner city areas to work on highway litter clean-up projects. Boys and girls will work during July and August when the litter problem is at its worst along state highways.



UNIVAC Claims Bias In Computer Specifics

Representatives of UNIVAC Division attempted Friday to convince a county computer selection committee that specifications for a county computer system were "biased" toward one particular machine made by one particular firm.

James Gehling, a UNIVAC representative, asked the committee to recall the county's request for proposals, modify it with emphasis toward applications and not hardware, and re-issue it.

But County Auditor Jack Benson reported the committee, after meeting to discuss UNIVAC's slide presentation, would recommend to county commissioners Monday that the specifications not be re-drawn.

LATER, WITHOUT knowing of the committee's decision, a UNIVAC spokesman said that unless an attempt was made to "eliminate the bias toward one particular vender's equipment, . . . UNIVAC feels that it would be an extremely poor business decision to expend the resources necessary to submit a bid to the county."

Gehling and division branch manager Jerome A. Vitt of Dallas emphasized during the meeting that they did not believe that any indications of bias were the result of an "overt plan" on the part of anyone connected with the county.

But Gehling said that a study by UNIVAC personnel of the specifications, which committee members claim are guidelines and not requirements, demonstrates that they were written with one particular model of one-particular family of computers manufactured by one particular firm in mind.

He contended that it would be "a tactical error on the part of the vendor, save one, to submit a bid in response to Tarrant County's invitation" because of the "evidence of bias" that "permeates" the specifications.

WHEN COMMITTEE members demanded it, it was pointed out that IBM could satisfy all the specifications while only UNIVAC could satisfy as many as 74 per cent of them.

Several committee members contended they have open minds on the subject and Benson said that "we didn't mean to exclude anybody."

He noted that "we said (in the specifications) several times that, yes, we may be using one standard, but that doesn't keep you fellows from telling us what your points

are and your objections and how you plan to overcome this."

To the charge that the specifications gave no indication of what criteria would be used to evaluate bids, county computer specialist Bill Roberts said that the list was just to guide bidders to "what kind of ballpark we're in . . .

Do you have something better or something that can accomplish the same end? I feel that UNIVAC can configure a satisfactory hardware system."

County Purchasing Agent Ed Smith said that 16 firms thus far had submitted bids, which must be in by 1 p.m. Wednesday.

Hospital District Fills Internship Program

Twenty-three different medical schools are represented in the 1967-68 internship appointments at DCHD. The matching results received in mid-March from the National Intern Matching Program revealed that the Hospital District filled each of its offered internship positions with the exception of one

slot in Pathology. This is the best record of any hospital in Texas with multiple internships.

Southwestern Medical School has the largest group of the incoming interns — 11, followed by the University of Mississippi — 6, the University of Minnesota — 5, and the University of Arkansas — 4.

Other schools represented range

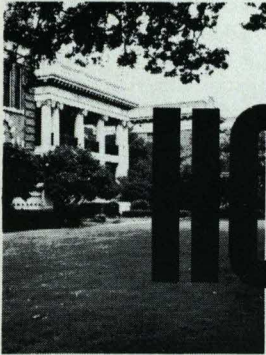
geographically from the University of Washington to the University of Miami, from Yale to Stanford. Approximately 40% of the new interns are from medical schools outside the southern and southwestern states.

Nationally, there are two vacancies for every graduating medical student handled through the Na-

tional Intern Matching Program.

The Dallas County Hospital District's extensive teaching program includes 30 Rotating Internships, 12 Straight Medicine, 10 Straight Surgical, and 5 Straight Pathology.

This is in addition to more than 200 residents and fellows in 15 approved specialty training programs.



HOSPITAL HIGHLIGHTS



Volume 4, Number 5

Dallas County Hospital District, Dallas, Texas

March-April, 1967

Data Processing Consultants Begin Comprehensive Review of Management Systems and Procedures



Consultants Begin Comprehensive Study

The hospital financial consulting firm of Don Clark and Associates is studying the general operations of PMH and Woodlawn Hospitals. Pictured above at the MICU Nursing Station are left to right, standing, Robert L. Walker with Don Clark and Associates, Joyce Dillard, head nurse MICU, and Steve Morrisett, Don Clark and Associates; seated, Bill Roberts, Dallas County systems analyst and Suzanne Beach, head nurse 2 West.

On March 6, 1967, the hospital financial consulting firm of Don Clark and Associates began a comprehensive study of the general operations of Parkland Memorial and Woodlawn Hospitals. The team working on the project will study the paperwork processing procedures in every department of the hospitals. They will particularly review the function of the Data Processing Department and its relationship to the EDP installation at the County of Dallas.

Also assisting in the study are two representatives from the County Auditor's Office, inasmuch as possible areas of coordination and cooperation between the County's EDP installations and those at the Hospital District will be studied.

It is the intent of the consulting firm to evaluate all the information gathered and prepare a report with recommendations for future computer applications and equipment. The jobs chosen for the future computing system will be those that augment patient care and reduce the cost of hospital operations.

(See **CONSULTANTS**, Page 8)

From the Administrator's Desk

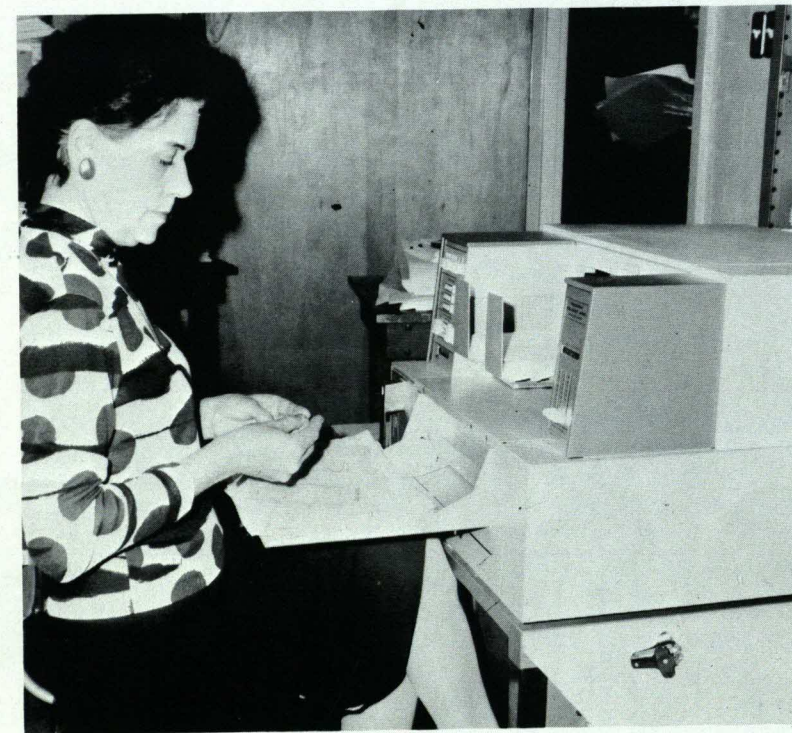
On June 30, 1967 Dr. Atticus James Gill will step down as Dean of the University of Texas Southwestern Medical School. Dr. Gill has expressed the desire to be relieved of his administrative duties in order that he might resume his work as Professor of Pathology at SWMS.

During the more than twelve years that Dr. Gill has been Dean at Southwestern he has been the guiding hand behind the phenomenal growth of this school. Soon after assuming the deanship, Dr. Gill engineered the move from the wooden temporary buildings on Oak Lawn behind the old Parkland Hospital to the new campus on Harry Hines Blvd. adjacent to the present Parkland Memorial Hospital. Since that time Dr. Gill has seen the Karl Hoblitzelle Clinical Science Center occupied in August 1958 and the recent completion of the Danciger Research Laboratories and Skillern Student Union buildings. Other buildings are in various stages of planning and additional construction is expected soon.

During this period of expansion, the Medical School's teaching, research and service functions have shown corresponding increases. The Medical School has now granted nearly 1900 degrees.

We at DCHD particularly appreciate Dr. Gill's concern for a cordial and mutually beneficial relationship between the Medical School and its primary teaching hospital. Dr. Gill has always been quick to recognize the value of a smooth working relationship between the two institutions to improve care of patients, while enhancing learning opportunities for students, and encouraging research programs. The continuing cooperation has advanced the purposes of both institutions more than either could achieve independently and has set a firm foundation for mutual respect and achievement in future years.

It is a pleasure to work with Dr. Gill, an honored physician, an able administrator and a true gentleman. It is comforting to know that he will be available for consultation on hospital-medical school relationships in his role as a Professor of Pathology.



Joy in a Jolly New Job

Joy Jolly, a long time Purchasing Department employee, has recently transferred to the new Microfilming Department as camera operator and its first employee. The new department began operations in mid March.



Bessie Lively

Bessie Lively Presides at Dietary Meeting

Bessie Lively, ADA, director of dietary services at DCHD and president-elect of the Texas Dietetic Association, presided at the recently completed 32nd Annual meeting of the Texas Dietetic Association held in Dallas.

During the three day meeting several groups of dietitians attending the convention visited PMH, particularly to inspect the newly installed Unitary Food Service System.

New Microfilm Department Making 'A Place For Itself'

The new Microfilming Department located in the basement of Parkland Memorial Hospital began operation on March 13, 1967.

This new department is having to literally make a place for itself by starting first with the death charts to locate itself in that area of the file room.

The eight employee department is responsible for microfilming records of all departments in the Hospital District.

The services are divided into two basic systems; one for Medical Records and the other for business and office records.

For medical records a unitized system of microfilming is being used. After processing the film is cut and inserted into microfilm jackets identified by the patient

unit number. The jackets, after being indexed by chart number, will be filed in 4 x 6 card file cabinets in the medical records department. When a microfilmed chart is needed, a duplicate print will be made and sent to the requesting party. Microfilm readers will be provided on each nursing and in clinic areas.

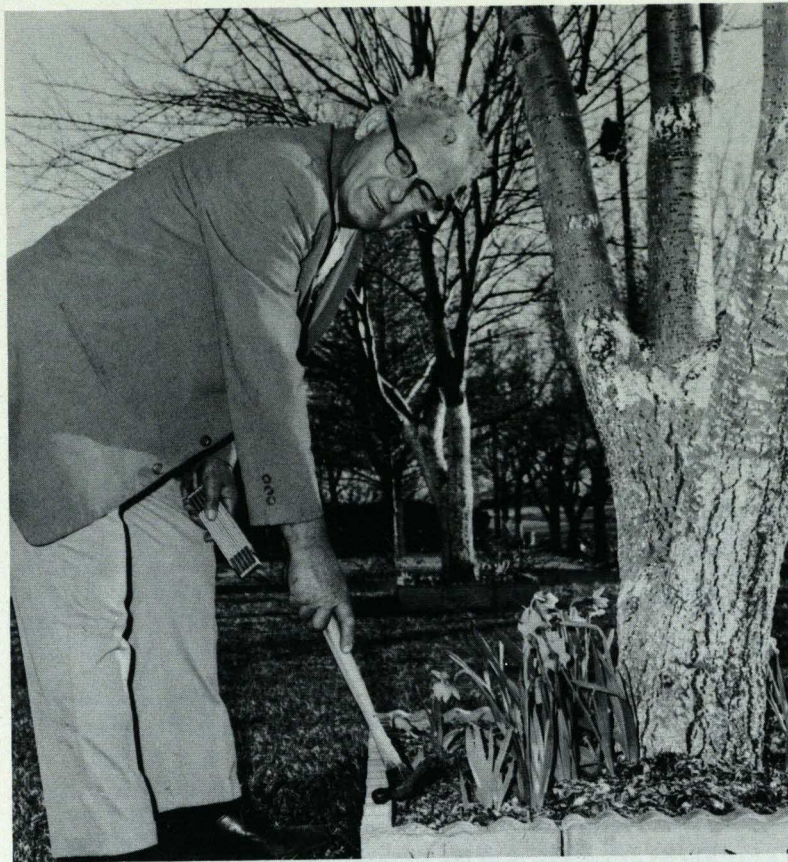
Equipment is available to convert the microfilmed record to a "hard copy" should that be indicated.

The business and other office records will be maintained in roll form with adequate indexing for necessary retrieval. Although the roll method is not as accessible as the unitized system used for medical records, it is generally thought to be sufficient for business records.

HOSPITAL HIGHLIGHTS

Published by and for the employees of the Dallas County Hospital District

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Pond Covers Carpentry to Camellias

DCHD cabinetmaker, Arlie Pond, is shown above in the backyard at his home in Irving. An avid gardener, Pond has been an employee at PMH since late 1959.

From Hammer to Hoe

Cabinetmaker Arlie Pond Digs Gardening Hobby

Arlie Pond insists that a task be done carefully and expertly. This is true whether he is engaged in intricate cabinetwork at Parkland or in his favorite hobby of gardening at home.

An important craftsman in the PMH Maintenance Department since November of 1959, Pond is a self-educated botanist at his home at 1722 Robinson in Irving. He counts more than 30 types of flowers, 20 different types of shrubbery and numerous trees ranging from a special cottonwood to a variety of fruit trees in his yard.

Pond is especially proud of two special types of camellias known as Rebel Yell and Kramer's Supreme. He is an experimenter of sorts and does his own grafting with interesting results. To help with his absorbing hobby, Pond is now building an enlarged hothouse adjacent to his home.

Prior to coming with the Hospital District, he worked 13 years in the aircraft industry in Grand Prairie as a tool and die maker and earlier was a stock farmer.

Mr. Pond and his wife have six children, five of whom are married daughters and one son who graduates from high school this year and plans to attend North Texas State University in the fall.

Pond began his gardening hobby in the mid 1930's shortly after he lost his left leg in an automobile accident and had to give up his first love — hunting and fishing.

"I get around just fine though with my artificial limb" says Pond. "I made the foot myself in my workshop in the garage."

Credit Union Shows Strong Growth Pattern

During the first two months of 1967, the assets of the DCHD Employees Credit Union rose more than \$34,000 — up to \$168,469.92.

This rapid growth pattern was disclosed in the regular Credit Union Board meeting held in mid-March.

At a recent Board meeting, the directors unanimously established a loan policy which would allow a person to borrow money from the credit union only after they have been a contributing member for three months and an employee of the recognized institution for six months. However, loans will be considered at any time up to a member's share balance.

Dallas Southern Clinical Group Honors Dr. John S. Chapman

Dr. John S. Chapman, assistant dean and professor of internal medicine at Southwestern, received the 1967, Marchman Award of the Dallas Southern Clinical Society at the Society's 36th Annual Meeting on March 13, 1967.

The award was created by the Society in 1941 to be bestowed on a Dallas physician "who had merited recognition for outstanding research or contributed to the ad-

vancement to medicine," said Dr. Oscar Marchman, Jr. son of the physician for whom the award is named. Dr. Marchman is the current President of the Society.

Dr. Chapman became assistant dean of Southwestern in charge of post graduate education in 1952. In the years since, according to the clinical society citation "he has planned a wide variety of post graduate training programs and engaged actively in all of the teaching and patient care responsibilities related to his academic position as professor of internal medicine.

"He has maintained an expanded and important series of research studies resulting in more than 75 contributions to the scientific literature."

Dr. Chapman was recently elected president of the American Thoracic Society. In addition, he serves as area consultant to the V.A. Hospital System and is active in the Dallas Area Tuberculosis Association having formerly served as that organization's president.

El Centro Offers Paramedical Study

The Dallas County Junior College through its El Centro Campus is offering a variety of paramedical programs. The present curriculum includes courses of study which lead to eligibility for certification as dental hygienists, licensed vocational nurses, central service aides, and nurse aides.

These programs are in addition to the two year associate degree nursing program which got underway last fall.

Prospective students for the paramedical programs must be high school graduates or equivalent. Tuition for all programs is \$50.00 per semester with several scholarship funds available through the college.

For additional information concerning paramedical programs offered at El Centro contact the college's paramedical division at RI 2-2151 or the personnel office at PMH.



John S. Chapman, M.D.

City of Care

National Hospital Week, May 7-13, 1967, has the theme this year of "Your Hospital — City of Care." This is to focus attention on the fact that two-thirds of a hospital's operating expenses goes to its employees in the form of wages and salaries. A hospital is really a city within itself, employing many people with diverse backgrounds and skills.

YOUR HOSPITAL-CITY OF CARE



Opal H. White, R.N., MPH

TWU Offering Psych Nursing Masters Degree

The number of mentally ill people and their need for adequate treatment and rehabilitation constitutes one of the major health problems in Texas and the U. S. today. Along with this problem is the need for the prevention of mental illness.

Texas set the Texas Plan for Mental Health Services in operation with the creation of the Department of Mental Health and Mental Retardation. One of the immediate steps to implement the plan was the preparation of professional personnel (psychiatrists, psychologists, psychiatric social workers, psychiatric-mental health nurses, and others) to provide the treatment of the mentally ill and to work with the problem of the prevention of mental illness. The proposed plans for the development of community mental health centers made the need for professional personnel even more acute.

Graduate Program

The College of Nursing at Texas Woman's University started a graduate program in psychiatric-mental health nursing the Fall semester, 1966. Mrs. Opal H. White arrived on January 1, 1967 to be director of the program.

The program leads to a master of science degree and is three semesters and one summer in length. Prospective students for admission to the program must be registered nurses with a baccalaureate degree in nursing, and be able to fulfill the admission requirements of the Graduate School of Texas Woman's University.

Significant Projects

Clinic Floor Construction Under Way; Major Expansion Planning Continues

During the past several months there has been concentration on several important construction projects which will make significant additions to the physical plant of Parkland Memorial Hospital.

One major project, a fourth floor on the Clinic building, is well into actual construction. The other two projects, a major expansion and renovation program and a multi-story parking garage, are still in planning stages.

Construction started last November on the Clinic and is continuing ahead of schedule. Presently, the concrete forms have been poured and the brick work has been started to enclose the new fourth floor. Upon completion, which is ex-

The program is composed of four strands, advanced clinical theory and practice in psychiatric-mental health nursing; courses in related fields such as education, the social and biological sciences, and business management; the study of methods of research; and either the teaching or supervision of nursing.

Six Students

There are six full-time students in the program at this time. This spring semester they are studying the area of advanced clinical theory and practice in psychiatric-mental health nursing and in related fields. The students are Jacque Clay, Barbara Connor, Virginia Cowger, Hester Gasset, Frances Lumpkin, and Joyce Turner. They can be seen on 8 South at Parkland and at Woodlawn as they practice individual nursing therapy. A little later in the semester the students will start theory and practice in nursing group therapy and in family therapy.

The new director, Opal White, comes from Colorado where she obtained a diploma in nursing from Presbyterian Hospital School of Nursing, Denver (1938), a bachelor of science degree in nursing from the University of Colorado School of Nursing (1951), a master of public health and mental health from the University of Minnesota, Minneapolis (1955), and is currently completing her dissertation for the doctor of nursing science degree in psychiatry nursing from

(See MASTERS, Page 6)

pected in September of 1967, the new floor of the Clinic will house the obstetrical and psychiatric clinics.

The internal design of the new OB Clinic is to be essentially the same as the original construction. This design arrangement has proven to be quite satisfactory. Several new features will be incorporated into the psychiatry clinic which reflect new concepts of design for this specialty.

When the fourth floor of the clinic is completed the ground floor will be remodeled to provide more space for the oral surgery, ophthalmology and ENT clinics.

Although still in the "schematic"

planning stages, intensified effort has been concentrated upon the major expansion program for Parkland Memorial Hospital. Last summer the hospital's planning consultants, Block, McGibony, Coburn and Associates, made major recommendations for future expansion programs.

Major Expansion

The major expansion program includes the completion of the 8th, 9th and 10th floors plus a new expansion of the south wing to include a five story structure. A greatly enlarged emergency service will incorporate a large portion of the ground level expansion and the emergency entrance will be relocated to the south wing of the hospital. In addition, clinical laboratories and radiology facilities will gain new space. On the first floor a much larger personnel cafeteria is planned.

A joint application by the Hospital District and the University of Texas, Southwestern Medical School for a construction grant has been submitted to the Health Professions Teaching Facilities Program of the United States Public Health Service. An increase of 20 students in the entering class of freshmen students at the Medical School has qualified this teaching hospital and school for major expansion, which may provide matching money for this program. The target date for completion of this \$18,000,000 expansion program is the summer of 1970.

Parking Garage

Plans have also been initiated for the construction of a multistoried 2,000 car parking garage to be located south of the hospital. Special parking consultants have recommended a definite program which is presently being studied. It is planned that the parking garage eventually will be connected to the south wing of the hospital by an underground tunnel to facilitate employees entering and exiting from the hospital.

Employees Join Blood Program

The Blood Assurance "Awareness" Drive among employees of the Dallas County Hospital District conducted in late February has been termed "a great success" by Chairman Mike Lott and Dr. Ruth Guy, associate director of the Blood Bank.

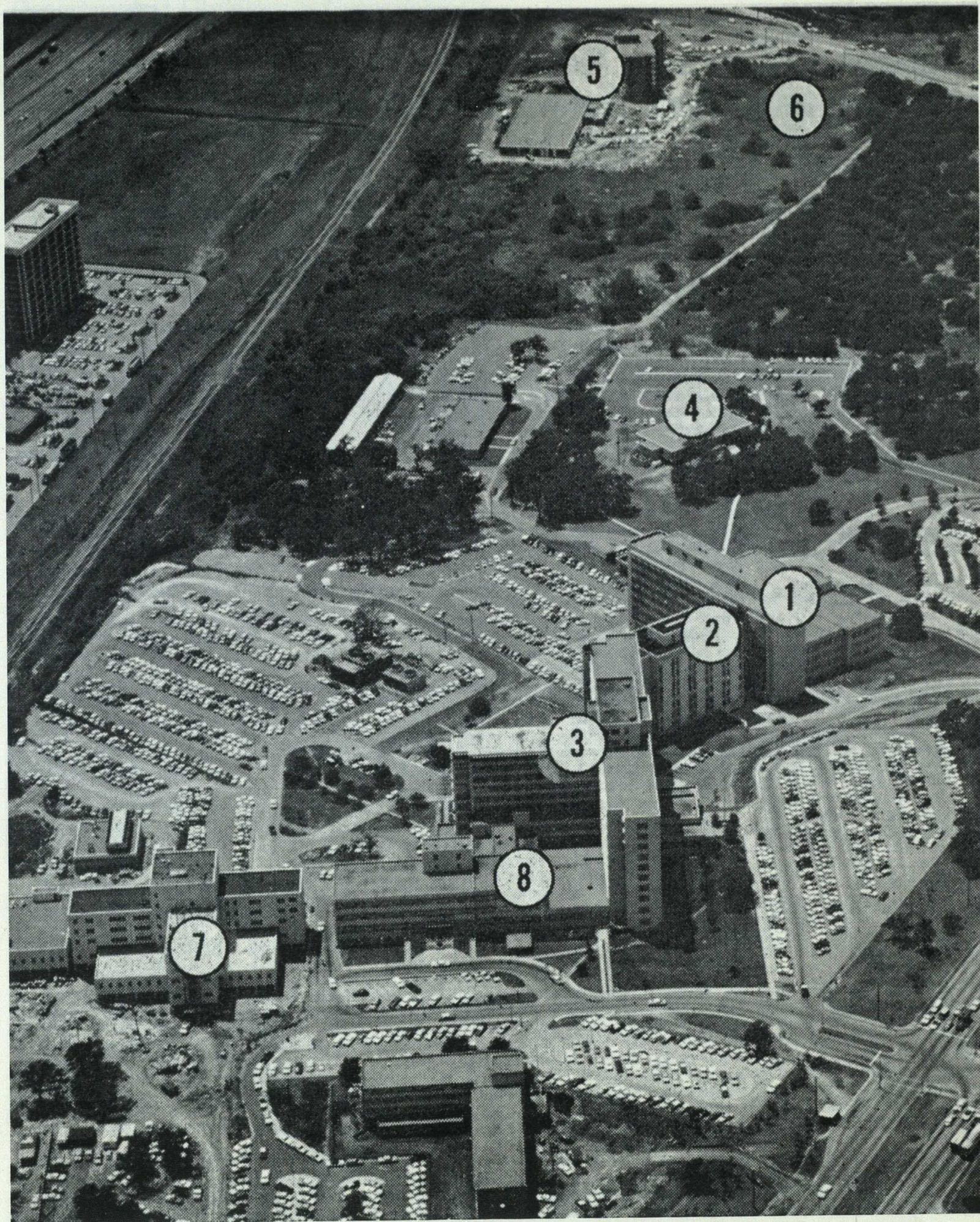
A total of 222 persons have enrolled in the Blood Assurance Program since it was initiated shortly before the first of the year. To date there have been four pints used from the program by one of the member's children.

Chairman Lott pointed out that the Assurance Program is an ongoing fringe benefit and those who have not joined may do so by going to the Blood Bank and asking for the registration form.

Membership in the Blood Assurance Program entitles you or a member of your immediate family to all the blood replacements that might be needed during one year. Replacement will be arranged by Parkland wherever the blood was supplied even if it is outside the Dallas area.

Growing Southwestern Medical Center

Figures circled in white identify the institutions now in place or under construction in Southwestern Medical Center. Lesser buildings belonging to these institutions are not identified. 1. The University of Texas Southwestern Medical School; 2. Parkland Memorial Hospital; 3. St. Paul Hospital; 4. Texas Woman's University College of Nursing Center; 5. Children's Medical Center (under construction); and 6. Callier Speech and Hearing Center (under construction).



Expanding Service

Inhalation Therapy Adds New Patient Care Duties

Departments of Inhalation Therapy are a recent development. Only a decade ago this paramedical specialty was usually known as oxygen therapy. The inhalation therapist of that era was known as the oxygen orderly; his duties consisting of moving cylinders of oxygen from the receiving department to the various wards where they were connected to oxygen tents. During the middle and late 1950's great strides were made in understanding the functioning of the lungs. As new facts were learned, physicians applied the information to the treatment of patients, and this application of knowledge has resulted in the growth and development of inhalation therapy.

Dr. William F. Miller, professor of medicine at the University

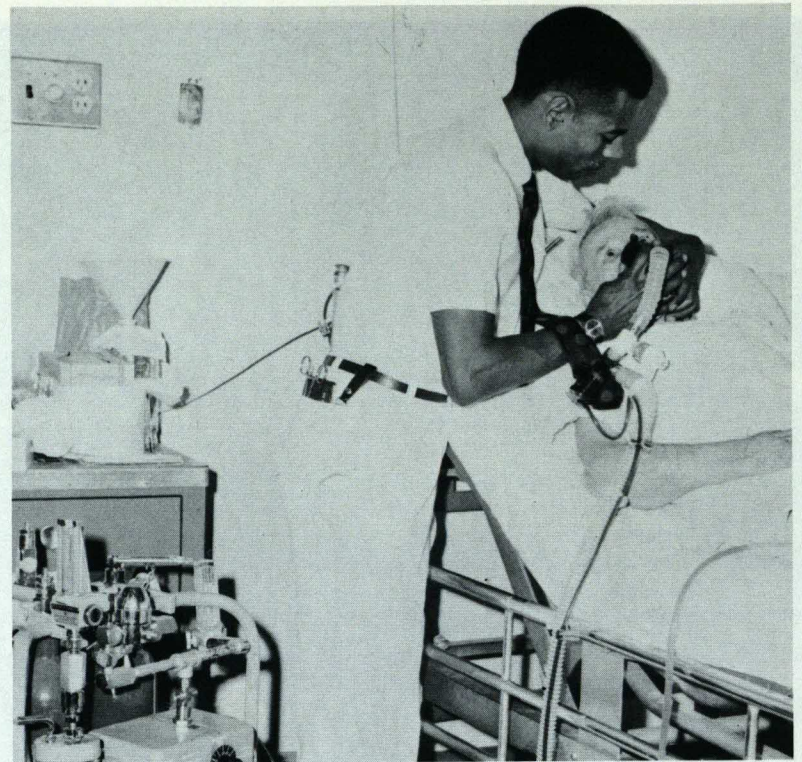
of Texas Southwestern Medical School, has been a leader in the application of inhalation therapy. Under his leadership Parkland Memorial Hospital was one of the nation's first hospitals to establish a separate Department of Inhalation Therapy.

In the "early days," Dr. Miller personally directed the operation of the department. Much of the equipment now available on a world wide basis was designed and perfected on the wards at Parkland and Woodlawn. Dr. Miller and Dr. Ivan E. Cushing are particularly recognized as originating the concept of heated, mainstream nebulization. Personnel who were working in Parkland during the late 1950's and early 1960's may recall the dime store heating plates, the mason jars that served as nebulizers and the bailing wire that held them together. Two of the department's present employees, Mrs. Hedy Siddiqi and Mr. Jaan Kallendi, joined the department during that trying period.

Dr. Miller gave up active direction of the department 3 years ago, and Dr. Alan K. Pierce, assistant professor of medicine, University of Texas Southwestern Medical School, became the medical advisor to the Department of Inhalation Therapy. Soon thereafter Mr. Victor Ince, ARIT, became the departmental supervisor.

Types of Treatment

The treatments given by the Department of Inhalation Therapy can be divided into 6 types. First, simple oxygen therapy may be given to patients who are unable to keep their blood completely saturated with oxygen while breathing room air. Although this was the only type of therapy available in the past, it is now the easiest of the inhalation therapists' duties. Second, patients with thick and tenacious secretions may have moisture added to their lungs by means of mist therapy supplied by heated, reservoir nebulizers. Third, potent medicines may be deposited in the lungs of patients by means of small medication nebulizers. Such medicines may be bronchodilators to open up obstructed airways, detergents to loosen thickened secretions, and occasionally antibiotics or steroids. Fourth, patients may



Inhalation Therapy — An Expanding Service

Inhalation Therapy Technician Charles Hill is shown above administering a specialized inhalation therapy treatment to a patient in Parkland Memorial Hospital. This department has recently taken over the prime responsibility for inhalation treatment administration.

MASTERS

(Continued from Page 4)

Boston University.

Prior to coming to Dallas, Mrs. White had experience as a staff nurse and head nurse in a general hospital, public health nurse and supervisor in health departments, and since 1955 she had been on the faculty of the University of Colorado School of Nursing. Since 1957 she had been chairman of the Department of Psychiatric Nursing in that School of Nursing and had developed further the master's program in that institution to include the mental health aspects of psychiatric nursing. She took two years leave from 1959 to 1961 to go to Boston University to do doctoral study.

Mrs. White has one daughter who is married to a career navy man and lives in Norfolk, Virginia. She has two grandchildren, both boys.

Thus, Texas Woman's University College of Nursing is contributing to the need for qualified nurses to take positions as leaders with clinical expertness in the field of psychiatric-mental health nursing, and in either teaching or supervision of psychiatric-mental health nursing. These positions could be in state psychiatric institutions, mental health clinics, community mental health centers, health departments, general hospitals, or schools of nursing.

be assisted to take deep breaths by means of intermittent positive pressure machines. Fifth, patients who are unable to breathe may be ventilated with intermittent positive pressure machines or other types of ventilators. Sixth, physical therapy may help patients breathe deeper with their own muscles, cough more effectively, and loosen secretions by means of postural drainage and back clapping.

Full Department Status

Until recently most inhalation therapy treatments have been administered by personnel of the nursing service. The Inhalation Therapy Department has operated primarily as a central supply for the equipment, an advisor to Nursing Service, and a teacher of nursing personnel. However, since good treatments require a considerable degree of skill, they are more effectively given by personnel who work full time in the field of inhalation therapy.

The department is now expanding considerably to take over the prime responsibility of treatment administration. This expansion offers an opportunity to selected Hospital District employees to move into this technical field. The department is accepting transfers of aides and orderlies who are already familiar with hospital work, and it is then training these peo-

ple in the technical aspects of inhalation therapy. Inhalation Therapy aides are responsible for the administration of treatments to patients; thus, they achieve the gratification of patient contact and of observing the patients recover as a result of their treatment. An active in-service training program is conducted for the aides at the bedside and through formal lectures. Other openings are available for Inhalation Therapy Technicians. Most of the technicians have graduated from Licensed Vocational Nurses courses, and they have chosen to continue their education by specializing in inhalation therapy. The technicians as-
(See INHALATION, Page 8)

Scholarship Aid

The Women's Auxiliary to the Dallas County Hospital District offers scholarship assistance to selected employees working toward paramedical degrees or certificates. This assistance may include tuition, books and other directly related expenses required for the training period.

Information concerning these scholarships is available from the personnel office.

Department of Obstetrics & Gynecology

Professional Activity Centers on Patients as Primary Responsibility

This is another in a series of articles concerning the clinical departments at the University of Texas Southwestern Medical School. The Department of Obstetrics and Gynecology includes a wide range of patient care centered activities — Editor.

The Department of Obstetrics and Gynecology has several integrated functions. As a department in the University of Texas Southwestern Medical School, it is primarily responsible for the teaching of medical students as well as maintaining an active research program directed toward improving the care of obstetric and gynecologic patients. As a clinical department of the Dallas County Hospital District, it supervises the care of obstetric and gynecologic patients at Parkland Memorial Hospital and provides a training program for interns and residents.

Jack A. Pritchard, M.D. has been chairman of the Department of Obstetrics and Gynecology of The University of Texas Southwestern Medical School and chief of the Obstetrics and Gynecology

Service of Parkland Memorial Hospital since 1955. Prior to moving to Dallas he was on the faculty of Western Reserve University in Cleveland, Ohio.

Dr. Pritchard has devoted his energies to the expansion and development of a department which has diversified research and clinical interests. Under Dr. Pritchard's direction, the department has expanded from a full time faculty of only two members to the present full time faculty of ten. One of the departments primary areas of interest has been to improve standards of patient care on the obstetric and gynecologic service of Parkland Memorial Hospital.

The obstetric and gynecologic inpatient service of Parkland Memorial Hospital encompasses five of the hospital's divisions with a total bed capacity of 140. In the labor and delivery rooms, located on 3 South, approximately 6,500 obstetric patients are delivered each year. Two divisions, 3 West and 3 East, care for these women in the immediate postpartum period. Antepartum patients requiring hospital treatment and a portion of

the gynecology patients are admitted to 4 East, while the major portion of the gynecology patients are cared for on 4 South. Last year the gynecologic inpatient service was responsible for the management of 1800 patients.

In addition to the inpatient services over 2000 patients are seen each month in the obstetric-gynecologic section of the emergency room.

Prenatal care is provided for through the outpatient clinics of Parkland Memorial Hospital as well as eight satellite clinics located in certain neighborhood sections in the City of Dallas. The gynecology clinics accommodate approximately 9000 outpatient visits each year. These clinics include regular gynecology clinics, gynecology tumor clinics, and special clinics directed principally toward the management of gynecologic endocrine abnormalities.

There are 18 residents in obstetrics and gynecology whose training includes outpatient and inpatient care as well as delivery room and surgical experience. In addition there are seminars as well as attending staff and resident lecture programs. The primary teaching responsibilities are carried by the full time staff but a large number of the private practitioners of obstetrics and gynecology in the City of Dallas contribute their time and talents.

The obstetric and gynecologic service also serves as a teaching facility for third and fourth year medical students and for rotating interns.

An active research program encompassing the fields of hematology, renal physiology, maternal and fetal physiology, and endocrinology as well as diversified clinical research interests are presently an integral part of and indicative of the progressive attitude of this department.

Primary to the effectiveness of the department is the cohesiveness of the professional staff. This group can be divided into medical, nursing, dietetic, social work and other supporting services. All these groups are essential to the proper running of the department and to the rendering of good patient care.



Jack A. Pritchard, M.D.
Professor and Chairman



Ann Robinson, R.N.
Nursing Supervisor

Accreditation Survey

The Dallas County Hospital District has been surveyed by Robert E. Nuernberger, M.D., a field representative for the Joint Commission on Accreditation of Hospitals.

Dr. Nuernberger conducted his survey March 22-24, 1967.

The JCAH was organized in 1952 as a direct successor of the accreditation program begun by the American College of Surgeons in 1918. The Commission is an independent, voluntary, non-profit organization with representation from the American College of Surgeons, American College of Physicians, American Hospital Association, and American Medical Association.

This voluntary program has as its purpose to improve the quality of patient care in hospitals. Its method of fulfilling this purpose is to establish minimum standards of quality which hospitals must meet to become accredited, and then to urge and assist them to surpass these minimum standards.

The Dallas County Hospital District has been an accredited institution since its inception in 1954.



Nursing — Important Part of Obstetrical Care

The head nurse on 3 East, Judy Crouse, shown above, right, finds that she doesn't need to give this new mother too many instructions about child care. The patient is Vester Martin, an LVN II on 4 East, when she is not a mother.

Chatterbox

Completing five years of employment with DCHD and now eligible for the Pension Program are **Emma Lou Jones, Shirley Randall, and Johnnie Mae Rose.**

Recent promotions include **Rus-**

CONSULTANTS

(Continued from Page 1)

The study and recommendations should require six months to complete. A final report will be due by September 15, 1967.

The firm of Don Clark and Associates is primarily financial consultants to hospital administration. It specializes in assignments requiring a high degree of financial capability and in developing practical programs tailor-made to the needs and budgets of the client hospital. Don Clark, president and founder of the firm, was formerly in charge of management services for an international public accounting firm. He also served as vice president of a multi-million dollar manufacturing company. He is presently a member of the Board of Trustees of the Nebraska Methodist Hospital and the Lay Advisory Board of St. Joseph's Hospital in Omaha, Nebraska.

The Omaha, Nebraska based consulting firm is presently installing an "on-line" computer system in Charlotte, North Carolina, for a group of hospitals in North and South Carolina totaling 3,500 beds with a communications network of 500 doctor's offices. This particular computer system will consist of two large computers with cathode ray (television) hook-ups to each nursing station and ancillary department in the hospitals. The system is expected to substantially reduce the cost of operations in these hospitals while freeing nurses and other paramedical personnel from time consuming paperwork.

Don Clark and Associates are presently performing consulting work in Georgia, Illinois, Nebraska, and the Carolinas, as well as Dallas.

The Dallas-based members of the consulting team assigned to the Hospital District and the County of Dallas are Mr. Robert L. Walker, Mr. J. Steven Morrisett, and Mr. Mason R. Chrisman. Assisting them from the County Auditor's Office are Mr. Bill Roberts and Mr. Rudy Fields. Assistant Administrator Peter N. Geilich is coordinating the study in the hospitals.

Sell S. Olds to Supervisor of Accounts Receivable and **Foy L. Campbell** to Chief Accountant.

Housekeeping has recognized **James Edward Bennett** as Employee of the Month for January, 1967, and also promoted him to Housekeeping Aide Leader in the Emergency Area. **Alberta Polk**, Woodlawn, is the housekeeping employee especially recognized during February.

Gerald Crider is the new Associate Director of Property Service and **James Cornell** is the new Night Housekeeping Area Supervisor.



Olds

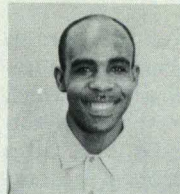


Polk

Jack J. Jones, has recently been promoted to Captain, Security Supervisor for that department.

Four foreign trained nurses have recently arrived to supplement our professional nursing staff — **June**

Allen (Australia), Operating Room; **Kenez Seivwright** (Jamaica), Woodlawn Psychiatry; **Doris Pike** (Tanzania — England), Isolation; and **James Gallagher** (Ireland), 2 West. The nursing supervisors continue to express admiration for the contribution made by these well qualified nurses.



Bennett



Crider

Recent promotions in Nursing Service include **Carol McVay, Julia Logan** and **Genilene Curtis** all to Assistant Head Nurses and **Janet Ann Marvin** to Head Nurse.

Lana Jean Thompson has been promoted to Lead Aide and **Betty Crenshaw** to Charge Coding Clerk in CSR.

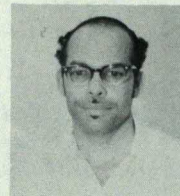
Special recognition is due **A. P. Gaddis**, Nursing Service Orderly, who completes 20 years of service on April 9.



Gaddis



Jones



Seivwright



Gallagher

INHALATION

(Continued from Page 6)

assist the aides in administering treatments and help to organize the treatment schedule. Since the technicians also require further training, they are given a lecture series as well as bedside teaching.

Skills in Demand

"Although most of the departments' personnel are new to inhalation therapy," notes Vic Ince, "they are making great strides in giving treatments more effectively. They are gaining great satisfaction in their work as they observe their own performance improving. Moreover, there is the gratification of being in on the early phases of an expanding paramedical specialty with the realization that their specialized knowledge will be more and more in demand in the future."

The American Association of Inhalation Therapists is a national organization whose aim is to promote better inhalation therapy in the United States. The local chapter has monthly meetings with both scientific and social programs. Active membership in this organization is encouraged. Ultimately the good practicing therapist may take written and oral examinations of the American Registry of Inhalation Therapists to certify his competence in the field.



Fourth Floor of Outpatient Clinic

Work is progressing on schedule for the fourth floor addition to the Outpatient Clinic. It is expected that the new floor will be ready for occupancy in September, 1967.

LVN Class Begins Clinical Affiliations

On May 5, 1967, class number 45 of the Dallas Independent School District's Vocational Nurse Program will begin an 8 month clinical training period at Parkland Memorial Hospital.

Vocational nursing classes begin in January, May and September of each year. Any person interested in this program should contact the Director, Miss Myrtie Drake, R.N., at 2222 Ross Avenue or the personnel department at PMH.

From the Desk of:

ROBERT S. TRAVIS
877-2865

September 15, 1987

Mr. William E. Roberts
1740 Azteca Drive
Fort Worth, TX 76112

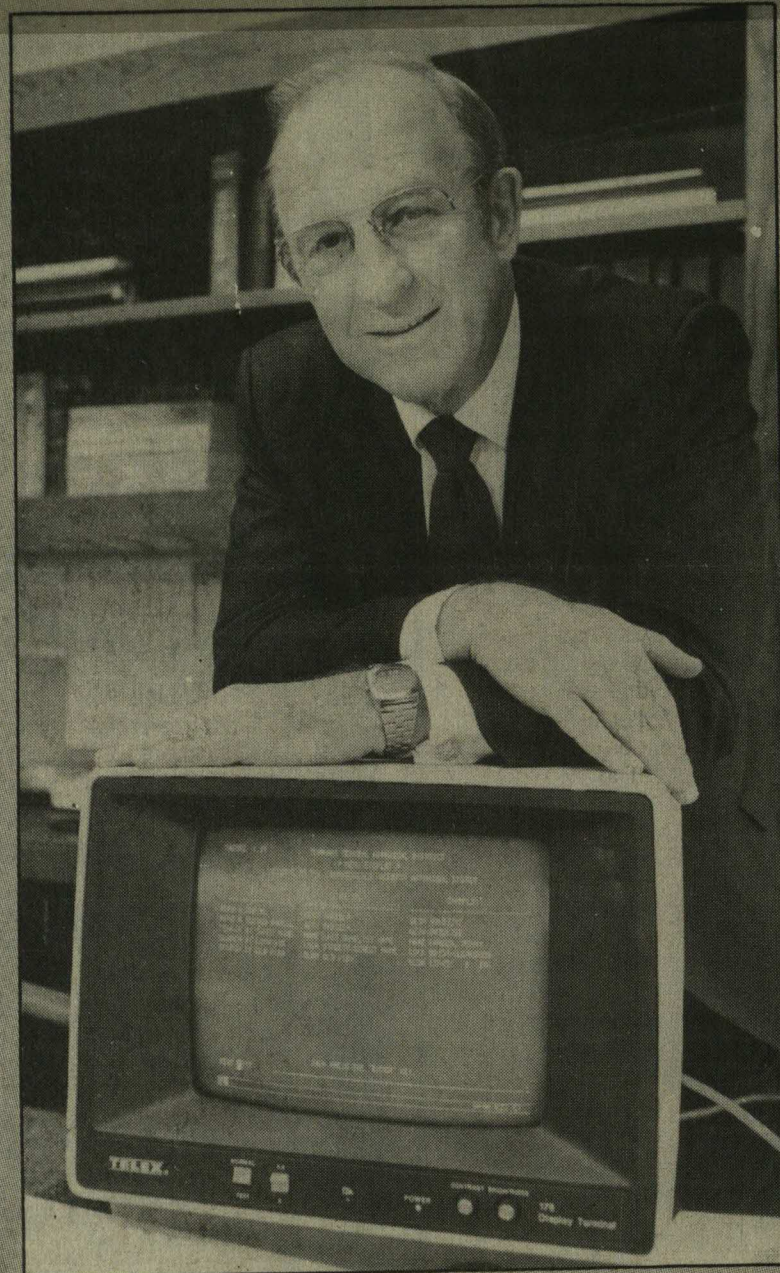
Bill!

This noteworthy news article should be kept by you. It is the kindest thing I have read about the tax man.... See you Wednesday.

RST

Compliments of: **BOWNE** of Dallas, Inc.

1931 MARKET CENTER BLVD. • SUITE 111 • DALLAS, TEXAS 75207
(214) 651-1001



Bill Roberts remembers ignoble whacks

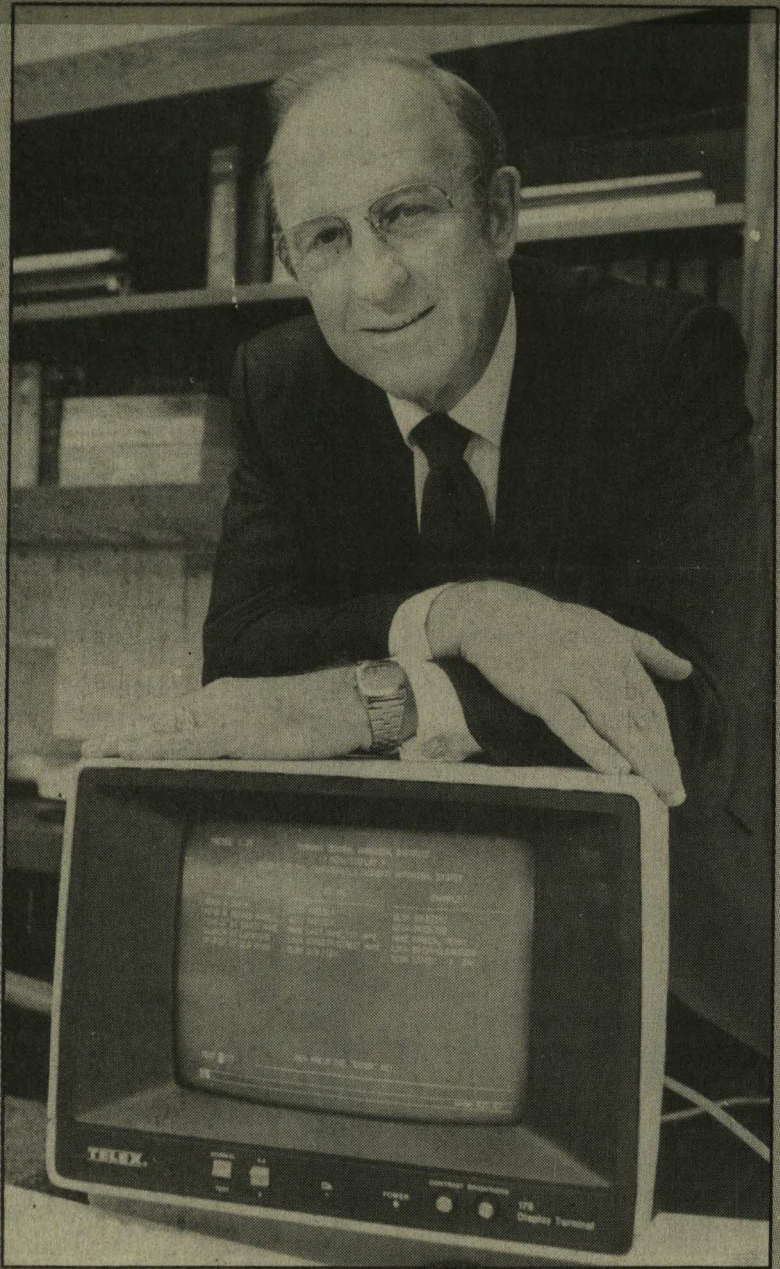
And special thanks to Wherry Furniture Co.

Bill Roberts, chief appraiser of Tarrant Appraisal District, recalls another strict teacher: "I went to school in Modesto, Calif., and then Santa Clara. The toughest teacher was a lady by the name of Miss Phelps. She had an unusual tactic. The Wherry Furniture Co. gave away free bundles of yardsticks. So she'd get a bundle of those, and her method of discipline was to whack you across the shoulders if you weren't paying attention.

"She broke a couple dozen on me in the sixth grade. It didn't hurt as much as the ignoble act of being disciplined in front of your peers. By today's standards I guess it was excessive. I know you're not supposed to strike students now.

"But, you know, I now dearly love Miss Phelps. In her class, we learned. By contrast there was another teacher that year who was so shy that we never learned a darn thing in her class. I've even forgotten that teacher's name, but I sure do remember Miss Phelps."

My dear Bill,
Just want to thank
you for your kind-
ness about my taxes.
What would we
do without true friends.
Hope you take
care of yourself!



Bill Roberts remembers ignoble whacks

And special thanks to Wherry Furniture Co.

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RST

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1931 MARKET CENTER BLVD. • SUITE 111 • DALLAS, TEXAS 75207
(214) 651-1001

My dear Bill,
Just want to thank
you for your kind-
ness about my loves.

What would we
do without true friends?

Hope you take
care of yourself!

Please thank Charles
Bratches for his help. He's
very nice.
A.

Give my love to
Lesbia.
I'm very proud of
both you!
I call you both
my friends.

Lovingly,
Blanche Bonn

June 23rd

From the Desk of —
JEAN TUNSTILL

Great picture!

We are leaving tomorrow
for Beijing, Hong Kong &
Honolulu. (a week in
each place) Be home
Sept 19th. Talk to you all
then.

Love,

Jean Tunstill

WILLIAM E. ROBERTS
1740 AZTECA DRIVE
FORT WORTH, TEXAS 76112
817 334-1180

Cal

April 26, 1988

Don Woodard, Sr., SFWP
Seven C's
University Center II, Suite 521
1320 South University Drive
Fort Worth, Texas 76107

MAY 10 1988

Dear Don:

I have a feeling that there might be quite a bevy of taxpayers who would enjoy witnessing my come-uppance and my embracing a moose.

In particular, I would like for you to include such of those on the attached list that you deem appropriate in your eminently functionary wisdom.

Selah! and best wishes,

Bill

William E. Roberts

WER:om
Encl.

Dear Mike:

Yours was one of the names on Bill's list. Hope you can be present!

Whyncha bring Rosie? Don

May 9, 1988

Seven Seas

HILARIOUS, OUTRAGEOUS COMEDY!

Season's Greetings

NEW IMPROVED!

LIFE IS A CABARET!



Larry Morrell
Birdass for Life

FROM C TO SHINING C, IT'S FRIDAY MORNING LIVE!

The Spring convocation of the Common Citizens and Celebrities Coffee, Cake and Champagne Chili (7 Cs) will be held in the High C-erra of the Petroleum Club (40th floor) on Friday the 13th of May, beginning at 9:15 AM. It will be over at 10!

The Birthday Boy will be the most powerful man in Tarrant County. Our fate is in his hands.

"He's smart, he's shrewd, he's articulate he's highly committed, and he's very ambitious." I'm talking about Bill (Just a TAD will do you) Roberts, the Big Enchilada of the Tarrant Appraisal District. Never mind that he is actually a Sagittarius from December. The Supreme Functionary has decreed that December shall be moved to May. Selah!

TRUST ME.



Bill Roberts: Appraisals on expensive homes may drop



I haven't done no harm to no one.

HA HA HA HA!

I BRING JOY TO THIS PREARY EXISTENCE



"SFWP The Man, The Myth, The Legend."

Pattonly The Supreme Functionary

WASTE NO TIME IN ADULATION OF THE SUPREME FUNCTIONARY.



Mayor Bob Bolan

YOU BRING MONEY! FIVE DOLLERS WOULD DO IT REAL GOOD.

Ho, every one that thirsteth, come ye to the 7 C's, and he that hath no money; come ye, eat chili and drink champagne, without money and without price!

C is for caucus, chaos and CHILI

acm Association for Computing Machinery

1133 AVENUE OF THE AMERICAS
NEW YORK, N. Y. 10036
(212) 265-6300

April 29, 1974

Mr. William E. Roberts
Information Systems Department
Tarrant County
Fort Worth, Texas 76102

Dear Bill:

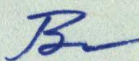
Please accept my apology for not responding sooner to your kind letter of March 19. We have been trying to move the Chapter and Professional Development programs along, and to organize sessions for the next three national conferences. As a result, much of my correspondence has been queued.

Let me briefly say that I agree wholeheartedly with your observation of the gulf between the practitioner and the academician. It was in recognition of the fact that the academics have stopped doing things for us and have developed a sort of inbreeding of ideas, resulting only in propagation of publication points for themselves, that I made my Wharton comments. I think the root problem is that people tend to spend their time doing what they get paid to do. Academics get paid to publish what they do, and to otherwise get their name in the limelight through conferences, etc. Business types tend to get paid to keep their attentions close to home and take a low profile professionally. We would really like to drag the business practitioners out of the bushes and have them talk more about what they are doing and what should be done, but it is not easy to do. They just do not seem to be able to make the time available for it.

I greatly appreciate your offer of involvement, but am holding up on making any specific request for your assistance to see how some of our programs take root. We really need more people like you who are willing to put some time in. Let me know meanwhile if there is something particularly you would like to be involved in.

Thanks again for your comments and your offer of assistance. I hope to see you in Chicago.

Cordially,



Bruce H. Wrigley

BHW:jj

IBM official says data bank security is tight

By TOM SIEGFRIED

AUSTIN — Though people fear the growth of personal data banks, an IBM official insists that private information is more secure in computers than in filing cabinets.

Larry Thomas, director of data security at IBM's headquarters in Armonk, New York, told a press gathering here this week that access to information can be limited as well as enhanced by computers.

"Information stored in automated systems can be made more secure than information maintained in the old way," Thomas said.

He pointed out that a person given a key to the filing cabinet can look at any file in it. Not so with computers.

"If the data's in a computer file, you can restrict the person's access to that information," Thomas said, "or allow him access only to certain parts of it — your name and age, for instance, but not your salary level."

EVEN WITH COMPUTER safeguards, Thomas said, information storage is a topic of increasing concern these days. And the proliferation of computers throughout government and industry is adding to that concern.

"A few years ago, when one mentioned privacy or data security, there was a great deal of emotion involved," noted Thomas. "I think at least now we're able to rationally discuss the problems and the issues."

Thomas explained that the privacy question concerns the right of people to keep confidential personal data from widespread dissemination, though some of that data might be released selectively

to gain special services, such as Social Security.

"What we're speaking of is the ability for you and I as individuals to release certain information about us to achieve certain services we desire, but to have control over that information so that it does not go to other people," said Thomas.

He said there is a conflict between the desire not to have information known by others and the desire to gain services that require information to be known by others.

"THE ISSUES and the conflicts between those two desires have been with us long before the computer came on the scene," Thomas said. "We must recognize that the computer has at least heightened the intensity of those issues and conflicts."

Thomas noted that several studies on privacy and data security have been conducted over recent years. Several principles of data storage have emerged from these studies, he said.

For one thing, a person should know that records about him are kept and how they are used. He should have a means of determining what is in his file and should have the ability to correct errors or omissions.

Also, the custodian of the data should take precautions to see that information is not stolen or misused, Thomas said.

With computers, access to information can be limited by the use of codes which will

Prairie, forests fade

In 1832 the state of Iowa was 85 per cent prairie and 15 per cent forest. Today it is 7 per cent forest and less than 1 per cent prairie.

permit only authorized individuals to call up information from the memory banks.

"The real problem is the authorized user who makes unauthorized use of the data," said Thomas.

REPORTS HAVE indicated, Thomas said, that now is the proper time to devise guidelines for the use of data banks.

"Later, we might find automated systems so entrenched that it would be difficult to modify them," he commented.

He cited the study by Sen. Sam Ervin, D-N.C., that showed some 800 data banks in 54 government agencies contain 1 billion records on people in the United States.

Bills are now in both houses of Congress, Thomas said, that would establish data bank guidelines.

A related topic concerns the possibility of establishing a "universal identifier," — a number given each individual at birth.

"In the United States there's a great reluctance among most people to have a universal identifier," said Thomas. "It turns out that in effect the Social Security number has by default nearly become a universal identifier."

He said many times people are asked for their Social Security number by someone who has no true need for it.

"I WILL ASSURE you that if you've ever attained a mortgage you gave somebody your Social Security number," Thomas declared, "and yet by law you did not have to do that. If you didn't, you probably wouldn't have gotten the mortgage."

He said no definitive studies have yet been made on the pros and cons of universal identifiers, although "there has been a considerable debate focussing on the Social Security number."

Of course, not everyone hates Social Security number, Thomas pointed out. He recalled one time he was speaking to a group about universal identifiers when a man in the back of the room suddenly spoke out:

"My name is John Smith, 234-51-2128, and I LIKE my Social Security number," the man declared.

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Afips Releases Reference Text

Revised Study Applies Job Descriptions

By Edith Holmes
 Of the CW Staff

MONTVALE, N.J. — In a companion reference text to its *Computer Programmer Job Analysis* completed this summer [CW, July 10], the American Federation of Information Processing Societies, Inc. (Afips) explains not only what computer programmers are and what they do, but how these descriptions apply to actual job situations.

Including fewer research results and descriptions of methodology, this revised edition of the study emphasizes workable job descriptions for programmers and discusses their application to professional standards, DP management, career development and training and education, according to Afips.

While the authors of the reference text retained descriptions of the project, the research approaches used and the universal job descriptions created for business, scientific and engineering and systems programmers, they said they intended their revision as a means of making the initial report more accessible to managers, training directors and personnel people.

In addition to the "ideal" and "as-practiced" job descriptions definitions combined to form universal job descriptions in the original publication, the revised version of the Afips study includes specific focus and organizational job descriptions as well.

Types of Descriptions

The study defines each type of job description as follows:

- Ideal: the description consisting of task and skill statements rated by experts in the computer industry as highly important to the programming job.

- As-practiced: the description including task and skill statements rated by active programmers in a national survey as containing moderate to high importance in their jobs.

- Universal: descriptions for business, scientific and engineering and systems programmers comprised of task and skill statements given moderate to high importance ratings in both the ideal and as-practiced job descriptions.

- Specific focus: descriptions defined by distinct lists of task and skill ratings

Education Inadequate For Business DPs

(Continued from Page 1)

He urged teachers to gain whatever experience they can by spending time working outside the university. While recognizing "it would not be a simple matter to arrange for individuals to move freely between the academic environment and the industry environment," Glaser commented "perhaps we should try to make it so."

Computer science graduates should also have received training in areas other than, but related to, computers, he remarked. "A graduate with a basic understanding of industrial problems, whether acquired in an engineering program or in a business administration program, and who, in addition, has an understanding of computers and their limitations could be a most useful employee."

While he listed attempts by Afips and other societies to increase competence in computing through job descriptions, self-assessment and certification programs and manuals detailing design practices, Glaser concluded "the universities must teach the fundamentals."

And the universities "are our only hope," in Glaser's view, even though, "I am not satisfied that the significance of the problem is fully appreciated in academic circles or that those who are in a position to take the necessary steps to solve it are prepared to do so."

developed for subgroups of programmers identified according to job title, programmer level, months of experience, amount of education, size of computer used, kind of computer and primary language.

- Organizational: descriptions specific to the philosophy, standards and equipment of a particular organization, especially useful to those organizations wishing to tailor a job description to its DP needs and traditional procedures.

Applications

The *Computer Job Programmer Analysis/Reference Text* then takes these job descriptions and suggests areas where they might be applied. The universal job description, for example, could assist in developing certification standards and in administering, recruiting and evaluating personnel, the study said.

This universal look at computer programmer responsibilities and skills might also help formulate career paths and should be taken into consideration when devising a training curriculum, the text added.

Similarly, the ideal job description could help meet the needs of certification, productivity improvement, career pathing and training programs.

Instant Access Crime Files Used More Often in Arrest Decisions

(Continued from Page 1)

routinely have used rap sheets in prearrest situations (to find out what a suspect looks like, for example, if he has a record of carrying a gun), they have relied on local files "because most crime is committed by local people... on whom the agency has a current criminal history file... [and] it takes too long to receive information from state or FBI files."

More than half of the requesting agencies reported it takes about two weeks to get a fingerprint record from FBI or state files, thus limiting its use for prearrest purposes.

In the case of the computerized criminal histories, however, 34.9% of requesting agencies reported a response could be obtained in less than an hour, and 23.8% reported a response took little more than one day but much less than a week.

Such records could be obtained more readily before an arrest was made.

Requests Quadrupled

The number of requests from the Computerized Criminal History (CCH) system's files had quadrupled since 1972, the report showed.

In 1972 about 141,000 records were requested. Calendar year 1973 data revealed that CCH transactions had increased to 323,000. By June 1974, 226,000 CCH transactions had been counted and the report estimated that 450,000 transactions will have been made by the end of this calendar year.

While a majority of the requesting agencies did not consider a two-week response time for an FBI fingerprint report too long, the report speculated that criminal justice agencies have merely adjusted their operations to the system and do not consider it necessary to have criminal histories sooner than they normally receive it.

Improvement Possible

But, the report said, police officers are learning that as they receive this information "by computer" and receive the information "sooner," "their operations can be improved."

"Computerized criminal history data could affect the way criminal justice agencies view and use such data," the report stated.

In addition to aiding the definition of accreditation and licensing standards for computer programmers, the as-practiced description could assist in the legislation of professional standards and in guiding and evaluating personnel, the study indicated.

The report also suggested specific focus definitions of the programmer's job be used in all aspects of DP management, in career development and in training and education, as well as in accreditation.

Organizational descriptions are designed primarily for use in career counseling and in directing, recruiting and evaluating personnel for a particular company.

Put Into Practice

The study noted that when the report was being written, two organizations had used task lists developed in Afips' research to determine their own descriptions, in one case for business and systems programmers and in the second for scientific programmers. "The special purpose in both instances was to establish a basis for evaluating on-board programmers," the text explained.

Copies of the 195-page reference book are available at \$10 each from Afips Press, 210 Summit Ave., 07645.

The findings are being interpreted by some CCH critics as a warning that computerized criminal history records warrant more strictly enforced access and privacy rules.

"Their mere existence invites access in cases where there's a doubt as to whether an individual should be arrested. The suspect with the record is far more likely to be picked up," one critic said.

The GAO also discovered sloppy dissemination practices in the states sampled. In Florida, for example, 13 criminal justice agencies either allowed unauthorized access to the files or furnished criminal history data to agencies not authorized to receive it.

In Massachusetts, 10% of criminal history requests came from persons over the telephone who later could not be identified. This indicated, the report said, that the department's procedures for answering telephone requests were inadequate.

Correspondence with officials in both Florida and Massachusetts indicate they have taken action to correct these problems.

Random Samples

The study was based on random samples taken of criminal justice agency requests made to the FBI, the California, Florida and Massachusetts state criminal records bureaus and on discussions with federal, state and local criminal justice officials.

Requests to the FBI fingerprint file and to the state bureaus were sampled during a one-week period.

The CCH requests were sampled over an eight-week period since the system is so new that one week's requests would have provided too small a sample, the study said.

Requests to CCH in the eight-week period totaled 1,564, while one week's requests for FBI fingerprint records totaled 12,931.

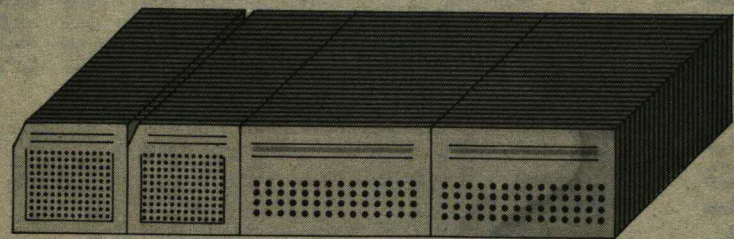
The report noted the CCH system has data on only about 2% of the 21 million individuals on whom the FBI has criminal history information.

The Justice Department pointed out that while criminal histories from only four states are held in the CCH system, 44 states use CCH file materials.

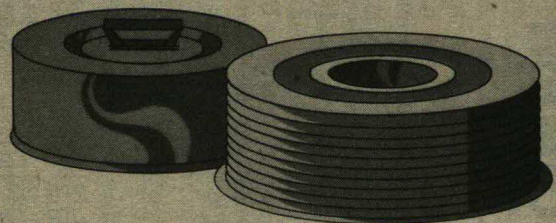
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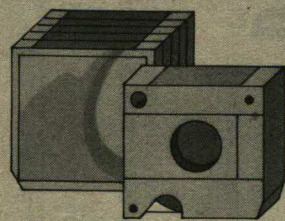
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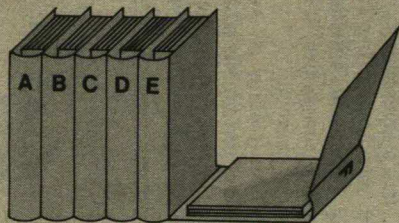
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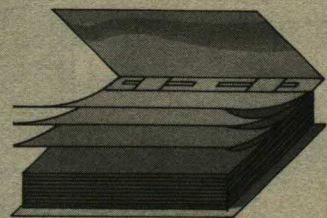
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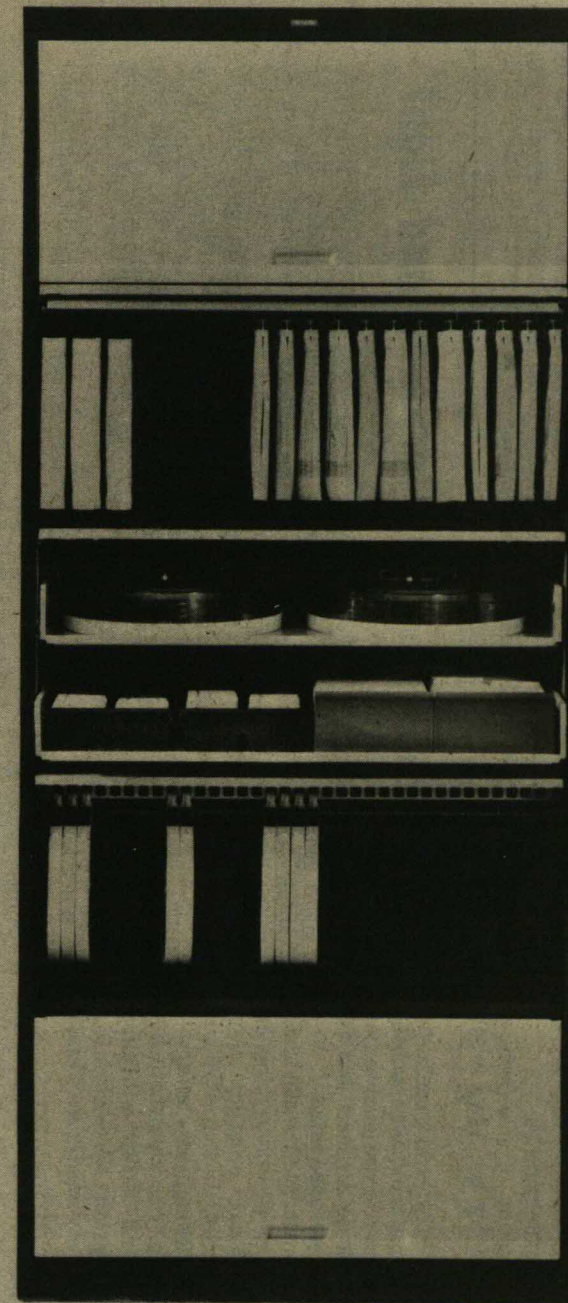
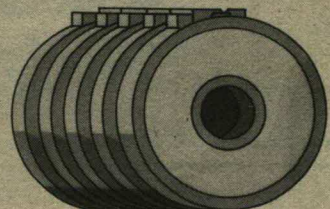
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Biddle Says IBM, AT&T Strategy Will 'Cage In' Users

(Continued from Page 1)

satellite system operational within three or four years. Geared to government and business customers, it will be an integrated digital system with high-speed data, voice and image capabilities."

Unlike today's systems, Biddle continued, "it will not depend upon large ground stations connected to the user through AT&T local loops. Rather, the system, operating in the X band, will utilize a multitude of customer-dedicated antennae and only a few general-use ground stations."

IBM will probably soon start marketing its 3750 electronic switching system in the U.S., Biddle predicted. A "sophisticated PABX," the 3750 has been optimized for data switching but also has all of the features required in an integrated communication system, including "direct dialing, tie lines, data access, signalling, 60-cycle power, call directors, satellite connection and automatic over flow routing," he told the conference.

Initially targeted at the larger user, where IBM has more than 65% of the computers, IBM's project Carnation is expected to contribute \$5 billion in revenues and over \$1 billion in profit over the first five years of the program, Biddle

noted.

The elements of IBM's overall strategy are now apparent, Biddle claimed. They include:

- Future Systems (FS). The fourth generation of computers will employ up to four parallel processors, mass storage and will probably be field-expandable.

- A significant amount of maintenance will be performed by the user, Biddle predicted.

- System Q. A software system utilizing both conventional software and firmware. The system may be designed so that resource usage can be metered and the customer charged, he commented.

- Custom Terminals. Biddle said these would be a "family of unique, application-oriented terminals using extensive microcoding, new IBM de facto standard protocols and midlife enhancements."

- Bundled Pricing. The opportunities to offer full end-to-end service will allow IBM to bundle prices once more... [and] freeze out any significant competition that might develop."

- Data Security. In order to solve the data privacy-security problem, Biddle said, automatic encryption will probably be an integral part of each element of the system.

There will be relatively few "foreign or competitive devices" in the system, Biddle warned. IBM will not disclose communication protocols or electrical, mechanical and logical interfaces until "well after the market is locked up."

In addition, scrambling and encryption techniques will be utilized "as an umbrella" over the entire end-to-end system, he said.

Four Lock-Out Procedures

Switching to the Bell System, Biddle said "AT&T has retained its absolute monopoly power over the communications market for more than 90 years through four relatively simple lock-out techniques."

First, he explained, it was able to monopolize the local exchange market when it obtained a "patent monopoly on Mr. Bell's invention."

By interconnecting its companies with long lines and refusing to interconnect non-Bell companies, it killed off competition, he claimed.

By controlling all system architecture and by producing all of the equipment used in the system, he continued, it was able to prevent the development of indus-

try standard interfaces and thus block interconnection.

Lastly, by "manipulating the weak and unsophisticated Federal Communications Commission" it was able to "cast [its] anticompetitive practices into bronze in the tariffs," he said.

"You and NRMA have made a major contribution in the growing resistance to

anyone at the lowest possible cost, Biddle said, and operating companies should be free to purchase the equipment they use in "open and competitive markets."

But, Biddle predicted, "IBM is going to bail them out."

"After all, how could a poor little old restructured Ma Bell compete with a giant monopoly like IBM?"

'The Time Has Come to Stand and Fight'

QUEBEC CITY — Users may be the major group able to fight the potential monopolization of the computer and communications business by IBM and AT&T, A.G.W. Biddle, executive director of the Computer Industry Association, told NRMA attendees last week.

"The time has come to stand and fight on both fronts — computers and communications," he said.

It's time you, the user, told your suppliers to grow up and put their childish games aside.

"It's time you told the FCC, AT&T and IBM that all interfaces, codes and protocols be fully disclosed — both hardware and software — and must be disclosed early enough to allow you to choose between the compatible and competitive offerings of at least three vendors or you won't play.

"You should insist that all elements of a product or service offering be separately priced," he said.

Users should ask the FCC to require "all equipment purchased for use in the nation's communications system, be it local service, terrestrial or satellite, be procured on an open, competitive bid basis. Furthermore, there should be no joint or bundled marketing efforts between CML, IBM and AT&T operating companies or Western Electric.

"All transactions should be at arm's length," Biddle indicated.

"No strategies intended to lock you, the user, into a sole-source system should be tolerated nor should anti-competitive and exclusionary tactics be permitted," he stated.

"Do these things and someday ye shall be free — free to choose what's best for you and your company — not just what's best for AT&T and IBM's profit and loss statements," Biddle concluded.

the misuse of AT&T's monopoly power," Biddle told the attendees. "Ma Bell is in trouble. People finally have realized... the customer should be able to choose any properly certified terminal he wants on the end of that pair of wires."

Local operating companies should be able to procure long-line service from

Perhaps of greater significance, Biddle said, IBM will "get the MCIs, Datrans, Western Unions and other 'cut-throat' competitors out of Ma Bell's hair and they can compete like proper gentlemen — at their accustomed 25% pretax net and controlled 14% per year rate of growth."

Bank in Indiana Avoids Running Document Processor Under VS

(Continued from Page 1)

He stressed the "hard dollar" justification of the move to the new equipment. The cost of the new peripherals (another is still on order for delivery late this year) and their operators comes to less than the cost of the present and future 2956s, their operators and the miscellaneous equipment and operators INB would need to duplicate all the functions built into the 3890 and the volume of documents they can handle.

'Considerable Parallelism'

Software manager William D. Beal tended to play down his group's efforts, estimating that it required no more than "about 33 man-days" to make all the changes. There is "considerable parallelism," he said, between the OS handling of the older 1419 and 2956 Micr reader/sorters and OS/VS1's management of the 3890.

There are, however, a number of capabilities that are completely new with the 3890, such as one- or two-side microfilming of documents as they move through the transport mechanism. Happily the IBM coding for these features is well documented and could be moved to OS "fairly easily," Beal said.

The ability to program the CPU built into the 370, through a macro processor in the 370, also posed some problems "but nothing we couldn't solve." The 3890 CPU controls the fine-sorting operations of the unit "so operators don't have to fiddle with switch settings," Beal explained.

INB has come a long way in a short time. Until it received its first 370/155 in early 1973, it was a multivendor operation with Burroughs B3500s installed for Micr processing and Univac Series 70/45s

in place for batch processing.

The 155s each had 1M of main memory then and one is currently being expanded to 1.5M. The bank also has 18 tape drives — mostly 3420 Model Vs using 1,600 bit/in. densities — and 20 Model 3330 disk spindles, including two for 3330-11 double-density packs.

Three 3211 and two 1401 N1 line printers are also in the shared Hasp configuration.

A growing network of remote terminals will include, by year's end, 100 Sanders 720 and IBM 3270 CRT-based devices operating under Cics but using Total's access method. The bank also has an IBM 7770 audio response unit in place capable of reacting to 24 simultaneous inquiries.

Both Beal and Spall noted that INB also houses a Digital Equipment Corp. PDP-11 based switching and capturing system for Bankamericard credit authorization operations.

SigBDP To Provide ACM '74 Sessions

(Continued from Page 1)

(Sigcas) will also sponsor a forum on computers and public policy.

Opening Monday morning with addresses by ACM president Jean Sammet, keynoter Robert S. Barton of Burroughs Corp., and the A.M. Turing Lecture by Turing Award Winner Donald E. Knuth, the conference will host the annual U.S. Computer Chess Championship Tournament.

The full conference schedule, registration and hotel information may be obtained from Lyn Swan, ACM '74, P.O. Box 9366, 92109.

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But Speaker Says It's Happening

POS-EFTS Tie-In Not Yet Economically Justifiable

By Ronald A. Frank
Of the CW Staff

QUEBEC CITY — Although banks may want to install their terminals next to retail point-of-sale (POS) terminals, the economics will not justify such an approach, according to James Douras, treasurer of the Charge Card Association in Detroit.

Speaking at an NRMA session dealing with the possible tie-in of electronics funds transfer systems (EFTS) with POS, Douras said data from bank terminal tests show that a volume of over 500 transaction/mo are required to justify such an installation.

Actual volumes average only 150 per month, he added.

Retailers and banks each have terminal networks with divergent views and a tie-in between the POS and EFTS systems "is not clear," he said.

Banks are concerned with such items as descriptive statements on bank accounts, electronic clearing of checks between banks, manned teller terminals, preauthorized entries for utilities and insurance payments and payrolls and authorization systems to control check and bank card exposure.

In contrast, Douras told the session's attendees, retailers are concerned with the total management of their business with POS primarily through inventory and sales information and secondarily through credit control of the retailer's credit card. And these functions are not usually considered by EFTS systems.

Tie-Ins Have Occurred

Despite the differences, some limited tie-ins between EFTS and POS have occurred. Bank cards are the most evident, with over one million retail outlets accepting these credit cards, Douras said. For many retailers up to one-half of the sales volume is purchased with bank cards.

These cards are also finding acceptance in supermarkets and other stores, he added.

In a national trend, major retailers are selling their credit card receivables to banks. This is done in a way that the merchant retains the identity on the card and billing, but it frees up working capital for the retailer, Douras said.

Further interfacing with bank systems and POS will allow retailers to achieve economies of scale "not available from single store systems," he said. Banks have lowered costs through multibank processing at one center.

'No-Risk' Transactions

When the Master Charge and BankAmericard on-line nets are tied into POS they will provide the retailer with the ability to accept credit transactions "from 40 million out-of-town shoppers at

'UFOs' Predicted To Occur in Russia

CHICAGO — UFO sightings, like history, seem to repeat themselves, a psychologist at the University of Chicago has found after an eight-year study.

UFO "activities" reach a peak every 61 months and follow a definite geographical pattern, according to Dr. F. Davis Saunders.

Saunders fed details of 50,000 UFO sightings into a computer at the University of Colorado and found a distinct pattern of peak activity every five years and one month, each time moving across the globe from west to east in jumps of 1,500 to 2,000 miles.

"Judging from this pattern and the results from the computer, the next peak period of UFO sightings will occur about Christmas 1977, around the Aral Sea in southern Russia," he predicted.

no risk," he said.

Douras predicted that both charge plans will announce national debit cards soon through local banks.

In order for the banker/retailer interface to evolve, EFTS nets will have to support multiple types of POS terminals and allow interface with retailers at the central CPU level. EFTS nets will have to capture store data as well as bank data, he added.

This type of large-scale interfacing will achieve a higher utilization of phone lines than is now possible with single company systems, he estimated. The two industries will interface "on a mutually beneficial basis," he concluded.

Disagreement

Taking issue with Douras' comments, Roger Hancock, payment systems consultant at Irving Trust Co., told the session that progress in the EFTS area was

being hampered by the studies now underway in Congress and before different government agencies.

In various ways, the EFTS question is

CW at NRMA

being affected by the Federal Reserve, Federal Home Loan Bank Board, Justice Department, controller of the currency, the Congress and individual state agencies and they are all trying to lend direction to a very complex situation, Hancock said.

"Before we finish, the Federal Communications Commission, Federal Trade Commission and the Department of Health, Education and Welfare will get involved," he said, adding as long as they persist EFTS will be of insignificant na-

tional consequence.

"We don't believe that the consumer will accept the bank card as the means under which EFTS will come about," David Phillips, vice-president of First National City Bank, told the attendees.

No Belief in EFTS

"We don't believe in EFTS but we believe that there is an opportunity to apply systems that will solve both retailer and consumer problems."

He described the 5,000 terminals installed in 2,000 retail outlets in the New York area. The bank's customers use debit cards on this network at the rate of 150,000 transaction/day for checking accounts. The system also handles 25,000 credit authorizations daily.

This system is a base for future ways to serve both consumers and retailers, Phillips said.

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XEROX

Choice of OCR-A Result of Three Groups' Meetings

By Toni Wiseman
Of the CW Staff

QUEBEC CITY — Following an opening panel announcing the acceptance of OCR-A Size 1 as the voluntary industry standard [CW, Oct. 29], attendees at the National Retail Merchants Association's (NRMA) 16th Annual Information Systems EDP Conference heard how the systems specifications working committees had developed that standard.

G.W. Wetzel, manager of marketing services at Recognition Equipment, Inc. and chairperson of the Character Set Definition Task Force, described the decision-making process his group went through.

According to Wetzel, the group knew that OCR-A was the accepted standard, that a limited set of characters would be required to identify functional requirements and the identifier codes would have to be relevant to data elements they represented.

The group followed recommendations by the chairman of the Ansi X3A1 com-

mittee that it use the OCR-A font, keep the subset as small as possible and eliminate critical pairs, such as B and 8, S and 5 and other characters easily misread, if possible.

OCR-A, Wetzel said, was chosen because there is more experience with OCR-A than any other font in the U.S. In addition, it has a proven record for few rejects and misreads over a large variety of documents and print quality variations.

The final character set includes 25 symbols: the numbers 0 through 9, letters R, P, C, M, N, X, D, U, A and Y and four special characters.

In addition, the NRMA committee determined that the function code would always be in the left-most character position, filler codes would be placed right of the function code (except in price fields), periods would be used in price fields only and field-modify characters would not be used in price fields or universal vendor marking.

Murray Coker, manager of retail mark-

ing systems for Monarch Marking Systems and chairperson of the Media and Printing Specification Task Force, discussed the aspects of the optical and dimensional characteristics of the media and the location of the characters on the media.

CW at NRMA

His committee decided on two print quality tolerance ranges — range X, which is high-quality printing, and range Y, which is medium-quality.

It further stated that all printing devices should be capable of producing printing at the X level, while scanning equipment should be able to read printer images at the Y level.

This, Coker said, was because of the possibility of quality deterioration between the printing and scanning operations.

A number of factors were considered in

the case of character positioning. The clear area and margins (top and bottom, left and right) had to be carefully evaluated because of the human factors involved in scanning with hand-held wands. Wand scanning depends on people to direct the wand and also involves variable velocities of scanning, Coker pointed out.

Additional considerations included line separation, line spacing, character skew, separation and spacing, adjacent character misalignment and character misalignment in a line.

Spectral requirements were also considered, Coker said. Two banks were specified, one at the high end of the visible range and one in the infrared range.

"All printed media must meet spectral requirements in both ranges, to provide for broader use of reading technologies," he said.

Finally a standard for media opacity was established, since high opacity may be required to compensate for show-through in certain applications such as overlays, he said.

Data Formatting

The work of the Data Formatting Requirements Task Force was discussed by chairperson James McKenna, program manager for retail products systems development at NCR.

The committee established specific rules such as length and placing of fields for universal vendor marking and general rules for in-store formats to allow for user variations.

Of prime concern were the ticket size, length of scan line and compatibility with past, current and future technology.

The final recommendations of this task force were that the fields be identified by a single character, field length be fixed and the density of spacing be variable due to the differences between printers.

The vertical ticket format was decided upon, McKenna noted, because of several advantages including the convenience of hanging tickets and the fact that the longest scanning line is only 10 characters, thus reducing the possibility of the tellers' hand wavering in the wand.

Workers' Badges Monitored

SUNNYVALE, Calif. — The Radiation Detection Co. here is using a computer to keep track of radiation absorbed by scientific and medical workers throughout the United States. An IBM System 3/Model 10 keeps records of the badges employees of hospitals, universities and laboratories are required to wear, warning them before their exposure reaches the danger level.

Badges are collected on a monthly basis and the exposed film they contain is read for the type of radiation, its source and the degree of exposure. The information on each person is fed into the computer, giving an instant update of his total exposure on a quarterly, yearly and lifetime basis.

When an individual's reading exceeds the maximum dose allowed by federal health standards, his employer is immediately notified so steps can be taken to eliminate the danger.

System Not Random Enough

LONGVIEW, Texas — Jury selection in Gregg County, which was computerized recently, has been improved to assure a more random system than was initially provided.

The original sequence of selection, which was established on the second letter of a voter registration name, did not prove satisfactory because the variance did not prove wide enough.

The change will result in a varied system insuring that the choice of jurors will be picked in a random order that will not permit duplication.

The new selection system will be based on the use of the third digit of a voter registration number and other alternates.

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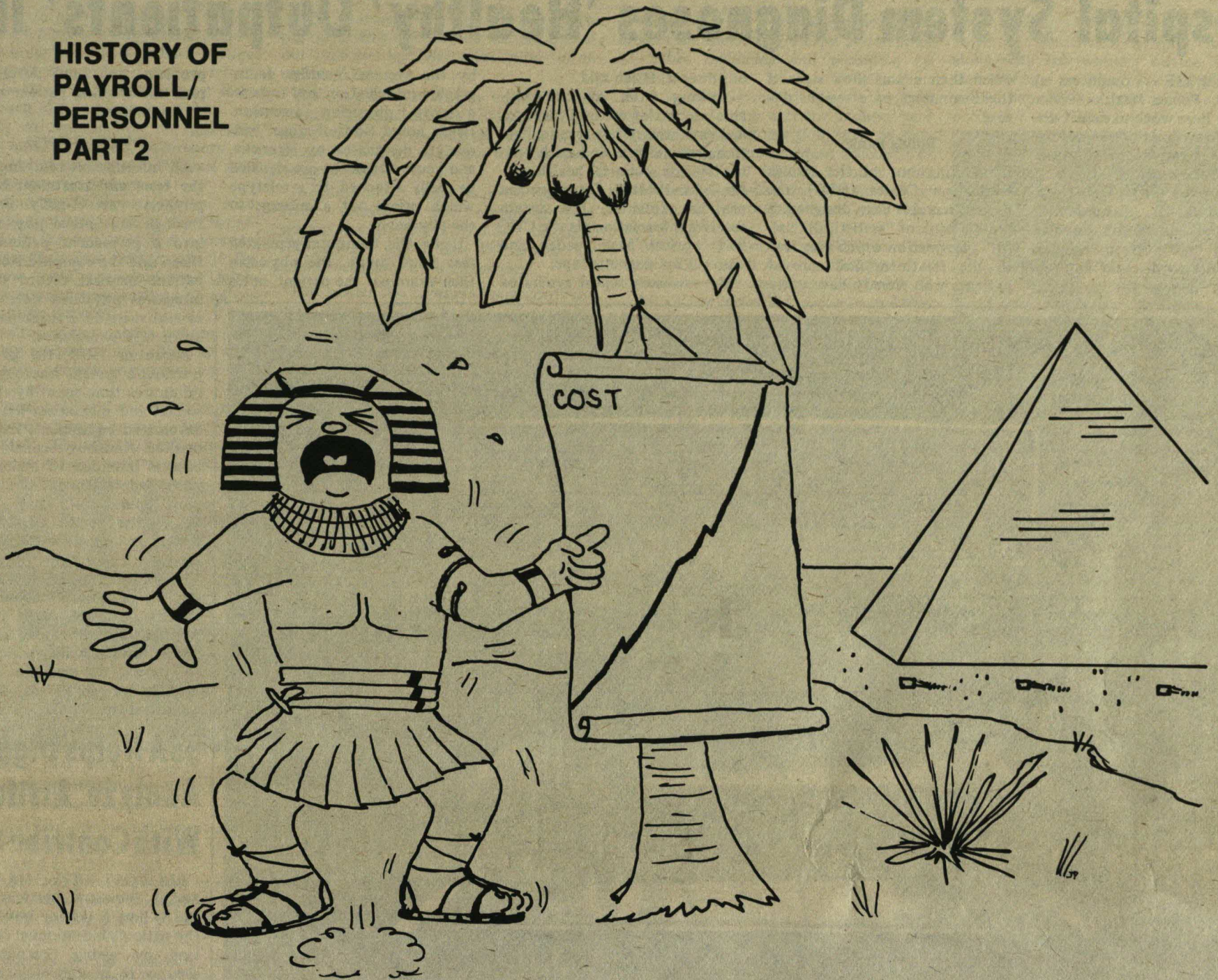
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Yields Clinical Health Profile

Hospital System Diagnoses 'Healthy' Outpatients' Ills

BALTIMORE — Computers at the U.S. Public Health Service Hospital here work to detect disease before illness becomes apparent to patients and causes them to seek medical aid.

Using three Control Data Corp. CDC 1700s, Dr. Richard K.C. Hsieh and his Health Services research staff screen hospital outpatients to discover and recommend people for treatment

when their exams show signs of the beginnings of a serious disease.

Builds Bank

Operating out of the Health Evaluation Center (HEC), the project has also been designed to build a bank of "statistically useful" information which may lead to the treatment and care of patients who already have a seri-

ous disease, Hsieh said.

Working from machine-readable reports of medical histories and preliminary test results, "automated multiphasic health testing" yields a clinical health profile of individuals for physician use, he explained. The system receives information via the CDC 915 optical page reader and stores it on magnetic tape.

The summary report generated

by the system includes demographic information and tests requiring physician attention. Hsieh noted "out-of-range" values are designated by astericks, and acute situations are signaled by bells attached to a teletype which prints out a message to the physician.

Using the computer-generated test result guide, the physician then examines the patient, notes

problem areas and develops a plan for meeting patient needs, he commented.

Integrates Notes

All information resulting from the tests and treatment by the physician are finally entered through the optical page reader into a permanent patient file. Hsieh said the computerized outpatient medical record format integrates physician notes from several visits on a single page for quick future reference.

Begun in 1970, the program provides a system whereby HEC minimizes time spent by its personnel and maximizes its use of automated equipment, Hsieh remarked. An easily recallable data base is intended to make diagnosis and treatment of illnesses more rapid.

A similar health maintenance system is used by the American Health Corporation (AHC) in New York. Owned by a consortium of seven companies, including Control Data Corp., AHC has also developed a multiphasic testing facility which uses computers to generate health profiles for physicians, a CDC spokesman said.

SSA Helps Diggers Analyze Artifacts With Contribution

ELLICOTT CITY, Md. — The Social Security Administration (SSA) here is getting involved in the nation's bicentennial celebration by giving computer assistance to an archeological project undertaken by Catonsville Community College.

The SSA is planning to supply a "minimal amount" of computer time for programs analyzing artifacts unearthed by the college's diggers at an old B&O railroad station here.

Actual Time Small

Actual computer time will be very small and most of the work will be in programming the computer to eliminate the nonvaluable artifacts.

Once this is achieved, the computer will analyze the objects to determine, for example, if an indigenous culture produced them or if they were deposited in the area from some other source.

SCDP Offers Exam Aids For CDP Preparation

HUDSON, Mass. — The Society of Certified Data Processors (SCDP) is offering review tests and full candidate assistance programs to aid people preparing for the Certificate of Data Processing (CDP) exam.

Includes Subscription

The review tests, provided with an answer key, cost \$15, which includes a one-year subscription to the SCDP publication, *Inner Voice*. The full candidate assistance program, priced at \$50, includes review exams, tutorial lessons and a final exam.

Both may be obtained by contacting SCDP, 38 Main St., 01749.



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In addition to its innovative technology, Dataspeed 40 service brings you the assurance of equipment built to Bell System standards. And installation and maintenance by your local Bell Company. Check with your Communications Consultant for further details and availability.

You've been saying you need service just like this. We hear you.



Bank's On-Line System Holds Interest for Clients

By a CW Staff Writer

CLEVELAND — Competition among banks has spurred the Broadview Savings and Loan Company, the largest such institution in Ohio, to install "instant interest" at each of its 18 branch offices.

Instead of waiting for the quarterly interest posting period, customers can quickly see their available balance with up-to-date interest declared.

According to William Halliday, vice-president of data processing, all of Broadview's 110,000 regular savings accounts, Christmas Club and Certificates of Deposit have been converted to "Quickview" accounts processed through an on-line computer network.

Teller terminals at service windows are linked by telephone lines directly with Broadview's control computer, an IBM 370/145, here.

Both passbook and no-book transactions are put through to the computer by the terminal. The 370/145 then updates the account balance and transaction his-

"The customer can have instant updating on demand, simply by visiting one of our branches and asking the teller for an update," he said.

The on-line system has enabled each branch to handle larger volumes of business, without increasing personnel or decreasing the level of service to customers, he explained.

In addition to more than 50 installed teller terminals, the computer-based system has 30 IBM 3270 CRT terminals to maintain and update the master account records or for data retrieval.

The master file contains the records for more than 175,000 individual customer accounts. The 3270 operator can check the data being entered on the CRT and correct any errors.

Terminal entry is faster and more economical, and the new data that is entered becomes instantly available for use.

The system verifies account number and transaction code, and checks the "rea-

sonableness" of the dollar amount. It creates the transaction record and handles all other balancing and recording involved.

The master file records may be accessed by keying in the account number and inquiry code. Information such as customer name, address, current account balance, the date of the last account transaction and a 90-day account history or history of a mortgage loan will then appear.

Customer name is a new addition to the record file, according to Halliday. "A customer can be easily associated with all of his or her individual accounts and this creates a better total relationship with our organization," he said.

Another unusual record entry is the census tract number encompassing the customer's residence address. Useful for marketing information, data can be pulled together to pinpoint the number and type of customer accounts within a given area.

Management of Broadview Savings credit the Quickview account concept, along with fast window service and instant interest updating, for much of the more than \$30 million increase in deposits last year, Rupert said.



Tellers at the bank enter the account number, transaction code and amount at the terminal's keyboard.



The bank's IBM 370/145, via the terminals, will update the account master records of these customers.

tory records and prints the entries on the customer's passbook or no-book documents inserted in the terminal.

"Quickview has proved popular and the transactions, which are processed as they occur, often exceed 5,000 a day," said Halliday.

"The benefits to the customer under such a system are numerous," John E. Rupert, president of the Broadview Savings and Loan Company, added. "Besides the obvious advantage of knowing the exact balance, the long wait at the teller window during the quarterly interest posting period is a phenomenon of the past.

A Handy Scapegoat

PORTLAND, Ore. — A computer became a convenient scapegoat for The Oregon Bank recently when it overcharged its customers by 3 cents per check.

Michael Danielson, a bank executive, told an area newspaper the overcharge was caused by "a bug in our computer system." But another executive, Paul Nordstrom, refuted that, saying, "That's only what we tell the public."

The error occurred when the bank's computer was programmed to raise the charge for each check from 12 cents to 15 cents. The bank, however, forgot to allow for checks written but not processed before the price hike.

Nordstrom claimed the bank planned to ignore the mistake until someone complained.

And someone did. The Oregon Student Public Interest Research Group, a consumer watchdog organization, became aware of the overcharge and demanded compensation for the overcharged customers, whose accounts will be credited for the overcharge.

The bank's clients will also receive an explanation with their next statement, presumably containing the "bugged computer" story.

Said Nordstrom: "Isn't it funny how we'd rather blame the computer than human error? The customer accepts that a lot easier."

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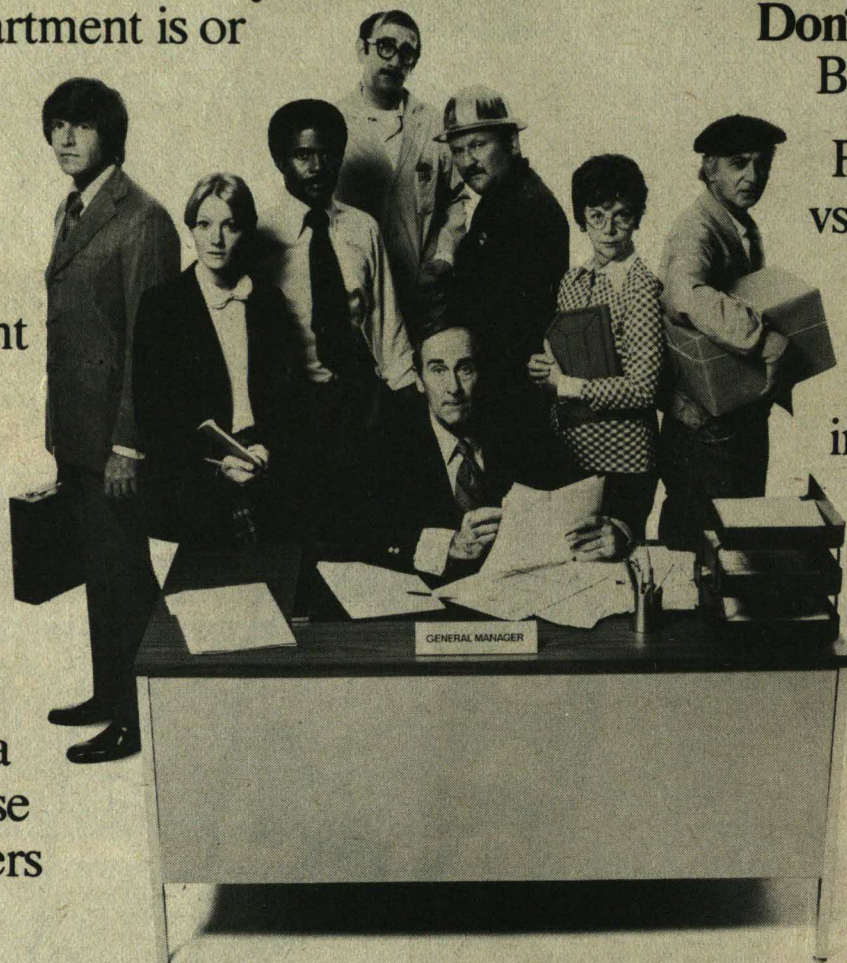
Do you want to do a few jobs fast? Or a lot of jobs not-so-fast?

And so on.

When you've pinned down all the questions, we know where you can get all the answers.

We've got data management surrounded. General Automation can approach your data management requirements from your point of view.

If you're interested in high-performance systems offering decentralized control and custom applications software, our new DM-100 family is the right way to go.



If moderate performance, more centralized processing and a vast library of standard applications packages will work for you, you'll be interested in our DM-200 family.

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A number of specific industry-oriented application programs are available for use with the DM-100 family. We also offer general libraries for statistical analysis, operations research and financial planning. If needed, we'll work with you to develop custom solutions for your particular applications.

We also make a special low-cost, highly interactive system. It's called the DM-130/2 and has just about the same specs as the DM-130, but without the range of expandability. (It is available through a separate, nationwide network of distributors established to handle the special turn-key business system requirements of first-time users.)

The application-oriented family.

Lots of applications and less decentralization calls for our DM-200 family. It is based on our 18/30 computer and a vast library of standard software for applications in manufacturing, distribution, finance, engineering and publishing. To name just a few.

The DM-200 family includes systems for data transfer (DM-220), high-throughput batch processing (DM-230) and basic batch processing with on-line interaction (DM-240). We also offer the DM-230/2—the world's number one IBM 1130 replacement system.

One answer for a dozen questions.

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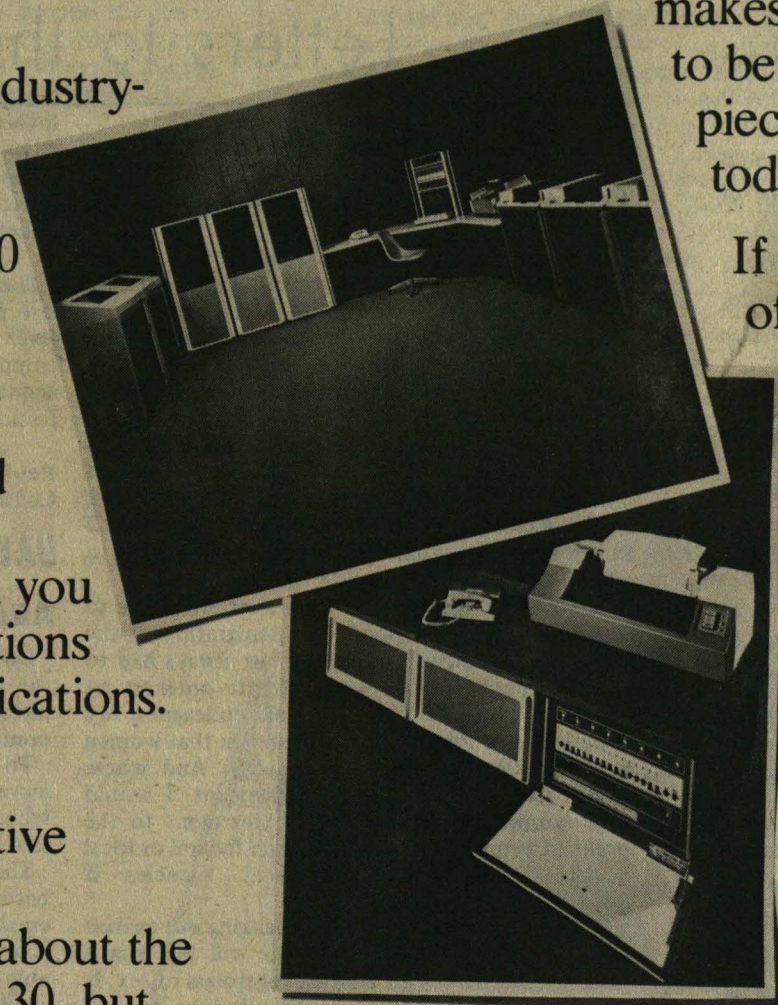
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Or call (714) 778-4800. In Europe, write General Automation, S.A., 24 rue du Sergent Bauchat, 75012 Paris, France.

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Editorials

Privacy Board Essential

At least 10 issues will be awaiting discussion when the House privacy bill, H.R. 16373, comes to the floor following the election recess. But one amendment calling for the establishment of a federal privacy board deserves particular support.

Sponsored by Rep. Bella Abzug (D-N.Y.), the amendment would create a five-person commission, appointed by the President with the advice and consent of the Senate. Selected from outside of government, commission members would hire an executive director who, in turn, would choose a staff to assist federal agencies in devising and enforcing rules and regulations to implement the proposed privacy bill.

While the Senate's privacy bill, S. 3418, would institute a similar commission, this body would have no force of law over agencies and would be established for three years rather than permanently.

If a permanent board is not established to oversee the implementation of privacy regulations, adherence to privacy rules could become one of those tangential responsibilities agencies conveniently forget under the press of their particular duties.

In addition to providing a collection point for model guidelines and regulations and holding the power to investigate agencies which fail to comply with the bill's stipulations, the commission proposed by Abzug would also be able to conduct hearings on a broad range of privacy issues.

Though its primary responsibility would be toward the agencies, this board could conceivably act as a forum for airing the private sector's grievances and suggestions on privacy.

The computer community cannot afford to be without mechanisms like the privacy board for making its views known to Congress.

Frightening Statistics

The apple-pie arguments that favor increased usage of computers by police and the FBI may be on the wane.

A recent General Accounting Office (GAO) study suggested that "false arrests could occur more and more often as police around the nation turn to computerized crime files."

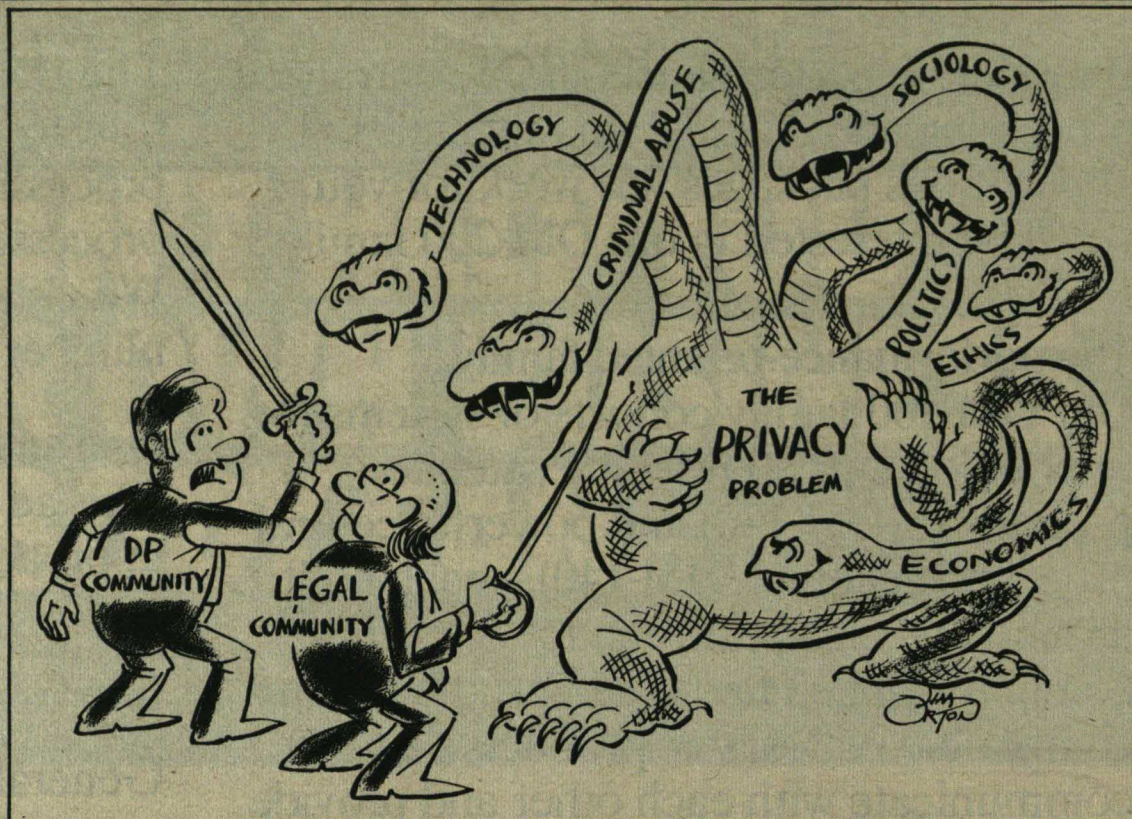
Whether the wane in the arguments for computerization will ever lead to the disestablishment of some of the most sophisticated networks in the country and to the dissolution of some crime systems remains to be seen. It's a far cry from disenchantment to a policy reversal, and in between there will be bureaucratic studies while citizens' rights continue to be violated.

The GAO report suggested the criminal history, arrest record or "rap sheet" file, because it is accessible through data communications technology rather than the mail in many cases, has been used by police officials in the actual decision to arrest a person.

The study, commissioned by Sen. Sam Ervin, said when arrest records were available only manually they were used before an arrest in less than 10% of the cases studied. But when the records became instantly available, i.e., when computers came into the act, these arrest records were used before an actual arrest in one-third of the cases.

And it is the rap sheet file that the FBI has acknowledged to be in greatest need of updating; estimates of incomplete or inaccurate files run as high as 50%, yet police increasingly use these half-correct records in deciding whether to make a subsequent arrest.

These statistics back up our earlier contention that it is time for the FBI's Computerized Criminal History (CCH) file to be thoroughly reexamined — and probably abandoned.



'It Seems to Be Getting Ahead of Us'

Letters to the Editor

Why Haven't Men Spoken Out Against Layla Advertisement?

Is it my imagination, or is it a fact that all the letters to the editor concerning ECI Software Corp.'s Layla advertisement have been from women? Am I going to be the only male who agrees with Julie Wilson [CW, Sept. 11] and Paula Berg [CW, Oct. 16] that the Layla ad was sexist and sexually suggestive?

I found ECI's ad offensive simply because of its blatant use of a sexual "hook" (the model's pose) and suggestive copy. I'll grant that the ad got my attention, but it certainly left a poor image of ECI in my mind. After all, if their product needs sex to sell it, it probably isn't worth further attention.

However, in response to Berg's letter, I have to say that I cannot support her denigration of the entire DP industry because she has always had to work harder, perform better, etc., in order to get "smaller" rewards than her male colleagues. My experience in this industry has shown that women are generally treated with equality. And where sexist attitudes prevail in management, I would urge women to demand equal treatment to the point of requesting assistance from federal or local equal employment enforcement agencies if needed.

It is people like Julie Wilson, speaking out against unjust, unequal treatment, who will perform a valuable service for all people, regardless of sex. Is it to her that I present congratulations for the fact that *Computerworld's* Oct. 16 issue did not contain even one ad that I could interpret as sexually suggestive? Or should I thank a CW staffer? Or just chalk it off to good luck?

Louis Mills
Systems Programmer

California Cooperative Creamery
Petaluma, Calif.

Crusade Against Virtual Memory May Be a Misdirected Effort

Donald Charity's analogy between the computer industry and the automobile industry [CW, Oct. 16] is one which I have used effectively for years because of the complexity, cost, lead time requirement, specialization, tooling and assembly disciplines which are basic to auto production.

To liken a computer system's series of programs and ancillary manual and control functions to an assembly line is a sure-fire method of getting across points relative to overall cost, cost of change, effect of change on schedules, need for total planning, economies of scale and so on.

At a lower level, a comparison can be appropriately drawn between a single computer program and, let's say, the machine tool which produces the right front fender for your favorite car. This analogy is very useful in creating an awareness of the importance of early, diligent and continuous

involvement by the user in establishing specifications.

The fender (program) will never really fit the car (operating procedure or system) unless total user understanding of what is needed can be captured by the programmer/analyst "tool and die maker."

The point of Charity's letter, as crystalized in his last paragraph, is true. As a matter of fact, he's given me one more area in which I can use the comparison: the inescapable and extant need for acquiring, through whatever means, top-level professionals, just like Detroit's.

A.K. McKechnie

Reuben H. Donnelley Corp.
Chicago

UAW Considered the Competition And Put It in Endorsement

Howard F. Brenner of Baltimore suggests that the United Auto Workers' (UAW) policy on automation disregards the need for our nation to compete in worldwide markets [CW, Oct. 23].

To the contrary, our general endorsement of increasing productivity through automation and technology is based on that, among other important needs of our society.

The statement that "workers given the choice between unemployment with technology and full employment without technology would opt for economic survival" was only intended as a reasonably accurate prediction of worker reaction. However, governmental and industrial leaders would be well advised to take note of this caveat and work toward a set of conditions which will not require workers to make that choice.

Anthony W. Connole
Administrative Assistant

UAW
Detroit, Mich.

Auto Comparison Apt

Herb Grosch's crusade against virtual memory systems is misdirected. He argues for the efficiencies of tailoring code to specific hardware-software environments.

As programmers our primary duty is to implement the best algorithm for a task in readable, easily debuggable code. The problems of hardware, compiler and operating system inefficiencies cannot be addressed within the context of application programs.

We can only recognize and accept adequate solutions to these problems without insisting on upward compatibility with previous errors. Only then will the suppliers of the current monstrously inefficient computing systems be willing to market systems with environments for the easy creation and efficient running of programs.

Richard J. Cichelli

American Newspaper Publishers
Association Research Institute
Easton, Pa.

Dear Computerworld:

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Note:
Please fill out form on back, detach and insert in post-paid envelope attached through binding.
Thank you.



COMPUTERWORLD

Put old label or label information here



Letters to the Editor

Privacy Depends On Certification

Protection of privacy, system security for the benefit of the organization and individuals who have data about themselves in a computer system, adequate testing to insure accuracy of programming and provision for interactive intervention in the system when an error or exception does occur are *policy* decisions for a user organization. Fast-and-dirty systems (which lead to the errors which make headlines) usually violate one of these policies.

In the certification debate I started in July some readers still confuse technical knowledge with the responsibility of knowing how a computer is to be used and under what guidelines. The tone of some certificate in data processing (CDP) defenders implies that DP experts should dictate to management and/or users what a system will do and how a computer will be used.

An extensive edit and control subsystem may be a tremendous drain on available resources and all too often the technocrats avoid this merely by providing a set of hash totals here and there — and another major system is "on the air."

Certification doesn't offer the

answer to these problems. A clear statement of responsibility for each of the following groups coupled with a written pledge to adhere to them would help:

- Suppliers of hardware, software and services — dealing with overselling, continued support, bidding practices, etc.
- Users — dealing with the rights of those affected by their systems.
- Analysts and programmers — requiring stated levels of testing and documentation, the experience levels and abilities required.
- Operations — requirements for controls and security.

An employment ad, resume or proposal to sell which indicated subscription to a code of conduct would have a strong influence.

In his vitriolic attack on me (this is professional?) [CW, Sept. 25] Jens Christensen, misses the essential point that testing scheme limits the number of DP people who will ever be asked to agree to and support the code of ethics or conduct which is a part of the Data Processing Management Association's program.

Al Smith
South Bound Brook, N.J.

Letters to the Editor should be addressed to: Editor, Computerworld, 797 Washington St., Newton, Mass. 02160.

A Highland Fling

Like most rich little poor boys, I've dreamed of being a jet-setter, of flying off to celebrate the millenium with the Shah, or having a poolside rendezvous with Rainier and Grace, or even just going to a mall dedication in Texas. And last week it happened: I went to Scotland for the weekend — repeat, for the weekend!

It began with friendships I have in Logica, one of the more powerful British software houses. I enjoy the personal style of the chairman, who is about as far away from Ross Perot as an executive can be. And I admire the prowess and pulchritude of his senior staff. Now, Logica has an annual company party, a combined informal business review and hoedown. The whole shop goes, top to bottom (except one pretty new receptionist whose young husband was excessively suspicious). They migrated this year to Gleneagles, the famous golfing hotel in Perthshire — by private train, no less.

I suppose the naked yearning that suffused my whiskered countenance on hearing this yarn was just too poignant. Anyhow, I was invited to be standup comic at the Saturday banquet, between the piping of the haggis and the opening of the roulette table. And later on, when they realized they couldn't keep me away with cattle prods, I also got put on an off-the-record panel on the European computer industry, with (among others) Jean-Pierre Brule of Honeywell Bull, Donald Davies of the National Physical Laboratory, Chris Layton of the Common Market administration, and Kenneth Baker, just reelected to Parliament three days before, who had been the minister over the Cen-

tral Computer Agency when the Conservatives were in.

But the main pleasures were — the pleasures! There was a discotheque on the train, and two bar cars, and 14 cars of private rooms: two electric locomotives up front. We left Euston at midnight Friday, arrived at the Gleneagles siding early next morning, worked and played and ate and drank and danced and gambled and made new friendships until Sunday night, and then reversed the process. With disco!

Logica people from the Continent — they have, among others, a major contract with the Euro Space Research Organization — flew in to Edinburgh. And the PRC liaison officer stopped off from California. A real gathering of the clans!

British software artists work efficiently. They play efficiently, too. After all, everybody danced on the eve of Waterloo, didn't they? Ibn Saud looks tougher than Napoleon at the moment, and IBM FS tougher than either. But dance on, blithe spirits — and ask me again next year!



Herb Gross

He Doesn't Leave It to Chance...

Integrated Systems: Taking a Lesson From Col. Sanders

Chicken can be served in many ways... it can be fried or baked, broiled or boiled, homemade or "store-bought." And it can vary in many ways.

Producing a controlled quality product involves reducing the variations and systematically removing the potential sources of error which can unpleasantly surprise either the chicken-eater or the chicken-seller.

Foremost among the systems designers who realized this have been those with Colonel Sanders' Kentucky Fried Chicken. The words "Colonel Sanders" and "Kentucky" have come so much to define the standard of quality of chicken that anyone considering producing quality fried chicken today would probably start by considering the effect of changing parts of the Colonel's method rather than re-inventing the method.

Users of integrated computer systems, however, still find unexpected surprises occur from time to time. There is no standard of quality of an integrated system to which they can appeal. Unlike the words "fried chicken," computer system descriptions do not deal with the content or with the method of preparation of data.

An integrated system essentially is simply something in which a file, or an input, or a report — originally used solely for function A, is now being used for function B as well!

The question of how the systems are integrated — like the question of how the chicken is fried — is important but often left almost to chance. Colonel Sanders would not leave answers to such questions to chance and, if we are to be as successful in quality control as he has

been, we should not do so either.

Curiously enough, the first step in understanding just what we need to help bring computer applications up to Colonel Sanders' standards can be found in observing the operation in one of his shops. In my part of the country, at least they include a simple integrated data processing system which handles two functions for little more than the price of one.

The functions concerned are the cash register function and the sales analysis function. These are traditionally handled on the same machines, with separate sets of input rung up: the item and the price. Now these functions have been integrated, and only a single keystroke is needed to ring up both item and price.

Special keys are provided for each of

the fairly restricted number of main meals available. Associated with each key is a register that counts the number of sales of each type of meal and also another programmable register that contains today's price for the meal, such as 88 cents on Wednesdays for the Fish Fry Special or 99 cents for the same meal on other days.

This is the point that makes it an integrated system — the use of the "sales analysis input" to provide the cash register input.

Other Possible Methods

This is not the only technique that could be used to integrate sales analysis and cash register operations in Colonel Sanders. The method could be reversed, and the cash register input could be used

to create the sales analysis input. It would work by associating a product code with particular sales prices, so that if 99 cents was rung up on Friday, an entry for one fish dinner would pass over to the sales analysis registers.

This could also properly describe an integrated sales analysis and cash register system, because it does intergrate the two functions. But such a system would not be the same integrated system as the one actually used anymore than producing fried chicken by other methods is the same as producing them in the Colonel's way.

The question is how to discriminate between the two systems which, on the surface, have the same functional descriptions.

Discrimination can be accomplished by noting the different types of errors which occur within the system and then seeing which integrated functions gets priority when things go wrong. In short, is the system a cash register system which will provide sales analysis functions as long as they don't interfere with the real work? Or is it a sales analysis system which as a by-product produces some potentially dirty input for a cash register operation?

This type of analysis is illustrated in figure 1 (see box). Two systems are compared according to the type of error that is implicit in the technique, and the function that is correctly handled when the choice between serving one function or the other has to be made is noted.

In this way we can differentiate between the two integrated systems in a productive manner. That is, we can see what set of precautions ought to be taken to insure the quality of the output of the selected system is as reliably constant as the quality of the food served.

STEP NO.	QUESTION	SYSTEM A	SYSTEM B
1	What data is really being received from outside?	Sales Analysis data — a key representing a product sold is being pressed.	Cash register data — a key representing the product price is being pressed.
2	What data is being automatically created within the system?	Cash register data — the program-selected constant is rung up without operator action or control.	Sales analysis data — the program-selected product sales figures are incremented without operator action or control.
3	When an error in the system occurs — i.e., the sales analysis and cash register functions are in disagreement, what happens?	The sales analysis accuracy is given precedence over the cash register accuracy.	The cash register accuracy is given precedence over the sales analysis accuracy.

Three steps are needed to classify integrated data systems in accordance with the priority accorded to maintaining the integrity of each system. The two cases illustrated above are based upon the Kentucky Fried Chicken application (see story above). System A can be called a sales analysis/cash register integrated system, indicating that sales analysis accuracy is given precedence over cash register accuracy, while System B would be termed a cash register/sales analysis integrated system.

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Letters to the Editor

Words Have Many Meanings Depending on Their Usage

I just completed reading the article by Alan Taylor in the Oct. 16 issue and my immediate reaction was, "What a waste of energy." Computers don't read indeed!

Taylor must be aware that two individuals communicating verbally or in writing may have two different interpretations of what is being said because language is an imprecise tool. Words such as "scan," "cycle" or "sight" suggested by Taylor have several definitions for general and specialized usages.

In many fields words are used to label actions or processes that have only very loose connection to generally accepted usage. If computer terminology serves its purpose within the limits set for it then there is no reason to quibble about semantics.

To imply that because of loose usage of

the English language as related to computer operation we have misled management and have designed unreliable systems is the height of philosophical nonsense.

In refreshing contrast is the letter from E.L. Kurowski in the same issue in which he states in precise terms the responsibilities and tests which define a true professional.

Gustav G. Alexander
Director MIS

Equitable Bag Co., Inc.
Long Island City, N.Y.

Who Pays for Downtime?

We Don't Have a Prayer

In regard to the Sept. 18 Taylor Report "Who Pays for Downtime," I do not recall seeing any mention of other factors which affect systems performance, i.e., environment control, power supply, independent software, etc.

Before we can hold vendors accountable for their products, we would have to prove that all other factors have been adequately checked.

Obviously this could significantly increase data center costs if all shops had to install voltage regulators, transformers, humidity and temperature control monitors.

While it would be easy to point the finger at our computer supplier and tell him to fix the problem, in many cases we would and in fact have been caught with our "pants down."

While Alan Taylor's goals are admirable, it's not quite as simple as the article implies. Granted, in many cases computer manufacturers blow it, but in those cases where they don't, we in the data processing management profession would have to be able to weed out the other factors which have caused the system(s) to crash.

Until we can do this accurately, intelligently and consistently, we haven't a prayer in holding computer vendors ac-

countable.

Roger A. Freeborn

Kitchener, Ont.

Here Are Some More Ways To Turn Off a Programmer?

In reference to Paul Torell's Sept. 18 viewpoint, I have to agree with him in all but one point. Under number 7, he stated that full access to personal phones will make it easier for recruiters to call and be called. To many people, screening indicates distrust in employees.

If a manager takes care of the other points covered in the article, the programmers will take care of the recruiters. They won't have any reason to look elsewhere.

In its place I would include the following items:

- Restrict all programmers to only one turnaround a day. Be sure to schedule all tests and compiles so that they will be returned to the programmers no earlier than 45 minutes before quitting time.
- Be sure to inform programmers that "no machine time" or poor turnaround is not a valid reason for missing deadlines. Be sure to point out that there is always time available on the midnight shift and on weekends.
- Be sure to count hardware problems as a turnaround. Don't try to rerun the job. Make the programmer resubmit it.
- Insist that everyone use the source library package but cut down turnarounds since in some cases it will require pack changes.

I wonder how many managers read the article and said, "That doesn't apply to my shop."

D.A. Marquardt
President

General Electronics
Lyons, Ill.

Bouquets for Burroughs

In regard to Alan Taylor's column of Oct. 9, let me make a couple of points on Burroughs so that we can get an overview of its qualities as a vendor.

- Burroughs' architectural designers, in my opinion, consistently advance the state-of-the-art and remain steadily ahead of the field. Burroughs machines are specifically designed for the work they'll do, the most notable case being the Cobol-oriented Medium Systems instruction set.
- Where up-time is crucial, the large systems can put a faulty processor off-line and transfer its programs to another without hesitation.
- Burroughs' system software is uncategorically the most advanced and comprehensive of which I know. Ideas currently being touted as new by other vendors have been around at Burroughs for years.
- Cobol on Burroughs is optimized, straightforward and complete.
- Burroughs' management leaves something to be desired, but in the cases I've seen, a user who knows how to deal effectively with situations in general can get a satisfactory response if he puts some effort into it.
- Improvements in the company's technical and engineering support would be desirable. However, savvy users can maintain a good, solid, powerful (in terms of cost/performance) computer operation.
- Most Burroughs users I've seen have been won over more or less permanently once on a Burroughs machine. Despite the company's hangups, the MCP, Cobol and pricing of the systems make a decisive difference when budget time comes around.

Having said this, let me state that I am an ex-Burroughs rep and that DPx Systems, at this point, has dealt only with Burroughs equipment. Even so, I feel the above comments are reasonable and accurate.

Roger Hoppe
President

DPx Systems
Arlington, Texas



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User Responsible

Installing MRP: How to Do a One-Year Job in Six

By Glenn N. Graham

Special to Computerworld

Wells Manufacturing Corp. now has material requirements planning (MRP) up and running sufficiently well to say that it does, in fact, work. We can also say that this system is so far superior to anything we have had in the past, manual or computerized, that we would never wish to go back.

On the other hand, we will never have a system we consider perfect. We still have a list of improvements which could be made to MRP and I am sure that when this list is completed, we will have learned enough to write another list.

This feeling can be compared to a man who just bought a six-in. telescope and can now see enough detail to want a larger telescope. As a practical matter, there must be some end to this, but vision is an element of control and we must see

better than our competition.

Arriving at our present level of sophistication has not been easy. We have often asked ourselves why it took us 72 months to install MRP when it takes most other companies only a year. Anyone who wishes to match this "extraordinary" speed should follow our example.

Our operating rules were as follows:

- Don't waste time researching your system as it is obviously bad and would only confuse your thinking; otherwise you wouldn't be trying to change it.

- Don't try to flowchart the system you would like to have as no one is smart enough to do the whole thing. Go ahead with the individual small segments of your system and worry about trying to tie them all together at a later date.

- Don't spend a lot of time trying to find out what other people are doing. The joy of this whole system is doing it your

own way. Go ahead and reinvent the wheel.

- Be sure your management people aren't wasting their valuable time involved in the design of this system. Some companies have gone so far as to organize a team but we chose to do it on an individual basis.

Viewpoint

- Don't be afraid to get started. Order your computer now! Hire a programmer, give him an idea of what you want, stand back and let him go. Perhaps you should check back, now and again just to be sure he is on the right track but always remember that he's the expert who is going to solve all of your problems.

- Don't hold planning meetings on a

regular basis. This only uses up valuable time and increases your installation costs. Meet only when someone has a big problem.

- Don't make the report users check the reports to make sure they are working. Let the programmer be responsible for their accuracy; after all, he designed them.

If you find that you don't agree with these rules, it will probably only take a year rather than 72 months to install MRP.

Actually, we're not sure whether it required 72 months, 84 months or 60 months. When we first began to work on this, the term "material requirements planning" was not in our vocabulary. However, "inventory control" was and our intention had always been to have a requirements planning program.

We followed the rules that we outlined previously because from the beginning the whole system seemed deceptively simple. The computer salesman was always very confident that the machine he was selling would do the job we were asking of it. The programmer was always confident that the system would work because the computer salesman was so confident.

It was several years and many thousands of dollars before we finally realized that we (the user, the manager, the programmer, etc.) were all hearing what we wanted to hear and happily waiting for the programmer to eliminate our problems.

Reflecting back, can you imagine how our programmer felt when he realized that while everyone understood this simple problem, he alone had to write it? He was faced with programming a complex system which had been presented as incredibly simple.

We failed to tell the programmer exactly, and in detail, what we wanted him to program. We did tell him what information we wanted but never explained to him the intricacies of getting all of that information and sorting it out.

The programmer should only be held responsible for coding and directing the flow and manipulation through the computer in precisely the manner we outline for him.

At the risk of oversimplification, this could be compared to a manager who is required to write a letter of an extremely serious and sensitive nature where his expertise and talent is required. He must dictate the letter and take the responsibility although his secretary will type it. So should he dictate the system that the programmer will program.

We have learned that computer salesmen and computer service salesmen are salesmen and not systems engineers. They are put on this earth to promote enthusiasm.

Systems engineers are here to design systems under the direction of the system user. The systems engineer can satisfy the customer (manager), only when the manager knows what he himself wants.

In short, the problems and responsibility for the system belong to the manager or user.

Graham is the plant manager of the Wells Manufacturing Corp., San Francisco, Calif.



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Kiviat Graphs May Provide Single 'Figures of Merit'

By Don Leavitt
Of the CW Staff

COLUMBUS, Ohio — While Kiviat graphs provide an easy way to communicate to management information on system performance, they may also provide a means of coming up with a single number that tells how "good" or "bad" the system is, according to Michael Morris, an independent performance consultant.

Though some measurement professionals feel such a single number is of questionable value, Morris pointed out that many managers have sought just such a simplistic definition of how well their systems are functioning. In fact, the ap-

proach he was proposing at the Computer Performance Evaluation Users Group (CPEUG) meeting is just a modification of one proposed earlier by H.E.B. Merrill in *Performance Evaluation Review*, Morris admitted.

then adding, separately, all the "bad" ones. Subtract the "bad" total from the "good," and divide the result by the number of indicators. This will provide an average value, Morris noted. The range of average values, however, will be from -50 to plus 50. Since that is "somewhat awkward" for many of us, he suggested adding 50 to the average, to bring it up to a 0 to 100 scale.

In the Stars

Although he was unwilling or unable to define the significance of, for example, a 10-point difference in "Merrill Numbers" calculated this way, Morris claimed all basically star-shaped Kiviat graphs (with high "good" values, low "bad" values), have Merrill Numbers in the 70 to 100 portion of the full range.

The applications of Kiviat graphs as quick visual indications of a system's bias or balance, and of Merrill Numbers extracted from the Kiviat graphs, is completely independent of the hardware being assessed, he said. In an experiment with a Control Data Corp. configuration, core storage was added to a system that appeared to be in trouble. After the addition, the system performed better — by any measure.

'Improved' Form

The Kiviat graph form "improved," becoming more "star-like," and the Merrill Number moved from 60 to 73. "But," pondered Morris, "is it really 13 points better? And does 13 points at this part of the scale mean the same thing as 13 points in another part?"

He was also worried, Morris admitted, that managers might take Merrill Numbers so much to heart that they would "settle for a 67" or some other arbitrary number as an acceptable level of performance. He also shied away from suggestions from the audience that the indicator values ought to be weighted before they were included in the Merrill Number calculation.

CW at CPEUG

In the face of variations on Kiviat graphs used in other presentations at the users group, he restated four conventions he saw as mandatory if the graphs are to maintain their usefulness. These guidelines are also required as a basis for the single number — the "Figure of Merit or Merrill Number."

The graphs should include an even number of indicators, half "good" and half "bad." These are plotted as radii on a circle chart, numbered with 1 at the top of the chart. The good measures are assigned to the odd-numbered radii, and the "bad" measures are put on the even spokes of the chart.

Choice of the measures to be plotted is deliberately left to the user, Morris said, but "good" measures are those which suggest good performance when they have high values. Conversely, "bad" measures are those that suggest poor performance as their values go up.

Normalized Data

Though specifically not part of the conventions he was defining, Morris said he found it useful to work with "normalized" data, converted from whatever form it might have had as "captured" or calculated to a more conventional 0 to 100 pattern.

Merrill proposed multiplying the value of the second indicator by the first, the third by the product of the first two and so forth, right around the circle.

This might work, Morris argued, except in those cases where one or more of the indicators values is zero. Instead, he said, a Figure of Merit could be calculated by adding up all the "good" indicator values,

CPE People Challenged to Make Results Useful to Non-DPer

COLUMBUS, Ohio — "It's time the performance measurement people took stock of their objectives, their tools and their responsibilities to those who are directing information systems both in large corporations and in government agencies. It is the administrator who must decide whether the best course of action is to secure more equipment and higher costs or to live with less responsiveness and, therefore, user criticism.

"The proper decision must be based upon proper performance measurement," keynote speaker Jerry Hammett reminded the Computer Performance Evaluation Users Group (CPEUG) meeting here late last month.

The deputy director of administrative services for the state of Ohio said "the DP administrator has viewed performance measurement with great skepticism. Two reasons come to mind very quickly: Measurement has been applied as a challenge to requests for new equipment, and measurement technology has often been used very poorly with only limited real results."

The administrator is faced with monitoring output that is either too general or too specific, and comparison between systems seems impossible, he added. "My challenge to you is to determine and classify some primary parameters which quantify system performance for improved system analysis, measurement and evaluation. The standards must provide information useful to the executive who is not necessarily a measurement technician," he said.

A second challenge, Hammett stressed, is to define and develop techniques which adequately measure those primary performance parameters.

"The pitfall here is that the development of these techniques could modify or obscure the intent of the

original parameters. There is an abundance of data readily available, but many things which can be easily measured do not, in fact, contribute to the effective evaluation of a computer system," he noted.

There are three considerations facing the manager of a large computer installation: problems which because of their larger organizational impact are beyond the DP manager's control, the frequency of monitoring activity and "most important," the payoffs that can accrue to the administrator and the facility from the effective use of performance measurement.

The assignment of new applications and of the processing cycles — or non-cycles — of the work to be done, is often beyond the control of DP management. And yet, Hammett went on, the rapidly expanding shop needs more frequent monitoring than the relatively stable facility.

Another determination of frequency of monitoring is the saturation of the existing system. As the system becomes more tightly utilized, the need for continual monitoring will greatly increase, he added.

If the technicians can meet the challenges, the administrators and the facilities will have four basic payoffs "which are neither all-inclusive nor priority ranked," Hammett said.

First, installations will truly find themselves in an environment where they buy only what they need. "We will buy computing by the pound and not by the ton," he quipped.

Installations will get substantially more life out of their systems, "and this becomes very important as we move more and more into longer term contracts.

"We will find that the cost-effectiveness of our systems is much better than we have heretofore experienced, and fourth, we will be faced with more satisfied users."

A Lesson From Sun

New Software Not Prerequisite to Evaluation

COLUMBUS, Ohio — A DP shop moving toward computer performance measurement and simulation may not have to acquire all new software, according to Analyst Allen G. Pomerantz of Sun Oil Co., who told the CPEUG meeting last month how his company had modified a version of the General-Purpose Simulation System (GPSS) to generate a model of a computer system.

Sun's resources planning and evaluation

group saw several advantages to using GPSS, even though it required extensive internal changes to meet their needs. First, it was already on-hand at Sun. Source code was available, and several people knew how to work with its logic and with its user-oriented language.

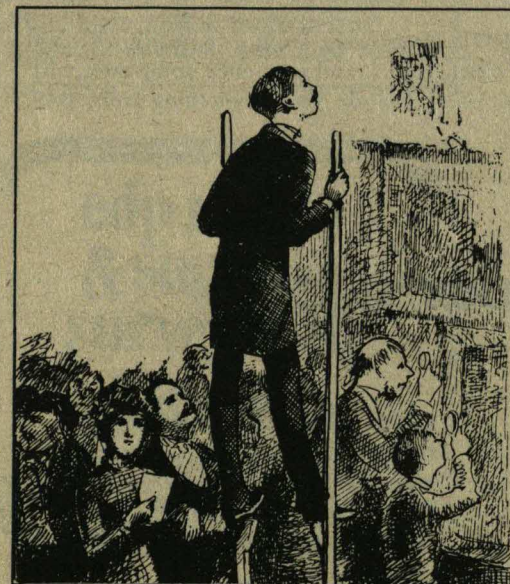
Unfortunately, it could not simulate discrete situations, such as channel or random access device queuing, and it included no CPU dispatch algorithm, pri-

ority allocation scheme or way of taking operating system overhead and system-related software "costs" into account.

The first effort at correcting these deficiencies focused on converting GPSS to a table-driven system, Pomerantz noted. This would allow discrete channel queuing and discrete device queuing, he said.

Based on SMF data that was being collected anyway, the tables also sup-

(Continued on Page 18)



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New Software Not Prerequisite To Effective System Evaluation

(Continued from Page 17)

ported simulation of priority allocation of specific disk packs and an approximation of the Hasp CPU dispatch algorithm. Individual approximations of each job's disk and tape channel time was based on its actual number of EXCPS and average block size, the analyst said.

The output was available through the English-like GPSS end-user access language and the reports were formatted "in a way that was good for management comprehension," Pomerantz added, with a nod of acknowledgement to the challenge of keynoter Jerry Hammett.

The output also appears to stand up well in comparison with several other criteria, he went on. Specifically, it has been compared with the original SMF data from real runs of the jobs.

Although the GPSS results were as much as 20% off at first, tuning of the tables is expected to bring the difference

Roster of CPEUG Attendees Includes Business Users

The Computer Performance Evaluation Users Group (CPEUG), which held its 10th meeting in Columbus, Ohio, late last month, is an activity of Task Group-10, a National Bureau of Standards effort focusing on computer performance management.

From the original handful of Air Force simulation experts, the group has grown until it now includes "anyone interested in the general area of performance measurement and evaluation." The Columbus meeting attracted 115 people, including representatives from oil companies, insurance companies and other nongovernmental installations.

down to the 10% level, "which seems to be considered acceptable for simulation."

Other matchups have been or are being made with the output generated by the Paces package and with simulations produced with the System Analysis Machine (SAM) simulation package from Applied Data Research, Pomerantz added.

A second effort at modification still

CW at CPEUG

under consideration will enable the Sun staff to add operating system overhead to the simulation model. The effect of IBM's Time-Sharing Option (TSO) is probably going to be added by "grafting" a model developed within another simulator package to the GPSS version.

The operating system will be mimicked by adding dummy programs that will compete with actual programs for system resources, Pomerantz explained.

The benefits he expects to gain from the use of the modified GPSS are in some ways as general as the "general-purpose" in the GPSS name. It will suggest what configuration strategy is best but will provide no exact statements of what the result of using a particular configuration will be.

Sun will not be using the GPSS tool for sizing of new equipment acquisitions, he said. But it does allow studies on the effects of changes in job classes or priorities.

It also includes the potential for use as a performance evaluation tool, Pomerantz noted, since it can highlight utilization of components and initiator/terminators. It should help identify system bottlenecks, the analyst concluded.

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FAA, Fedsim Learn Their Lesson After Pooling Project Resources

By Don Leavitt
Of the CW Staff

COLUMBUS, Ohio — Bringing together the skills and tools of people well-versed in computer performance evaluation and of people equally knowledgeable in the logic and purposes of their application programming can produce improvements in programming far beyond what either group could do by itself.

That is the essential lesson of a recent project that brought technicians from the Federal Computer Performance Evaluation and Simulation (Fedsim) center to the Federal Aviation Administration data center in Oklahoma City, agreed James A. Morris of Fedsim and Ruble Garner of the FAA.

CW at CPEUG

In a joint CPEUG presentation here late last month, the two men noted that no matter how much "background" work Fedsim had put into trying to understand the FAA's large on-line Data Manager/User Request Link (DM/URL) system or the applications that used it, they couldn't match the comprehension the FAA programmers had gathered over the five years the system has been developing.

But Fedsim could help the FAA grasp the technical reasons the system wasn't meeting its expected production goals and what could be done to improve the system, so the two agencies set up a team to attack the problems.

DM/URL is a user-oriented, interpretive, on-line data base management system that is accessed interactively on a 1.5M-byte IBM 370/155 dedicated to the task, Garner explained. It was the backbone of the Manpower Information System (MPIS) and Consolidated Airman Information System (Cais), each of which was expected to be available to users in 10 or more centers around the country.

Cais is operational on a 24-hour basis and MPIS is in test mode 16 hours a day. When Fedsim was brought on the scene in April, MPIS was scheduled for production mode starting in September — but there were performance problems and concern about how it would function in a production mode.

Two Necessary Tasks

Fedsim saw the need for two separate tasks: one to measure MPIS as it existed, the other to simulate the system to determine how it could be helped. Morris and his colleagues wanted to identify the current performance level, the hardware and software constraints and the changes that should improve performance.

Garner and his half of the team were put to work brainstorming to come up with what they thought might be wrong, based on their experience with the system. Ultimately 25 hypotheses were compiled and the Garner team settled in to determine how to prove the validity of each of these possible problem areas.

Hardware monitors were used to mea-

sure system level utilization and to perform a detail analysis of MPIS. Software monitors were applied to disk analysis — the DM/URL system shared disks with another FAA 370/155 — and to capture internal software utilization data.

But that wasn't enough. The FAA team members were called upon to define the system and develop special software to track module usage, priority usage, line utilization and the use of predefined process (PDP) modules from the system library.

Among themselves, the team members obtained data on messages in and out of the system and the total time, terminals served and priorities assigned to the PDP modules. A transaction time history was logged and the error statistics noted by IBM's Logrec were added.

The project team found the system had much higher CPU use than expected; it was effectively running as a sequential processing operation, and there was indeed disk interference from the other CPU. Within the MPIS coding and use, they found queuing problems and almost universal abuse of the priority scheme.

Some 16 simulation experiments were proposed and performed, and these were helpful in suggesting where changes might cause improvements or, in some cases, degradation to the system performance.

Several of the project recommendations have been implemented. Others are being implemented now. As a result of the joint Fedsim-FAA effort, Cais has been expanded to some 500,000 records and MPIS is once again being scheduled to go into production, although for reasons unrelated to the project it is now scheduled for next month.

Response time on the terminals, where the end-users are and where final judgment must be, has been improved 300% through the tuning suggested by the study.

Proceedings For Sale

WASHINGTON, D.C. — The proceedings of the eighth meeting of the Computer Performance Evaluation Users Group (CPEUG), held last December, are now in book form.

Entitled *Computer Performance Evaluation, NBS Special Publication 401*, the 142-page book is available for \$1.80 from the U.S. Government Printing Office, 20402.

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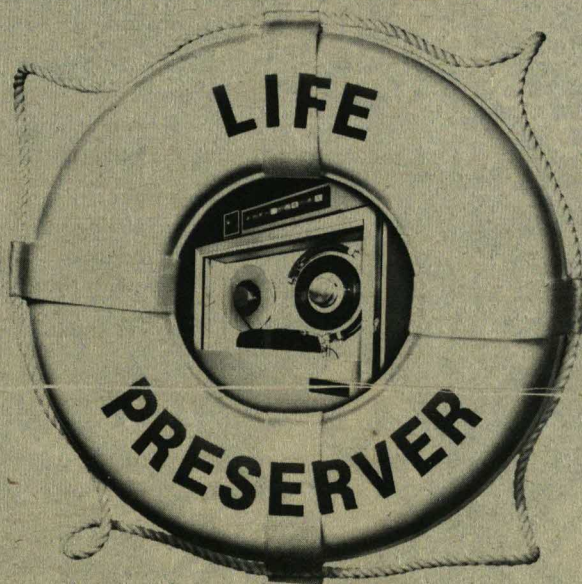
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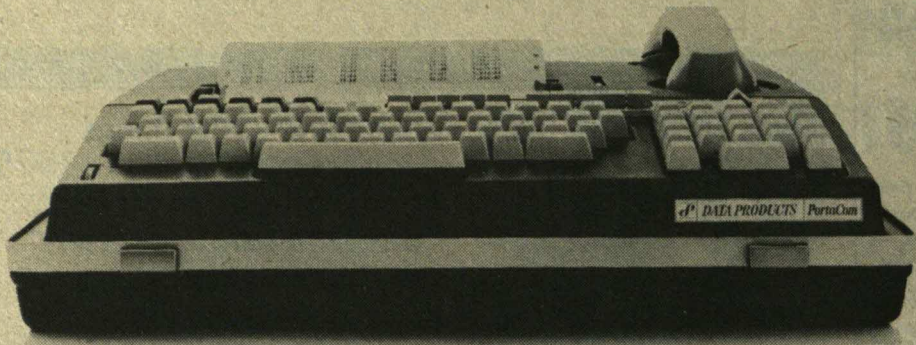
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test data and results available upon request.

GCS Payroll System Does Multicompany Processing

HUNTSVILLE, Ala. — Version V of the Payroll System from General Computer Services, Inc. (GCS) is designed for companies with as many as 200,000 employees, multicompany processing or holding company responsibilities, as well as multicountry installations.

Designed primarily for batch processing, Version V could be put on-line for use with IMS, Total or Vsam with minimal modification, according to a company spokesman.

GCS also provides — on an "as requested" basis for an extra fee — separate tax modules for users who need foreign taxation capabilities. In addition, the company provides tax maintenance service, including rewrit-

ing reporting programs, for \$2,000/year.

Multiple federal identification numbers make the program particularly useful in companies organized as a single entity but reporting in multiple entities, GCS noted.

The system has unlimited state transfer capability. This feature permits handling employee changes from city to city, or state to state an unlimited number of times during a given year and even within a single pay period with no manual processing, the spokesman said.

Alternate pay bank capability allows payment of employees through local banks where required by law.

A check backout procedure allows a check to be reversed (by number) up to 90 days after issue, the company said.

The system also collects personnel data for report generation to satisfy federal Equal Employment Opportunity Commission requirements as well as routine retirement and anniversary and other user-defined listings.

Written in ANS Cobol, the system can run in OS in 120K, but runs better in 200K, utilizing larger block sizes, GCS said. Under DOS, it takes 85K to 90K but runs better at 150K to 160K.

The \$35,000 purchase price includes 80 man-hours of on-site installation support, user training and documentation, the company said from 1332 Meridian St., N.E., 35801.

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'PL/B4' Processor Backs Basic/Four

SANTA MONICA, Calif. — The Basic/Four programmer may obtain some of the control structure advantages of higher-level languages like PL/I, plus an ability to use meaningful mnemonic variable names without restricting his use of any features in Basic itself, with the PL/B4 processor from R&S Advanced Systems, Inc.

A PL/I control structure is accomplished through block structured conditional statements and looping statements, R&S said.

The looping statements in PL/B4 include those that cause a loop to be executed as long as a given logical expression is true (or false), and those that cause a loop to be executed a specific number of times.

PL/B4 programs are free form; statements may begin and end anywhere within an input line or series of input lines and — with the exception of quoted character strings — may freely contain imbedded blanks and comments. PL/B4 allows the use of mnemonic variable names and alphanumeric statement labels.

PL/B4 is said to be "especially convenient" when used as a programming tool in conjunction with R&S's Business Oriented Word Processing On-line System (Bowpos).

PL/B4 can be used on an 8K Basic/Four with a disk. It is available for \$2,500. Bowpos, which the user "really needs," costs an additional \$3,500.

A PL/I cross-compiler version of PL/B4 that runs on a DOS-oriented 360 and produces Basic code for the Basic/Four is also available for \$2,500.

R&S Advanced Systems is at 2210 Third St., 90403.

Cosmic Package Determines Standard Statistical Models

ATHENS, Ga. — Installations with IBM 360 or Univac 1108 capabilities can run efficient procedures for determining theoretical statistical models for empirical data, under several approaches, with the appropriate version of a software package from the Cosmic clearinghouse.

The package provides three options. The first, a theoretical approach, is the so-called Pearson System of frequency distributions.

The other options provide — in Cosmic's words — a "straight-forward empirical approach" to the problem. Known standard statistical distributions are presented as prospective models for the sample input.

The first of these empirical approaches includes continuous distributions, while the other covers discrete models.

The 360 version of the program is written in Fortran IV and cataloged under Cosmic's number MFS-22994. The Univac 1108 packaging is done in Fortran V and is numbered MFS-21466.

Each program is about 850 card images and can be acquired for \$300.

Cosmic is at 112 Barrow Hall at the University of Georgia, 30601.



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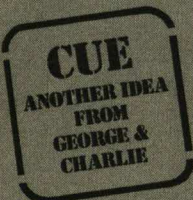
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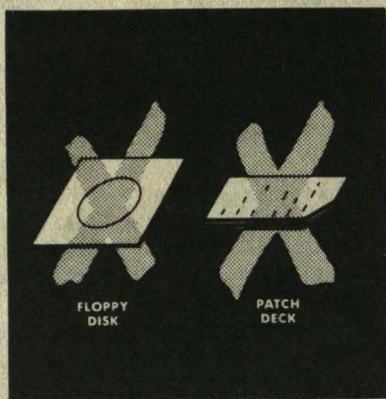


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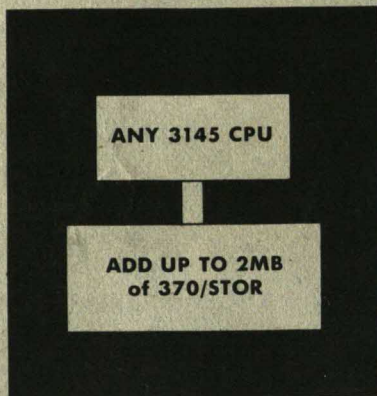
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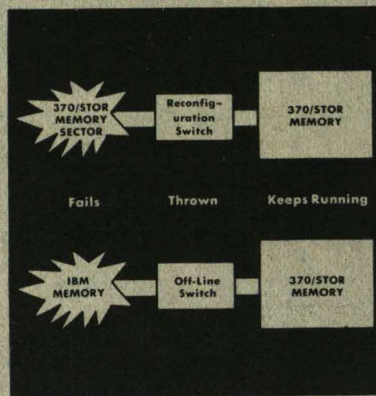
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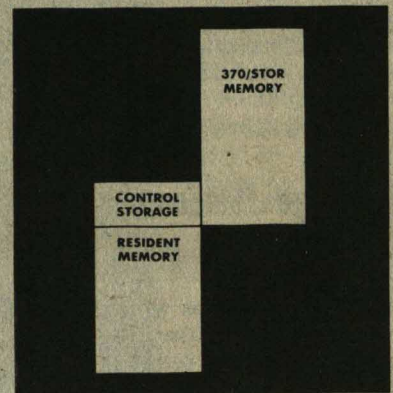
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Data Briefs

Teleray 3700 CRT Terminal Has Space-Over-Data Feature

MINNEAPOLIS — An upper/lower-case CRT terminal with dual data rates up to 9,600 bit/sec and space-over-data features is available from Research, Inc.

With a 1,920, 80 by 24 character capacity and a 12-in. CRT display, the Teleray 3700 operates in character mode with bottom line entry and scroll-up capability, the firm said.

The company added the terminal has a 128-character Ascii set which can be viewed in a wide character (40 by 24) format.

The 3700 is said to interface with the RS-232, the current loop and the TTL.

As with the Teleray 3300, the 3700 has logic, character generation, drives and interface on one plug-in board; every chip is a plug-in, the company said.

Serviceable throughout the country, the 3700 costs \$1,880 with delivery in 60 days from the firm which can be reached through P.O. Box 24064, 55424.

Lockheed Extends 3200 System

PLAINFIELD, N.J. — A communications controller has been added to Lockheed's 3200 System control processor unit to permit interfacing with combinations of up to 32 local or remote entry terminals. Serial mode transmission is used between line controllers and associated terminals, and data is transferred between the MAC 16 central processor and local terminals at a maximum rate of 19.2 kbit/sec.

The serial local/remote communications terminal, which has characteristics similar to an earlier Lockheed display, can transfer data over distances of 14,000 feet by wire or over telephone lines for greater distances.

Remote terminals are connected to line controllers via modems using full-duplex transmission and transfer rates of 1,200-, 2,400-, 4,800- or 9,600 bit/sec. Data rates are switch-selected at the terminals.

An IBM 360 and 370 communication capability in the system can be used concurrent with keying and is initiated by supervisory command. Communication protocol between the Lockheed 3200 and the mainframe is binary synchronous.

Transmission characteristics are compatible with the IBM 2701 controller, 2703 transmission control, 3704 or 3705 communications controller.

Automatic answering is provided as an option. Transmission is half-duplex, synchronous at 1,200-, 2,000- or 2,400 bit/sec over voice lines and 4,800- and 7,200 bit/sec over conditioned lines.

The lease-only controller costs from \$245/mo to \$275/mo on a five-year lease with maintenance. The firm is at Route 22, 07061.

No Longer Produces the 103

AT&T Wavering on Non-Bell Devices?

By Renald A. Frank
Of the CW Staff

Indications are growing that AT&T may be on the verge of modifying its policies with respect to data communications equipment.

In both the equipment supply and regulatory areas, major changes apparently are under way behind the scenes. In part, these changes are based on external pressures.

In a marked departure from present policy, AT&T may soon approve non-Bell

Analysis

data sets for use by its customers. This decision is presently limited to low-speed 103-type modems and is caused in part because the Bell System is no longer manufacturing the 103.

An AT&T spokesman admitted the 103 data set was not being produced but said most Bell System operating companies still had a supply of the unit. Asked if the telephone company might refer users to non-Bell suppliers of equivalent data sets, the AT&T spokesman said he knew of no such practice and added that it would be against Bell System policy.

At the same time it was reported that a facility of Bell Laboratories in Holmdel, N.J., has been testing data sets of this type from five vendors. It is believed that these tests are aimed at determining

DDA Users in N.Y. Get Rates Reduced

ALBANY, N.Y. — Users who install Data Access Arrangements (DAA) but elect not to install a telephone will pay proportionately lower rates, according to a recent ruling by the New York Public Service Commission (PSC).

The ruling was the result of a complaint brought by Dr. Robert J. Robinson, director of the computing center at the State University of New York. Robinson had complained to the PSC that the New York Telephone Co. tariff setting equal rates with or without a phone for DAA users was unjust.

The PSC ruling agreed, stating a credit was necessary in order to treat DAA customers in a manner comparable with New York Telephone's data set customers.

As a result of the PSC decision, DAA rates for users without a phone will be reduced \$1/mo compared with users who have both a phone and a DAA.

New rates are required to be filed by New York Telephone by Nov. 18. The lower charges will probably take effect 30 days after they are filed, a PSC spokesman predicted.

whether the non-Bell units could be substituted for 103s.

It was not clear how (if at all) the non-Bell data sets would be handled by the telephone company. It would be possible for Bell maintenance personnel, with AT&T's approval, to install and service the units, but it seemed more likely that the non-Bell data sets would be recommended to customers by Bell data consultants. The user could then make any arrangements directly with the non-Bell supplier.

A related question deals with whether these "approved" data sets would require the use of a Data Access Arrangement (DAA).

On the regulatory front there were indications that Bell might be considering the

introduction of a certified DAA-type module inside data sets in place of the DAA, which has drawn much opposition from both users and non-Bell suppliers.

AT&T sources in New York apparently are telling noncarrier suppliers that they expect some type of certified module inside modems. They are citing the recent Phone-Mate decision which allowed the introduction of modules, instead of external connecting arrangements, in phone-answering devices, and adding it is just a matter of time before the principle is applied to data devices.

There are presently at least three docket proceedings before the Federal Communications Commission (FCC) which deal with either the technical or economic aspects of the Bell connecting arrangements and the question of potential harm to the telephone network. And the interconnection office of the FCC staff has received little substantive data from users or non-Bell vendors relating any incidences of harm caused by non-Bell devices [CW, Sept. 25].

In most instances where Bell has tried to justify the existence of the DAA, it has not made a convincing case. In a recent New York decision against New York Telephone, the Public Service Commission (PSC) said Bell had been "given every opportunity to establish a firm foundation for its DAA rates" but "it failed to utilize its opportunity and instead chose to rely upon general statements supporting those rates." (See box.)

While none of these items in themselves points conclusively to a more lenient approach on DAAs from Bell, together they represent at least potential pressure for Bell to conclusively prove the issue of harm from non-Bell data sets.

For users, the outcome is important. Most customers feel they will get better service when a module is supplied as part of a modem and maintained by the supplier instead of the phone company. The outcome of these behind-the-scenes events should become clearer in the next few months.

Microprogrammed CRT Operates In Stand-Alone and On-Line Modes

CUPERTINO, Calif. — Designed for data entry applications and typical time-sharing jobs, the Model 2640A microprogrammed computer terminal is suited for use in stand-alone or on-line page and character mode operation, according to its vendor, Hewlett-Packard (HP).

Providing a 1,920-character capacity in 24 lines of 80 char./line, the display forms characters in a 7 by 9 dot matrix generated in a 9 by 15 character cell.

Up to four plug-in character sets are available, including the standard Roman font, math and line drawing sets with sub- and superscripts and Greek characters.

Data can be viewed 24 lines at a time by scrolling, and lines that have rolled off the screen remain in memory and are available to the user via roll and page keys, HP said.

Full off-line editing capability allows verification and correction of data before transmission to the CPU, the firm claimed. Sending one character or block

of characters at a time, the 2640's asynchronous data transmission of Ascii characters is RS-232C-compatible at selectable rates up to 2,400 bit/sec.

The terminal's modularity also permits interfacing with a variety of peripherals. Presently available is a duplex register making the 2640A compatible with the Model 9866A line printer which prints hard copy at 240 line/min.

With continued work on the project, the firm said it expects to have mass storage capability soon.

Operating with an Intel 8008 microprocessor combined with up to 8K bytes of 4K random access semiconductor memory, the terminal can store over 400 lines of data, according to the firm.

Providing users with a product it claimed is similar to the SuperBee manufactured by Bee-Hive, the Hazeltine 2000 and the Teletype Model 40, the firm said the 2640A is available for \$3,000 from 11000 Wolfe Road, 94304.

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Omnus Programmable Front End Compatible With Univac 1100s

SANTA ANA, Calif. — Omnus Computer Corp. has introduced a fully buffered, programmable front end designed to be plug-compatible with Univac 1100 computers.

Guaranteeing 99% uptime, the firm claimed its dual processor Omnus-1/CU is an enhanced replacement for the Univac Communications/Symbiont Processor and the Univac Communications Terminal

2740-Type Terminal Includes 32K Memory

SANTA CLARA, Calif. — Data Measurements Corp., a subsidiary of Cetec Corp., has announced an interactive terminal designed to be compatible with IBM 2740 II communications protocol.

The DMC 442 includes a programmable microprocessor with up to 32K of memory and a 30 char./sec impact printer. The newly announced IBM 3767 will include many of the features of the DMC 442, Data Measurements claimed.

Standard features include a 440-character buffer, VRC and LRC checking, buffer receive, editing and up to 2,400 bit/sec asynchronous or synchronous transmission speeds. The DMC 442 incorporates the Diablo 30 char./sec impact printer with selectable 10- or 12 char./in. spacing, electronic keyboard and interface for optional 10-key numeric pad.

Purchase price is \$5,750, with three- and five-year lease plans available. Delivery is 90 days from 2115 De La Cruz Blvd., 95050.

Module Controller.

Up to 128 independent full-duplex terminals can be connected to the Omnus unit, which is interfaced to a single Univac 1100 processor I/O port, the company said. The firm said the device also accommodates terminals not currently supported under Univac's Exec 8 operating system, including the IBM 2741 and 2780.

Operating at a sustained speed of 400 kbit/sec, the Omnus-1/CU represents an improvement in throughput over the Univac devices of one order of magnitude, according to the firm.

The front end is also said to use only 32K bytes of memory for up to 128 lines, while the Univac machines require 131K bytes.

The unit sells for \$214,000 and is available in 90 days from the firm at 1310 E. Edinger, Suite B, 92705.

Choosing the Right Vendor(s) All Economics, Not Engineering

CHICAGO — The choice between selecting univendor or multivendor data communications systems should depend on economic benefits and not "engineering niceties."

This was one of the conclusions drawn at a session on vendor support given at the annual CICA conference by John F. Gross, communication technical services manager at United Air Lines.

The disadvantages of the one vendor approach essentially become the advantages of the other, and the best solution for some users may be something in between the two support philosophies, Gross suggested.

The univendor approach provides limited least-cost alternatives and an

overdependence on the vendor's engineering support. Gross called the latter the "gullibility syndrome."

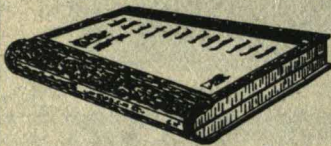
The single supplier may limit functional expansion and hamper new applications, but the impact can be minimized by building an in-house technical capability, he said.

With multivendor communications systems, the design and engineering support is fragmented so the user must assume major responsibility for coordination, and unlimited alternatives can overwhelm, Gross cautioned.

To lessen these disadvantages, he suggested more detailed user requirements, well-defined trouble isolation procedures and extensive user participation in managing the system.

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Switched Net Will Provide Privacy, Call-Back Features

The Data Transmission Co. (Datran) is presently configuring an all-digital network for data transmission communications users. The company plans to add a switching capability to this system later.

The Datran system has been operational since Dec. 1, 1973. Private-line data transmission service at various speeds is now being offered between Houston and St. Louis, Mo., and four other intermediate cities.

In a recent speech at the IEEE Electronics and Aerospace Systems Conference in Washington, D.C., E.V. Farinholt, product manager of transmission services at Datran described some of the network's features.

By E.V. Farinholt

Special to Computerworld

The digital circuit switch, coupled with an "essentially error-free" long-haul trunk, provides a transparent, full-duplex data circuit on demand to the subscriber. The switched services being offered by Datran are 2.4, 4.8, 9.6 and 19.2 kbit/sec

synchronous channels with a 99.95% error-free second performance. The switch will make most connections in less than one second.

In order to completely meet the needs of the data communications user, a number of features have been built into the switched service. Along with the usual rotary arrangement, Datran provides privacy, call-back, out-of-service and abbreviated addressing.

Privacy allows a subscriber to define a list of other subscriber lines which are allowed to call him. A privacy table is maintained on disk for each subscriber that has the privacy feature.

Calls to such a subscriber, made by subscribers not on the destination party's privacy list, will be denied by the switching system.

With the call-back feature, any subscriber can "camp on" the destination subscriber's circuit if he is busy. If the destination is busy, the network will complete the call when it becomes available.

The subscriber must request call-back prior to sending the destination address and, when the destination is busy, must remain "off-hook" until the call can be completed.

When a line is in the call-back mode, the switching system sends a code to the subscriber set which turns on a call-back status indication. If the subscriber goes "on-hook" prior to completion of a call-back call, the call is canceled by the switching system.

The system is able to queue up to six call-back requests for each number called. When a subscriber makes a call-back request to a line where six call-back calls are already queued, the call-back will not be honored and his subscriber set will be given a simple "busy" response.

Out-of-Service Feature

The out-of-service feature permits any subscriber to place his line in a condition such that any subscriber calling him will receive an indication that he is out-of-

service.

The out-of-service condition is controlled by a switch on the subscriber set. When the switch is depressed, the subscriber set automatically originates a call and sends a special address which causes the switching system to place the line out-of-service.

When the switch is released, the subscriber set sends a message on the supervisory path which the system recognizes as a request to return the subscriber line to service.

Abbreviated addressing will let a subscriber send fewer than the standard seven digits to identify his desired destination. Two types of abbreviated addressing will be offered: type 1, where the subscriber normally sends seven-digit addresses and must send an escape digit at the beginning of the addressing sequence followed by a zero-, one-, two- or three-digit abbreviated code; and type 2, where the subscriber usually sends a one-, two-, or three-digit abbreviated address code and must send an escape digit at the beginning of the address sequence followed by a seven-digit address code.

The number of abbreviated address digits a subscriber sends is dependent on the size of his abbreviated address list.

Due to the common computer control of the switched network, additional features and services such as traffic analysis, broadcast, etc. can be provided.

To make a call, a subscriber will first key into the data set the address of the destination along with any special service requests. This information is stored in the data set. After dialing, the subscriber will depress the Request-for-Service key which causes his supervisory line to change state from "on-hook" to "off-hook."

This state change is passed along the supervisory channel to the activity scanner, which registers the change in its memory and formats a "requesting subscriber" message for transmission to the computer. When the computer asks for requesting subscribers, this message will be passed to it.

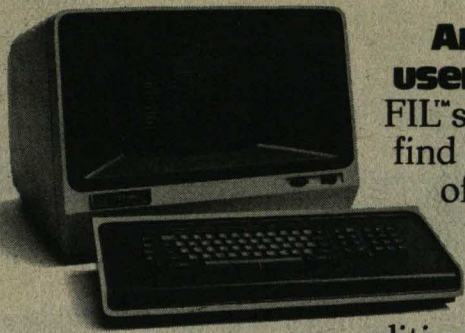
From the activity scanner location, the computer creates an index to read the subscriber information from disk. Among other things, this data includes the speed of the subscriber line and its location in the matrix. The computer selects an idle digit receiver and issues a command to the matrix control to set up a connection between the subscriber's channel and the assigned digit receiver.

Once this connection is properly made, a character is sent through the digit receiver to the data set, which causes the stored address to be transmitted. This data is checked for errors and special service requests by the digit receiver hardware. If no errors are detected, the address is then passed into a buffer in the computer.

If the call processing program determines the call is local, the computer uses the last four digits to determine the activity scanner location of the called subscriber and its present status. If it is not busy, the activity scanner location provides an index to read the destination subscriber information from disk. The computer then selects a second idle digit receiver and connects it to the destination line.

(Continued on Page 28)

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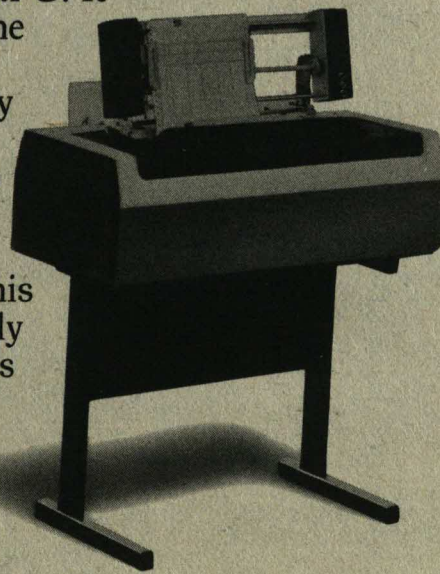
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If you think all disk packs are alike, take a closer look at the BASF 1236.

Because all disk packs conform to certain industry standards, you might think they're all equal. They aren't. The important difference is the extent to which a manufacturer is willing to go in order to exceed industry standards. It's a matter of making a disk pack better than you really need, because there could be times when you need it. Let's look at a few superior points of the BASF 1236 disk pack:

The binder that won't quit

As you probably know, magnetic coating doesn't stick to the aluminum disk all by itself. We use a special binding agent to produce an incredibly strong bond. The disk is sealed to prevent oxidation, so you can be sure that the coating won't peel or flake off.

Our own coating process

As the trend toward higher packing densities continues, it becomes increasingly important to monitor the thickness of coating deposited on the disk. The problem is compounded by the necessity for progressively varying the coating thickness from the outside toward the inside of the disk, because packing density is greater as the

circumference decreases. For those reasons, we've discarded conventional coating methods in favor of an exclusive process using our own BASF-designed equipment.

A polished performance

Following the coating operation, we use our own exclusive polishing process to achieve optimum surface regularity. We've been able to achieve a surface so flat that the possibility of a head crash caused by uneven disks is completely eliminated. We might mention here that the coating and binder formulation, combined with coating and polishing techniques, all are important factors in achieving surface hardness, which is the ability of the coated surface to survive excessive or extended head loading.

Achieving balance

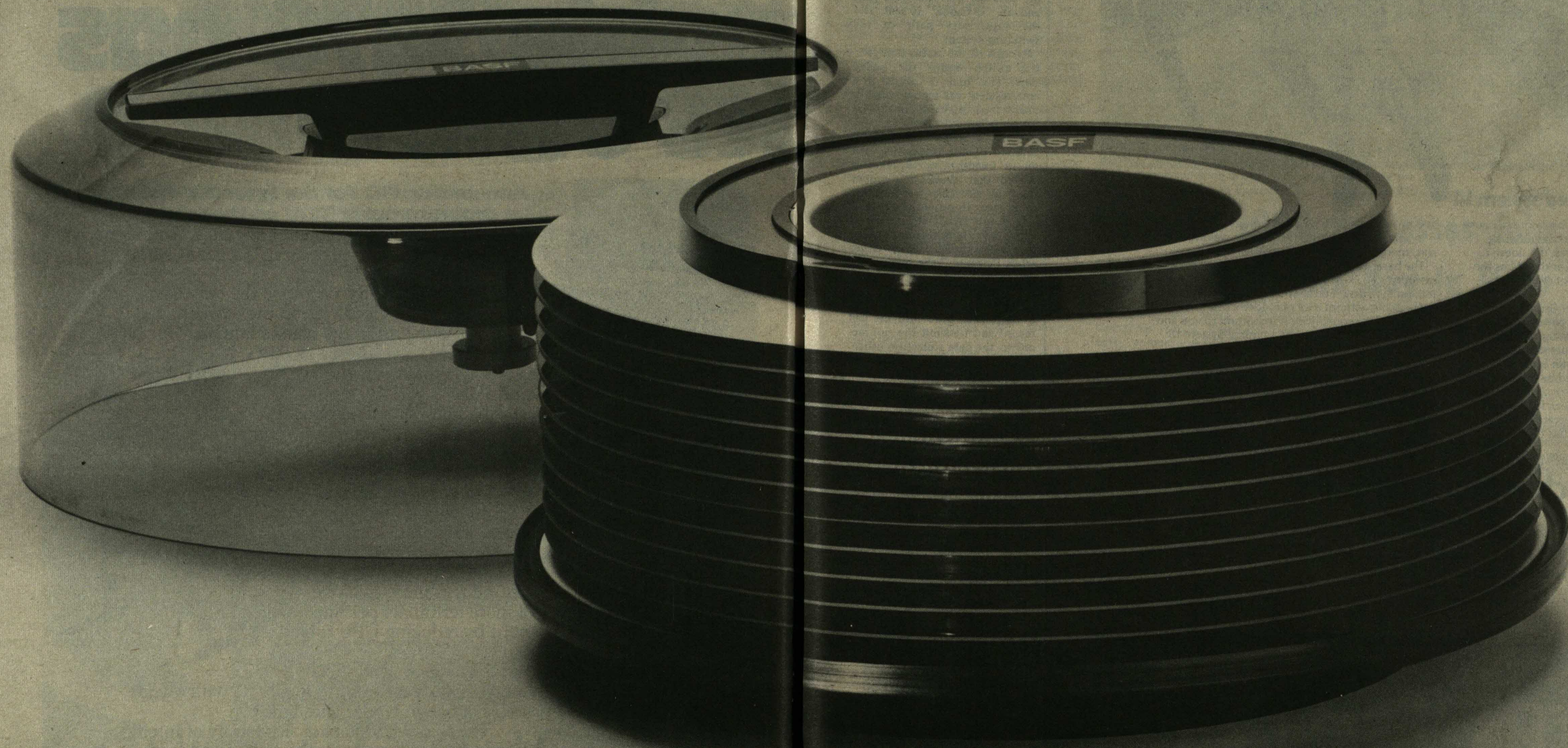
Like any rapidly rotating object, a disk pack will behave strangely if not perfectly balanced. In our precision balancing operation, any weighting required is screwed into place, which eliminates the potential of shifting inherent in a conventional adhesive weighting system.

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Finally

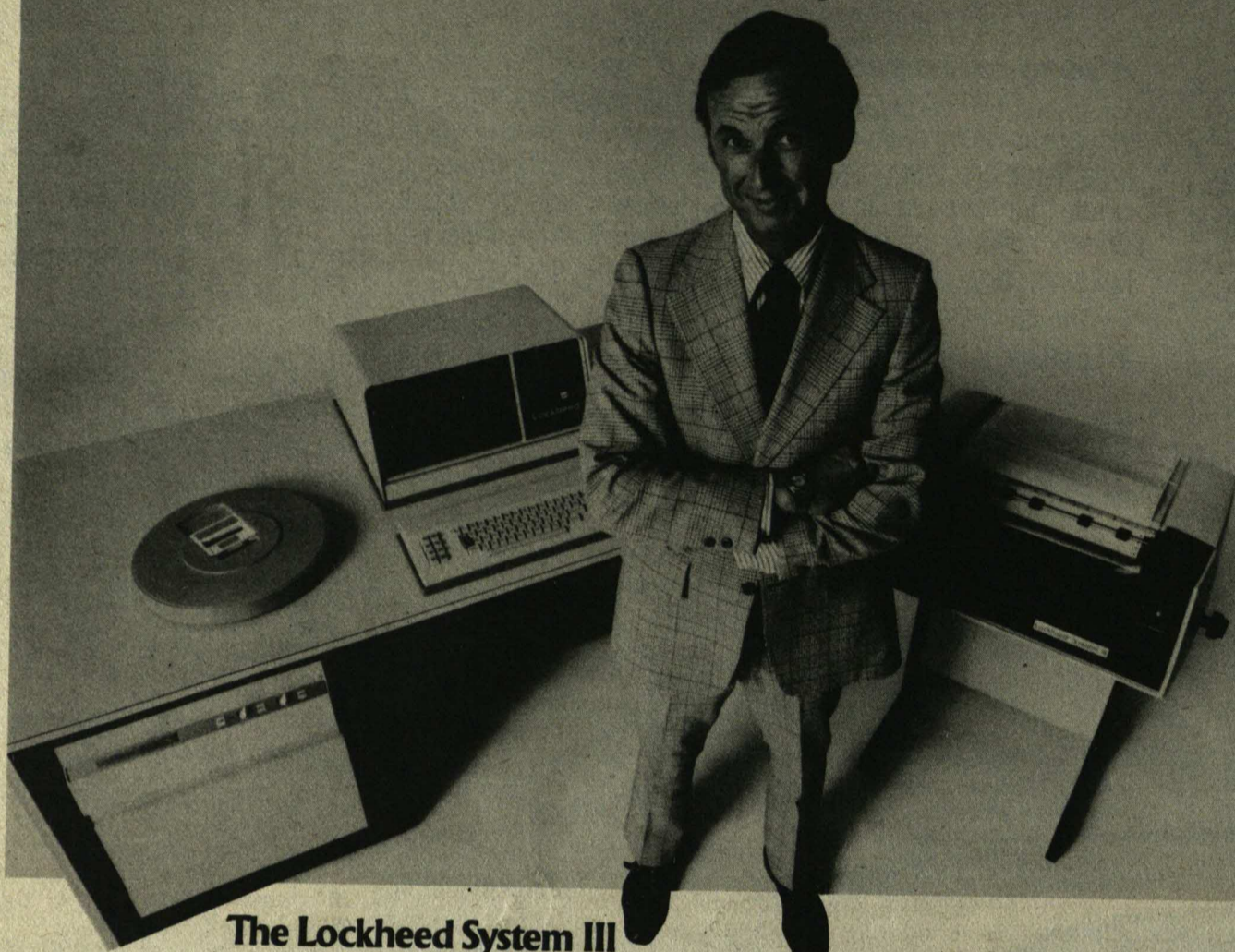
Our 1236 costs no more than other twelve-high disk packs. You're already paying for BASF quality...you might as well have it. For more information on the 1236 or other BASF disk packs or cartridges, write to BASF Systems, Crosby Drive, Bedford, Massachusetts 01730.



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Switched Net Includes Privacy

(Continued from Page 25)

A test character is sent through this digit receiver to the destination data set, which responds with its seven-digit address. This address is received in the computer and compared with the dialed address to make sure the proper connection has been made and that proper transmission over the destination line may take place.

Once these checks are complete, ring characters are sent first to the destination data set and then to the originating data set. Both data sets return the ring character to the system to check proper receipt of the ring at the data set. Once ring and ring-back have been set up in the DCCs, the computer commands the matrix to disconnect both digit receivers from their respective lines and then to connect the two lines directly.

When the called subscriber answers by depressing his "Request-Service" key, an answer character is sent to the originating data set over the data path and an "off-hook" is sent over the supervisory path to the switching system.

Receipt of the status change in the switch begins the billing time. This time is entered in a core-resident call record which is maintained in the district office for the duration of the call.

When an answer character is received by the originating data set, a handshaking sequence is started that checks the proper state of the data set/terminal interfaces. If proper, both data sets go into the "Data" state and allow data transmission between the two terminals. When either set is "cleared," the supervisory line to the district office changes to "on-hook."

This causes the system to enter a disconnect time into the call record and transmit the call record to the data collection office. It also causes the connection between the two lines to be disconnected. Both lines are then returned to idle status.

If the call is nonlocal, the originating district office formats and transmits a trunk assignment request to the regional office on which the destination district office is homed. The regional office checks its trunk tables to find an available direct trunk or trunks between district offices.

If the line is available, the destination district office connects the assigned trunks to that line and sends a response message to the regional office indicating the action taken.

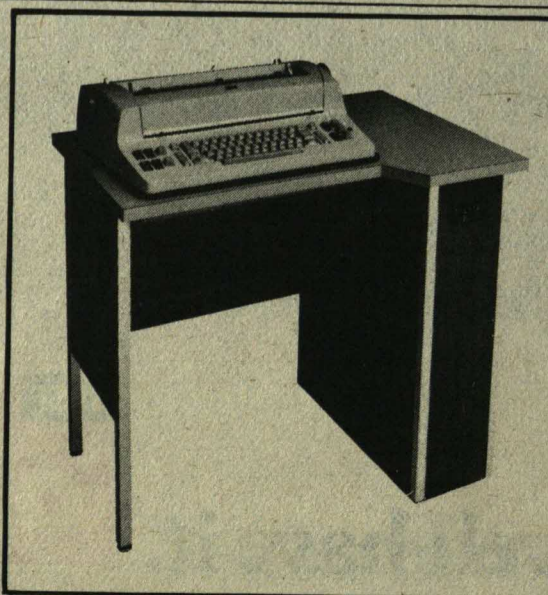
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Solid-State Power Sources Eliminate Transformer Need

ROSEMEAD, Calif. — Pacific Electronic Enterprises has introduced a line of power sources ranging from 250 VA to three kVA.

Incoming electrical utility power drives the solid-state power supply device, which in turn produces conditioned and regulated electrical current for the CPU, without the need for bulky transformers, a spokesman said.

This kind of power source can give the user the ability to absorb a line transient going all the way to zero for half a cycle, which is enough to produce false data in an unprotected CPU, the spokesman added.

The 250 VA power source, with variable output from zero to 125 Vac, costs \$695 from the firm at 2643 N. San Gabriel Blvd., 91770.

Continued IBM Maintenance Promised to SEC Users

CHICAGO — IBM 025 and 026 key-punch users who have attached a Left Zero Fill Insert device from Specialized Electronics Corp. (SEC) can expect continued IBM maintenance of their equipment, according to a letter sent from IBM to SEC.

The \$650 attachment comes equipped with its own power source and will not disable the keypunch in the event it fails, a SEC spokesman said. A technician can install the device in about two and a half hours, the spokesman noted from the firm at 5642 W. Diversey Ave., 60639.

PE Data Recovery Detailed

PLAINVIEW, N.Y. — A Quantex bulletin on "Reading Phase-Encoded Digital Data" details the recovery of such data from magnetic tapes that have been formatted in accordance with the Ansi specification for recorded magnetic tape cartridge for information interchange, 4-track, 1/4-in., 1,600 bit/in. phase-encoded tapes.

The method described involves reading the direction and spacing of flux reversals to identify "1" bits and "0" bits.

Copies are available from 200 Terminal Drive, 11803.

Mag Tape Cleaner/Rewinder Locates Defective Tapes

BURLINGTON, Mass. — The Model 101 magnetic tape cleaner/rewinder features more precise locating and easier repair of defective tape, according to Computer-Link Corp.

The Model 101 is a double-press tape cleaner/rewinder with dual capstans for independent tension control during both cleaning and winding modes. The speed is 180 in./sec and the price is \$2,200 from the firm at 14 Cambridge St., 01803.

WALTHAM, Mass. — The Level 61 computer systems, smallest models in Honeywell's Series 60 computer line [CW, May 1], are designed to meet the growing DP requirements of firms or departments currently using service bureaus, tabulating or accounting machines or manual book-keeping methods and to provide a compatible growth path for Honeywell's Model 58 users, according to the firm.

Compagnie Honeywell Bull of France makes the Level 61 processors and some peripherals. Previously, the computer systems had been available only in Europe.

The Model 61/58 batch and multiworkstation version and the Model 61/60 transaction processing system compete with such equipment as IBM's System/3 Models 6, 8 and 10, Burroughs' 700 and 1700 and Singer's System Ten, Honeywell said.

The Model 61/58 can be leased at prices ranging from about \$1,400/mo to \$3,000/mo and will be available for delivery in the fourth quarter of this year.

The Model 61/60 can be leased at prices ranging from about \$2,900 to more than \$4,000 and will be available in the second quarter of 1975.

Independent Systems

Both models can function as independent systems in a small or medium-size company or as a satellite system, processing and transmitting information to a large central computer from such decentralized operations as warehouses, factories, laboratories or branch offices of a large firm, according to Honeywell.

Key-Edit 1000 Processes Jobs While Operators Key In Data

WALTHAM, Mass. — Consolidated Computer Inc.'s Key-Edit 1000 data entry system is designed to concurrently process three background jobs while operators are keying in data from up to 56 CRT stations.

The Canadian company has previously OEMed its Digital Equipment Corp. PDP-11-based system to ICL, Fujitsu and Echodata in South America. The firm's U.S. office is now offering the Key-Edit 1000 along with the smaller, previously introduced Key-Edit 50 system.

The Key-Edit 1000's concurrent processing capability means the system can transmit to a central site at 2,400 bit/sec, run a tape-to-print routine and process files while operators enter data, a spokesman said.

The user can order core storage up to 192K bytes, up to 120M bytes of disk storage and up to eight tape drives.

The Model 61/58 entry-level system processes batch programs serially and can be expanded easily to a multiworkstation version that allows simultaneous processing from up to four terminals with the batch program having priority, the company said.

The Model 61/60 includes a front-end processor of 8K, 12K, or 16K of MOS memory and allows simultaneous use of up to eight terminals and one batch program with the conversational programs having priority.

The Level 61 General Comprehensive Operating Supervisor (GCOS) operating system is available in three fully compatible versions which allow the entry-level batch user to move up to a full transaction processing system, the firm said.

The Model 61/58 uses Minicobol, ANS Cobol-68 or Editor languages. Model

61/60 users can also select ANS Cobol-74 or Basic.

The main processing memory has a complement of 78 hardware instructions and a cycle time of 1.2 μ sec. A 350-nsec read-only memory (ROM), peripheral simultaneity and a no-sort disk file structure contribute to low storage requirements and reduce total processing time, Honeywell said.

An optional 800-nsec MOS extended memory store, ranging from 16K to 64K bytes, enhances the 5K or 10K main memory.

Peripherals include mass storage subsystems with capacities ranging from 3.456M bytes, printers with operating speeds ranging from 100 to 650 line/min and various input devices including card readers and punches and an optical mark reader.

HP 3000 CX Series Features Spooling, Virtual Memory, DBMS

By Patrick Ward
Of the CW Staff

PALO ALTO, Calif. — Hewlett-Packard's 3000 CX series of "minicomputers," a lower-priced replacement for the firm's 3000 line, offers a common operating system that supports full spooling, data communications, and a data base management system, none of which were available on the 3000 line.

The 3000 CX line also offers RPG for

the first time on an HP machine, plus a Basic compiler, which the company said provides the 3000 CX with much faster Basic program execution than the 3000.

Cobol is carried over from the 3000, but the 3000 CX offers a full ANS version except for the report writer feature, according to an HP spokesman. The machines also support ANS Fortran and HP's Systems Programming Language (SPL).

HP 3000 users will have to recompile their application programs to take advantage of the 3000 CX's capabilities, the HP spokesman mentioned.

Also new is a microprocessor, based on a 32-bit LSI read-only memory with 176 nsec cycle time. This gives the 3000 CX a set of 182 instructions, compared with 168 on the 3000. Decimal arithmetic and extended precision floating point are among the optional instructions.

The microprocessor is not user programmable due to the complexity of working with the 3000CX's stack architecture, the spokesman explained.

The spooling capability helps the 3000 CX achieve substantially increased throughput in multiprogramming environments compared with the 3000, the spokesman noted.

The 3000 CX's MPE/C multiprogramming operating system can support 11 or 12 jobs running concurrently, according to the firm. The operating system allows Cobol and RPG program development and execution from a terminal, the spokesman noted.

The 3000 CX's Total-based data base management system works with any of

(Continued on Page 31)

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Mo. Plans \$19,000 Savings

COMs Consolidated Under Single Vendor

By Patrick Ward
Of the CW Staff

JEFFERSON CITY, Mo. — Consolidation of the state of Missouri's computer output microfilm (COM) contracts with a single vendor will save the state a projected \$19,000/year and make it easier for user departments to try the technique, according to Ken Pike, a systems analyst with the state's Division of EDP Coordination.

A 224 frame duplicate fiche cost state agencies an average of 12.99 cents before contract consolidation in September 1973, Pike explained. The cost was 10.4 cents under the first year of the single contract, he said.

Inflation raised this price by 1.6 cents in the second consolidated contract starting in September 1974, Pike noted, but he said the price under the previous system would have risen too.

The state projected its COM usage over the second contract period based on the last three months of usage figures available from the first contract period, Pike noted. The state would have had to pay \$19,000 more for the second contract's usage level if the state was still relying on the multiple vendors, he commented.

The single-vendor award to Computer Microdata of St. Louis also led that firm to establish a branch office at the state capitol of Jefferson City.

Another benefit from consolidation is that agencies interested in COM do not have to go through the process of negotiating contracts with a COM service bureau, but can just send a letter to one state office, Pike said.

The state processed about 122 million pages of microfiche in the first eight months of its consolidated contract, Pike said. This extends to 184 million pages for the year, which is 19% above the estimated usage figure, in the contract, Pike observed.

If the monthly usage figures were based on the last three months of recorded use, the underestimation could have been as high as 57%, Pike commented.

The state processed over 36 million microfiche pages during the first three months of the contract, but in the last three months studied, the figure rose to over 60 million.

The Employment Security, Welfare and Revenue departments are the biggest COM users in Missouri's government, Pike said. They and other state agencies tend to use COM for "getting information out to people who need it in the field," not for archival purposes, he remarked.

The Employment Security Department, for example, outputs its job information records on microfiche by type of job and

region and mails them daily to its offices throughout the state.

A client can use a microfiche reader to look into job offerings for his particular skill in a given area, and the same information is available for any region in the state.

The department is experimenting with on-line terminals for the application, Pike said, but he pointed out that a fiche reader rents for \$10/mo compared with about \$170 for a CRT.

A 10 cent stamp will mail the COM equivalent of 896 to 1,120 pages of print anywhere in the U.S.

And for the same reason, carrying a massive amount of COM data from place to place is much easier. COM also reduces the amount of storage space needed for records.

An on-line system better suits the user who needs information updated quickly, Pike allowed. Microfiche also needs a reader device to be useful.

As for the human interface and how well users respond to looking through microfiche readers, Pike said that his office hasn't received enough feedback to make a judgment.

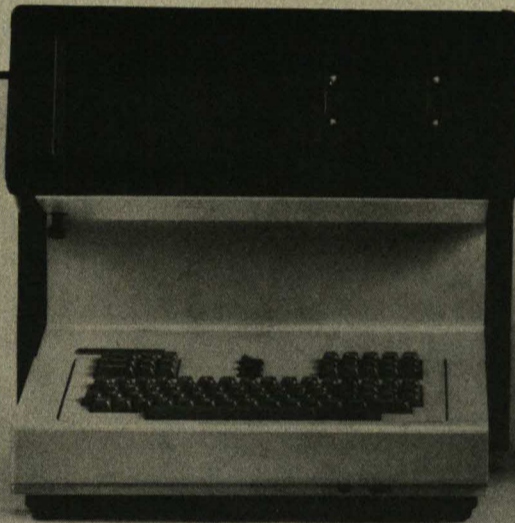
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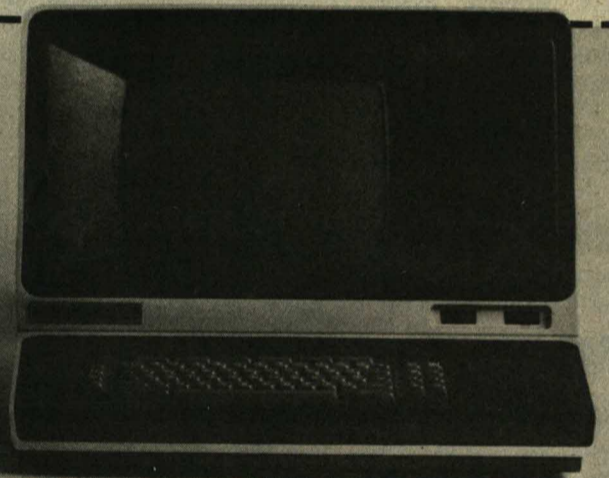
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DE-523 Intelligent Data Entry Terminal for recording, reading and verifying data on magnetic tape cassettes under rigid program control.

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- For food manufacturing industry: entry of incentive payroll, quality control information—and many more uses.
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HP 3000 CX Series Features Spooling

(Continued from Page 29)

A 3000 CX can support up to 32 interactive terminals.

The System 50 CX is the smallest 3000 CX machine. It includes a 96K processor, a 5M-byte moving-head disk, 800 bit/in. magnetic tape unit, systems console and 16-port asynchronous terminal controller.

The 50 CX includes basic utility software and costs \$99,500.

The System 100 CX also has a 96K CPU, magnetic tape unit and 16-port controller and offers additional hardware with a 600 card/min reader and 200 line/min printer, plus increased disk storage of 10M bytes. It cost \$129,500.

The \$171,000 System 200 CX has a 128K CPU, a 2M-byte fixed-head swapping disk and 47M bytes of moving-head disk storage.

The largest System 3000 CX includes a 128K processor with an expandable 2M-byte swapping disk and a 47M-byte disk file, plus a newly introduced 1,250 line/min printer and card reader punch. The cost of this system is about \$203,500.

The 3000 CX prices are about 10% to 15% below earlier HP 3000 models, the firm noted.

Triples Current Storage

DG Moving-Head Disk Stores 46M Words

SOUTHBORO, Mass. — A moving-head disk pack subsystem from Data General Corp. has a capacity of 46M 16-bit words.

The subsystem, which includes a controller for three additional drives, can transfer up to 403K 16-bit word/sec, the firm said.

The system will give the firm's users more than three times the storage capacity of its current top-of-the-line moving-head disk drive, Data General said.

Manufactured to Data General specifications by Control Data Corp., the initial disk pack subsystem, which includes master drive and controller, costs \$30,500. Subsequent drives are priced at \$24,500. Shipments

will begin in February.

Major features of the disk pack include:

- Dynamically braked spindle drive — a disk pack can be removed 15 second after the drive is shut off because of dynamic braking; startup time is also 15 seconds.

- Fast access time — on the average, 30 msec are needed to head positioning.

- Each removable disk pack contains 19 data surfaces and one servo positioning surface; each surface has 411 data tracks.

- Interfacing flexibility — disk drive access can be shared by two Data General minis; up to four disk drives can run on one controller.

- Fast transfer — within a data block the drive processes one 16-bit word every 2.5 μ sec; data transfers take place through the computer's direct memory access channel, the firm said.

The disk pack subsystem is said to be supported by all of Data General's high-level language processors and disk-based operating systems.

Miniworld

'MAP' Speeds Arithmetic Processing

BURLINGTON, Mass. — The Macro Arithmetic Processors (MAP) from CSP, Inc. can help users do fast arithmetic processing of data without tying up their mainframes, according to the firm.

The MAP boxes process data in arrays and enhance the speed of multiplication, which is the basis of digital signal processing, a spokesman said.

CSP can interface the devices to most mini- and maxicomputers. The arithmetic part of a MAP device has its own mem-

ory, which users program through a Fortran callable subroutine, a spokesman noted.

Three Models

There are three MAP models of different processing speeds. The MAP 100 costs \$5,000 and can do a 1K Fast Fourier Transform in 60 msec; the MAP 200 costs \$10,000 and takes 12 msec; and the MAP 300 costs \$14,000 and benchmarks at 4.5 msec.

Deliveries are four to six months from the firm at 209 Middlesex Turnpike, 01803.

Miniworld

Printer Outputs 300 Line/Min

IRVINE, Calif. — Printronix, Inc. has a 300 line/min multiple copy matrix printer that the firm said bridges the gap between conventional low-cost/low-performance matrix printers and the higher-cost/higher-performance drum/chain/train-type devices.

With 'Any' Mini

The printer can be used with any minicomputer that can interface a Dataproducts 2230 printer, or Centronics or Data

Printer models, according to a Printronix spokesman.

The device's printing mechanism, supported by scanning and decoding techniques similar to those of CRT alphanumeric displays, permits placement of uniform density dots on command. It can also be used as a plotter, according to the firm.

The Printronix 300 costs \$3,975. Deliveries are scheduled to begin in the first quarter of 1975 from the firm at 17935 Sky Park Blvd., 92707.

Interrupts at Any Point

Console Helps Debug PDP-11 Programs

CHERRY HILL, N.J. — Formation Inc.'s Program Debug Console for Digital Equipment Corp.'s PDP-11 mini is said to allow users to stop or interrupt the system at any point for examination of its various elements and offer a backward look at the last 16 addresses that appeared on the Unibus.

Stops Processor

Among its capabilities, the Program Debug Console will stop the processor on a specified address when a read or write is attempted, generate an interrupt

when the processor accesses a specified address in a read or write mode and stop the processor when any interrupt occurs.

The 801 Program Debug Console is priced at \$1,200 from the firm at One Computer Drive, 08003.

Cartridge Disk Made for PDP-11

SUNNYVALE, Calif. — A cartridge disk system from Advanced Electronics Design (AED) is said to be compatible with Digital Equipment Corp.'s PDP-11 minicomputers.

All AED 2200 hardware, software and media are directly interchangeable with DEC's

RK-11/RK-05, 03 system, AED said.

In an existing system, the AED 2200 can be intermixed with other cartridge disk hardware at will, the firm added.

The 2200 controller plugs directly onto the PDP-11 Unibus, and controller electronics are mounted on a single printed circuit board.

Overlapped Operations

The controller can carry out overlapped operations and has nonprocessor request and direct memory access features. Average random move is 70 msec, and the data transfer rate is 11.1 μ sec/word.

The Diablo disk drives used in the system are available in several variations with removable and fixed cartridges. The controller can operate up to four disk drives in any combination for a total of almost 5M 16-bit words.

Price of a basic AED 2200 system, including a single-spindle drive, removable cartridge and necessary connecting hardware, is under \$6000. The firm is at 754 N. Pastoria St., 94086.

CDI's Turnkey 'Opus III' Uses Basic, Fortran

DALLAS — Computer Development, Inc. has a turnkey computer system designed to compete with accounting machines in small and medium-size firms.

The 16K machine, called Opus III, supports Extended Basic and Computer Development's "business Fortran," a spokesman said. The company offers a wide range of application software, he added.

Basic System

The basic system in addition has a desk, typewriter and three cassette drives. Options include 100- to 600 line/min printers, tape drives, paper tape readers, 10M-character disk and a 2,000-character CRT.

An Opus 2000 system costs between \$20,000 and \$30,000 depending on peripherals, the spokesman said. Typical delivery is 30 days from the firm based at 13500 Midway Road, 75240.

'Quick-Writer' Handles Editing Cassette Data

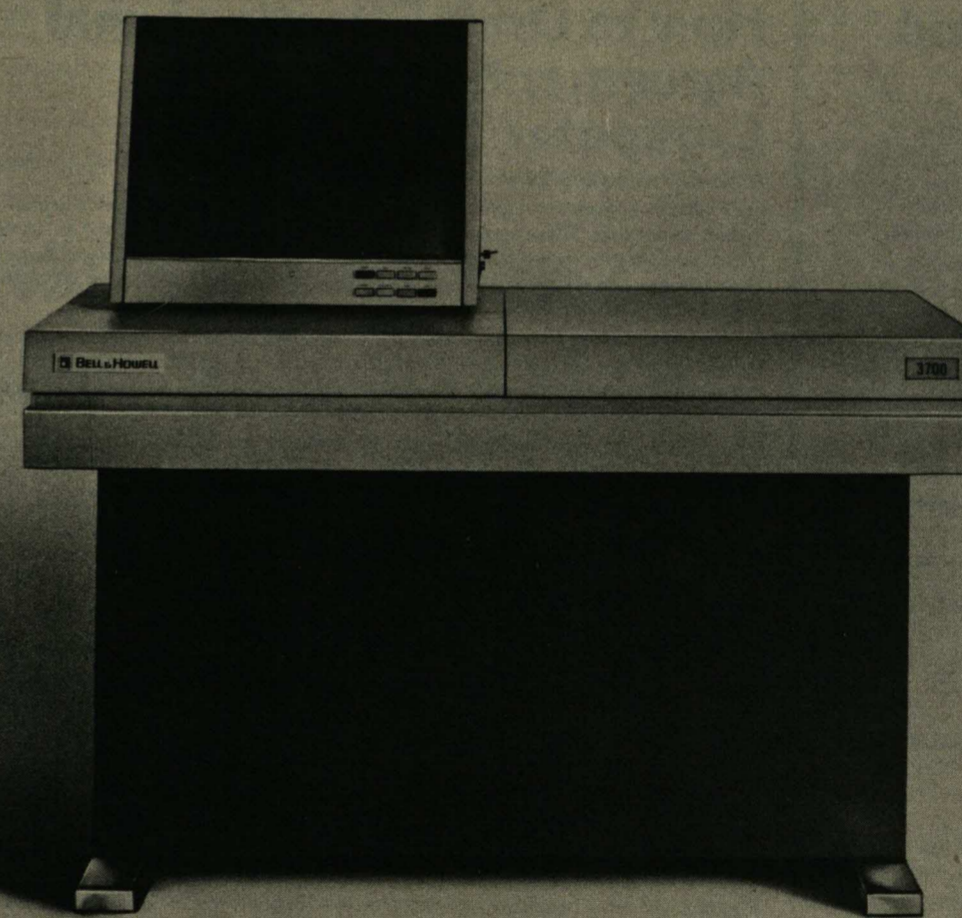
CUPERTINO, Calif. — Versatec has introduced a word processing matrix printer that can print 500 char./sec from Redaction or Remington Rand automatic editing typewriter cassettes.

The machine can also print incoming data from remote automatic editing typewriters at data transmission speed, Versatec said.

The Versatec Quick-Writer costs \$9,700 from the firm at 10100 Bubb Road, 95014.

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Data Communications

Includes SDLC, HiD-LoD, and other topics that weren't even heard of a year ago.

Data Communications is a complicated and rapidly changing field. And this seminar will give you the information you need to keep on top of the subject. Led by the nationally recognized teleprocessing consultant, Dr. Dixon Doll, the course covers recent changes in areas like SDLC, HiD-LoD, DDS, newly approved major revisions to WATS, and the impact of satellite carriers and specialized carriers.

The course will also cover general data communications topics, including intelligent terminals (performance and selection criteria), network software handlers (e.g. CICS) and network organization and design. And, you'll learn about saving money using such innovative concepts as split-stream modems, remote-multiplexers/concentrators, diagnostics for fault isolation and front-end processors.

All participants in this seminar will receive a 2-volume loose-leaf outline of all course materials (prepared by ICC Institute), a copy of "Data Modems Selection and Evaluation Guide" by Vess V. Vilips and a "Data Communications and Teleprocessing Dictionary".

You should attend this seminar if you are currently involved in data communications on a management or operational level and wish to expand your knowledge of the field — or if your company will be going into this area in the near future.

This seminar runs two days, and total cost, including workbook, reference materials, luncheons and continental breakfasts is \$350. Additional registrants from the same company qualify for a reduced rate of \$300. Current schedule is as follows:

Miami Miami Marriott December 2-3

Data Base Management

A practical approach to the design and implementation of data base systems.

The difference between an effective data base system and a waste of computer time and memory lies in effective planning, system selection and management. And this course gives you both the information and the basic experience you need for the proper design and implementation of a data base system.

Given in association with Leo J. Cohen and Performance Development Corporation, this course covers a comprehensive list of topics, including:

- the description and definition of the Data Base System Project.
- the development of a full-service analysis and system design.
- optimum file organization and indexing techniques.
- all available indexing techniques and their implementation.
- all aspects of system management.
- and much more.

One of the key features of this course is the workshops, in which you'll apply what you've learned. And before you're finished you'll have "done" a complete, on-line order entry / inventory management system.

You should attend this seminar if you are (or will be) involved in the design and implementation of a data base system — whether as a DP Manager, Data Base Administrator, Planner, Analyst or Programmer.

This course runs for 3 days, and costs \$350, including course materials, continental breakfasts and luncheons. Additional registrants from the same company qualify for a reduced rate of \$300. Current schedule:

Chicago Playboy Towers November 18-20
Denver Denver Hilton December 9-11

Contracting for Computers and EDP Support Services

A seminar that can help you protect your EDP investment — and your system.

In an industry that's famous for its "promise them anything" attitude, you need good, effective contracts from the vendors that supply your installation. And this seminar gives you the information you need to get them. It will show you how to protect your installation from late deliveries, inadequate equipment or services and the costly disruptions that they can cause.

Course topics include the lease and purchase of computer systems, separate hardware and software — the purchase of time sharing, data processing services and consultation — and the use of facilities management.

Under the personal instruction of Roy N. Freed, a nationally known lawyer, author and expert in the field of computer law, you'll learn how to place yourself in a strong bargaining position, how to insure on-time delivery of exactly what you want, how to set reasonable performance standards for warranties — and much more. You'll also receive a complete resource notebook, including sample vendor contract forms.

You should attend this seminar if you are involved in the purchase of EDP equipment or services, whether as a corporate counsel, contract administrator, DP manager, consultant or officer of a using firm.

Cost for the entire 2½ day seminar, including complete resource notebook, continental breakfasts, luncheons and coffee breaks is \$295.00. The current schedule:

Chicago Hyatt Regency O'Hare December 4-6

How to Draft Effective Legal Agreements Relating to Computer Technology

A one-day workshop for non-legal technical people

For a variety of reasons, computer users and computer manufacturers often use non-legal people to draft agreements. These agreements are used for specific transactions and as "standard forms", and they can cause significant problems. It's easy to overlook important legal points — especially if you're not a lawyer — and this workshop is designed to give you the basic knowledge you need to avoid the pitfalls.

Conducted by Roy N. Freed, course leader of our comprehensive contracting seminar, the workshop includes the following topics: Purpose and functions of formal agreements; architecture of agreements; language caveats; use of forms; checklists and outlines; suggested writing style; sources of applicable legal rules; sources of assistance; and more.

Cost of the workshop, including resource notebook and lunch is \$135. Current schedule:

Boston Sheraton Boston November 20th



Key-To-Disk Systems

How to evaluate and optimize the most common successor to keypunch equipment.

Data entry is a big problem — and a big headache — as every computer user knows. And key-to-disk systems are one of the most popular methods of improving efficiency in this area. So this course is designed to help you in the practical aspects of selecting, installing and making the best use of key-to-disk. Topics include:

- key-to-disk hardware and software.
- starting a key-to-disk system.
- data entry system design.
- key-to-disk as a remote batch terminal.
- operating a small key-to-disk system.
- improving productivity
- trends in computer data entry — including multi-media

This seminar is lead by Lawrence Feidelman, President of Management Information Corporation, and one of America's leading experts on data entry. All participants will receive a copy of "Data Entry Today", Management Information Corporation's authoritative publication on every aspect of data entry.

You should attend this seminar if you are considering (or currently using) key-to-disk systems. Cost for the 3-day seminar is \$350, including continental breakfasts, luncheons and all course materials. Additional registrants from the same company are charged only \$300.

Current schedule:

New York City Waldorf Astoria November 11-13

To: Ed Bride, Vice President, Editorial Services, Computerworld
797 Washington Street, Newton, Mass. 02160

Please send me a brochure and registration form for the following seminar(s):

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NOTE: If time is short, you may reserve space at any seminar by calling collect. Call Marcia Hewett at (617) 965-5800.

Small User Not a Threat

Larger Installed Base Means Growing Services Market

By Molly Upton
Of the CW Staff

NEW YORK — Rather than viewing as a threat the increased installed base of computers, especially small machines, and the growing sophistication of users, the DP services industry should realize these factors represent a larger and more challenging market, Drexel Burnham & Co.'s senior analyst Harry Edelson told attendees of the 41st Management Conference & Annual Meeting of the Association of Data Processing Service Organizations (Adapso).

Bringing up a theme that was to recur within workshops, Edelson said "instead of looking at the small computer user as a threat, the industry should regard him as an important

source of revenues and develop services tailored to his needs." The computer companies are educating and whetting the appetites of computer users, he added.

"Helping users achieve the maximum benefit from DP, irrespective of whether the hardware used is in-house or external, is the job of the DP services industry," he said.

Citing the customer bases of several firms as blue chip institutions with extensive in-house capabilities, which accounts for most of the DP service industry's revenues, Edelson said this "should be proof enough that computer proliferation is not the death knell but rather the life blood of the services industry."

Smallness Suffers

Dividing the prospects of the DP serv-

ices segment into long- and short-term, Edelson cautioned that although prospects for the future are bright, there may be difficulties in the short-term including a shakeout among small service bureaus.

In addition to "competition" from a growing installed base, the other factor seen as a threat in the long run is the possibility of saturation, he said. But

CW at Adapso

after explaining his basic precept that the prosperity of the DP services and hardware industries are closely entwined and not mutually opposed to each other, Edelson noted the computer industry does not face saturation.

"Burgeoning uses for computers in the U.S., enormous overseas potential and phenomenal technological strides by the semiconductor industry make the prospect of imminent computer saturation highly unlikely," he said.

"Hardly anyone has a computer in his home; only one third of computers utilize communications facilities; and most challenging to the DP services industry, the computer, like the human mind, is being used only at about 5% of its ultimate potential."

Recession More Serious

Edelson warned that the DP services industry would not be immune to the recession, for which his firm forecasts an 8% drop in general corporate profits in 1975 despite an amelioration of economic factors, such as a projected prime rate of 8% to 9% by the end of the first quarter of 1975.

"As a matter of law and regulatory policy, CML would not be permitted to engage in discrimination or favoritism. Moreover, as a matter of enlightened self-interest, it would be essential for CML to configure its satellite system, to fashion its service offerings and to utilize technical characteristics that would make the system attractive, efficient and economical to users generally.

"It would make no economic sense for CML to limit its service to customers using IBM equipment. . . . Every effort will be made to assure that interconnection specifications and other technical arrangements are designed to meet the needs of data processing users generally — not just those with IBM equipment."

IBM's reply also refuted the argument voiced by some opponents that IBM and AT&T might split up the communications marketplace, with IBM servicing data needs and AT&T voice.

"Our studies have persuaded us that if a domestic satellite communications system is to be a viable business it must serve the complete communications needs of customers — voice, image and data. There is no way it can succeed without voice," IBM said.

IBM also noted in its reply that it has "no desire for a permanent position as majority owner of a satellite communications carrier and has joined with Comsat General in the intention, subject to a necessary Commission approval, to make available a substantial number of shares of CML common stock to other investors after CML has gained operational experience."

In fact, a more serious threat to the DP services industry than either competition or saturation is posed by the economic situation.

However, because of the nature of this recession, which is tempered with inflation, and the idiosyncracies of the computer industry, the 1974 recession will have less of an impact than prior recessions on the DP industry and will be felt in 1975, he said.

Edelson explained the computer industry generally benefits from inflation, as DP is seen as a labor saving device used to combat climbing labor and production costs.

Inasmuch as the fortunes of the services segment are proportioned to those of the computer industry, "statistics show that annual gross revenues for both hardware and services have increased uninterrupted, with service revenues growing about 50% faster," he said.

However, he cautioned, "the common wisdom that a drop in capital spending will divert customer DP expenditures from hardware to services has never been proven. If the current recession deepens, we will have an opportunity to see if the common wisdom holds up. Don't bet on it."

In the near term, with the impact of the 1974 slowdown hitting the DP industry in 1975, small firms will be more vulnerable than large firms.

Small service bureaus and time-sharing companies "are finding it increasingly difficult to remain small and, at the same time, economically viable," Edelson said. He predicted a continuing shakeout of the service bureau segment comparable to what already happened in the time-sharing area.

Small firms find it costs them more to borrow money, and it is harder to cut direct costs since equipment is already at minimal levels, he said. In addition, when things look bad, employees leave.

Small firms' stock prices are too low to raise equity. Interest rates are too high to raise debt. Software development costs must now be expensed as incurred. The cost of labor and supplies is climbing rapidly. Inflation is being licked, but primarily because the recession is worsening, he noted.

The alternatives facing small firms are to go out of business, merge or grow, but the latter is difficult, because "very few companies possess the managerial and financial skills that can serve to catapult them into the ranks of medium-sized companies," he said.

Although merging is a viable alternative, it is "not generally desirable at current depressed valuations."

Successful companies, he noted, have economies of scale on their side. "The incremental cost of providing repetitive services is negligible."

A small firm adding a computer feels a drain on earnings "since additional revenues cannot be generated fast enough and very little can be shifted from the overloaded computer."

Larger firms with several overloaded machines "can easily make a new computer profitable from the day it is installed by load shifting and normal growth," he explained.

In addition, big firms can spread the cost of program development over a larger number of accounts.

But growth can have its pitfalls, as several time-sharing firms found out this year. Upgrades or adding another make of equipment, mean concomitantly higher software development costs, lack of compatibility between machines, lower hardware reliability and an "inability to compensate for downtime because of the impossibility of shifting customer loads between different types of computers."

Despite growing pains, the interactive and remote batch markets continue to grow at about 30% per year. Almost all T/S and software companies saw their percentage of revenues from proprietary software rise, he said.

A distinguishing characteristic about the computer industry is that its gross statistics are largely biased by IBM, which is more affected by its product cycle than mere external factors such as war or depression, he said.

Edelson listed other features of the DP industry as seen by Wall Street.

The computer industry is "relatively" recession resistant by virtue of its large rental base and large order backlogs. The services industry, lacking these, does have some long-term contracts, but more importantly, "the cyclicity of the services industry is reduced somewhat by its dependent relationship to the acyclical computer industry."

Edelson pointed out that the hardware industry is multinational while the DP services industry is domestic. Use of excessively liberal accounting has largely been eliminated.

In addition, inventory profits in the DP industry have been moderate as prices have remained stable through benefit of cost reductions from improved technology.

The DP services industry has a great plus going for it in that it does not suffer from scarcity of materials and energy to the same extent as manufacturing companies.

Also, there has been a dramatic and steady decline in the cost of computing measured by price/performance ratios.

GSA Extends Dates For 168 Deliveries

By a CW Staff Writer

WASHINGTON, D.C. — Deadlines and requirements on a recently announced Social Security Administration solicitation for two IBM 370/168 computer systems have been changed. The original proposal was divided in half and the delivery date for the first 370/168 was set for Nov. 15 as originally planned, but the second was delayed until Dec. 13.

The changes, made in response to leasing firms' protests over the 10-day lead time in the original request, were announced in a mailgram issued by the General Services Administration (GSA), the agency coordinating the procurement.

Because of the 20-day delivery deadline after bid selection, computer leasing firms had accused the GSA of issuing "a virtually sole-source award to IBM."

To make the system still "easier to bid," the GSA deleted requests for four 3830 storage controls, 20 3330 disk drives and eight 3333 disk drives and will obtain them separately from the Automated Data Processing (ADP) Schedule Contract, according to a GSA spokesman.

In addition, delivery dates for a Model 7412 console and console attachment requested for each of the central processors "may be delayed," but not more than 60 days, according to the mailgram.

Opening date for the first 168 is now set for 3 p.m. Nov. 8, and for the second system, 3 p.m. on Nov. 22.

The GSA spokesman explained the Social Security Administration is in dire need of the equipment and has been since last spring. The request for additional equipment "got hung up in the privacy flack this summer," he explained.

The spokesman indicated, however, there was a need to balance the needs of the users in getting the equipment with those of the vendors in bidding, and therefore the solicitation was being modified "to give vendors a fair shake."



Edelson

IBM Tells FCC It Will Give Proprietary Information to CML

WASHINGTON, D.C. — In its reply comments to the Federal Communications Commission (FCC), IBM revealed it will make available to the restructured CML Satellite Corp. some proprietary information and said CML's services would not be limited to users of IBM equipment.

IBM's reply urged prompt consideration of its application to become a 55% partner in the proposed restructuring of CML Satellite Corp. with Comsat General the other partner. Several firms, as well as government departments, have registered objections with the FCC.

While noting CML will be operated as a separate entity with separate books of account, separate officers, etc., IBM said "this does not, of course, mean that CML will not avail itself of the experience, knowledge and know-how of its corporate parents (Comsat General and IBM). For its part, IBM would consider itself remiss if it did not make available to the fledgling carrier useful information — including some proprietary information — that would enable CML better to serve users of information-handling systems.

"By the same token, IBM anticipates that Comsat General will make available to CML its experience in operating satellite systems."

Tackling the argument that IBM would use its entry into the satellite field to lock in users of IBM equipment, the reply stated ". . . the practices of an IBM-affiliated carrier will be scrutinized by competitors and by law enforcement agencies looking for even an appearance of discrimination or favoritism.

Third-Party Audit at Service Bureau Can Save Money

NEW YORK — The use of a third-party audit can save service bureaus, customers and customers' auditors both time and money, Bob Alexander, auditor for Touche Rose and Co. and Bob Batdorf, consultant, agreed at a recent Adapso workshop on "The Audit Guide."

They explained that a third-party audit is performed by one set of auditors on systems run at a service bureau and the report, in turn, is used by auditors engaged by customers of that service bureau's system. Having one set of auditors troop through a center rather than several would mean a time, effort and, therefore, dollar savings to the center, Alexander said.

ISO Groups Meet, Okay Standards For Mag Tape

WASHINGTON, D.C. — The annual meetings of two International Standards Organization (ISO) technical groups on magnetic tape were held recently at the Washington headquarters of the Computer and Business Equipment Manufacturers Association.

Subcommittee 11 on computer magnetic tape approved for three-month ballot two specific standards — one on the 1/4 in. magnetic tape cartridge commonly referred to as the 3M style and a second proposal on the 0.150 in. magnetic tape cassette with complementary return-to-bias and four state recording.

Additionally, the committee started a project on flexible disks (recorded and unrecorded characteristics) and 1/2 in. recorded magnetic tape containing 6,250 char./in. with group coded recording. Presently the highest density standard for 1/2 in. tape is 1,600 char./in.

Attendees included delegates from Germany, Japan, The Netherlands, Switzerland, the UK, USSR, U.S. and the European Computer Manufacturers Association (Ecma).

Subcommittee 12 on instrumentation tapes completed and sent to ISO for final approval a draft international standard 1858 on general-purpose reels (76mm centerhole) for instrumentation and another draft standard for general-purpose instrumentation reel.

attests that the controls described exist. It does not pass judgment on the adequacy of the system, as that determination can be made only after examination of the controls in effect at the user's site, he noted.

CPAs generally ignore the computer in instances where companies rely only moderately on DP, he said, noting they can audit around the computer. Without looking at the controls they can verify if the system functions accurately.

However, this is changing and auditors are increasingly relying on controls available through

DP, he said.

In performing an audit, it is irrelevant to the CPA on whose computer the work is run. He warned that service bureaus will see more auditors in the future, whether engaged by a group to monitor one system or by individual customers.

Determining the necessity of auditing the computer's functions is a judgmental decision by the auditor. Criticality of the system to the user is one factor usually used in deciding, he said.

This increased demand by auditors could be a problem to service bureaus that don't have good

documentation, he said.

Conversely, centers that do have good documentation and controls on their systems might help compensate for a user's rather sloppy internal controls.

CW at Adapso

Where does responsibility for control lie? Alexander and Batdorf stressed it is important for a center and customer to define each party's responsibility.

Although Alexander acknowledged there may not be widespread instances of demand for a third-party audit, its use is growing. It is especially suited for regulated industries.

Touche Ross, he said, knows of 35 savings and loan institutions that realize a considerable savings by sharing the audit of one system which they all use without modification.

A guide to third-party audits, prepared by the American Institute of Certified Public Accountants is available through Adapso at 210 Summit Ave., Montvale, N.J.

Announcing DECsystem 1080. Every major timesharing breakthrough now in a single system.

An all new DECsystem-10, the DECsystem 1080, just set an all new industry standard in timesharing. It's the first system that includes every major timesharing breakthrough of the past decade. Yet, remarkably, it costs about half what you'd expect to pay.

How did Digital do it? By combining capabilities no one else could combine. Our minicomputer experience, our manufacturing economies,

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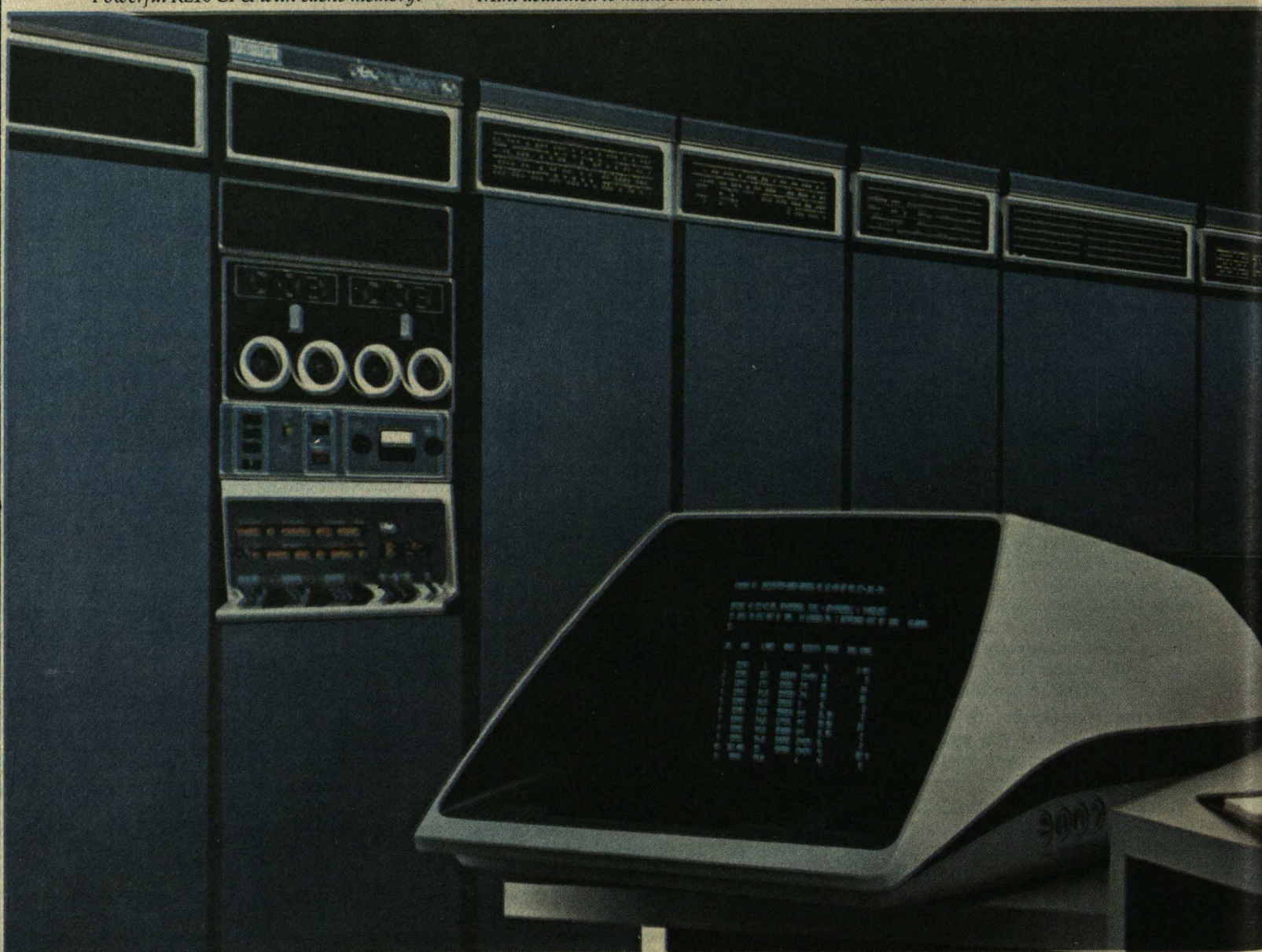
comprehensive machine diagnostics.

- An advanced Business Instruction Set to handle the most demanding batch and business data processing tasks.
- A host of high-performance disk and tape peripherals that facilitate optimum file integrity for most effective data base management, via our new DBMS-10 package.
- A completely enhanced operating system offering

Powerful KL10 CPU with cache memory.

Mini dedicated to maintenance.

Advanced Business Instruction Set.



Contracts

Sperry Univac has received a contract from the Federal Aviation Administration to provide Arts III equipment for the Atlanta International Airport.

Codex Corp. has received a three-year contract to supply the Australian Post Office with 4,800 bit/sec modems. The post office will then provide the modems as part of a total data communications service to all users in Australia.

Cipher Data Products has received a contract from North

Electric Co. for Cipher's T-4000 magnetic tape recorders for use in information updating.

Cincinnati Milacron's Process Control Division has awarded a contract to Decision Data Computer Corp. to supply card peripheral equipment for inclusion in a minicomputer-controlled system.

Collins Radio Company of Canada Ltd. has received a contract from Air Canada to provide a mini-based system to control its communications network.

Saab-Scania Forms Subsidiary in U.S.

By Toni Wiseman
Of the CW Staff

NEW YORK — Saab-Scania, Swedish manufacturer of mini-computer-based automated teller systems, has formed a subsidiary to introduce its line of banking systems in the U.S.

Datasab Systems will market computerized systems similar to those supplied by Saab-Scania for the Nordic project, which was designed to link over 2,000 bank branches in the four Scandinavian countries, said John Magliana, president of Datasab. In addition to the automated banking equipment and its re-

lated library of software, Datasab will market lines of office computer systems, numerical control systems and process control equipment in the U.S. A line of proprietary biomedical instrumentation will also be marketed here.

During 1975, Magliana said, Datasab will begin marketing a number of other electronic systems complementing its financial teller systems. In the banking field, the company will market data entry, arbitrage and inquiry systems for floor officers.

The company has looked at

point-of-sale as a possible area to enter, Magliana said, "but our approach to POS is a very simple one. We don't want to compete with Singer or IBM."

Already Functioning

"In the U.S., Datasab systems are already functioning in the Central Savings Bank in New York," he noted. "Bankers Trust will be installing a teller system in its showcase New York City branches in November and several other banks are developing plans to install the system in their branches."

Datasab's marketing approach centers around the concept of "face-to-face banking."

"Our aim is to make the customer feel more at ease and have the bank able to do more marketing of its services and not have to concentrate solely on numbers and data," Magliana said. "Personalized banking service is the key."

The heart of the banking system is a series of Datasab minicomputers. A branch office may utilize one or more minis for on-line and off-line transaction processing at teller, platform officer and clerical work stations, he said.

The minis also function as concentrators for on-line communications to a central computer over telephone lines.

With the system, branch offices can have direct access, through the central mainframe, to all central information files, making possible immediate inquiries and transfer of data.

The system, Magliana said, can interface with any mainframe, and is compatible with IBM's Synchronous Data Link Communications (SDLC) systems and VS2.2.

ultimate system efficiency through a unique virtual memory system that exacts high performance without degradation.

- Advanced data communications facilities, including our new Message Control System for improved transaction processing, offering comprehensive distributive networking in full duplex, bisynchronous or other compatible environments.

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compatibly, very easily, very inexpensively.

Call your local Digital representative today. Or write for a very timely brochure. Digital Equipment Corporation, Marlboro, MA 01752. (617) 481-9511. European headquarters: 81 route de l'Aire, 1211 Geneva 26. Tel: 42 79 50. Digital Equipment of Canada, Ltd., PO Box 11500, Ottawa, Ontario K2H 8K8. (613) 592-5111.

digital

Enhanced operating system with virtual memory.

Extensive networking and transaction processing.

Large scale disk and tape for data base.

Orders & Installations

Tymshare Orders 40 Varian Systems

PALO ALTO, Calif. — Varian Data Machines has received an order for 40 V73 computers from Tymshare, Inc.

The computers will join the 171 Varian 620 Series computers, 140 of which are used in Tymshare's international Tymnet network.

Other Orders, Installations

Piggly-Wiggly Southern, Inc., a chain of 53 supermarkets in Georgia, has ordered five NCR 255 systems to convert its stores to electronic point-of-service terminals. The systems include 40 NCR 255 terminals and five NCR 726 in-store computers.

Management Data Corp. has installed an Entrex 480 data entry system.

Gulf Oil Corp. has ordered for lease Trace item processing equipment from Recognition Equipment, Inc. to be installed at its travel card centers in Atlanta and Houston. The equipment will replace the Electronic Retina Computing Reader systems originally installed by REI in 1968.

Central Carolina Farmers, Inc., an agricultural cooperative, has installed 12 NCR 250-7000 checkout terminals in its eight retail stores.

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Greater Buying from Private Sector Seen in Canada

By T.M. Whiteman

Special to Computerworld

TORONTO - There is a new trend in the Canadian government's approach towards DP purchasing which means greater contributions from the private sector and curtailment of in-house activities where they are not cost-effective.

This was the key message of Jean-Pierre Goyer, minister of supply and services, in a recent speech to the Canadian Association of Data Processing Organizations.

The government has long been one of the largest users of DP services, he said, acquiring about \$37 million worth of hardware last year and purchasing almost \$16 million in software and services.

"We have moved towards more software and services and less hardware," said the minister. "The rate of increase in the use of services, including software, by the government is about 20% a year.

"Hardware requirements, on the other hand, are growing at only 10% per year."

Master Plan

The impetus behind the new policy is the government's master plan which seeks to use DP as a resource in the development and operation of systems that support government programs and not as an end in itself.

The minister noted that the Department of Supply & Services is completing an inventory of computer hardware and software in the government and, as the details of this information are assembled and studied, "our computer resources can be better understood and areas of duplication should become apparent, allowing us to identify uneconomic utilization and to recommend areas for efficiency and saving."

Although the master plan has been in effect for only a year, some concrete results have been

achieved, Goyer said.

"Rented computer systems used to be sent back to the vendor when they were no longer required," he said. "The computer inventory has allowed us to move systems from one department to another, resulting in the saving of millions of dollars because we have not lost rental credits."

Many examples of smaller savings are also evident, he said. "The awareness that several departments were planning to acquire the same type of software packages allowed my department to negotiate savings of

about \$250,000," he noted.

Another objective of the master plan calls for the government to meet its needs for DP services from the private sector, except where it is in the public interest or where it is more economical to provide these services internally.

As an indication of the application of this policy, the minister pointed to the increase in government expenditures for outside computer services.

Goyer noted that the government spent about \$9 million in fiscal 1970. This rose to \$12 million in 1973, and in the 1974

fiscal year expenditures are expected to amount to \$15 million. He anticipates government expenditures for computer services in the private sector in 1975

"The increase in work going to the private sector, based on total expenditures in the government for DP, can be appreciated when looking at the change in percentage of private sector versus in-house work," Goyer said. "In 1967, 6% went to the private sector, but last year this percentage had increased to 14% - a definite and positive trend."

The minister pointed out that his own department has also taken direct action to see that more work goes to the computer service industry by closing its own computer service bureau.

International News

to rise to approximately \$18 million.

"As you can see, the amount will have doubled in five years, or show a rate of increase of 20% per year.

silent 700

electronic data terminals



TI announces the affordable intelligent terminal...

Executive Corner

James P. Campbell and Carl D. Carman have been elected vice-presidents of Data General Corp. Campbell has responsibility for domestic and international personnel and Carman will direct and coordinate engineering projects.

Eugene E. Goodmaster has been promoted to vice-president of product development by Applied Data Processing, Inc. and will retain the functions of his former position as package and systems manager.

Jeff T. Pan has been elected vice-president of communications and general manager of systems Architect, Inc.'s Washington, D.C. operations.

Edward T. Cuddy has been promoted to vice-president of manufacturing at Computek, Inc.

Fred Roberts has been appointed vice-president of marketing at Qantex.

Pertec Corp. has elected Eugene R. White to its board of directors.

Arnold Spitalny has been named president of Time Share Corp.

..... T.J. SPORTS- CATALOG SALES

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	48223	48223

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43870-453-3	4101	672	5%	1. CHARGE

CATALOG NO. DESCRIPTION	QTY	COLOP	SIZE	UNIT	TOTAL
6751-8547	OLD SALT FISHING ROD	1	1-NA	5-9	9.99	\$ 9.99
5547-9001	GEL-PRO REEL	1	1-NA	1-NA	11.87	11.87
6794-6533	SKI PRO LIFE VEST	2	3A	3-L	6.98	13.96

DATE: 9/1/74 SHIPMENT 2. PARCEL POST

TOTAL ORDER	\$ 35.82
TOTAL SALES TAX	1.79
SHIPPING	1.08
TOTAL AMOUNT	\$ 38.69

..... T.J. SPORTS- CATALOG SALES

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Varian V-71 Offers 32K Memory

IRVINE, Calif. — Varian Data Machines' V-71, costing \$8,000 each in quantities of 12, offers up to 32K words of memory.

Basic V-71 computers include 16K words of 1,200 nsec core memory, I/O bus with DMA, chassis, power supply and programmer console.

Options

Options on the V-71 include a writable control store, power fail/restart, teletypewriter controller, automatic bootstrap loader for TTYs and a real-time clock.

The firm is at 2722 Michelson Drive, 92664.

CDC Unveils \$2,350 Printer

MINNEAPOLIS — Control Data Corp.'s 9316 matrix printer handles one- to five-part, 4- to 16.75-in. forms. Front-impacting the forms eliminates hammer framing (blocking) and adjacent character ghosting and, for operators, the printer features constant visibility of the last line printed, CDC said.

A full-line buffer memory permits loading up to 132-character codes plus forms advance code and synchronous 173-char./sec printing of asynchronously received data.

Each of the CDC 9316 char-

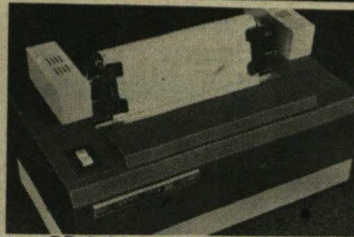
acter sets is contained on a single read-only memory chip, allowing users to change character sets simply by unplugging and replacing the existing chip, the firm said.

The 9316 is priced at \$2,350.

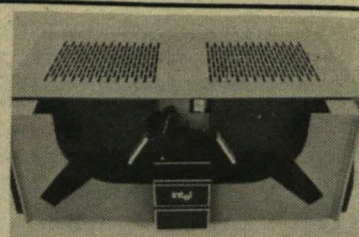
Intel Adds Micro Systems

SANTA CLARA, Calif. — Intel has added four microcomputer component systems for processor and controller applications in prototype, short-production-run and experimental electronics equipment.

The MCS-4A aimed at replacing hard-wired logic subsystems, contains a 4004 CPU and five



CDC 9316 Matrix Printer



Intel IMM 8-90 Paper Tape Reader

memory and peripheral circuits for \$99. The MCS-8A, which handles a larger volume of data, has a 8008-1 CPU and 18 memory and peripheral circuits for \$250.

The MCS-80A, with an 8080 CPU and 18 memory and peripheral circuits, costs \$695. It has 10 times the throughput of the MCS-8A. The MCS-80B also uses

an 8080 CPU, has 17 memory and peripheral circuits and uses static, rather than dynamic, RAMs.

It costs \$495 from Intel at 3065 Bowers Ave., 95051.

Intel Tape Reader Bows

SANTA CLARA, Calif. — The Intel IMM 8-90, a paper tape reader for Intellect 8/MOD 8 and 8/MOD 80 microcomputer development systems, transfers data 20 times faster than a stan-

the new "Silent 700" programmable data terminal. \$4,925

Now, intelligence in a terminal is truly affordable! The new "Silent 700*" Programmable Data Terminal combines powerful microprocessing capabilities with the proven "Silent 700" features... at virtually half the price of comparable intelligent terminals.

Improved data entry efficiency
The powerful and easy-to-use TICOL language allows the user to generate "fill-in-the-blank" data entry forms, automatically check data for correctness, perform standard arithmetic functions, and tailor data formats for the user's system. All this can be accomplished locally... without the aid of a central computer.

Applications versatility
As an intelligent communications terminal, the new "Silent 700" model is ideally suited for such applications as catalog order entry, remote batch processing, inventory data collection and

reporting, and virtually all kinds of branch office data preparation.

Single data entry package

The compact desktop unit contains all the standard features... dual magnetic tape cassettes; quiet, non-impact 30 characters-per-second printing; USASCII keyboard with built-in 10-key numeric cluster; plus a hard-working microprocessor and 10K of memory.

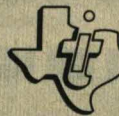


Communications flexibility

Data may be transmitted at rates up to 120 characters-per-second, either simultaneously with new data preparation or unattended at night. To add both flexibility and security to communications systems, you have a choice of switch-selectable ACK/NAK block or continuous transmission communications protocols... and multidrop or dial-up line disciplines. Options include answerback memory, internal modem and a reverse channel feature.

The new "Silent 700" Programmable Data Terminal has a low, quantity-one purchase price of \$4925. Economical monthly lease rates range from \$175 to \$205, including maintenance.

For more information, contact your nearest TI office listed below or Texas Instruments Incorporated, P. O. Box 1444, Houston, Texas, 77001, (713) 494-5115, ext. 2126.



OEM Products

standard ASR-33 teletypewriter tape reader, according to Intel.

Transfer Rate

An asynchronous data transfer rate of 200 char./sec allows an 8K-byte program to be loaded into memory in one and one half minutes with the IMM 8-90. The reader is software- and hardware-compatible with all Intellect 8 systems, the firm said.

Resident monitor software includes a general-purpose tape reader driver that enables all system software to use the IMM 8-90 features. Interface cables and documentation are supplied.

The 8-90 is \$975 from the firm at 3065 Bowers Ave., 95051.

Other OEM Products

Memory Technology, Inc.'s MTI 16/32 comprises an integrated CPU and MOS memory. The processor is a stored program unit with a 16-bit fixed-word length that is program language-compatible with Data General Novas and Digital Computer Controls DCC minis, the firm said.

Up to 32K words can be directly addressed. The 32K memory requires two boards; the basic storage element is a 2K by 1 bit P-channel MOS RAM chip.

A 16K unit costs \$2,500 in OEM quantities from 533 Boston Post Road, Wayland, Mass. 01778.

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The Computer Center serves a campus of nine thousand students, and fourteen hundred staff with administrative and academic computation service based on an IBM 370/158. Substantial services are also provided to more than a dozen other campuses in the State University through a growing telecommunications system.

The positions require an undergraduate degree in an area applicable to computer science, business administration, or academic research and instruction. Three to five years of experience in analysis and programming for areas similar to these academic disciplines are also required. A depth of experience in data base management, telecommunications, or customer contact would be additional desirable specialties.

The Binghamton area offers exceptional opportunities for living and professional growth. The University is located near good schools and a wide variety of recreational opportunities. Several major computer-based manufacturing firms provide continuing professional crossfeed. Commuting rarely takes more than ten minutes.

Compensation includes four weeks vacation and outstanding retirement and medical benefits. Pay will be in the mid-teens but will depend on qualifications and experience. The State University of New York at Binghamton is an Equal Opportunity Employer. Resumes should be directed to the Director of the Computer Center, SUNY, Binghamton, New York 13901.

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- Nova/RDOS/Basic/Assembler

Depending on your geographical preference, please send resume with salary history to one of these locations:

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Director of Personnel

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10 New England Executive Park
Burlington, MA 01803

Chicago Regional Office
10 S. Riverside Plaza
Chicago, IL 60606

N.Y. Regional Office
120 Sylvan Ave.
Englewood Cliffs, NJ 07632

ADL Systems, Inc.
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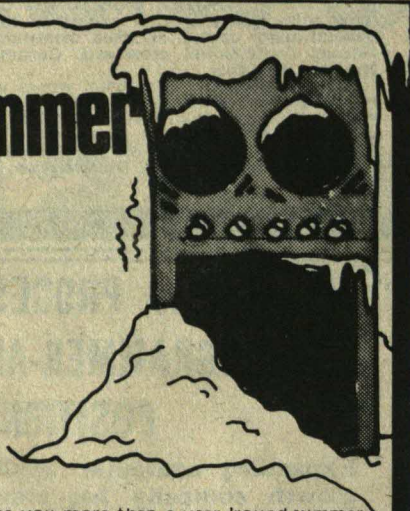
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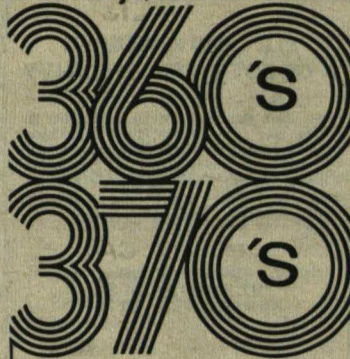
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DEC Calls '74 Recession 'Worse'

By Nancy French
Of the CW Staff

BOSTON — How does the present recession compare to the recession of 1970-71?

"It'll be worse," said Kenneth H. Olsen, president of Digital Equipment Corp. (DEC), at that company's annual stockholders meeting here.

Olsen made the judgment, he said, "based on inflation and a look at both years' gross national product (GNP).

"In 1971," Olsen said, "the GNP was flat, with inflation at 5%. This year, GNP is expected to be negative — as much as 3%, with 10% inflation."

But although it appears the economy will not support the unusually large growth rate of last year, and despite severe changes that are bound to occur, "DEC plans to take advantage of those changes," Olsen said, predicting "significant" growth.

"Since the last recession, the market has matured," he explained. During the last recession only small underfinanced companies were exploring the minicomputer market.

Olsen also said DEC was "very dependent on time-sharing utilities at the time.

DEC now enjoys a broad base of customers in all computer applications, according to Olsen, and the company's pres-

ent time-sharing customers, the ones that survived the last recession are "much more stable."

During the last recession, the company was "way behind in production — we didn't have the products we needed," he said.

Although the growth in order rate for small computers has slowed recently, Olsen attributed it to DEC's immediate delivery policy. "OEM customers have reduced their inventory policy," he explained.

Orders for large computers are continuing to grow, with the Decsystem-10 and the PDP-15 achieving "planned goals for the quarter," Olsen said.

DEC expects to tap a previously unexplored source of profits — the peripherals field, with this summer's announcement of two new terminals, the VT50 DECscope and the LA 36 DECwriter II.

Sales Reach \$111 Million

DEC announced sales and earnings for the first quarter of the fiscal year ending June 28.

Sales reached \$111.8 million in the first quarter ended Sept. 28, compared with \$81.5 million in the year-ago period, an increase of 37%.

Net earnings for the quarter amounted to \$7.5 million or 64 cents a share compared with \$6.5 million or 58 cents a share in the year-ago quarter.

Sanders Moves to Counter Losses

NASHUA, N.H. — Sanders Associates lost \$19.2 million during the year as a direct result of "monopolistic marketing practices" practiced by IBM, Royden C. Sanders Jr., president, told shareholders recently.

Because of IBM's selection of Sanders Data Systems Division for "competitive retaliation," lease terminations of Sanders 620/720 terminal line have increased significantly and new orders fell "below expectations," he claimed.

Both factors contributed to the loss and created a surplus inventory that caused a \$4.8 million write-off to reduce 620/720 inventories to "net realizable value."

To counteract these results, Sanders said the company has instituted a new 48-month noncancellable lease purchase plan, enabling customers to take title to

their terminal equipment for one extra month's payment after the 48 months have elapsed.

The firm has also "initiated a defensive engineering program" so Sanders' terminal designs "will anticipate the effects of future IBM interface manipulations," Sanders said.

The new 8171 and 8172 terminals improve on features of the IBM 3270 and are part of a corporate program to standardize products, he said.

Despite the losses, Sanders said he was optimistic about the future of terminal-oriented distribution processing systems.

Sanders said his company is going to file an antitrust complaint against IBM "within 30 days," but he assured stockholders that the suit would not affect other corporate operations.

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- How to select POS terminals.
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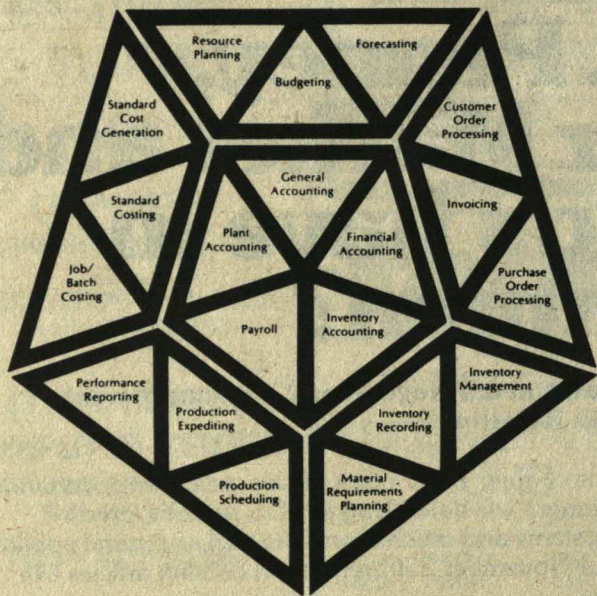
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\$90 Million Write-Off

GTE Discontinues Lines After Heavy Loss

STAMFORD, Conn. — GTE Corp. has decided to discontinue three unprofitable product lines in its Information Systems Division and to take a \$90 million write-off in the third quarter against costs associated with the discontinuation.

The lines being cut are the entire 5000 series of hard-copy terminals, the LC 720 key-to-disk unit that came with the acquisition of Logic Corp. about a year ago and the IS 7000 stand-alone video display.

The Mountain View (Calif.) facility, site of manufacturing for the 5000 series, is being shut down, a spokesman said, but added current commitments to customers will be satisfied.

GTE Information Systems will continue its brokerage information services. The Programming Methods Division and Federal Division will also be continued.

"An announcement near the end of the third quarter of a new equipment offering by a major competitor in the data communication product business, followed by a reevaluation of the profit opportunities in this business compared with alternate investment opportunities in our established businesses, brought about our decision to discontinue GTE Information Systems' participation in the hard-copy terminal and certain other data communications lines," said Leslie H. Warner, GTE chairman.

Although Information Systems' revenues more than doubled between 1970 and the end of 1973 to total over \$75 million, losses diluted the firm's earnings in 1971 and again in 1972, he said.

"A loss of \$19.9 million was reported in 1973. Notwithstand-

ing continued efforts to improve operations of GTE Information Systems, losses of more than \$11 million were incurred in the first six months of this year," Warner added.

The third-quarter charge of \$90 million resulted in a loss for the third quarter and a considerable reduction in earnings for the nine months.

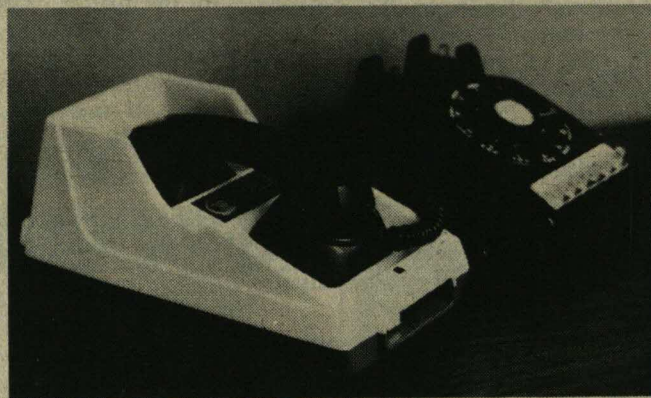
Profit from operations in the quarter was \$81.9 million or 68 cents a share compared with \$87.7 million or 74 cents a share

in the year-ago period.

With the \$90 million charge, the third quarter showed a loss of \$15.6 million compared with earnings of \$81.7 million a year ago.

Revenues totaled \$1.43 billion, up 11% from the \$1.29 billion in the same quarter last year.

Nine-month earnings reflecting the charge totaled \$152.8 million or \$1.27 a share compared with \$240.6 million or \$2.03 a share last year. Revenues were \$4.15 billion.



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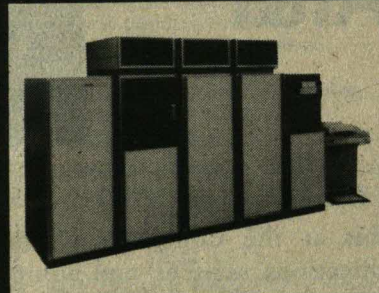
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Earnings Reports

APPLIED DEVICES		ITEL		NCR	
Three Months Ended July 31		Three Months Ended Sept. 30		Three Months Ended Sept. 30	
1974	1973	1974	a1973	1974	1973
Shr Ernd	\$.02	\$.02	\$.37	\$.37	\$.81
Revenue	3,590,000	2,941,000	35,500,000	29,000,000	488,106
Tax Cred	145,000	150,000	.....	(100,000)	19,924
Earnings	317,000	312,000	100,000	1,100,000	438,045
a9 Mo Shr	.06	.03	.....	.....	2.13
Revenue	10,197,000	6,709,000	2,800,000	2,800,000	1,352,615
Tax Cred	395,000	227,000	.96	.71	b51,825
Earnings	838,000	473,000	104,500,000	65,000,000	1,238,853
			.....	(100,000)	37,286
			Tax Cred	400,000	2,100,000
			Earnings	7,300,000	5,300,000

a-Reflects the changes in reclassification of common stock and a one-for-four stock split.
a-Restated.

NUCLEAR DATA		
Three Months Ended Aug. 31		
1974	1973	
Shr Ernd	\$.24	\$.36
Revenue	5,577,659	4,703,369
Spec Cred	98,000	90,000
Earnings	208,795	301,215
6 Mo Shr	.56	.61
Revenue	10,627,023	9,388,384
Spec Cred	186,000	130,000
Earnings	480,328	520,075

a-Fully diluted. b-Includes gain from the sale of timberlands in 1974.

RAPIDATA		
Three Months Ended Sept. 30		
1974	1973	
Shr Ernd	\$.09	\$.09
Revenue	2,933,506	2,413,105
Earnings	157,740	170,789
9 Mo Shr	.18	.36
Revenue	8,384,369	6,965,826
Earnings	329,647	a669,073

a-Includes a \$78,000 credit and a \$28,000 charge related to a proposed acquisition that was terminated.

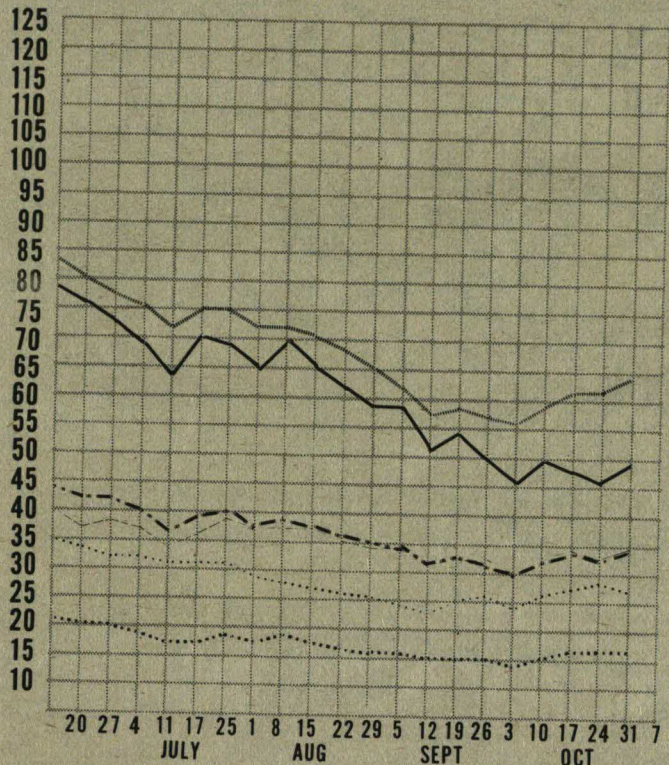
SIGNETICS		
Three Months Ended Aug. 6		
1974	1973	
Shr Ernd	.....	\$.66
Revenue	\$35,197,000	30,560,000
Tax Cred	.....	1,113,000
Earnings	(3,176,000)	2,825,000
9 Mo Shr	.31	1.30
Revenue	101,205,000	68,344,000
Tax Cred	437,000	2,144,000
Earnings	1,709,000	5,519,000

BUNKER RAMO		
Three Months Ended Sept. 27		
1974	1973	
Shr Ernd	\$.17	\$.33
Revenue	79,413,159	77,545,911
Earnings	1,636,229	2,678,032
9 Mo Shr	.70	.94
Revenue	238,716,053	215,986,709
Spec Chg	.....	a640,471
Earnings	5,984,520	7,826,669

a-Cumulative effect on prior years of accounting change.

COMPUTERWORLD Computer Stocks Trading Indexes

Computer Systems Software & EDP Services
 Peripherals & Subsystems Leasing Companies
 Supplies & Accessories CW Composite Index



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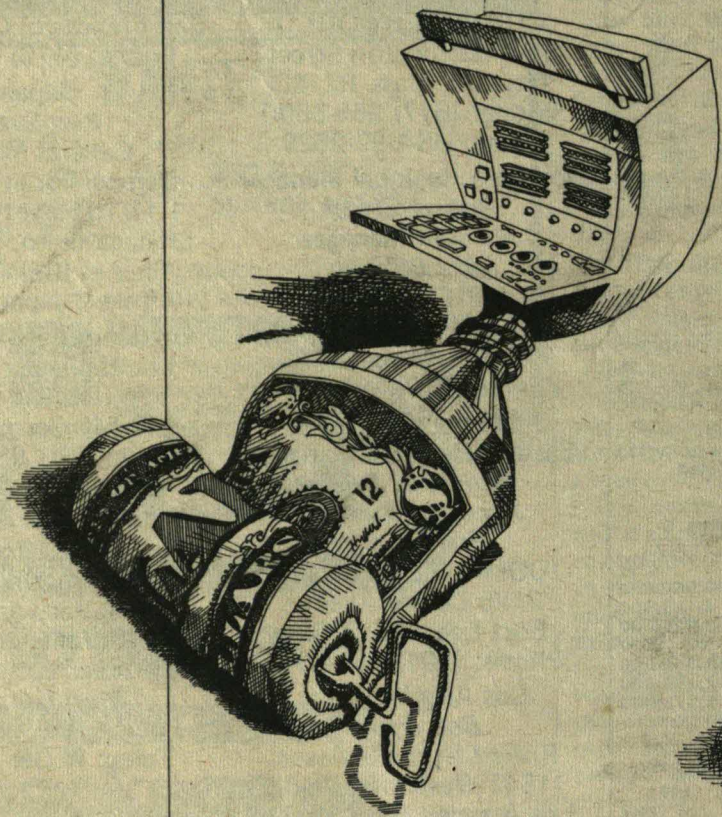
Computerworld Stock Trading Summary

All statistics compiled, computed and formatted by TRADE*QUOTES, INC. Cambridge, Mass. 02139

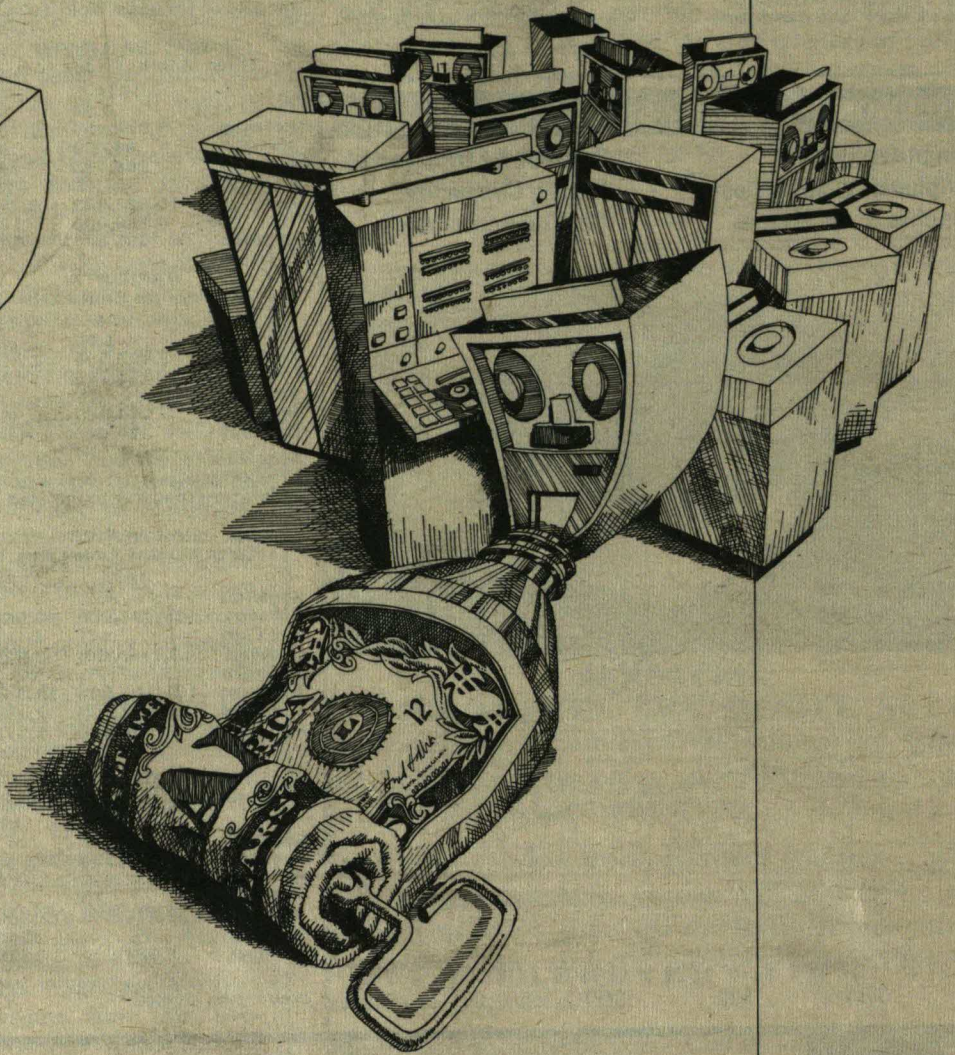
EXCH	1974 RANGE (1)	CLOSE OCT 31 1974	PRICE		WEEK NET CHNGE	WEEK PCT CHNGE
			1974	CHNGE		
COMPUTER SYSTEMS						
N	BURROUGHS CORP	63-217	83 5/8		+6 5/8	+8.6
O	COMPUTER AUTOMATION	4- 14	3 7/8		+ 1/8	+3.3
N	CONTROL DATA CORP	13- 38	14 1/8		+ 3/8	+2.7
N	DATA GENERAL CORP	13- 38	17		+2 7/8	+20.3
O	DATAPoint CORP	7- 15	7 3/4		0	0.0
O	DIGITAL COMP CONTROL	2- 5	2 3/8		+ 1/8	+5.5
N	DIGITAL EQUIPMENT	51-121	57		+5 3/4	+11.2
N	ELECTRONIC ASSOC.	2- 3	1 3/4		0	0.0
A	ELECTRONIC ENGINEER.	5- 11	5 3/4		0	0.0
N	FOXBORO	19- 48	27 1/2		+2 1/4	+8.9
O	GENERAL AUTOMATION	12- 40	14 1/2		+2 1/2	+20.8
O	GPI COMPUTER CORP	1- 2	1 1/8		0	0.0
N	HEWLETT-PACKARD CO	58- 90	65 5/8		-1 5/8	-2.4
N	HONEYWELL INC	22- 86	22 1/4		-3	-11.8
N	IRM	152-251	189 1/8		+7 7/8	+4.3
O	INTERDATA INC	8- 22	15 1/2		+2 1/4	+16.9
O	MICRON DATA CORP	2- 5	2 1/8		+ 1/8	+6.2
N	NCR	17- 40	17 3/8		+ 1/8	+0.7
N	RAYTHEON CO	21- 39	26 1/2		+4 1/8	+18.4
N	SINGEP CO	12- 40	12 1/2		- 1/2	-3.8
N	SPERRY RAND	24- 44	29 7/8		+2 7/8	+10.6
A	SYSTEMS ENG. LABS	1- 3	1 1/4		0	0.0
N	TEXAS INSTRUMENTS	60-115	73 1/4		+8	+12.2
O	ULTIMACC SYSTEMS INC	1- 2	5/8		+ 1/8	+25.0
N	VARIAN ASSOCIATES	6- 13	6 7/8		+ 1/8	+1.8
N	WANG LABS.	7- 20	9 1/2		0	0.0
N	XEROX CORP	61-127	72 7/8		+3 1/4	+4.6
LEASING COMPANIES						
O	BRESNAHAN COMP.	2- 2	2 1/8		0	0.0
O	COMDISCO INC	1- 7	1 1/4		- 1/8	-9.0
A	COMMERCE GROUP CORP	3- 6	2 3/4		- 1/8	-4.3
O	COMPUTER EXCHANGE	1- 1	1/8		0	0.0
A	COMPUTER INVSTRS GRP	1- 4	1/2		- 1/8	-24.9
O	COMP. INSTALLATIONS	1- 1	1/4		0	0.0
M	DATRONIC RENTAL	1- 1	3/4		0	0.0
A	DCL INC	0- 1	3/8		0	0.0
N	DPF INC	2- 5	2 5/8		0	0.0
O	EDP RESOURCES	2- 3	3 1/4		0	0.0
A	GRANITE MGT	1- 3	7/8		- 1/8	-12.5
A	GREYHOUND COMPUTER	2- 6	2 1/2		- 1/4	-9.0
N	LEASCO CORP	3- 6	4 1/2		+ 1/2	+12.5
O	LFASPC CORP	5- 12	8 5/8		+ 3/8	+4.5
O	LLECTRO MGT INC	0- 2	1/2		+ 1/8	+33.3
O	NRG INC	1- 1	1/8		- 1/8	-50.0
A	PIONEER TEX CORP	1- 5	2 1/2		0	0.0
A	ROCKWOOD COMPUTER	2- 10	3		0	0.0
N	U.S. LEASING	1- 1	1/2		-	-11.1
		5- 24	10 1/4		+1 1/8	+12.3

EXCH	1974 RANGE (1)	CLOSE OCT 31 1974	PRICE		WEEK NET CHNGE	WEEK PCT CHNGE
			1974	CHNGE		
SOFTWARE & EDP SERVICES						
O	ADVANCED COMP TECH	1- 2	3/4		0	0.0
A	APPLIED DATA RES.	1- 3	1 1/4		0	0.0
O	APPLIFD LOGIC	1- 1	1/8		0	0.0
N	AUTOMATIC DATA PROC	21- 57	34 1/4		+6 1/4	+22.3
O	BRANDON APPLIED SYST	1- 1	1/4		0	0.0
O	CENTRAL DATA SYSTEMS	4- 6	3		0	0.0
O	COMPUTER DIMENSIONS	1- 3	1 1/2		0	0.0
O	COMPUTER HORIZONS	1- 5	1 1/4		0	0.0
O	COMPUTER NETWORK	1- 2	1		0	0.0
N	COMPUTER SCIENCES	2- 4	2 1/4		- 1/4	-10.0
O	COMPUTER TASK GROUP	1- 1	1/2		0	0.0
O	COMPUTER TECHNOLOGY	1- 1	1/2		0	0.0
O	COMPUTER USAGE	2- 4	2 3/4		0	0.0
O	COMPRESS	1- 1	1/4		- 1/8	-33.3
O	COMSHARE	2- 4	2 3/8		+ 1/4	+11.7
N	CORDURA CORP	1- 4	1 5/8		0	0.0
O	DATATAB	1- 3	1 1/4		0	0.0
A	ELECT COMP PROG	1- 1	1/8		0	0.0
N	ELECTRONIC DATA SYS.	11- 25	13 1/4		+1	+8.1
O	INFONATIONAL INC	1- 2	1/4		0	0.0
O	I.O.A. DATA CORP	1- 1	1/4		0	0.0
O	IPS COMPUTER MARKET.	1- 1	1/2		0	0.0
O	KEANE ASSOCIATES	2- 4	1 3/4		+ 3/8	+27.2
O	KFYDATA CORP	1- 6	1 7/8		0	0.0
O	LOGICON	2- 5	2 1/2		+ 3/8	+17.6
A	MANAGEMENT DATA	1- 2	1 1/8		0	0.0
O	NATIONAL CSS INC	7- 37	7 1/2		+ 1/2	+7.1
O	NATIONAL COMPUTER CO	1- 1	1/4		0	0.0
A	ON LINE SYSTEMS INC	18- 30	19 1/8		- 1/8	-0.6
N	PLANNING RESEARCH	2- 3	2 3/8		0	0.0
O	PROGRAMMING & SYS	1- 1	5/8		0	0.0
O	RAPIDATA INC	1- 5	2		- 1/4	-11.1
O	SCIENTIFIC COMPUTERS	1- 1	5/8		0	0.0
O	SIMPLICITY COMPUTER	1- 1	5/8		+ 1/8	+25.0
O	TCC INC	1- 1	1/8		0	0.0
O	TYMSHARE INC	6- 12	8 3/8		+ 7/8	+11.6
A	UNITED DATA CENTER	2- 4	2 3/4		+ 1/4	+10.0
A	UPS SYSTEMS	2- 4	1 3/4		- 1/8	-6.6
N	WYLY CORP	2- 5	2		0	0.0
PERIPHERALS & SUBSYSTEMS						
N	ADDRESSOGRAPH-MULT	4- 11	4 1/8		0	0.0
O	ADVANCED MEMORY SYS	1- 7	1 7/8		+ 1/2	+36.3
N	AMPEX COR					

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Town Talk

They Still Love Wacker at Frog Luncheons

By NEAL HOSPERS

It's official now . . . The Americana is now the Worthington . . . Happened earlier this week. Congratulations to the five-star-seeking management and staff . . .



Neal Hospers

Congratulations also to the Downtown YMCA leaders on their recently opened addition . . . Returning to the local scene is a well known Fort Worth name, the Medical Arts Building . . . Opening soon at W. Magnolia and Eighth Ave. near All Saints Hospital, it's a six-story edifice. The original Medical Arts was an 18-story beauty downtown (approximately where Interfirst Tower stands today). The most artistic of Jessie Jones' Fort Worth empire of buildings, it was imploded in the early 1970s . . . Will another soon to be re-opened building—The Public House Restaurant—also include an adjoining "revived" Daddios?

* * *

GET WELL WISHES to Bob Jeffries, who reports back to the Air Canada sales office next month. He's been wrestling for many months with a total knee replacement . . . Also to realtor David Reeder, recuperating at Medical Plaza Hospital.

Expectant parents: Anita and Jim Austin in December . . . Carol and Kelley Hairelson in February . . . Condolences to the families of R.D. (Bob) Alexander, co-founder of Alcon Laboratories, and Rabbi Isadore Garsek, leader of Congregation Ahavath Sholom. They'll be missed.

The amazing Jim Wacker is still drawing excellent crowds at the weekly Frog Club luncheons . . . Over 500 last Tuesday. His attitude is infectious . . . he's a winner even in losing . . . And that's what life is all about.

The "Celebrate Sight Art Show" this weekend, including a black-tie reception and buffet Saturday, has a showing for the public from 1 p.m. to 4 p.m. Sunday. It's a benefit for the Texas Society to Prevent Blindness. Call 332-8125 for further information. Wayne Mercer is president, Rebecca Utley is executive director, and one of the most devoted volunteers for the Society continues to be Tom L. Miller, who is also as fervent a Downtown Lions clubber.

* * *



Nancy Kaufmann



Don Henderson



Tom Gensler

"Cooter" by her many loyal employees, she has decided to take-up real housekeeping at home with husband Bill . . . Kay Wunderlich is completing her seventh year at Holiday Inn Midtown. She served as front office manager and in auditing after leaving the auditing department at the Hilton . . . The Texas Hotel/Motel Association represents 700 properties and 116,000 rooms around the state. Tom Gensler of FW Hilton, is local president. Willard Tyler of Holiday Inn Northeast, is next in line. Don Henderson of Hyatt Regency, is immediate past president.

* * *

BACK AFTER a week's vacation at the Greenbrier in White Sulpher Springs, W. Va., are Nancy and Walter Kaufmann, owners of Old Swiss House . . . Back from a month's vacation in Europe are Lillian and Bill Roberts. (We had them back two weeks early—don't know how anyone can take off a whole month) . . . We waited two hours in customs together on a return flight from London. Our two weeks in Great Britain were fantastic . . . Took the time between columns, By Jove. After having tried our hand at writing now for about eight months, we have a very healthy respect for the daily columnists . . . yes, even the weekly ones. Every two weeks (even when we don't travel) is a challenge. We'll compile a few of our observations about the British, Scotch, and Welsh encountered for another column. They are great hosts. We just hope the cabbies in Fort Worth, for example, can become the goodwill ambassadors and tour guides that London produces. Cheers!

* * *

SCENE: John Ribon, new GM at

WHERE ARE THEY DEP'T: Marihelen (Mrs.

Headlines and Headliners

Mundy's New

By PORTIA

Tarrant Appraisal District head Bill Roberts has denied rumors that recent TAD hire Leland Mundy is being groomed to



Bill Roberts

take over his chief appraiser position. But he did admit that the TAD board of directors has been "keeping an eye out" for a suitable candidate for the job. The rumors began circulating after Mundy was hired to do financial work for TAD last month but was not given a job title. Mun-

dy, who was first assistant to retired County Auditor Jack Benson for 14 years, still doesn't have a title, Roberts said, although "director of accounting" and "director of budgeting and purchasing" have been tossed around. Roberts said he has a "gentleman's agreement" with the TAD board to remain at his post for at least two years and has no plans to leave with only 16 months under his belt. "The board told me that if I could find a suitable candidate for an understudy, to bring them in and put them on the staff and I have done work to that end," Roberts said. "However, we now have three new board members and we've decided to wait on that. There's no rush to have the job filled just to have it filled. They're more interested in finding the right person." New board members include former Arlington city manager Ross B. Calhoun, Arlington contractor E. Roy Harry and James K. Norwood, a professional fee appraiser from the Mid-Cities area. Outgoing board members are Gaylon Mayfield of Bedford, attorney Bill Brown and engineer Herman Veselka.

From previous page

said. "Real estate is shot."

Bartlett said TAD assessed homes in his neighborhood at \$4,000 to \$5,000 more than the owners were asking.

Yet the state Property Tax Board said TAD's 1987 valuations averaged only 92 percent of fair market value compared to a statewide average of 93 percent in 1986.

An independent state appraiser routinely acts as a watchdog over TAD operations.

But Roberts says property valuation is an inexact science, and the large number of properties in Tarrant County means "there are going to be some gaps" in appraisal accuracy.

"That's why the appeals process is so important," Roberts said. "Market value is a judgment call at best, and these are times that people are very concerned about a dollar."

State property tax codes allow homeowners to request a reappraisal if they disagree with the TAD assessment, Roberts said. Homeowners can contact TAD directly or go through a more formal appeals process with the Appraisal Review Board.

The more formal appeal requires that property owners file a notice of protest within 30 days after receiving the appraisal notice and bring documented evidence of the property's value to a public hearing before the 23-member board.

Walter Marlow successfully appealed when TAD appraisers inflated the appraisal on his southwest Arlington home by more than \$15,000 in one year.

Within a month of his complaint, Marlow said, his appraisal was cut from \$99,518 to a more realistic \$82,789.

The change cut his tax bill 23 percent, he said, from \$847.78 to \$650.90 per year.

Although the state requires appraisal districts to set property values at 100 percent of their estimated selling price, state law carries little bite for enforcing fair market value, said Debbie Wheeler, research and information director for the agency.

A new provision of the state law allows disgruntled homeowners or taxing entities to ask the state for an audit of the local appraisal district, she said.

TAD appraisers are working feverishly to finish their 1988 rolls by March, Roberts said. New appraisal notices should be in taxpayers' hands by late April.

415,000 properties getting a ta

BY JANICE JOHNSTON
Fort Worth Star-Telegram

Owners of expensive, custom homes may see a decrease in next year's property tax appraisals while appraisals on lower-cost tract homes probably will remain the same, said Tarrant County's top assessor.

The unanswered question is what will happen to homeowners in between as about 415,000 pieces of property are re-evaluated by the Tarrant Appraisal District.

The appraisal update, conducted every two years, will give 55 Tarrant County governments, including cities and school districts, a fresh basis for levying property taxes.

In areas such as Westover Hills, homeowners "may see some decreases

where the homes are \$350,000 and up," said TAD Chief Appraiser Bill Roberts. "In times of economic pressure, tight money, people in those economic brackets don't necessarily move. Those houses drop more than a standard house because they aren't as utilitarian.

"Ill-advised commercial properties," such as strip shopping centers constructed in already overbuilt commercial areas with low occupancy rates and little traffic, also should decrease in value, Roberts said.

Appraisals of tract homes — where big-volume builders erect dozens of similar houses in one area — should remain within the current \$50,000 to \$70,000 bracket, Roberts said. "That's basic housing, and we are having a net increase in population."

Complicating the reappraisal this year is a soft economy that has undermined home values at the same time that state officials are criticizing TAD for setting property assessments too low.

State law requires homes be assessed at full fair market value, the price agreed to by a willing buyer and a willing seller each acting in their own self-interest. Sales prices are the single biggest factor in property assessments.

But "real estate is down the tubes," said John Bartlett, 38, who protested this year's assessment on his southwest Arlington home.

"A blind man could tell, by the number of (for sale) signs he'd be falling over if he was walking down the street," he said. (More on TAD on next page)

TAD chief wants two more years at helm

By DOUG JUMPER

Reports of Chief Appraiser Bill Roberts' pending retirement from the Tarrant Ap-



Bill Roberts

praisal District have been greatly exaggerated.

"I'd like to stay at least another two years, if the board will have

me," said Roberts. "I have more things I'd like to accomplish."

Roberts' main objective is redeveloping TAD's data processing system to one that is more efficient for staff and taxpayers.

"After our present system was installed, the result was a mess," lamented Roberts.

"But we still have to use it to meet our deadlines."

Roberts says the system is horribly inefficient and poorly designed, requiring 40 employees to operate when it should only take five.

The new system should take 18 months to two years to complete.

ROBERTS WOULD also like to see some improvements in his general administration area. Filling an open position for an assistant to Director of Administration Leland Munday is a priority.

Munday had only clerical help in developing the 1989 budget.

"We don't have a personnel director, budget director and purchasing director," said Roberts, "and Leland can't do all of these things by himself."

Munday, former County Au-

(See TAD on 3A)

*Aug 5, 1988
FW News Tribune*

TAD

-From 1A

ditor Jack Benson's long-time assistant, was brought in to clean up sloppy budget and purchasing procedures, according to Roberts.

"We rebated over \$400 million to our taxing entities because our former director did not have a handle on the budget," said Roberts.

* * *

DESPITE APPROVING \$70,000 in the 1989 budget for a chief appraiser-elect, the board is in no hurry for Roberts to retire.

"We would like Bill (Roberts) to stay on as long as he likes, within reason," said a smiling Leon Brachman, TAD board chairman.

Roberts said he will consider retirement on a year-to-year basis after the two years are up.

The search for an appraiser-elect will begin shortly, but Roberts does not see one being hired in the near future because of the stress and politics involved in the job in many districts around Texas.

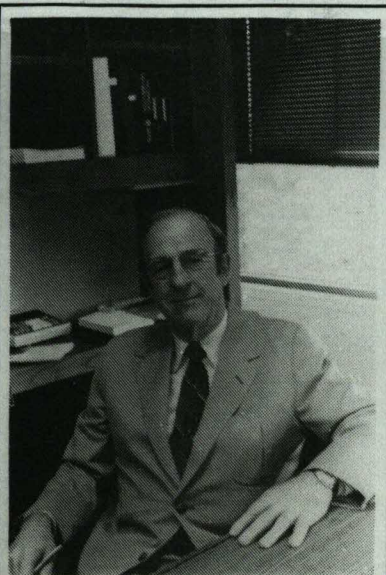
"There are currently 12 to 15 vacancies in Texas for chief appraisers," said Roberts. "In fact, I have two former chief appraisers working for me now who say they never want a chief appraiser job again."

Roberts also sees no need to hurry and find a chief appraiser-elect if he is not retiring for at least two years.

"You can't make a man wait that long to take over," he said.

TAD VALOREM

Directors elect Roberts chief appraiser, call for formal proposals on headquarters site



William E. Roberts, Jr.

Tarrant Appraisal District directors unanimously elected acting chief appraiser William E. Roberts, Jr., to the chief appraiser post at a March 19 board meeting.

Roberts, who had been acting chief appraiser since July 31, 1986, was selected for the \$75,000 per year post after a search, begun in September, 1986, showed him to be the most qualified applicant.

"As a result of an extensive search, the board has settled on Bill Roberts as our next chief appraiser, and he will [take office] officially on April 1," TAD Chairman Leon Brachman announced after a short executive session. "He will continue to do what he has been doing ably for the last six months."

Roberts comes to TAD from Tarrant County where he held the position of director of data services since August, 1972.

Born in San Jose, California, Roberts did his undergraduate work at San Jose State University. He also has done graduate work at Southern Methodist University's Southwestern Graduate School of Banking, and is a graduate of

the Harvard Business School's Resident Executive Training course in Managing Computer Resources.

Roberts moved to Texas in 1957 as vice president and southwest manager for United States Leasing Corporation. From 1966 to 1972 he was associated with Dallas County, serving as director of the computer service department, which developed extensive tax systems for that county.

In August of 1972 Roberts was appointed director of data services for Tarrant County. The tax office of Tarrant County was automated during his tenure there.

In other business, the TAD board asked the administrative staff to advertise for formal proposals concerning a location for the appraisal district.

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