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Registration

Students register at the Home Economics table during registration. More than 21,000 students have registered for classes at Tech for the spring semester, according to the registrar's office. Approximately 5,000 students registered on Friday, the last day of registration, bringing the final

enrollment figure to 21,158. Total enrollment at the end of the third day of finals last spring was 19,465, according to the registrar's office. Late registration will continue through this week in the registrar's office in West Hall. (Photo by Karen Thom)

Extension of Indiana receives final approval

By JAY ROSSER
UD Reporter

The extension of Indiana Avenue through the Tech campus, a sore spot between Tech regents and city officials for nearly eight years, received final approval by the College Coordinating Board Friday.

The board also approved three other construction projects for Tech including a \$1 million addition to the existing Textile Research Facility, a \$4 million addition to the existing Home Economics Building and construction of a new feedlot at an estimated cost of \$490,000.

In 1968, Tech regents approved plans for a six-lane, city - controlled extension of Indiana Avenue from 19th Street to 4th Street, which would be funded by the state highway department. At that time, the city told the regents that congestion on University Avenue demonstrated the need for

another north - south campus street. The city also told the regents that when the medical school - hospital was finished, the need would be greater.

Indicating the extension would impede future campus expansion to the west, the Board of Regents reversed its decision in 1973, just three months before the awarding of a contract for the route.

The city then learned in 1974 that state highway funds were no longer available for the project because inflation in other projects had eaten the money away. The Lubbock County Commissioners also entered the scene that year and were responsible for the Tech regents eventually giving final approval to the project.

The commissioners hold sway over the Lubbock County Hospital District, which was building the medical school - hospital. The hospital needed a \$6.4 million loan and the commissioners

refused to give approval for the loan unless the regents agreed to the extension of Indiana Avenue as a southerly access route for the medical school complex.

In February, 1975, the regents gave final approval to a four - lane street instead of the original six-lane. The final plan also called for the street to be controlled by the university instead of the city.

Contractual matters for the construction project expected to cost \$902,000 could come up at the February 6 meeting of the board.

The money for the project will come from state Constitutional Tax Funds. The four - lane extension will have a median, curbs and gutters. Plans also call for three traffic lights on the road, one near the Tech Law School, the Medical School, and at the extension's intersection with the Tech Freeway.

SA initiates voter registration drive

By GEORGE JOHNSTON
UD Reporter

In an effort to get Tech students registered to vote, the Tech Student Association (SA) has begun a campus and county-wide voter registration campaign, according to SA President Bob Duncan.

During spring registration, Duncan said, students were given cards asking information such as whether they are registered, to vote, if so in what county and whether the student would like to register locally.

Many students may think they are registered to vote but if they have moved since they last registered, state law requires that they register again, Duncan said.

"STUDENTS ARE affected most by this law because they move more than anyone else," Duncan said.

As the cards are turned in he said, they are filed according to on-campus and off-campus addresses.

If the student is willing to work on the registration campaign, his or her card will be filed accordingly, Duncan added.

CARDS will then be filed according to precincts and non-registered students will be contacted by workers who live in the same precinct, he said.

"So far," Duncan said Thursday during registration, "10,000 cards have been turned in and there will probably be 3,000 more by the end of registration Friday, which is a very good response."

Duncan also said 450 to 500 students have indicated they would help with the voter registration campaign.

The purpose of the campaign, he said, is not only to get students registered, but to also get them to vote.

"We have been given the 18-year-old vote but it has been noticed that the turnout for the 18- to 21-year age group has been alarmingly low," he said.

IF MANY STUDENTS vote, it will make the candidates more responsive to students and the university, Duncan said.

The SA manned a voter registration table during last fall's class registration, but many students did not stop at the table, Duncan said.

Johnson named academic affairs vice president

Dr. William Johnson, who for over two and one-half years has been the interim vice president for academic affairs, has been promoted to the position full-time.

Johnson came to the Tech history faculty in 1964. He was associate dean of the College of Arts and Sciences from 1969 to 1973, when he became the interim academic vice president.

He graduated cum laude from the University of Houston with a B. S. in 1958 and an M. A. in 1959. He received his Ph. D. in history from the University of Oklahoma in 1963.



Dr. William Johnson

Semester's tuition, fees show increase

Tuition and fees for the spring, 1976, semester will be up an additional \$5 as a result of a student-approved increase in the University Center fee.

Students voted Oct. 29 and 30, 1975, to allow the increase. The total fee will now be \$10 per long semester. The funds generated will be used to cover operating expenses of the new addition to the UC.

Also, members of the UC Advisory Board voted at their December 5, 1975, meeting to reduce the price of fast-moving foods when the fee money becomes available. The center's management will decide what the reductions should be and the board will hear a report at its next meeting.

Engineering department faces severe problems

By WAYNE ROPER
UD Reporter

Faculty, space, and facility problems forecast in a report by a 15-member petroleum industry advisory committee last spring are currently being experienced by the Tech petroleum engineering department.

The problems raise questions involving the department's accreditation, which comes under inspection next fall, according to Dr. John Bradford, dean of the College of Engineering.

Last fall the enrollment in the department of petroleum engineering program rose 60 per cent from 135 to 215 students. That rise increased the student - faculty ratio from 43 to one to approximately 70 to one according to the department's own figures.

Although agreeing to continue teaching at least part - time, Philip Johnson, petroleum engineering professor, planned to retire last December, adding to the load on the two remaining instructors in the department, according to Dr. Herald Winkler, chairman of petroleum engineering department.

IN THEIR REPORT, the petroleum industry advisory committee, predicted that, using the department's figures, the student - teacher ratio will rise to 60 to one as a result of an anticipated enrollment increase in the fall. The committee cited related problems of space, facilities, and faculty hiring, coupled with a current strong demand and the expectations that "over the next 10 years, the demand for petroleum engineering graduates will continue to increase. "These problems prompted the committee to unanimously recommend the current enrollment increases in petroleum engineering be "encouraged and provided for."

"Limited enrollment or sub-standard education from an already heavily loaded faculty is not the answer," the report stated.

On recommendations of Winkler and Bradford, the office of admissions and records closed enrollment to international students in the department of petroleum engineering Sept. 4, 1975.

"We're very well aware of the many problems confronting the petroleum engineering department. We're working on solutions to these problems," Bradford said in a November interview. "The major problem which must take priority is obtaining staff."

ONE OF THE reasons Bradford cited for the difficulty is the pay scale for qualified engineering faculty, which is considerably lower than that of industry from which the department has to hire.

"The department we have is primarily production drilling oriented," Bradford said. "We don't have extensive research and graduate - level instruction in our program. As a result, we must recruit from industry and not an academic institution ... We have a very, very serious problem in recruiting," Bradford said.

"I know they're having problems getting instructors, but this is something that is nation-wide," said Charles Miller, Amoco Production Company staff engineer and former Tech graduate. Miller also works as scholarship chairman for the Society of Petroleum Engineers, South Plains Section, which has control over six \$500 scholarships to petroleum engineering students in the South Plains area.

The advisory committee report quoted recent statistics which state that of 116 petroleum engineering faculty positions in the United States, 24 are vacant.

"There aren't really enough petroleum engineering schools throughout the country to handle the demand," said Marc Scott, associate dean of admissions and records.

"ALL PETROLEUM engineering departments have increased enrollments," Professor Johnson said. "Our facilities have been overcrowded not just this year, but the past several."

In November, Winkler said he would resign as chairman of the department in hopes of adding "more leverage" to hiring a chairman.

"I want to teach. I don't like administrative work," Winkler said.

Currently, Winkler said he cannot teach and counsel his students with the

present work load of four courses and handle the administrative duties of the chairman.

"I'M WORKING Saturdays, Sundays and evenings," Winkler said. "We just have too much to do."

"I don't see the position anywhere near the panic stage," Bradford said. "It is a crisis. We have a number of resources to our disposal and there is no way we're going to let this program go down the drain ... We're not going to let the students down."

Bradford said he has approached some people in the industry for personnel and financial assistance.

"Industry is not only interested in our product (graduates), but also our problems. We're exploring different ways industry can help us within our and their restrictions," he said. Bradford expressed a tentative plan involving industrial professorships, "where an industrial person would fill a spot from one week to one semester in an effort to bring industry on campus."

WINKLER, HOWEVER, did not feel the plan would suit the department's needs.

"We are actively seeking additional staff in the meantime," Bradford said. "I would rather suffer through a crisis to get the right person than hire someone to just fill a slot. We will not fill the positions with mediocre people."

Bradford said he realizes that to get the "right person" there will have to be some salary payments in excess of what is normal for instructor personnel.

Bradford agreed with the advisory committee's report that it would take a salary from \$1,800 to \$2,300 per month to get the qualified person. Winkler said it may take as much as \$2,800.

DURING THE November interview, Bradford said, "I don't have those funds. I am not allocated any extra funds whatsoever, and have no faculty salary funds allocated as such."

Later, Bradford said he had, "discussed this at considerable length" with Dr. William Johnson, academic vice president, and, "we have agreed that we have a very serious problem and will jointly work it out to solve it."

Vice President Johnson said, "We have a department and we're going to staff it. We'll pay the market price."

While admitting that obtaining faculty is primary problem, Bradford added, "We also have a very serious classroom, laboratory, and office space problem, coupled with the recommendations of the advisory committee."

Lebanese war escalates; Moslem premier resigns

BEIRUT, Lebanon (AP) — Premier Rashid Karami submitted his resignation Sunday after both sides ignored his latest cease fire call and fighting escalated in the Lebanese civil war.

In a nationwide broadcast, Karami said that his efforts for seven months to find a solution to the warfare have "gone with the wind."

"I have to announce that the government has no more effectiveness," Karami said.

The Moslem premier said he sent his resignation to President Suleiman Franjeh, a Christian, "to take whatever step he thinks proper for the country."

This was the ninth time in the premiership for the 53-year-old Karami, bachelor heir of a wealthy political family from Tripoli. He took the helm of the divided country in late May with a pledge to halt Beirut's vicious street fighting.

But after numerous attempts at cease fires by Karami, the fighting escalated into all out civil war pitting Lebanese Christians against Lebanese Moslems and Palestinian guerrillas.

Earlier Sunday, police said 57 persons had died in the first eight hours after Karami's last cease fire deadline. At the same time, a Christian leader said the country was closer to partition than ever before.

Interior Minister and former President Camille Chamoun, protected

THE ADVISORY committee concluded that the present facilities of the petroleum engineering department are "inadequate for the expected future enrollment," stating that classroom, laboratory and office space are needed.

The committee also recommended more lab equipment, saying they were "impressed with the antiquity of some of the lab equipment." The committee's report also found "the small amount of air conditioning" to be "a shame."

Winkler agreed with the report's comment that the department's facilities are substantially below those of most other departments at Tech and other major universities.

"We have the most inadequate department facilities of any petroleum department in the state," Winkler said. "But one must remember that many of those members on the advisory committee are used to seeing shining equipment and facilities connected with an active graduate and research program. We don't have a graduate program, nor do we plan to initiate one."

CONCERNING THE space problem, Bradford said, "I have been given absolutely no help whatsoever in the creation of space. We have no place to move anyone and the administration has refused to allow us any additional space in other parts of the university. We can't even get people from other departments presently housed in the engineering complex moved out."

Bradford said the building programs adopted for the last nine years did not include any facilities for engineering, and he said he has no indication that any facilities will be forthcoming.

"I have repeatedly asked that a connection be built between the Chemical and Petroleum Engineering Buildings," Bradford said. "When you have a president who wants to make Tech a liberal arts university, engineering is down the line a ways."

Bradford also expressed concern over the equipment of the College of Engineering as a whole, as well as that of the petroleum department, explaining that today's engineering is subject to "technological obsolescence," or the outdated of useable equipment by more modern methods and machinery.

"We're not getting anywhere near what we need. Technological obsolescence will continue to put engineering further and further behind each year, if we do not receive additional funds," Bradford said.

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by his Christian "Tigers" militia, was trapped in a seaside mansion in the village of Saadiyet, 15 miles south of Beirut, appealing for army intervention.

Thousands of Palestinian guerrillas and gunmen of the Moslem Druze sect attacked Saadiyet and three other Christian villages in a coastal strip with mortars and machine guns. Moslems surround the strip.

Chamoun was heard shouting on a radio, apparently to headquarters of the internal security forces: "The attackers are all foreigners. They are heavily armed and killing Lebanese citizens. It is the duty of the Lebanese army to defend Lebanese people."

In Beirut, "Tiger" gunmen of Chamoun's National Liberal party and fighters of the right wing Phalange party mounted a three pronged attack on the Karantina slum, a Moslem pocket in a Christian area.

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News analysis

Presidential screening process underway

By BOB HANNAN
UD Editor

The presidential screening committee, charged with reviewing the credentials of candidates for the Tech presidency, is now "actually in the business of dealing with nominations," according to committee chairman Dr. Charles Hardwick.

THE COMMITTEE MET Dec. 17, 1975, with several members of the Board of Regents. Some details of procedure were settled, and March 1 was set as the deadline for receiving applications.

The committee has placed an advertisement in the Chronicle of Higher Education, inviting nominations and applications for the job. The qualifications expected, according to the ad, are those normally associated with the presidency of a major multi-purpose state university.

The committee has gotten secretarial help and also an office, room 809 of the Business Administration building.

TWO KEY PROCEDURAL points settled when the committee met with the regents serve to limit the scope of the committee's responsibility.

The board reserved the right to see all applications and nominations. Also, the board, not the screening committee, will interview candidates.

Regent Judson Williams said he would like to see all the names involved since the regents will be approached by people wanting to find out what happened to their nominee.

Dr. Henry Shine, a Horn Professor in the Chemistry Department, said he did not want all names to go to the board.

"If we have to send them all to the board then what's the point of this committee?" he said. He expressed concern that the regents would then go on to pick someone the committee had reviewed unfavorably.

SEVERAL OF THE regents indicated they did not feel the committee and the board would be far apart in choosing what kind of person should be the next president.

"I can't conceive of us being so far apart that we would reach down into the bottom 10 per cent to pick a candidate the committee felt was obviously not the quality - type person to run this university," said Williams.

Concerning the board's decision to interview applicants, "It certainly puts a different light on the screening process," Hardwick said. "We will only see resumes and letters of reference," he said, and, "in most cases, the most is learned about a person in the interview process."

But the interview process is a "moot point," Hardwick said. The board has settled the matters and "that's what we're going to do," he said.

DR. ROBERT MERRILL, from the School of Medicine, does not think the restriction on interviews will prevent the committee from functioning effectively.

"If we were a more traditional selection committee, it would," Merrill said, but for screening purposes, he finds the setup acceptable.

Students on the committee were not so favorable in reaction to their exclusion from the interviews. Bob Duncan, Student Association president; Judy Martin, the SA's internal vice president; and Ruth Foreman, Residence Halls Association president all agreed they should participate in the interview process. An interview is where a person's philosophy and concerns are expressed, Duncan said.

A possibility exists, however, that committee members may be able to participate in the interviews. "The board may ask for committee members to be part of the interview process," Board Chairman Clint Formby said. "I wouldn't say it could not happen," he added.

The committee has decided upon the criteria and procedures to be used during the screening process, Hardwick said. Those decisions will not be made public until after the February board meeting, Hardwick said, since they are subject to final board approval and face possible revision.

THE COMMITTEE USED the statements from the Faculty Councils of the university and the School of Medicine

in arriving at criteria, Hardwick said.

The recommendations from the university's Faculty Council were that the new president should have a demonstrated capacity as a university administrator, have a keen sense of fiscal responsibility, be sensitive to the faculty, students and local community and be aware of the political realities of Texas.

The recommendations from the School of Medicine's Faculty Council were more detailed and explicit.

In particular, the president should have "a sharply defined philosophy encompassing the needs of the various components of both institutions and the ability to integrate these needs," the Med School Council recommended.

ALSO, HE SHOULD have "recognition of the special problems of the Texas Tech University School of Medicine, a developing medical school, integrated with, but separate from Texas Tech University with unique characteristics...."

Specific Med School characteristics the council stressed included a Medical School faculty with its own organization, a faculty engaged in clinical activities, a faculty devoted to patient care, the regional nature of the school which requires coordination of units throughout West Texas and the need to maintain effective relationships with professional health care groups.

Additionally, the medical council forwarded some unheeded suggestions concerning the setup of the screening committee. It was recommended that the screening committee be broken down into subcommittees from the School of Medicine and the university. Each subcommittee would have a representative from the other.

"The selection committee should develop a list of candidates to be considered by each subcommittee sitting separately. The candidates agreed upon by both subcommittees would be reviewed by the parent committee and presented to the Board of Regents," stated the council.

IN THE COUNCIL'S letter to Formby, it was stated that, "It might be mentioned that the Medical School is small in

size but requires a disproportionate expenditure of executive time and will continue to do so. It is felt that the Medical School faculty representatives will be of particular help in identifying the qualities necessary in an individual who will be faced with these types of problems."

Dr. William D. Blackwood, chairman of the medical council's executive committee, regrets that their suggestions were not implemented. The School of Medicine and the university, although sharing a chief executive officer, are legally separate institutions, he said.

"I think that from the standpoint of separate institutions, (the council's plan) would have been better," Blackwood said.

The failure to implement the council's plan, however, "doesn't necessarily mean we won't get a fair hearing," Blackwood said.

Formby anticipates little disagreement between the faculty recommendations on criteria and the board's on the subject. "I don't believe we're that far apart," he said, adding that he agreed 95 per cent with the faculty criteria.

FROMBY HAS PREVIOUSLY given his personal views of what characteristics the next president should have: a strong administrator, with organizational ability and an awareness of fiscal responsibility; and an ability to relate to people on campus and in the local community.

Concerning one area represented on the board, the School of Medicine, Merrill said he really does not feel he is representing a special interest. "I really view my role as that of a member of the university faculty," he said.

REGARDING STUDENT concerns, Duncan said he is looking for a person who has had contact with students in both administrative and faculty positions. But, he said, the committee has to look for a person who would be best overall for the university.

Editorial

Department deserves attention

THE PETROLEUM engineering department, which produces graduates for a field badly in need of qualified practitioners, is facing severe problems which threaten the quality of its educational program.

The department lacks up-to-date equipment and space. To a certain extent, however, all departments face these problems. Perhaps the most serious problem is the student - faculty ratio — an alarming high 70 to one last semester in petroleum engineering.

To date, there is no reason to believe the administration is giving serious consideration to the problem. A report was forwarded in the spring of 1975 to the office of the vice president of academic affairs, Dr. William Johnson. Now, at the start of the spring, 1976 semester, Johnson says, "We are currently working on the problems of the petroleum department. I have sent some recommendations to the president's office."

So thus far even the paper work, the recommendations, have not been made final. Until the recommendations are completed, the needed overhaul of the department cannot begin. And there is no telling how long it will take to actually implement the recommendations.

In the meantime it is the student who suffers. A student in petroleum engineering would have legitimate grounds for complaint if the ratio was over 30 to one. A teacher cannot possibly hope to give a student a quality education when faced with that staggering load. Speaking of suffering, the petroleum engineering faculty must be doing its share too.

One solution would be to restrict enrollment. Already foreign students have been restricted

from entering the department. This is a discriminatory measure, however. If enrollment must be restricted, it should be restricted on the basis of academic potential.

But any kind of curtailment in enrollment is, at best, a stopgap. It should be coupled with a long - range strategy agreed upon by the department and the administration.

THAT STRATEGY, no matter how well planned, will take time to pay off. The apparent foot dragging in the Administration Building is wasting precious time that might keep the department from crossing the line from the "crisis stage" (where Engineering Dean John Bradford says the department now stands), to the "panic stage."

—Bob Hannan, Editor



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"It's this newspaper's business to raise constructive hell."

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About letters

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- Typed, triple-spaced, on a 65-character line
- Include the name, address and telephone number of the writer(s)
- Be signed by the writer(s)
- Limited to 200 words
- Addressed-To the editor, The University Daily, Texas Tech University, P.O. Box 4080, Lubbock, Texas 79409



Wayne Roper

America's game...the Bicentennial

A FRIEND OF MINE and I were playing a game the other day while watching some of the college bowl games on television. We had just finished watching a modest half time display of a miniature statue of liberty, an inflatable replica of the capital, and the Washington Monument, while 15 high school and two major university bands played "America the Beautiful".

"I can't help but feel uneasy as America sinks up to its armpits in bicentennial celebrations and gimmicks," I said.

"I'm not sure I understand," he answered. "By the way, it's your turn."

"Well," I said, as I rolled the dice, "I can understand wanting to celebrate America's bicentennial."

"MOVE FIVE SPACES," he interrupted. "And I can understand having bicentennial books, bicentennial records, bicentennial emblems, slogans and projects," I continued.

"I also can accept the fact that this is one time Americans may want to spend, glorifying their history with bicentennial programs, commercials, plaques, coins, and recreated bicentennial scenes in realistic bronze for only \$19.95. But it wasn't until I saw the official

bicentennial underwear in red, white and blue with the words "Old Glory" embroidered on the front that I felt, somehow, Americans are missing the true spirit of the bicentennial," I said.

"What do you mean?" my friend asked, moving his playing piece around the board.

"IT JUST SEEMS that essential parts of America's history have been conveniently omitted from all those bicentennial minutes and special programs. There's a whole list of bicentennial scenes we'll never see."

"Would you roll the dice?" my friend said impatiently.

"For instance," I elaborated. "We'll never see a bicentennial minute titled "Great moments in American Political Conventions" narrated by Mayor Richard Daley. We'll never see one titled "The ethics of Free Enterprise" narrated by John D. Rockefeller. Or how about one titled "The Diplomacy Behind American Foreign Policy," narrated by members of the CIA. Nor will we ever see one titled "What the first Amendment Means to Me," narrated by members of the FBI," I said, moving my playing piece the required three spaces.

"WHAT ARE YOU driving at, anyway?" my friend asked, rolling the dice.

"All I'm trying to say is that the bicentennial should be more than a sales gimmick to tack onto anything red, white and blue. The bicentennial should also be more than just a euphoric Pollyanna view of the glorious history of America," I said as I drew a card from the game board.

"I wouldn't worry about it," my friend said, trying to get me to focus my attention on the game.

"I MEAN," I CONTINUED, undaunted, "Americans are forgetting that great countries are made not born, and it takes effort to maintain that greatness. After all, it's where we're going, not where we've been, that's important. This being an election year, that might be worth remembering."

"Get off it, will you," he said, shaking the dice in my face, "after all, we're playing the official bicentennial game."

"What?" I asked, picking one of the dice from a nostril.

"Sure, What's more American than 'Monopoly'."

DOONESBURY

by Garry Trudeau



★ Petroleum engineering problems raise accreditation questions

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Speaking about the petroleum engineering department's needs, Professor Johnson said, "We need more space, equipment, and faculty because this

department is located in the major oil producing area of the nation. The industry generously supports the department with scholarships."

The petroleum engineering department has the highest

number of scholarships (48) of any department at Tech, Winkler said.

"The petroleum industry is vitally concerned about the future of the department," Professor Johnson said.

"The greatest industry

needs are for well - rounded, flexible operations - oriented, B.S. petroleum engineers such as Texas Tech now graduates," the advisory committee report states. The committee report recommended no curriculum changes.

VICE PRESIDENT Johnson said that last year, the average Tech petroleum engineering graduate had up to 10 offers from major as well as independent oil companies.

"That is really a measure of the quality of graduate which we are providing industry," he said.

Charles C. Woodruff, Mobil Oil Corporation engineer and member of the advisory committee, said, "In the past Tech did turn out an excellent engineer. I would be concerned at the present enrollment, however, if Tech could produce the type of graduate we're used to."

"If they can't add to the staff, I really don't see how they can turn out petroleum engineers at all, much less worry about the quality. The advisory committee report we turned out pretty much ex-

pressed the views of the committee unanimously," Woodruff said.

MILLER ACKNOWLEDGED that the department has "a serious problem that must be resolved," and added, "I wanted to get it corrected. I don't think the quality of graduate will suffer right at this point, but for future years, something has to be done."

Because he knows the kind of people that currently staff the petroleum engineering department, Miller said, the scholarships awarded to Tech students will probably not be restricted.

Next fall, the College of Engineering comes under inspection and review by the Engineers Council for Professional Development,

which grants accreditation on the basis of the department's passing minimum requirements, Bradford said.

IT IS POSSIBLE, Bradford said, that the petroleum engineering department's accreditation will come under serious question should the problems not be resolved.

While admitting that it may be a remote prospect, Bradford said, "It's entirely possible that we get put on probation for a period of time." Bradford later said any action by the council concerning petroleum engineering's accreditation would probably take the form of an extension, a period of time allowed the department to meet the council's

minimum standards. In the November interview, Bradford said the president's office had not even acknowledged receipt of the report which was sent last spring.

When asked why it has taken from the spring of 1975 to the end of the year for the administration to begin to act on the reports recommendations, Vice President Johnson replied, "We are currently working on the problems of the petroleum department. I have sent some recommendations to the president's office."

Johnson declined comment on his recommendations. President Grover Murray was unavailable for comment.

Mistrial ruled in rape case

A mistrial was ruled Friday in the aggravated rape trial of Jimmy L. Brown, 34, of 2627 E. Baylor St.

After six hours of jury deliberation 137th Dist. Judge Robert C. Wright ruled a mistrial after the 10-man, two-woman jury could not reach an unanimous vote.

Brown, a graduate student in sociology at Tech was on trial for the alleged rape and beating of a 24 year-old

woman in her duplex, Dec. 11, 1974.

CRIMINAL DIST. Atty. Alton Griffin who prosecuted the case said the case would be set as the No. 1 trial on the Feb. 17 docket.

Griffin said he would prosecute the case again.

In final arguments before the jury, Griffin said Brown "set up" an alibi.

Brown testified he was on the Tech campus at the time

the woman said a black man entered her duplex, beat and raped her in the bathroom.

Griffin said none of the defense witnesses testified they saw Brown the morning of the incident.

DEFENSE ATTORNEY John T. Montford told the jury that a "reasonable doubt" existed that Brown did not beat and rape the woman.

"What if she was wrong?" Montford asked the jury in reference to the identification the woman gave to her attacker.

The rape victim identified Brown, who lived near her home, as the man who had entered her home and raped her.

Campaign manager discusses political philosophy of Reagan

SACRAMENTO, Calif. (AP) — Ronald Reagan's campaign manager says there is "no major difference" in political philosophy between President Ford and the former California governor.

But Reagan has the unique ability to go over the heads of Democrats in control of Congress and use television to get his views to the public, U.S. Sen. Paul Laxalt of Nevada added in a speech before California Republican grassroots leaders.

Howard "Bo" Callaway, Ford's campaign chairman, also appeared Saturday before the same group of GOP volunteers and told them the President's State of the Union message Monday may not sound dynamic, but that it will make a lot of sense.

Callaway and Laxalt both predicted victory in the same

early Republican primaries, and during separate appearances before the California Republican Assembly.

Callaway predicted Ford will win six presidential primaries. But he conceded Reagan has "a lot of momentum" in Florida, which is one of the most crucial of those first six primaries.

Laxalt predicted Reagan victories in four of the same six primaries and said the others would be close.

"As far as philosophy is concerned, I don't see any major difference between the two candidates," Laxalt said.

Speaking several hours before Laxalt, Callaway said he was aware that Ford is not viewed as a decisive leader by many Americans.

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Program to protect dorms against theft begins today

A program to mark dorm residents' valuables to protect against theft will begin today and continue through Thursday.

The program is sponsored by Alpha Phi Omega, Tech men's service fraternity.

Today, representatives will be in Gordon, Bledsoe, Sneed, Carpenter and Wells dorms.

Tuesday, representatives

will be in Coleman, Chitwood, Weymouth, Doak and Weeks dorms.

Wednesday, representatives will be in Wall, Gates, Hulén and Clement dorms.

Thursday, representatives will be in Murdough, Stangel, Horn and Knapp dorms.


The representatives will be in the dorms from 1 p.m. to 5:30 p.m.

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NEWS BRIEFS

Ford to report State of Union

WASHINGTON (AP) — A year ago President Ford told Congress "the state of the Union is not good." He'll report tonight that it is better, but the country still has a long way to go.

"I've got bad news," Ford declared last year, as he outlined problems in such areas as energy, employment and the economy.

In the State of the Union 1976, he'll report the same problems persist, most to a lesser degree, and he'll propose a belt tightening budget of \$394 billion.

On foreign affairs, the President will declare the United States is continuing its efforts in 1976 toward a Middle East peace settlement, toward reaching a second phase nuclear arms agreement with the Soviet Union and improving detente with the Russians.

And he may provide an initial indication of his plans for the long awaited reorganization of the nation's intelligence apparatus.

The President is scheduled to deliver the half hour message before a joint session of Congress at 9:00 p.m. est today.

Soviet-American accord stressed

MOSCOW (AP) — Pravda, in a guardedly optimistic assessment of Secretary of State Henry A. Kissinger's upcoming visit, said Sunday that the Kremlin "is resolved to do all it can" to reach a new Soviet - American accord on limiting offensive strategic weapons.

The leading official newspaper stressed the Soviet viewpoint that curtailment of the arms race between Moscow and Washington is the most essential element of detente.

Although the mention of Kissinger's visit this week was brief and buried inside Pravda's weekly review of international events, it was one of the rare Soviet press reports about the United States in recent weeks that did not contain a critical barb.

"The Soviet people consider the normalization and development of Soviet - American relations as a most important tendency in the policy of peaceful coexistence," said Pravda commentator Vitaly Korionov.

"Everybody sees how beneficial the cardinal improvement of relations, started in 1972, was to the political climate of the world. Solution of such a task as containing the arms race is especially important. If favorable steps are not consistently taken in this direction, all other advances in Soviet American relations may lose meaning.

House Speaker foresees conflict

WASHINGTON (AP) — House Speaker Carl Albert foresees continuing confrontations with President Ford in the congressional session starting today as Democrats seek job expanding programs too costly to fit under Ford's ceiling.

"In dealing with the economy we're going to put jobs on the front burner," the House Democratic chief said in an interview.

He listed three bills for early attention in the House. One already has been vetoed by Ford, and Democrats expect at least one other will be vetoed if passed.

The House has scheduled a vote Jan. 27 on a \$36.1 billion Labor Health, Education and Welfare appropriation bill Ford vetoed as "a classic example of ... unchecked spending." A two thirds vote would be required to override the veto, and Albert said he thinks the chances are good.

A second priority bill is a House Senate compromise version of a \$6.2 billion public works employment bill Democrats say would create or preserve 800,000 jobs. Democratic leaders, conceding they expect a veto, are asking for a large vote.

The third measure is expected to be reported out in February by the House Education and Labor Committee. It would authorize \$1.2 billion for public service jobs, approximately doubling, to 600,000, the number of such jobs financed.



Roller skating

Who says college students are too old to enjoy roller skating? Liz Heany, left, and Sharon Brown took advantage of Friday's warm weather to skate around the campus. (Photo by Larry Jayroe)

Book exchange set today

A book exchange for Tech students will begin today and continue until Wednesday, according to Roy Sparkman, assistant to Mark Cowart, Student Association vice president for external affairs. The exchange will be located in the main entrance to the University Center and will be open from 9 a.m. to 2 p.m., Sparkman said.

Students wishing to sell a book may bring the book to the exchange and state the price they want, Sparkman said.

A RECEIPT will be given the student and one will be placed in the book until it is sold, he said.

The student may pick up his money or his books while the exchange is in operation or after it has ended, Sparkman said.

Most bookstores will buy a used book for one half its original price and then sell for two thirds the original price, he said.

At the exchange, Sparkman said, a student can sell a book originally priced at \$10 for \$7 which allows the seller to get \$2 more and allow the buyer to pay \$1 to \$1.50 less than they would at a bookstore.

Ad Building east wing offices move

The Tech administrative offices have been moved from the east wing to the west wing of the Administration Building so renovation of the building's air conditioning system may continue.

The offices and temporary room numbers are:
FIRST FLOOR
President - 171
EXECUTIVE VICE President - 163
Vice President, Academic

Affairs - 156
Academic Affairs - 154
Vice President, Financial Affairs and Treasurer - 162
ASSOCIATE VICE President, Administrative Services - 162
Vice President, Public Affairs - 169
Vice President, Research and Graduate Studies - 164a
Resident Legal Counsel - 164
VICE PRESIDENT, Student Affairs - 158
Dean of Students - 158
SECOND FLOOR
Board of Regents, reception - 269
Board of Regents, secretary - 272
COMMITTEE Room A - 269
Committee Room B - 271
BASEMENT
Vice President for

Development
Faculty Council
Dads Association
University News

Yearbooks, directories still available

Students who have not picked up their freshman directories or 1975 yearbooks may do so in room 102 of the Journalism Building (Student Publications Office). The office is open from 8 a.m. to noon and from 1 p.m. to 4:30 p.m. Monday through Friday.

Tanzanian president condemns Ford letter

NEW DELHI, India (AP) — President Julius Nyerere of Tanzania said Sunday a letter President Ford sent to African leaders about the situation in Angola was "arrogant and uncalled for."

meeting in Addis Ababa, Ethiopia.

Nyerere told a news conference Ford had written to all the African heads of state saying the United States would press for withdrawal of all South African troops from Angola on the condition that troops from Cuba and the Soviet Union were also withdrawn.

THERE WAS "serious disagreement" at the meeting over whether the OAU could demand the withdrawal of South African troops from Angola without demanding the withdrawal of troops from Cuba and the Soviet Union, Nyerere said.

This disagreement, heightened by Ford's letter, led to the failure of the conference, he said. Nigeria also had responded angrily to the Ford letter, calling it "overbearing" and "an insult to the intelligence of African nations."

The Tanzanian president said Ford's proposal had helped deadlock the recent Organization of African Unity

Kappa Alpha, men's social fraternity, will man the book exchange, Sparkman said.

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255011	49 ⁹⁵
Sq. Root & Mem.	
1500	39 ⁹⁵
Rechargeable	
1250	18 ⁹⁵
with Mem.	
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Cowboys fall one miracle short, 21-17

By HAL BOCK
AP Sports Writer

MIAMI (AP) — Roy Gerela kicked two fourth quarter field goals, then Terry Bradshaw hit Lynn Swann on a magnificent 64 yard touchdown pass play to bring the Pittsburgh Steelers from behind for a 21-17 Super Bowl victory Sunday over the Dallas Cowboys.

The triumph gave the Steelers their second straight National Football League championship and dashed the hopes of the valiant but outgunned Cowboys, who led 10-7 going into the final period.

Gerela, who had missed two earlier field goal attempts, connected from 36 and 18 yards in just over two minutes. The Steeler rally was ignited when Reggie Harrison blocked a Dallas punt out of the end zone for a Pittsburgh safety.

THE SAFETY and two field goals gave Pittsburgh a 15-10 lead, then Bradshaw hit Swann inside the 10 yard line and he romped in for what turned out to be the winning score.

Moments later, Roger Staubach passed 34 yards to Percy Howard for the final Dallas touchdown, but it only brought the Cowboys within four points of the defending champions, who had been favored by 6-6½ points.

For three quarters, the Steelers were unable to solve the underdog Cowboys. But suddenly it all came together for Pittsburgh when Harrison bore down on punter Mitch Hoopes and blocked his kick from the Dallas goal line.

The ball sailed into the crowd behind the end zone and the Cowboys' lead was down to one point, 10-9.

AFTER THE safety, Hoopes punted the free kick from his 20. Mike Collier caught the ball at Pittsburgh's 30 and slashed 25 yards to the Dallas 45.

Then the Steelers went to work. Bradshaw sent Franco Harris and Rocky Bleier ripping through the Cowboys' flex defense for gains of 5, 4 and 7 yards. Next Bradshaw scrambled for eight, but the

drive stalled at the Dallas 20 and the Steelers faced a fourth and one.

Both of Gerela's earlier misses were from the same range, 36 and 33 yards, but Pittsburgh Coach Chuck Noll gave him another chance. This time the placekicker's three pointer was true from the 36, and the Steelers were ahead by an oddball 12-10 score.

It was the first time all day that Dallas had trailed, and in a moment the gap was increased.

STAUBACH, PASSING on first down from his own 15, misfired and Steeler Mike Wagner picked off the ball at the Dallas 26. Wagner returned it 19 yards to the seven, and although the Cowboys wouldn't surrender the TD, Gerela booted another field goal from the 18 and the Steeler lead was five points.

That was still within touchdown distance for Dallas, but Bradshaw ended those chances when he hit Swann with a sensational pass that traveled some 60 yards in the air for the clinching touchdown. Bradshaw was decked on the TD pass and had to leave the game with a mild concussion, just as he did in the Steelers' playoff victory against Oakland two weeks ago.

But the blond bomber had done enough damage by then. He finished with nine completions in 19 attempts for 209 yards and two touchdowns. Four of those completions were to Swann, whose 161 yards in receptions set a Super Bowl record.

Gerela hit the goalpost on the extra point try, and it was 21-10.

STAUBACH GAMELY brought the Cowboys back, passing 30 yards to Drew Pearson and finally hitting Howard from 34 yards out with 1:48 to go to cut the Steelers' victory margin to 21-17.

Pittsburgh recovered Dallas' onside kick and tried to run out the clock. On fourth and nine at the Dallas 40, the Steelers refused to kick it away and tried to retain

possession. But Dallas held and the ball went over on downs, giving the Cowboys one last chance at a winning touchdown with 82 seconds to play.

With no timeouts left, Staubach got the Cowboys as far as the Pittsburgh 37. With 12 seconds remaining he tried two long bombs, attempting to pull off the kind of miracle finish that Dallas produced in the first playoff game against Minnesota.

But this time, the Cowboys came up empty. The first pass fell incomplete, and the second one was intercepted by Glen Edwards in the end zone as time ran out.

IT WAS A GAME try for a second miracle by Staubach, who was hounded all afternoon by the Steelers' defense. Unperturbed by offensive wrinkles like the shotgun passing formation, Pittsburgh's Steel Curtain defensive line stormed through to sack Staubach seven times for losses of 42 yards. Still, Roger managed to gain 162 yards passing and fired two touchdown passes.

The first one was a 29 yarder to Drew Pearson that thrust Dallas into a quick first period lead following a costly fumble by Pittsburgh punter Bobby Walden.

After Pittsburgh failed to advance the ball on its first possession of the game, Walden was set to punt with the ball on the Steeler 40. The snap was perfect, but Walden dropped it and the Cowboys swarmed in on him.

The ball went over to the Cowboys on the Pittsburgh 29 and Staubach wasted no time. He faked a run, suckering middle linebacker Jack Lambert, and then hit Drew Pearson all alone at the 15 — just where Lambert should have been. Pearson grabbed the ball, swung to his left and dashed into the end zone for the score.

PITTSBURGH CAME right back. First Harris and Bleier softened the Cowboys up with four consecutive runs, then Bradshaw hit Swann with a 32 yard pass, giving Pittsburgh a first down on the 16. Three

plays later, tight end Randy Grossman caught a seven yard pass from Bradshaw for the tying touchdown.

On the scoring play, Grossman was open because Dave Edwards slipped on the Orange Bowl's tattered Polyturf carpet, which will be replaced with real grass later this year.

Staubach launched a come back drive for the Cowboys that was climaxed by Toni Fritsch's 36 yard field goal for a 10-7 Dallas lead on the third play of the second quarter.

Pittsburgh came right back at the Cowboys and drove to the Dallas 36. But there the Dallas flex-a defense in which the linemen set themselves in staggered positions — stiffened and on fourth and two, Bradshaw's pass for Harris was incomplete.

THE STEELERS had one more chance to score before the half, but Gerela's 36 yard field goal attempt with 26 seconds remaining in the half went wide to the left.

In the third quarter, J. T. Thomas picked off Staubach's first pass at the Pittsburgh 40 and returned it 35 yards to the Dallas 25. But again, the Cowboys weren't giving ground and Gerela had to try another field goal — this one a 33 yard attempt. Again, it was wide.

The frustration obviously was building for the Steelers, who were still three points behind as the fourth quarter began. Bradshaw came out throwing and hit Harris with a 26 yarder that moved the Steelers near midfield. But Randy White chased Bradshaw 14 yards for a sack, and Pittsburgh was pushed back to its own 31.

Now Walden, the goat of the first Dallas TD, punted again and this time he made up for his early mistake with a booming 59 yarder that backed the Cowboys to their own 19.

THE STEELER defense sacked Staubach twice on the next three plays, and that set up another punting situation, with the ball on the 15. Hoopes, one of 11 rookies on the Dallas squad, stood at his goal line,

set to punt.

He took the snap and moved forward as Harrison, a second year running back who gets most of his work on the special squads, sped in up the middle. Hoopes hit the ball just as Harrison arrived, and the punt was blocked. The ball bounced crazily through the end zone for the safety as the Steelers jumped for joy.

With 11½ minutes left to play, Pittsburgh's bench seemed to sense that the game's momentum was about to swing. And when it did, the Steelers were there to make the most of the opportunity.

Although the Steeler defense did a workmanlike job on Staubach, it's acknowledged leader, Mean Joe Greene, was not a factor. Still nursing a pinched nerve, Greene alternated with Steve Furness and was credited with only two assisted tackles.

PITTSBURGH'S defensive leaders were Lambert with seven tackles and seven assists, and Andy Russell, Jack Ham, Furness and L. C. Greenwood, who each were credited with five tackles. Greenwood and Dwight White had three sacks each and Furness got the other.

Swann was named the game's most valuable player and was awarded a game ball by his teammates. A second game ball went to Steeler owner Art Rooney.

Harris, who set a Super Bowl record with 158 yards rushing last year against Minnesota, gained 82 yards on 27 attempts against the Cowboys. His runningmate, Bleier, picked up 51 yards on 15 attempts.

Robert Newhouse led Dallas' ground game with 56 yards in 16 carries. STAUBACH AND Bradshaw were very competitive on passing yards, Roger getting 204 with 15 completions in 24 attempts and Terry netting 209 on 9 of 19.

The victory was worth \$15,000 per man for each Steeler, while the Cowboys received \$7,500 each. Pittsburgh is now the third team

to win successive Super Bowls, joining Green Bay and Miami.

Commissioner Pete Rozelle awarded the sterling silver Vince Lombardi Trophy to Rooney, who waited 42 years for his first NFL championship team and only 12 months for his next.

DALLAS 7 3 0 7-17
PITTSBURGH 0 0 0 14-21

Dal-D. Pearson 29 pass from Staubach
Fritsch kick
Pitt-Grossman 7 pass from Bradshaw
Gerela kick
Dal-FG Fritsch 36
Pitt-safety Harrison, punt blocked through end zone
Pitt-FG Gerela 36
Pitt-FG Gerela 18
Pitt-Swann 64 pass from Bradshaw
kick failed
Dal-P. Howard 34 pass from Staubach
Fritsch kick
A-80,187

COWBOYS First downs 14 13
Rushes yards 31-108 46-149
Passing yards 162 190
Return yards 101 216
Passes 15-24-3 9-19-0
Punts 7-35 4-40
Fumbles lost 4-0 4-0
Penalties yards 2-20 0-0

INDIVIDUAL LEADERS

5-14. Pittsburgh, Harris 27-82, Bleier 15-51, Bradshaw 4-16.

RECEIVING—Dallas, P. Pearson 5-53, Young 3-32, D. Pearson 2-59, Newhouse 2-12, P. Howard 1-34. Pittsburgh, Swann 4-161, Stallworth 2-8, Harris 1-26, Grossman 1-7, L. Brown 1-7.

RUSHING—Dallas, Newhouse 16-56, Staubach 5-22, Dennison 5-16, P. Pearson

PASSING—Dallas, Staubach 15-24-3, 204; Pittsburgh, Bradshaw 9-19-0, 209.

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By JEFF KLOTZMAN
UD Sports Editor

Sonny Parker and Barry Davis personally handed the Texas Aggies first place in the Southwest Conference basketball race Saturday,

much to the dismay of Tech's Red Raiders, who had hopes of hanging on to that lofty spot for a while longer.

Sonny P. calmly sank two charity tosses with seven ticks left on the clock Saturday

afternoon to give the Aggies a 64-62 win over the Raiders and sole possession of first place, a half game ahead of Tech.

The Raiders had numerous chances to put the game away, leading by as much as five points with seven minutes left. But Davis and Parker attacked the Raider middle to tie the game up at 62, then were given two free gifts courtesy of the home squad.

Tech turned the ball over twice down court and the Aggies decided to go into their famous stall which has hounded Tech in the past. A&M spread out the offense, passing the ball outside until Parker made a break for the basket with 10 seconds left.

Grady Newton tried to cut off the streaking Sonny P. but was unable to get a stationary position. The result: Parker went to the basket, crashing into Newton. Both fell and Newton was whistled down for illegal blocking. A&M called time to let the dust settle, then the Raiders reciprocated to let Sonny P. think about it awhile longer. Parker did his thing, ripping the nets twice and

Tech had seven seconds to either tie the game or lose its first conference game. Tech lost.

KEITH KITCHENS brought the ball down court and tried a shot from the top of the circle with two seconds left. The ball swished the net, but didn't go through the hoop. A&M took possession and killed the final second for its fourth conference win.

The only difference in the game, other than two points, was Tech's inability to score in the second half. The Raiders only scored 19 points in the second half and shot 33 per cent from the floor while hitting better than 44 per cent in the first half.

Rick Bullock, who stormed for 22 first-half points, also went cold as Davis limited him to nine in the second half. "We just got those cold spells and no movement on offense," said coach Gerald Myers. "I thought our defense was poor in the second half. We let them get some easy shots."

AGGIE MENTOR Shelby Metcalf was impressed with

the play of Bullock, but thought Davis did a good job controlling the inside in the second half.

"I think this was a great win for us," said Metcalf. "We owe this game to Sonny and Barry (Parker and Davis) who just simply refused to be beaten."

Davis, who scored 24 points, said the difference in the game was A&M's ability to get inside in the second half.

"No one in the conference can matchup with us inside," Davis boasted.

Tech has little time to reflect on the Aggie victory as the Raiders travel to Waco to test rugged Baylor Tuesday at 7:30 p.m. in the Heart 'O Texas Coliseum. Tech is 4-1 in conference, defeating Rice twice and Texas and TCU once.

A&M, MEANWHILE, entertains Houston in College Station. "We got a tough schedule ahead," said Metcalf, "but so does everyone else and at least everyone knows we are contenders."

And if they don't know, just ask Gerald Myers.

Raider fems try Dusters

By ANGELA SHEPHERD
UD Sports Writer

After a set of paradoxical games in Arlington and Denton, the Tech women's basketball team will try to better its 1-4 on-the-road record tonight in Snyder when they meet the Western Texas Dusters at 6 p.m.

The final outcome for the two games back east was ironic for the Raider team. They defeated Texas Woman's University 70-66 despite losing three starters in the final minutes to fouls, yet lost to UT-Arlington 82-65 despite no foul-outs and the superb offensive effort by senior Libby Keller, who netted for 29 points for the team.

Tech led all the way in the TWU defeat, with Keller again leading offensively with 17 points followed by Carol Dudensing with 15, and Teri Dixon and D'Ann Gallaway adding 10 points each.

In the UT-Arlington game, Tech trailed the entire game, with the half-time score showing the Raiders behind, 35-24. Jill Owens joined Keller in double figures, scoring 11 points.

In tonight's action, the Raiders will go in as the underdogs, with an 0-1 record against the Dusters. The Snyder team soundly defeated the Tech team in its first home

game, 83-40.

For Tech, Keller should be the key offensively, as the 5-11 post has scored 103 points so far this season, with an average of 14.9 points per game. Carol Dudensing, who holds the second highest scoring average, has made 86 points for a 12.2 average.

Marilyn Payton and Brenda Jurecek head the opponent's offense with Payton already credited with 129 points this season. She averages 14.3 points each game. Jurecek, 6-2 post for the Dusters has 65 points this season and a 9.2 per-game average.

Guarding and outscoring those two should keep the Raider squad busy tonight in its attempt to better the 2-5 season record. To do that job, Tech Coach Susie Lynch said she will go with Keller, Owens, Dudensing, Dixon and Rhonda Askins as starters.



Super Sonny

A&M's Super Sonny, Sonny Parker, battles Tech' forwards Grady Newton (22) and Rudy Liggins (34) for a rebound in first half action Saturday in Tech's 64-62 loss. Sonny Parker and Newton had another confrontation with seven seconds left in the game when Newton was whistled down for illegal blocking and Parker was awarded two free shots. Parker sank both to break a 62-62 tie and the Ags went on to their fourth straight conference win against no losses. Tech dropped to 4-1. (Photo by Larry Jayroe)

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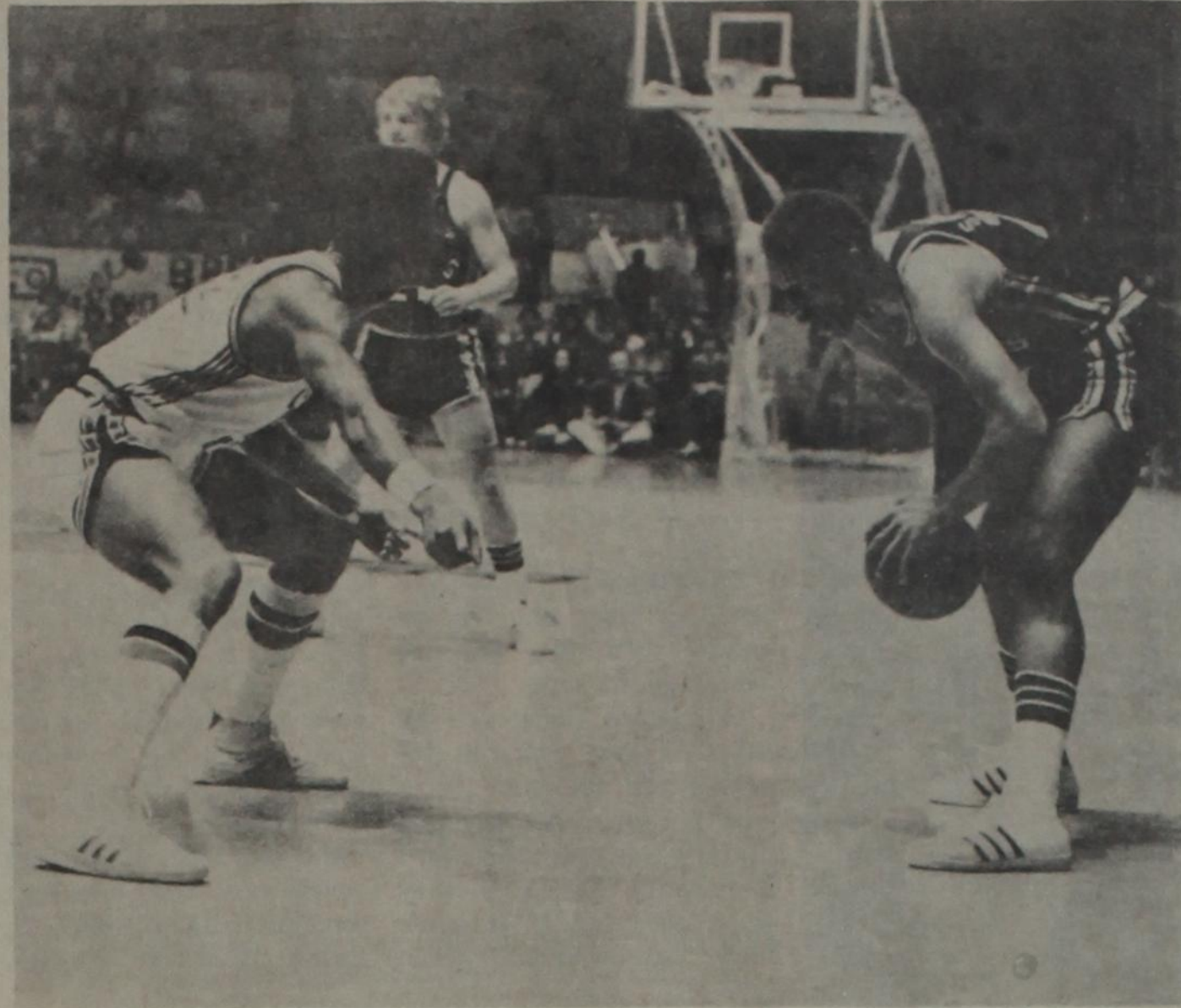
Air Force nips Raiders

The Air Force Academy swimmers won their 38th straight dual meet this past weekend in a contest against the Tech swimmers which was decided on the last race of the day. Air Force won that event, the 400 yard freestyle, to take a 58-55 decision at the Tech pool.

Tech took five first places in the meet, including four individual events and one relay. In the 1000 yard freestyle, Scott Kucel finished first with the time of 10:12.22 and in the 200 yard individual medley, Chad Eckhart won with a 2:04.33.

Eric Muehlberger won the 200 yard backstroke with a 1:58.74 and Bill Mason took the 200 yard breast stroke with the time of 2:18.43. Tech (Muehlberger, Charlie Lozano, Mason and Bruce Williams) won the 400 yard medley relay with a 3:39.81.

Tech's dual meet record for the season now stands at 1-1. This Saturday the Raiders host a tri-meet which will bring TCU and New Mexico State to Lubbock.



Showdown

A&M's Sonny Parker (22) keeps a watchful eye on Tech's Mike Russell (42) before attempting to drive the lane in second half

action Saturday. Russell beat Parker to the lane but the Aggies beat Tech on the board, 64-62. (Photo by Larry Smith)

SPORTS BRIEFS

TENNIS COURT RESERVATIONS

Reservations for the tennis courts adjacent to the Women's Gym will now be accepted for 6 p.m. until midnight Monday through Thursday and for 3 p.m. to midnight Friday. Regular hours of noon through 8 p.m. Saturday and noon through midnight Sunday will still be in effect.

BASKETBALL SCRIMMAGE

Teams interested in scrimmaging the Faculty Staff basketball team should contact Karen Ledford at 742-7255 to schedule a game. Girls teams only.

MENS BOWLING LEAGUE MEETING

On Wednesday, Feb. 4 the spring semester's bowling meeting will be held at 7 p.m. in room 207 of the Men's Gym. Business will include distribution of league schedules, discussing and voting on rules, and an explanation of the finances involved within the sport.

BASKETBALL OFFICIALS MEETING

There will be officials meetings Jan. 19 and 20 at 4:30 p.m. in the Women's Gym. Students interested in officiating must attend one of two meetings. For more information call 742-7255.

BASKETBALL SCRIMMAGE SCHEDULE FOR WOMEN

The Women's Gym is available for scrimmage or practice at the following times: Jan. 19 beginning at 5:45, Jan. 20 beginning at 8:45, Jan. 21 beginning at 7:45, and Jan. 22 beginning at 7:45. For reservations call 742-7255.

BASKETBALL CAPTAINS MEETING

There will be captains' meeting Jan. 21 and 22 at 7 p.m. in the Women's Gym. Captains of participating teams must attend one of the meetings.

SPORTS MANAGERS MEETING MEN

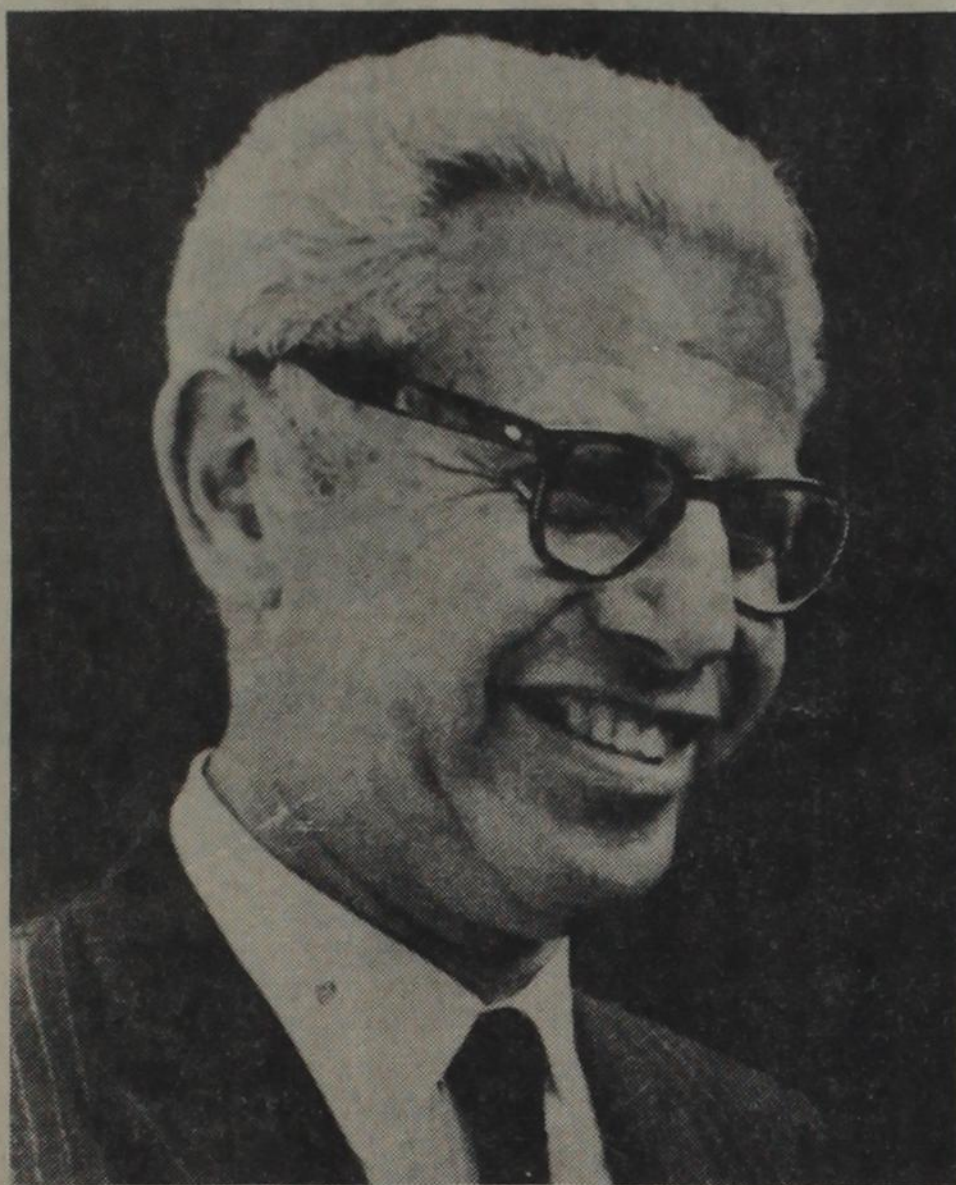
There will be a sports managers meeting Jan. 21 at 5 p.m. in room 207 of the Men's Gym.

SPORTS MANAGERS MEETING WOMEN

There will be a sports managers meeting Jan. 22 at 6 p.m. in the Women's Gym.

ADVISORY COUNCIL MEETING

The Advisory Council will meet Monday, Jan. 26 at 2 p.m. in the Conference Room.



Dean of Students

The Dean of Students office, 209 Administration building, is open nine hours a day. No appointments necessary, but may be made by calling 742-2291.



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Senior citizens plan course loads

Lubbock senior citizens Mr. and Mrs. H. F. Allred of 4211 42nd St., Lubbock, register for spring courses at Tech. Helping them with registration is their son, Don Allred, a 1974 Tech graduate, now a teaching assistant at the University of Houston. "We want to keep our minds active before we get into a rut," Mrs. Allred said. Persons over 65 may audit

courses at Tech on a "space - available" basis at no cost to them. Senior citizens should register no later than Jan. 20 in Building X-15, Division of Continuing Education. Approximately 30 senior citizens audited courses at the university during the fall semester.

Meeting in Canyon

Officials study water, wastes

West Texas local government officials will meet Tuesday and Wednesday in Canyon for a workshop on Water Resources and Solid Waste Management.

"THE TWO-DAY meeting is designed to provide a greater awareness of significant activities in development of water resources within reasonable financial and environmental limits," according to Dr. Robert M. Sweazy, assistant director of Water Resources Center at Tech.

A portion of the workshop will deal with problems faced by local governments in handling solid wastes and possible alternatives in the future.

The workshop is one of a series offered throughout West Texas for local government officials and employees by the Division of Continuing Education and the Center for Public Service at Tech. Workshops in Canyon are conducted in cooperation with the Panhandle Regional Planning Commission and West Texas State University. REGISTRATION begins at

1 p.m. Tuesday in the Activities Center at West Texas State. Sessions begin in the Center at 1:30 p.m.

Afternoon topics include "Current Trends in Solid Waste Management," presented by Dr. Ralph H. Ramsey, assistant professor of civil engineering; "Energy Potential from Municipal Solid Waste," by Dr. James E. Halligan, professor and chairman of chemical engineering; and "Energy and Resource Recovery from Feedlot Wastes," by Dr. William J. Huffman, assistant professor of chemical engineering. All three are Tech faculty members.

Registration for workshop sessions on Water Resources Protection Division, Texas Water Development Board; and "Economic Effects of Declining Groundwater Supplies on the Texas High Plains," by Dr. James E. Osborn, professor and chairman of agricultural economics at Tech, begins at 9 a.m. Wednesday in the Activities Center. Sessions begin at 9:30 a.m.

TOPICS INCLUDE "Surface Waters - Their Role and Potential," by John Williams, general manager, Canadian River Municipal Water Authority; "Groundwater - A Look at the Future," by A. W. Wyatt, assistant director, Groundwater Data and Afternoon workshop sessions will begin at 1:30 p.m. Topics include "The Safe Water Drinking Act," by Clarence Scherer, Water and Wastewater superintendent, City of Amarillo; "Impact of Public Law 92-500 on Agricultural Point Sources," by Dr. Dan M. Wells, Horn Professor of civil engineering and director of the Water Resources Center, Tech; "Water Resources Planning," by Dr. P. L. Odell, professor of mathematical science and environmental science, University of Texas at Dallas; and "Texas Water Law," by Bruce M. Kramer, assistant professor, Tech Law School.

College presidents work hard, enjoy it more, since Vietnam war

AUSTIN (AP) — American college presidents are working just as long but enjoying it more since the end of the Vietnam war, says a young University of Texas professor who studied them on the job.

PRESIDENTS ALSO are spending more time on the campus than they did five years ago, he says.

Dr. James Glenn Jr., 34, says 66 per cent of the presidents included in a survey for his doctoral dissertation at Stanford University indicated they were enjoying their work more than in 1970 — when

campuses were in an uproar over the war.

Glenn has accepted an invitation to report on his study at the annual meeting of the British Sociological Association in Manchester, England, April 6-9.

GLENN SAID his survey showed that 23 per cent of the presidents indicated no change in their feelings about their jobs, and 10 per cent were getting less enjoyment from their work than they were in 1970.

He said it appears that college presidents respond to some unwritten mandate that states: "It is your obligation

to be responsive to as many of the demands people bring to you as it is humanly possible."

ANOTHER CHANGE from 1970, he said, is that the presidential work day has shifted slightly in the direction of becoming "a bit more bureaucratic and a bit less academic and political."

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campus — approximately 65 per cent of the time — he is alone only about one fourth of the time, Glenn said, leaving little time for reflection or for reading and writing, other than letters and memos.

Most of a president's time is spent on administrative matters — 27 per cent — and public relations — 21 per cent.

Glenn noted that his statistics "are not sensitive to the personal properties that would confirm that these presidents are human beings who breathe and laugh, sweat and sometimes get bored with their jobs."

Consumer protests cause Postal Service check

WASHINGTON (AP) — A deluge of protests by consumers is forcing another congressional look at the decision by the Postal Service to end photo copying service in post office lobbies.

The service has received nearly 11,000 letters and cards protesting its decision to stop the service on Jan. 1. By contrast, it has received only 323 letters and cards protesting the Dec. 31 increase in postal rates, which raised the price of mailing a letter from 10 cents to 13 cents.

Congressmen returning from the year-end recess also report a high volume of mail

on the copying issue. A House subcommittee plans to take up the matter after Congress resumes work Monday and a Senate committee is considering looking into the subject.

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Arthur Goldberg to speak Tuesday in UC

By CLIFFORD CAIN
UD Reporter

Arthur J. Goldberg, former associate justice of the U.S. Supreme Court, will speak in the University Center Ballroom Tuesday at 8 p.m. as part of the U.C. Speakers Series.

Goldberg's topic will be "The President and Congress: A Constitutional Con-

frontation." The event is sponsored by the Cultural Events Office.

In addition to his Supreme Court post, Goldberg has also served as the permanent representative of the United States to the United Nations with the rank of an ambassador and as Secretary of Labor.

IN 1929, Goldberg began

practicing law before the Illinois Bar. He qualified to practice before the United States Supreme Court in 1937.

Goldberg served as general counsel of the Congress of Industrial Organizations from 1948 to 1955, and in the same position for the United Steel Workers of America from 1948 to 1961. He was also special counsel for the AFL-

CIO from 1955 to 1961.

Besides his legal experience, Goldberg is an author for American legal publications and journals of opinion. He also wrote several books including "AFL-CIO: Labor United," "The Defenses of Freedom: The Public Papers of Arthur J. Goldberg" and "Equal Justice: The Warren Era of

the Supreme Court."

Tickets for the 8 p.m. speech are on sale at the U.C. ticket booth or may be purchased at the door before the speech.

Tickets are priced at 75 cents for Tech students with an ID; \$1.50 for faculty, staff and area students; and \$2.25 for the public.

There will be an open reception for Justice Goldberg in the Faculty Club after the speech. The reception is sponsored by the U.C. Office of Cultural Events, assisted by the Tech Jewish Student Organization.

Kidnapers collect ransom, release victim unharmed

WASHINGTON (AP) — Kidnapers collected a six-figure ransom Saturday and released the son of a wealthy trucking executive, ending five days in which the victim was blind folded and tied to a bed, the FBI said.

The FBI said efforts leading up to the release of 27-year-old Alan L. Bortnick were aided

by the agreement of local news media to refrain from publicizing the incident until the victim was safely returned.

"The FBI and I personally am grateful to the news media, which were aware of the full story, almost immediately after it happened," said FBI Special Agent Nick

Stames in announcing the release.

Bortnick, abducted Monday night by two masked gunmen, was freed in good condition after his father paid the ransom. Stames, in charge of the local FBI office, said the money was not recovered but "we have a number of suspects."

Music review

Quicksilver produces 'Solid Silver'

By DOUG PULLEN
Fine Arts Staff Writer

No, "Solid Silver" is not another anthology of a Capitol Records group. No, it is not a "greatest hits" lp either. Nor is it a collection of previously unreleased material. "Solid Silver" is the newest studio recording from QUICKSILVER MESSENGER SERVICE.

Quicksilver had been apart for two or three years before this new, excellent recording was even conceived. "Solid Silver" features the original Quicksilver Messenger Service: guitarist Gary Duncan, guitarist John Cipollina, bassist David Freiberg, drummer Greg Elmore and guitarist - singer Dino Valenti; with ex-Quicksilver pianist Nicky Hopkins and vocalist Kathi McDonald.

"Solid Silver" is graced with that stylistic Quicksilver sound that just can't be copied effectively. It is a sound that encompasses the psychedelic drug era of the mid-1960s, the California "trad bands" of that same era and a new modern vitalization of the group's apparent blues-rock-and-roll roots.

Highlighting "Solid Silver" are songs like opener "Gypsy Lights," the lovely country and western ballad "Cowboy on the Run," "Witches' Moon" and "Bittersweet Love."

Side one in particular is well arranged with a wide variety of music that the band can perform. "Gypsy Lights" is a bit surprising but must be tabbed as the best song on the album.

Side two starts out as the dull, non-progressive portion of the album, but it soon picks up with the lp's last two cuts, "Witches' Moon" and "Bittersweet Love."

The musicianship is fair to above - average, depending upon the song. Hopkins and McDonald were wise choices.

The Hopkins piano adds a bit to the music as a whole, while the back-up vocals from the lady lend flavor to the album.

"Solid Silver" is a new and promising attempt by the original Quicksilver Messenger Service to regain all the lost territory of the past.

★★★★

Esther Phillips' recent lp, simply titled "Esther Phillips w-Beck" (jazz guitarist Joe Beck), features mainly a top-40 type of jazz (if there is such a category).

Instrumentation is impressive on this record, with such jazz people as Beck, saxist David Sanborn, Mike and Randy Brecker and percussionist Ralph MacDonald helping out. Sanborn is the most notable attribute to this new Esther Phillips lp.

Phillips hit a recent AM success with her arrangement of "What a Difference a Day Makes." Television appearances and heavy promotion from Kudu records (a subsidiary of Motown) has helped catapult Phillips to a wider acceptance and appreciation.

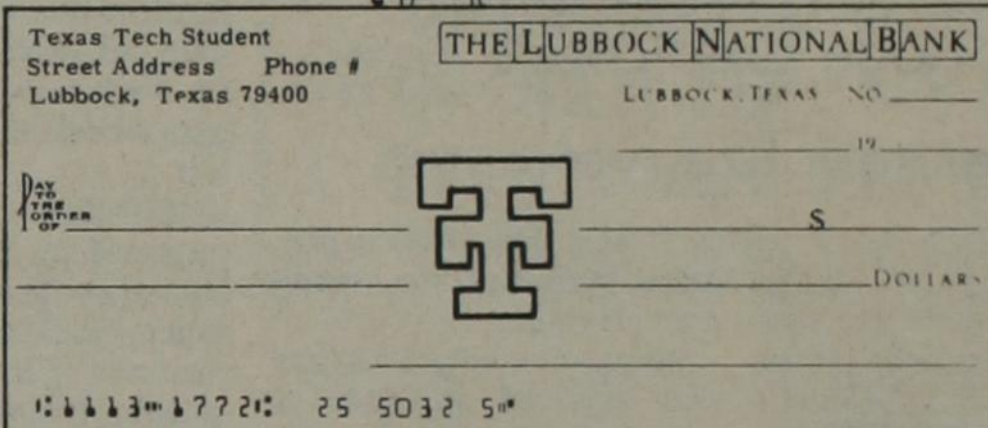
The music on this record is good, but Phillips' voice, for the most part, is gross and distracting. At times her voice is clear, clean and pretty while at other times it is gravelly and guttural.

"Esther Phillips w-Beck" is a fairly good album (especially if you're a novice jazz fan) only because of the arrangements and performances of some of the back-up musicians like Sanborn). But as for Phillips herself (and even guitarist Beck), more work on vocals and guitar is needed.



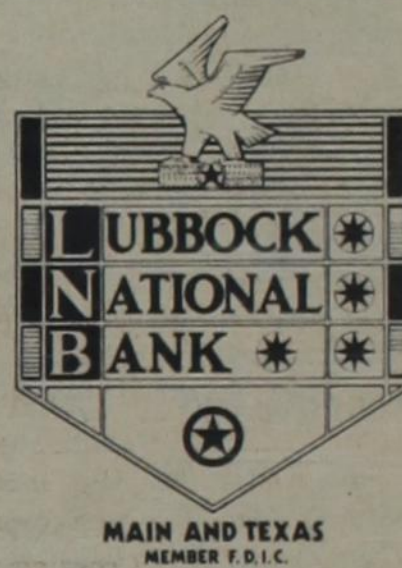
Arthur Goldberg

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Christmas gift grants dinosaur safari in Utah

SALT LAKE CITY (AP) — Because someone was willing to pay \$29,995 as advertised in a Christmas catalogue, there will be a dinosaur safari in Utah this year.

They won't be looking for live animals, but the remains of a meat eating Allosaurus that lived 150 million years ago in the late Jurassic period.

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Federal judges review legality of nudity laws

LUBBOCK (AP) — Steak and tails is a menu item taking on new meaning at night clubs in several Texas cities.

"COCKTAILS AND STEAKS ... let our bottomless bunnies serve and entertain you," advertises one club in Fort Worth. "Totally nude exotic dancers serving cocktails and

steaks," advertises yet another Fort Worth nightspot.

TOTALLY NUDE DANCERS serving patrons in clubs along San Antonio's Austin Highway have become a recent phenomenon in the Alamo City, but one that has not escaped that city's woman mayor. Mayor Lila Cockrell has

demanding review of city ordinances governing nudity.

A panel of three federal judges at Lubbock has ordered that bottomless dancers in this city's Diamond Doll club be allowed to continue their nudity until the panel rules on the constitutionality of laws governing nudity.

IN HOUSTON, newspaper displays also advertise nude dancers and models.

Dallas police say bottomless clubs have cropped up in Big D "but we go after them whenever we can. The problem is the courts. They usually dismiss the charges or give them such a minimal fine that it doesn't mean anything," a vice officer said. "Let's understand something, also. We're not talking about see through G strings and pasties. This is complete nudity."

SHIRLEY ROBBINS, owner of the Diamond Doll, said, "I don't think nudity is unhealthy."

She has filed suit to halt enforcement of statutes under which officers have tried to halt nude dancing by five young women at the club. Federal judges have ordered police to leave the club alone until the jurists rule on constitutionality of state laws governing indecent exposure and disorderly conduct.

"JUST BECAUSE A WOMAN takes off her clothes she doesn't stop being a lady. If that were true, not many of us women would be ladies," said Mrs. Robbins, 37.

Mrs. Robbins said nude waitresses at the Diamond Doll are making a "fortune in tips."

'Big Bird' tale has gotten 'out of hand,' says authority

HARLINGEN (AP) — "Big Bird" is a big pelican and it's unlikely it or any other fowl has attacked anyone, a bird authority said Friday.

With that, said Penny Thompson, curator of education at the Gladys Porter Zoo at Brownsville, the mystery of "Big Bird" is at an end.

Residents in the Rio Grande Valley, and as far north as San Antonio 275 miles away, have reported in recent days seeing a large, bat-faced bird one man said attacked him. Deputies said the man showed them a torn jacket as evidence of the attack.

But Miss Thompson was skeptical. "I saw nice, clean cuts in the jacket. You can say I'm very skeptical of such an attack. We are reasonably certain any big bird seen in this area is nothing more than a pelican. There are a number of large birds in this area. Most definitely, this is not some unusual creature," she said.

Dr. Don Farst, director of the zoo, identified drawings of the "Big Bird" as a pelican.

"This whole thing is silly," said Miss Thompson. "All of it has gotten out of hand."

Animal scientist joins Tech faculty

Dr. Robert Allen Long of Grand Junction, Colo., animal scientist with a distinguished academic, research and management background, will join the Tech faculty as professor of animal science this semester.

IMMEDIATELY PRIOR to joining Ankony Angus Corp. in 1968, Long was chairman of the animal science division at the University of Georgia, serving on its faculty more than 10 years. He was a member of the faculties at the University of Kentucky from 1952-'57 and Oklahoma State University 1948-'52.

He received his Ph.D. degree from Oklahoma State University in 1957, with a major in animal nutrition and a minor in animal breeding. He earned his master's degree from Oklahoma State in 1948. His bachelor's degree came from Ohio State University in 1947.

"LONG IS HIGHLY respected by the beef cattle industry throughout the nation," said Dr. Max Lennon, chairman of the Tech animal science department, in announcing Long's appointment. "He will give us additional leadership in that area."

Long will teach beef cattle production and will direct the animal evaluation program in livestock operations at Tech. He also will have management responsibilities for the university's beef cattle teaching herds.

An additional responsibility, Lennon said, will be to serve

as liaison representative between the animal science department and the many segments of the beef cattle industry in the Southwest.

HIS RESEARCH emphasis has been on beef cattle nutrition and genetic improvement. He is author of numerous publications and has served as consultant to major meat packers in the

U.S., Argentina and Brazil.

For the last seven years, Long has been vice president and chief operating officer of Ankony Angus Corp., with headquarters in Grand Junction. Ankony maintains breeding herds and testing facilities at Grand Junction and Collbran, Colo.; Highmore, S.D.; Bloomfield, La.; and Nursery, Tex.



Dr. R.A. Long

Gas shortage predictions fail to materialize, yet

WASHINGTON (AP) — Last summer's dire predictions for a natural gas shortage don't seem to be coming true, apparently because of a combination of warm winter weather and incorrect supply forecasts.

THERE IS STILL more demand for natural gas than is available. But predictions in August that the shortage would be even worse than last year, when shortages caused widespread industrial layoffs, appear to have been wiped out.

Originally the Federal Power Commission and the Federal Energy Administration anticipated a shortage of 1.3 trillion cubic feet of gas, compared to the previous year's shortage of just over 1 trillion.

But new figures released in December put this winter's shortage some 16 per cent less than last year.

"THE BIGGEST factor that changed was the fact that we did not have a normal win-

ter," said John Hill, deputy administrator of the energy administration.

He added that much less gas than expected was used in crop drying in September and October, but more importantly, "the weather up through the end of December was running very significantly warmer than normal and gas consumption is primarily conditioned by what the temperatures are."

TO A LESSER degree, he said, the potential shortage was eased by the country's economic condition, which kept industrial use of gas below normal. And for the first time industrial users were given permission to make emergency purchases on the unregulated intrastate gas markets.

Producers prefer to sell gas within a state because the lack of regulation allows higher prices. Allowing industries to buy this gas helped ease the shortage.

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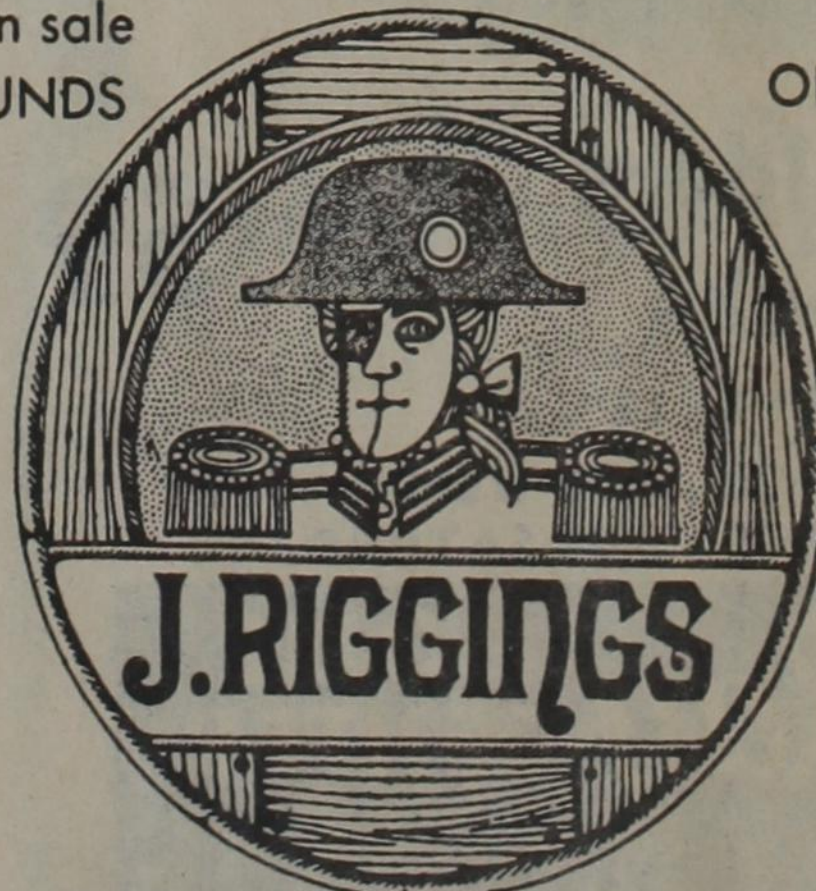
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After 20-year film absence

Roy Rogers stars in Lubbock premiere

"Mackintosh and T.J.," a contemporary western, will have its world premiere Feb. 5 at Lubbock Winchester Theatre.

ROY ROGERS will be on hand for the event which will benefit the Ranching Heritage Center at The Tech Museum.

The center now is planning its formal opening for July 2-5, 1976. It is an authentic outdoor exhibit depicting the history of ranching in America's West.

Those attending the premiere will have a reception at 7 p.m. in the lobby of the Winchester. The film will start at 8 p.m. Those who purchase Golden Row tickets will attend an after-theatre supper party with Rogers. Tickets are \$10, \$25, and \$50. All seats are reserved and may be purchased at the Tech Museum or by writing P.O. Box 4612, Texas Tech. All proceeds are for the development of the Ranching Heritage Center.

"Mackintosh and T.J." was filmed at the 208,000 acre 6666 Ranch, 92 miles east of

Lubbock near Guthrie. None of the sets were constructed. All are set against the backdrop of the famous 6666. Instead of a 10-gallon hat and buckskin, Rogers' costuming is usually a straw hat and cotton shirt. Instead of Trigger, Roy's transportation is a broken-down pickup truck.

Rogers' co-star is Clay O'Brien who was born six years after Roy's last picture, "Son of Paleface," was released.

O'Brien is no newcomer, however. Now 14 years old, he began his career when he was 9 in "The Cowboys." He followed that with another John Wayne vehicle, "Cahill, U.S. Marshall." Most recently, he added a Huck Finn appeal to Disney's "Apple Dumpling Gang," and he has played opposite Fess Parker and with James Garner in "One Little Indian."

Rogers, the star of 87 feature films before a 20-year

dry spell, chose "Mackintosh and T.J." because of the story.

"It's the relationship between the tough old cowboy and the fatherless boy that gives the picture its 'heat,'" said Roy.

Director Marvin Chomsky, whose array of film credits includes television's award-winning four-hour special on the Klu Klux Klan, calls Rogers "one of the most un-

flappable actors I've ever worked with."

Larry Mahan, six-time "All American Cowboy" who holds more rodeo records than anyone, plays one of the 6666 hands. After watching Rogers ride, he offered to "be his agent" if the cowboy star ever wanted to join the rodeo circuit.

Music for the film is by Waylon Jennings.

The film also stars Billy Green Bush, Andrew Robinson and Joan Hackett. The screenplay is by Paul Savage. Penland Productions of North Hollywood, Calif., produced the film.

First comments, according to Tim Penland, producer, indicate that audiences will see the picture as "top rate entertainment for the whole family."

School fee meet termed futile effort

EL PASO (AP) — A meeting, scheduled Jan. 26 in Austin, of representatives of more than 2,000 school districts across the state is "an exercise in futility ... nonsense," Judge Woodrow Bean said recently. Bean is a member of the State Board of Education.

Bean said Joe Butler, chairman of the board, called the meeting to review an attorney general's ruling of last fall prohibiting school districts from charging various pupil fees.

"It's a stroking session. It makes it look like we're trying to put a snow job on all the districts," Bean said. "This whole thing is crazy. Atty. Gen. John Hill already has implemented his ruling."

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"I'm out on my bicycle as soon as I can," she said. "But don't think I'm not a meticulous housekeeper. I always get my housework their looks too much. I ride by at 5:30 in the morning, and most of the women I see have their hair up in curlers and cream on their faces. done. I don't go to bed until one or two in the morning. Older people don't need as much sleep, I guess."

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children who regularly cross at her corner.
 "I TELL THEM they will have sore teeth if they eat candy," she said.
 Besides her duties as a crossing guard, she conducts private lessons in roller skating, ice skating and bicycle riding for the children.
 "But no skateboards," she said. "They're a menace. I once saw a skateboard fly out from underneath a youngster and puncture the gas tank of a car."
FOR THEIR mothers, Grandma Gae tried to start a

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Rogers in 'Mackintosh & T.J.'

Biking, skating Grandma Gae, 71, works as school crossing guard, gets A-plus

By MARK THAYER
 Associated Press Writer
 BEVERLY HILLS, Calif. (AP) — At age 71 Grandma Gae rides her bicycle to work, gets there early and roller skates around the block to warm up for her school crossing guard duties.
"JOGGING AND tennis are just a passing fad," says Gae Schiffman, a crossing guard for the past seven years who maintains "you will always remain young if you stay active."
 She started roller skating and ice skating in Bar Harbor, Maine, when she was 12. Her own children were taught to skate when they were 2 years old.
WITH HER FOUR grand-

children living some distance away, Gae has "adopted" the schoolchildren in Beverly Hills. Her love for the children is reciprocal.
 At the end of the last term, fourth grader Charles Levy looked at his report card and decided to make his own for Grandma Gae.
 In carefully made block letters it said:
"CROSSING THE kids: A
 "Crossing me: A
 "Crossing my friends: A
 "Being nice: A plus."
 On special occasions, such as the first and last days of school, Grandma Gae passes out raisins, apple juice or health food cookies to the

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WICI seeks nominations for outstanding women

The Lubbock professional chapter of Women in Communications, Inc. (WICI), is accepting nominations for Outstanding Professional Women in Lubbock. The winners in the second annual awards program will be presented at a special awards night Feb. 13 at the Big Texan banquet room beginning at 8 p.m.

Nominations should be sent to WICI, 3829-A 51st St., Lubbock 79413, by 5 p.m. Friday.

Any organization, business or individual can nominate any woman or any number of women they feel deserving of this special tribute. A nomination form listing the nominee's name, address, telephone number, her employer's

name, business address and telephone number, her position and the name and telephone number of the person making the nomination is required.

The nominator should also write a letter explaining, in 500 words or less, why the nominee is qualified to be named one of Lubbock's Outstanding Professional Women. Awards, honors and achievements of the candidate in both professional and community service can also be mentioned.

Application forms may be obtained by calling 797-2331 or 797-5902 after 5 p.m. Persons making nominations are asked to obtain the signature of their nominee on the application form.

Stock market sets record volume, continues rally

By TERRY KIRKPATRICK
AP Business Writer

NEW YORK (AP) — Record trading volume and a continuing rally brought a lot of attention to the stock market this past week, but where the money was coming from remained unclear.

The market's turbulent activity set those who analyze it to debating who was doing all the buying and selling, and why.

"I DON'T THINK THE PUBLIC is participating in the market as heavily as the volume would indicate. But they're back in, asking questions," said Henry Perrine, manager of an E. F. Hutton office here.

Whether they were buying stock or not, the public still was interested enough to crowd into brokerage houses to

watch electronic tickers record each stock transaction.

THERE WERE NEARLY as many opinions on who was causing the activity as there are security analysts, but the number of trades in blocks of thousands of shares of a particular stock showed that large institutions, such as life insurance companies and banks, were actively in the market.

The New York Stock Exchange set a daily volume record Thursday, when 38.45 million shares were traded. The weekly volume record of 145.68 million shares set in the last week of January last year was also eclipsed by the week's 159.69 million shares traded. During the week, the closely watched Dow Jones average of 30 industrial stocks added 18.50 points to close at 929.63.

IN LARGE PART, the week's rally fed on itself as excitement grew about the market's large advance of the new year and the heavy volume that accompanied it.

Also, there appeared to have been a lot of cash that was on the sidelines as the investment community waited to see what the market was going to do. When the rally began and investor confidence grew with it, this money came into the market.

Standard & Poor's 500 stock index gained 2.05 over the week to 97 even. The NYSE's composite index was up 1.12 at 51.41.

MIDDLE SOUTH Utilities was the Big Board volume leader, thanks largely to a huge 2.1 million share block trade on Thursday. The stock rose 1/8 to 15 1/8.

Favorable fourth quarter earnings reports gave a lift to such glamor issues as IBM, up 10 1/4 at 242; Burroughs, ahead 9 3/4 at 97, and Walt Disney Productions, up 2 at 54 3/4.

IT WAS JUST ABOUT all downhill, on the other hand, for Standard Oil of Ohio, which fell 6 1/4 to 70, and Atlantic Richfield, off 8 3/4 at 88 3/4. The selling in those stocks was traced to a Wall Street Journal article which said possible new taxes and other factors could reduce the eventual profitability of Alaskan oil.

IN ALL, 517 Big Board, stocks reached new 1975-76 highs, against only four new lows.

At the American Stock Exchange, the market value index climbed 3.23 to 92.05.

The Associated Press 60 stock average rose 5.0 to 292.7.

Simants convicted of murder

NORTH PLATTE (AP) — Erwin Charles Simants was convicted Saturday of murdering six members of a family in a trial that drew national interest when a judge barred pretrial publication of some details of the case, including a confession.

The Lincoln County District Court jury of seven women and five men announced its verdict after weighing the evidence for a total of four hours.

Judge Hugh Stuart, who insisted on the gag order on newsmen, set sentencing for Jan. 29. Simants could get the death penalty.

Stuart also polled the jurors for their view of the gag order. Nine jurors said they could not have served impartially had they known in advance that Simants, 30, had confessed to the Oct. 18, 1975, fatal shootings of Henry Kellie and five members of his family, three adults and three

children. Two jurors did not reply.

Crooks also use defense 'gun'

WASHINGTON (AP) — The inventor of an electric dart gun designed as an alternative to firearms and sold for self defense said recently the weapon has been used as much by criminals as by persons protecting themselves from attack.

John H. Cover, president of Taser Systems, Inc., said he has received reports that his controversial "Taser Public Defender" has been used at least 20 times, "one half in self defense and one half by crooks."

The Taser, a hand-held device resembling a flashlight, fires two, inch-long barbs connected to a battery by a 15-foot copper and stainless steel wire. The electric charge that pulses through the wires is sufficient to immobilize a person, but not cause permanent damage, Cover said.

Cover met for 75 minutes with staff members of the U.S. Consumer Product Safety Commission to review the medical and engineering tests performed on the device since he began developing it eight years ago.

The device has law enforcement and other government officials puzzled. The Bureau of Alcohol, Tobacco and Firearms has decided that it is not covered by the federal Gun Control Act of 1968.

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Tech Museum receives Wyeth western painting

The Tech Museum has been given a western painting by N.C. Wyeth to be added to a major collection begun a year ago.

THE OIL PAINTING, "Cowboy Watering Horse," is the gift of Fred T. and Novadean Hogan of Midland. With their gift last year of "Old Tribal Chants" by the late Joseph Henry Sharp of the Taos Society of Artists, The Museum established its collection entitled "The Artist in the West."

Wyeth's work is another from the Hogan collection which was on exhibit at The Museum in April, 1974. In this painting Wyeth's colors range from the bright blue of the sky and green of the cowboy's shirt to the subtle browns of the cowboy's chaps, the horse and a sunlit mountain mass in the distant background.

WYETH, who died in 1945, was a native of Needham, Mass., and a student of Howard Pyle. He was the father and grandfather of artists who continue to make

notable contributions to American art.

In addition to his oil paintings, he produced more than 3,000 illustrations for magazines and books and many large murals for public buildings. His illustrations for children's classics have been well known to several generations of Americans.

"Cowboy Watering Horse" is the second N.C. Wyeth in The Museum collection. "The Prospector" by the same artist has been exhibited on many occasions.

In making the presentation Hogan said that he anticipated the growth of a fine collection of western art for the Tech institution.

"THIS FINE, new museum has a unique teaching emphasis," he said. "A collection of excellent art on display permanently can contribute to the education of artists as well as provide enjoyment and a learning experience for all who visit."

In making the announcement of the gift Tech president Grover Murray emphasized the role of The Museum as an educational resource not only for students of Tech but for any who use the opportunities it offers.

"THIS PAINTING and 'Old Tribal Chants' given by the Hogans earlier, along with several other fine western works already in The Museum," he said, "should be seen as the nucleus of a splendid collection serving the learning needs of future generations of artists."

"A state institution can build this kind of collection only as individuals understand the need and help in the building of it."

Murray said that other paintings in The Museum's permanent collection include works by outstanding western artists, Georgia O'Keefe, John Young Hunter, W. C. Rawlings, Julian Onderdonk, Dorothy Brett, Theodore Van Solen, Peter Hurd and others.



Cowboy classic.

The painting by N. C. Wyeth is a gift to The Tech Museum from Fred T. and Novadean Hogan of Midland. "Cowboy Watering Horse" will be added to "The Artist in the West" collection at The Museum.

Melting pot of majors

Goin' Band gives diversion

By **RANDY BUHLER**
UD Staff

An atmospheric science major in "The Goin' Band from Raiderland?"

DIVERSE MAJORS in Tech's marching band are the rule, rather than the exception, according to Tech's director of bands, Dean Killion.

Of 426 band members, only 29 per cent are music majors, Killion said. Tech's band has "almost 450 members" with 74 different majors.

The marching band's second largest major grouping is tied between accounting and architecture majors, which combine for almost 10 per cent of the membership.

BRIT HENDRIX, junior accounting major from Ir-

ving, said he likes the band as "an outlet and a diversion." "Business can be dry and unimaginative," Hendrix said. "Being in the band is a good way to get out on weekends."

KILLION SAID the band is a "university-wide activity." "Anyone, from any major, is

welcome to try out."

Listed in the roster of band members are varied majors such as wildlife management, microbiology, entomology and child development.

Also on Killion's band member list are nine people whose majors are simply "undecided."

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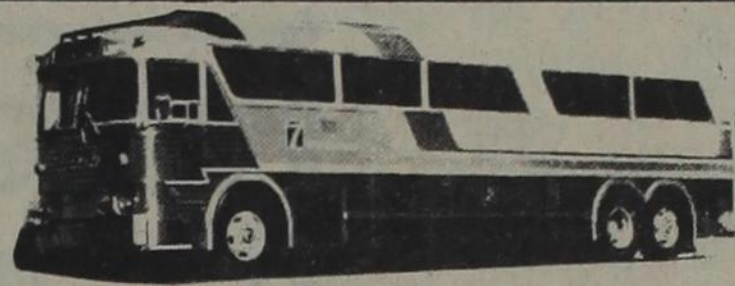
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Americans seek financial ease in credit unions

By LOUISE COOK
Associated Press Writer

From farmers to feminists, millions of Americans seeking low interest loans and high interest savings accounts are turning to credit unions with their money.

The Federal Reserve Board reported that as of November, the latest month for which figures are available, credit unions held almost 16 per cent or nearly \$25 billion of the \$159 billion outstanding in installment loans.

THAT REPRESENTED AN INCREASE of two per cent over year earlier figures. By contrast, the share of outstanding installment loans held by commercial banks and

finance companies decreased in the same period.

Commercial banks held 47.2 per cent of outstanding installment loans at the end of November, down from 48.5 per cent a year earlier, and finance companies held 24.3 per cent, down about half a per cent from a year earlier. Retailers and miscellaneous lenders held the rest of the outstanding installment credit.

THE CREDIT UNION National Association Inc. estimates that by the end of 1975, the latest full year for which figures are available, the 23,000 credit unions in the United States had more than 31 million members. Assets more than doubled in the six years ended in 1975 — from \$16 to \$38 billion.

An associated spokesman credited the growth to increased promotional activities, the ailing economy that sent people searching for increased value for their money and an expansion in services. The spokesman said, for example, that some credit unions are now offering "share drafts," similar to, but legally different from, checking accounts.

CREDIT UNIONS ARE financial cooperatives organized by people who have a common bond through employment, hobby, residence, religion or a number of other characteristics.

They are regulated by federal or state law, depending on where they get their charter from and are managed by the

members themselves.

Credit unions generally pay higher interest rates on savings accounts, usually called shares, and charge lower rates on loans than commercial banks. They also are limited, however, in the services they can provide. Most are not allowed to issue mortgages, for example, although there are moves underway to change this policy.

THE FIRST CREDIT UNION was founded in 1849 in Germany by a group of Bavarian farmers who got together to make loans to each other in an effort to avoid high interest rates. The first U.S. credit union was established 60 years later, in a New Hampshire church parish.

The latest trend in credit union establishment is among feminists, some of whom say they face discrimination at traditional lending institutions, although federal legislation enacted last year bans such discrimination on the basis of sex.

The recently opened Bay Area Feminist Federal Credit Union in San Francisco said its goals included helping women become economically self sufficient and offered special financial counseling and information.

Age before youth in China

Age is positive asset for community service

An AP News Analysis
By JOHN RODERICK
Associated Press Writer

TOKYO (AP) — China may well have the liveliest functioning gerontocracy around, an inspiration to senior citizens anywhere. Among the Chinese, age is no bar to service. In fact it is a positive asset.

THE DEATH LAST WEEK of Chinese Premier Chou En lai at the age of 78 underscored this fact. He had been in active command to the age of 76, when cancer struck him down. Even from his hospital room he had, until only a few months ago, kept his hands on the government operation.

Communist Chairman Mao Tse tung is 82 and though he isn't exactly jumping through hoops or even playing table tennis as he once did, those who meet him say his mind is still agile. And nothing much is done in China without his approval.

THE AVERAGE AGE of the 16 surviving members of the ruling Communist Party Politburo is 66. The oldest member is Chu Teh, chairman of the National Peoples' Congress Standing Committee, who is 89.

The youngest, Wang Hung wen, the onetime Shanghai factory worker and whiz kid of Chinese politics, is an almost boyish 39. Other youngsters include Chang Chun chiao, a

member of the Politburo Standing Committee, and Yao Wen yuan, both in their 50's.

BUT THEY ARE the exceptions. Until recently five of the six men who counted most — Mao and the five partygen — were over 70. Kang Sheng, who died a few weeks ago, was 77. Defense Minister Yeh Chien ying is 76 and first Vice Premier Teng Hsiao ping, likely to be the new premier, is close to 72. With Kang and Chou gone there are three vice chairmen left, one of them Wang Hung wen.

IT IS NOT impossible that when the Central Committee meets Chu Teh may be named to fill one of the vacancies, with a younger man, probably Chang Chun chiao, the other.

The death of Chou and of former acting president Tung Pi wu, 90, last April has left two holes in the nine member line up of the Politburo Standing Committee. Chu Teh already is on that body and it is not impossible that Mao's wife, Chiang Ching, 61, will move up along with her protegee, Yao Wen yuan.

A CONFUCIAN respect for age and presumed wisdom is one of the reasons why the old are not only respected but respected and used in the proletarian People's Republic.

Another is the fact that those in power are culminating life times of revolution, some of them having fought the party's

battles for as much as half a century.

In 1976, Mao's policy is to have the old, the middle aged and the young in positions of power. But for a few years yet the old will continue to weigh heavily in the political scales.

Goldwater hears prison torture claims

LOS ANGELES (AP) — American law enforcement agents are involved in the torture of American prisoners in Mexico, witnesses told a hearing held by Rep. Barry Goldwater, R-Calif.

But Police Chief Edward Davis and Dr. Arthur W. Feldman, retired American consul general in Mexicali, testified Thursday that Americans arrested in Mexico should not expect to be treated differently from Mexican prisoners.

DAVIS SAID the complaints were from persons who were "spoiled being born and raised in America," where a person is presumed innocent until proven otherwise.

Goldwater called the hearing to investigate reports of Americans arrested in Mexico for trivial reasons being subjected to harsh treatment, including torture. Many witnesses said Americans were treated especially severely because Mexican officials considered them a possible source of bribes.

was swollen and bruised ... and her front teeth were chipped."

"She related to us how she was forced to sign a confession written in Spanish while being subjected to physical and mental maltreatment for many hours at the Mexico City airport."

Mrs. Harrison said when she and her husband sought assistance from the U.S. Embassy, "we were taken upstairs to the office of United States DEA agent Arthur Sedillo."

"MR. SEDILLO told us he had been at the airport. He explained that he had pointed out Karen and her traveling companion to the Mexican authorities. He further explained that he would get

Karen released from Mexico to appear before a federal grand jury in the United States, if she would be willing to testify," Mrs. Harrison said.

Pete Dupuy, another witness, said he and two friends were arrested in San Luis, Mexico, in the presence of U.S. drug enforcement agents and Los Angeles police officers. He said the agents opened fire on their private plane as they came in to land and their aircraft had more than 100 bullet holes in it.

DUPUY SAID he and his friends were imprisoned 18 months and then released when they were cleared of drug trafficking charges. However, Los Angeles

Police Cmdr. Pete Hagan said in a statement later: "The Narcotics Bureau has no record of ever having any men down in San Luis, and certainly not on Dec. 7, 1973, the date Dupuy said he and his friends were arrested."

Goldwater said, "If the Mexican authorities are unable or refuse to provide humane and fair treatment to their American prisoners, I am convinced the United States government must take steps to ensure that U.S. citizens are better treated."

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1 Torrid
4 Respond
9 Cry of goat
12 Swiss river
13 Bury
14 Sick
15 Begins
17 Young lady
19 By way of
20 Having branches
21 Newspaper paragraph
23 Preposition
24 Amount owed
27 Hindu symbols
28 Baby's napkin
29 Warning device
30 Part of to be
31 Offspring
32 Pronoun
33 Symbol for tellurium
34 Jumps
36 Knock
37 Distress signal
38 River in Belgium
39 Vigor
40 Hurries
41 Proportion
43 Dude
44 Treats maliciously
46 Wing-footed
49 Garden tool
50 Passageway
52 Man's name
53 Affirmative
54 Mine excavation
55 Tattered cloth

DOWN
1 Possesses
2 Grain
3 Make a journey

4 Girl's name
5 Abstract being
6 Near
7 Evergreen tree
8 English streetcar
9 Deceived
10 Beverage
11 Everyone
16 Edge
18 Title of respect
20 Take herring
21 Country of Europe
22 Domesticates
23 Fish limb
25 Conductor's stick
26 Lock of hair
28 Genus of cattle
29 Tear
31 European parties
32 Cut of meat
35 Eagles' nests
36 Spanish for "river"
37 Meal
39 Call on
40 French for "king"
42 Afternoon parties
43 Escape
44 Timid
45 American essayist
46 High mountain
47 Guido's high note
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Candy Barr 'closes out' with nude photo layout

LAKE BROWNWOOD (AP) — The young man squirmed in the seat and brushed a sweating hand against his ducktail hairstyle. A longneck bottle of Lone Star beer grew warm at his touch.

NEARBY, A GRAY SPIRED businessman squinted through the smoky darkness, praying for anonymity. After all, this was 1957, and strip clubs, tame as they were by today's standards, weren't "nice" places for "nice" people.

The crowd at Dallas' Colony Club grew quiet as a blue spotlight tugged at the stage curtain, then out stepped the girl next door in whose mouth butter would melt faster than a cough drop on a Model A radiator.

"And now, folks, Texas' own little darlin' — Candy Barr!"

BUMP MET GRIND, and wet whistles and cat calls

ricocheted off the club walls.

Mouths went dry. Sweat peppered foreheads young and old.

Candy Barr — the girl next door with the baby doll face and the body built to stop traffic — was taking off her clothes! HUNGRY EYES NARROWED. It became difficult to breathe. This was better than the worn copy of Sun & Health nudist magazine hidden at home.

It was, after all, 1957.

The Colony Club is a parking lot now. And what Candy Barr did on club runways in those days would hardly raise an eyebrow today. But time has ignored all of that for her.

"GOD HAS BEEN GOOD to me," Candy said Wednesday. "After all, I'm a grandmother now, but I'd compare my body with any woman's. I mean, I'm a grandmother: Isn't that beautiful?"

Candy said she is 40. In 1959, she said she was 23. The next day it was 27. In 1957, she said she was 22. In 1958, it was 24. No matter. Blonde and still beautiful, she could pass for 25 today.

CANDY HAS BEEN "RETIRED" at Lake Brownwood for several years following a controversial career which included a marijuana conviction in 1958, and prison term. At the zenith of her career, she appeared in top clubs in Las Vegas, Los Angeles, New Orleans and Dallas.

But she came out of retirement recently to do a nude photo layout for Oui Magazine which she says should be on newstands "maybe in May."

"I DID IT FOR ALL the people who have followed me over the years. I figured this would close out my history. Actually, I was pretty bashful during the picture taking

session. But it made me feel good to do it. It was a neat thing. I wanted it done in good taste and I think that's the way it will turn out. I'm still a star. But I wanted to finish my career this way."

Candy said she still writes and will have one of her songs recorded soon in Nashville, then plans a trip to California for consultation on a film script.

"I'M NOT A BAD GUY, really. I don't believe in closing my hand on my fellow man. Life's beautiful and I want to keep it that way.

"The magazine pictures are no attempt at a come back. I really never left. I'm still a star, a personality. But I don't want the bright lights. I never did. I just got shoved that way. But listen, honey, I've got a 2-year-old grandson. My daughter is married to a wonderful guy. Now that's where it's at."

Western epic 'in bloat'

TV's Marshal Dillon turns frontiersman

By JAY SHARBUTT
AP Television Writer

NEW YORK (AP) — James Arness, who for 20 years rode the TV range as Marshal Dillon in "Gunsmoke," returns to the tube tonight as a buckskin clad frontiersman in a 2½-hour ABC movie, "The Macahans."

BUT WHEN IT ENDS it won't be the last of the Macahans. ABC says the show may be a series next fall. It says the show is based on the movie, "How the West Was

Won," and may bear that title as a series.

If tonight's effort bears any resemblance to "How the West Was Won," I'll do a fan dance in Macy's window at high noon. But I digress.

THIS LONG, lumbering saga has Big Jim cast as Zeb Macahan, a Virginian, who has been out West scouting, trapping and all that for 10 years. The plot centers on his efforts to help his brother Richard Kiley and brother's wife Eva Marie Saint to move

their family West from their home near Bull Run, Va., just before the start of the Civil War.

But just before the trek begins, Easterners and Midwesterners will see something completely different — President Ford's State of the Union message, which the networks are carrying live at 9 p.m. EST.

ABC will stop "The Macahans" for Ford's speech and ensuing analyses of it, then resume the proceedings.

The show begins in March 1861 with Big Jim and an Indian lad he befriended a few years earlier riding through Western woods identified as the "Hunkapa Sioux Territory."

THEY SEE a fellow scout, played by Gene Evans, set upon by Indians who are fixing to skin him alive. Zeb intervenes and gets them to hand him over, explaining that the Army wants Evans for hanging purposes, as he has fomented Indian uprisings and that have cost lives.

He turns the baddie in to Fort Laramie authorities, then says he's going back to Virginia to visit the Macahans, who stayed there. Cut to "Northeastern Virginia, April, 1861" and his arrival there.

Miss Saint, who in the show has four teenagers — two boys and two girls — distrusts Zeb,

calling him "a drifter, a gambler and a pagan." But Civil War clouds are looming, her husband wants to try his luck out West anyway, and off they go, Zeb having reluctantly agreed to escort them.

THE JOURNEY IS LONG and arduous, but nowhere as long and arduous as the rest of the show, which gets Zeb & Co. only as far as temporary quarters in Nebraska — a sod hut — before grinding to a halt.

This Civil War era show could be called "Davey Crockett and The Waltons Set Up a Little House on the Prairie Under a Grant Made Possible by Lee." It certainly has lots of story angles for a series. But I wish they hadn't tried to squeeze all of them into tonight's program. It makes the thing a 2½-hour epic in bloat.

Soap opera draws viewers

By JAY SHARBUTT
AP Television Writer

NEW YORK (AP) — "Mary Hartman, Mary Hartman," Norman Lear's satirical new soap opera, may make a few viewers and critics cry. But you won't find WNEW here and KTTV in Los Angeles sobbing over its ratings.

EACH BEGAN the daily series week before last, putting it in the 11 to 11:30 p.m. time slot. Compared to the previous week, it tripled WNEW's meager average ratings at that time and almost did the same at KTTV, according to A. C. Neilsen audience samples.

cities, according to a Lear spokesman, but no national estimates of its popularity will be ready for several weeks because it's syndicated and its starting time varies from area to area.

But the Nielsen head count is literally overnight in Fun City and Los Angeles, thanks to meters on the TV sets in selected homes, and the meters bring very good news to WNEW and KTTV.

IN THE NEW YORK area, which Nielsen estimates contains more than 6.3 million TV equipped homes, WNEW was barely getting by in the 11-11:30 p.m. ratings with reruns of Groucho Marx' old game show.

According to data for the week prior to the start of "Hartman" in that time period, Groucho averaged a four rating, meaning 253,500 homes.

BY COMPARISON, the time period's highest rated show — a local news program on the CBS owned station, WCBS — had an average rating that week of 16. Which means it was seen in more than one million homes.

But WNEW's ratings soared the night it premiered "Hartman" as a one hour special, with two 30-minute episodes run back to back. The show, aired on Tuesday, Jan. 6, drew a 14 rating — nearly 880,000 homes.

ROTC cadets honored

Two Tech ROTC cadets, one each from the Air Force and the Army, have been awarded the Legion of Valor Bronze Cross of Achievement.

The official presentation to Army ROTC Cadet Thomas Herbert Tutt II of Fort Worth and Air Force Cadet Michael D. Gill of Baytown and San

Antonio will be by Dr. Grover E. Murray, Tech president. The principal address will be by Brig. Gen. Gerald Childress, new commander of the U.S. Army Third ROTC Region, Fort Riley, Kan.

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Marijuana testing may alter legal priorities

CARBONDALE, Ill. (AP) — A federal prosecutor says he will reassess the priority he gives drug prosecutions if the U.S. Justice Department sanctions a federally financed experiment testing marijuana's effect on human sexual responses.

THE PROGRAM, planned for Southern Illinois University, was given the go ahead Monday by the federal Food and Drug Administration.

"I can't very well ask a jury to convict somebody for doing something that the government is paying some other person to do," said U.S. Atty. Henry Schwarz, whose jurisdiction includes the school.

Called tax paid debauchery by some opponents, the tests are financed by a \$121,000, two-year grant from the National Institute of Drug Abuse.

Dr. Harris Rubin, an SIU psychologist who has conducted similar experiments with alcohol, got the grant last spring.

WITH THE FDA announcement, Rubin needs only a grant of immunity and confidentiality from the Justice Department before his work can begin. A decision is expected within a week, and Rubin said he is prepared to begin to experiments immediately.

He plans to pay adult male volunteers \$10 to \$20 a day to use the drug and watch stag films while a machine measures their arousal. Sex hormone levels also will be monitored. All the subjects will be current marijuana users.

Rubin said no tests are planned on women because of a lack of adequate measuring techniques.

Lufkin State School children discover tragic goat slaughter

LUFKIN (AP) — A herd of goats brought in for mentally retarded children at a state school in Lufkin has been decimated through shootings and disappearances.

Angelina County Sheriff Pete McBride said today 17 goats had been shot to death and another 30 were missing.

THE SCHOOL noted the 54 goat herd had been diminishing the last 10 days.

Sheila Champion, director of volunteer services for the school, said the goats were used to clear out underbrush in a retreat area and workers had hoped to use some of the animals in work with the children.

"The animals elicit responses from children with handicaps," she said.

"It's really tragic when these boys who are functioning like young children come upon an animal that is

shot or paralyzed," Mrs. Champion said. "They have found their carcasses and it's hard to explain to them why someone would do this."

The school obtained about 35 goats from the Department of Mental Health and Mental Retardation in Austin last October.

SINCE THEN, the herd grew to about 54, Mrs. Champion said, adding there were "babies galore."

The goats were penned, McBride said, and the fence had not been damaged. The dead goats had been shot with a small caliber weapon, he said. The sheriff has offered a \$100 reward.

Vatican issues positive evaluation of sex ethics

By GEORGE W. CORNELL
AP Religion Writer

NEW YORK (AP) — While condemning the modern erosion of sex standards, the new Roman Catholic

declaration on sexual ethics emphasizes the importance of sexuality and the "moral goodness" of sexual union in marriage.

Human beings are "so profoundly affected by

sexuality" that it is a key factor in giving "to each individual's life the principal traits that distinguish it," says the document issued Thursday by the Vatican.

IT ADDS THAT SEX gives a

person the biological, psychological and spiritual characteristics that "largely condition his or her progress toward maturity" and involvement in society.

This positive evaluation of sex, differing from older negative Church teachings about it, says that only respect for the definitive quality of sex "insures the moral goodness" of sexual intercourse in marriage.

That objective bond of union, and not mere sincere intentions, is essential for sexual acts to uphold "true human dignity" and to preserve the "full sense of

mutual self giving and human procreation in the context of true love," the declaration says.

OUT OF THIS HIGH view of sex, the Church statement hits at the contemporary confusion, downgrading of sex standards and "widespread aberrant modes of behavior" that violate the "true moral exigencies of the human person."

The decline in sex morals is linked with "the loss of a sense of God," the statement says, and has been "engendered by the commercialization of vice, with the unrestrained licentiousness of so many public entertainments and

publications, as well as with the neglect of modesty."

THE CORRUPTION has infected education and the general mentality, says the analysis drawn up by Vatican office on sacred doctrine. It adds:

"Moral criteria and modes of living hitherto faithfully preserved have been very much unsettled, even among Christians. There are many people today who ... have come to wonder what they must still hold as true."

Singled out for specific censure were premarital sexual intercourse, homosexuality and masturbation.

Prof says nation moving back to fiscal conservatism

HOUSTON (AP) — A Stanford University professor said Friday the mood of the nation is swinging back to long last to fiscal conservatism.

"The living lessons of New York City, the United Kingdom, and of serious inflation have added strength to that swing," said Dr. Ezra Solomon of Stanford's graduate school of business.

"IF I AM RIGHT and the swing to fiscal prudence prevails, we can expect inflation to keep on abating gradually until it gets back to levels we can live with."

Solomon was among the speakers at an annual Houston Outlook conference sponsored by the Houston Chamber of Commerce.

Isaac C. Kerridge Jr., Hughes Tool Co. vice president and economist, said demands for funds to finance corporate growth in the Houston region will be strong this year.

KERRIDGE SAID capital spending will be up about 15 per cent compared with a forecast increase of 9 per cent for the entire nation.

He said corporate finance requirements in the region will exceed \$1 billion this year compared with an estimated \$700 million in 1975.

Availability of funds for credit worthy firms, he said, is not a current problem.

"There is concern, however, that Treasury borrowing in the range of \$80 to \$90 billion in both 1975 and 1976, to finance federal budget deficits may crowd out funds needed for

private investment,"

Kerridge said. "ABOUT 50 PER CENT of the \$200 billion net flow of funds in U.S. credit markets already is being taken to finance existing federal, state, and local programs."

The extent to which crowding out occurs, Kerridge said, will depend largely on Federal Reserve policies

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medium-sized) business? Realizing every citizen has "a need to know," The Business Roundtable sponsors messages on how our American free enterprise system works. This month they will reason with the country's largest reading audience, in *Reader's Digest*.

★

Too Big or Not Too Big?

★

A FUNNY thing happened to John Hertz's little car rental lot in Chicago... to Roland H. Macy's "fancy dry goods" store in New York... and to the Hoover people, in Ohio, once they started making that tin and wood "electric suction sweeper."

Their small businesses became big businesses. Why? Because they filled a need. They did the job. People liked the way they did business, and their businesses grew.

Such growth, a logical and even necessary phenomenon in the private-enterprise system, seems sorely misunderstood today. "A growing volume of criticism equates bigness with badness," says Randall Meyer, president of Exxon Co. U.S.A. "Big business" is portrayed as a monster born full-grown, determined to snuff out little competitors and run roughshod over consumers.

Neither the historical record nor the economic and social realities of America today support such a view. Big business has not "cornered" the U.S. marketplace and work force. Bureau of Census statistics show that only 12,169 of more than three million U.S. businesses are "big"—that is, employ more than 500 people—while there are 1,722,250 small businesses with one to three employees. The "big" businesses employ 15.6 million workers out of a total work force of 86.6 million.

Nor has big business cornered the nation's wealth. The approximately 5 percent of American wealth (property, plant and equipment, and inventories) held by U.S. manufac-

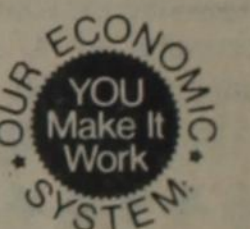
turing corporations with assets of \$1 billion or more is slightly less than those companies had a decade ago.

Fears of big business often stem from lack of understanding of the basic economic reasons why some businesses grow big and others stay small. Big jobs, like the production of steel, chemicals or great quantities of such complex products as automobiles or television sets, require huge investments of capital, raw materials and managerial and technical skills. Indeed, looking to the world problems of energy, natural resources and the environment, one must conclude, as has noted historian C. Northcote Parkinson, that big business must grow bigger because "the research that underlies the discoveries, whether geophysical in Alaska, or chemical in West Germany, demands a scale of investment that is beyond the reach of the family firm."

But sometimes even relatively simple products, like razor blades or chocolate bars, require "bigness" because of the enormous markets that exist for them. Then, too, we are living in an age when the efficiency of bigness, the "economy of scale" as it is called, is vital if companies are to remain competitive. This is especially true where the competition consists of huge foreign combines backed heavily by their governments' treasuries. General Motors may account for 43 percent of U.S. auto sales, but it has only 22 percent of the world market. U.S. Steel is a domestic giant, but it has a tough time against such foreign concerns as Japan's Nippon

It's time for facts—rather than illogical fears—about "big" business

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Steel, the world's largest steelmaker. This same situation is faced by big American companies in other fields as they compete in a global market against giants such as Royal Dutch Shell, in petroleum and chemicals; Unilever, the huge British-Dutch food and detergent firm; Nestlé, the vast Swiss corporation. The enormous research and development required to compete in such markets is simply beyond the means of small companies.

On the other hand, there are innumerable tasks—the sale of consumer goods and services, home and automobile repairs, restaurants, to name a few—that can be handled efficiently by both small and large businesses in a local area.

It is important to realize that businesses big and little carry out their tasks in a vital atmosphere of interdependence. Small businesses, for example, would be much less prosperous without the tools, raw materials, finished and semi-finished products they purchase from big firms. As Leo McDonough, executive vice president of the Smaller Manufacturers Council (comprising 575 companies), says, "If there weren't a U.S. Steel or a Jones & Laughlin spitting out fantastic amounts of steel and keeping prices down, our basic-materials costs would be out of reach."

But big companies need little companies, too. In a typical year, 3M Co. uses products and services from more than 30,000 small businesses—such as Gopher Electronics Co., in Minneapolis, and Calumet Screw Machine Co., in Chicago. Hewlett-Packard Co. deals with 6000 small American companies in its electronics business.

But what about competition? Aren't the big boys stamping it out and virtually dictating prices? No. There are many energetic, clever people making a success in business despite the presence of "big guys" in the same field. Robert Cuff, president of Entron Controls, Inc., in Carol Stream, Ill., proudly points out that his industrial-controls manufacturing firm can and does compete with the giants in certain areas. It has even sold control devices to some of General Electric's own cor-

porate divisions. Says Cuff, "They buy from us—even though GE makes a similar product—because we can build it at a lower price and give faster delivery."

Remarks Irvine Robbins, of giant Baskin-Robbins Ice Cream Co.: "Sometimes when we get big, we get a little lazy, a little complacent." When his company grew big by concentrating on "walk-in, walk-out" ice-cream stores, Farrell's of Portland, Ore., moved profitably into the same market as BR with sit-down soda-fountain parlors. "They woke us up," says Robbins. "So we started concentrating on the fountain end of our business. The result was that we improved a little, and Farrell's is doing fine, too."

As to the charge that big business artificially keeps prices high, the facts again rip apart the rhetoric. A study by economist J. Fred Weston, of the University of California, Los Angeles, reveals that the heavily concentrated industries (big business) have held prices down better than smaller and less concentrated ones. In industries where the top four companies had at least 75 percent of the business, prices rose an average of 47 percent during the inflationary period 1967-1975. But in the least-concentrated sectors of industry, prices rose 70 percent in the same period. Leonard Woodcock, president of the United Auto Workers, admits: "The old anti-trust notion—that, if you break things up into small competitive units, you will have lower competitive prices—may be wrong. General Motors, the biggest car producer, is without question the most efficient and most able to hold down the cost of its products."

Whatever their size, in the end, businesses in America must pass the test imposed by the most affluent and sophisticated consumers in the world. Any business must affirmatively answer those old questions: Does it do the job? Does it deliver the goods? Does it satisfy you?

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Solar power works as infant energy alternative

By PAUL RECER
Associated Press Writer

TUCSON, Ariz. (AP) — Little by little, Americans are turning on to solar power, tapping the sun's strength to do the work of man.

SOLAR ENERGY IS ONLY in its infancy, but already sunlight is heating, cooling or doing both for more than 200 U.S. homes and a dozen or more office buildings, mostly in the sunny Southwest.

A university professor in Tucson, Ariz., cooked a Thanksgiving turkey in a solar oven of his own design. Since the 1940s, a Florida company has been installing rooftop solar heat collectors, at a cost of up to \$1,500 a unit, to heat water in homes. The sun both warms and cools at Atlanta school, a New Hampshire federal office building, a Texas college dormitory and a New Mexico laboratory.

Experts say all signs point to the birth of a solar energy industry. Recently, the federal government conducted a survey to determine private industry's interest in solar research.

THERE WERE MORE THAN 200 replies from companies, large and small. Right now, at least 23 companies are selling solar heat collector panels to heat and cool homes or to heat water. The glass and metal panels cost from \$100 to more than \$500 each, and a three or four bedroom home usually requires a dozen or more. They look like sandwiches or very narrow flower boxes three to six feet in depth, eight to 10 feet long and four to eight inches thick. They usually are placed on rooftops.

Nobody knows exactly how many have been sold, but one expert, in a "very rough estimate," said it is "no more than a few million dollars worth this year."

"IT'S DIFFICULT to give a good number," said Dr. Lauren Van Tull, associate director of the University of Houston's Solar Energy Research Lab. "Solar panels are something you can build yourself."

Arthur D. Little Inc., a research firm, estimates that solar power equipment will be a \$1.3 billion industry by 1985, and more than a million homes will be plugged into sunlight for heat, air conditioning, or to generate electricity. But less than \$60 million was spent in 1975, on solar energy, an Associated Press survey indicates, and most of that was federal funds.

DESPITE THE INCREDIBLE promise of solar energy, and the technology to use it, the economics of sun power is a major obstacle. So far, solar energy systems are more expensive than fossil fuel systems.

The federal Energy Research and Development Agency (ERDA) has a program designed to demonstrate and test equipment for heating and cooling. The agency is funding demonstrations of systems developed by private companies and is making technical assessments of equipments under development. ERDA also is funding research into advanced solar electric generating systems. Private companies, universities and other government agencies are performing this research.

ERDA SPENT \$48.5 MILLION last year on more than 20 solar projects. It is asking Congress for \$70 million for solar energy demonstrations this year in 2,400 homes and 200 commercial buildings in 12 different U.S. climates.

Engineers and scientists say that solar energy on a wide scale is now technically possible. Our know-how, they say, even includes ways to fire industries with sunshine sponges and to fuel cars with hydrogen harvested with solar heat.

The amount of energy spewed out by the sun is immense. Experts estimate that the sun showers the earth with 800 trillion kilowatts of energy hourly, about 100 times more energy each hour than man has used throughout history.

BUT EVEN FOR RELATIVELY EASY jobs, such as water and space heating, sun power is costly, mostly because of the large storage units that are necessary to keep a solar system running when the sun isn't out.

In Tucson, which has one of the nation's best climates for the use of solar energy, builder Ernest Carreon estimates that a sun power heating system in a three or four bedroom home adds roughly \$5 per square foot to the cost of the house. Carreon built a 1,200-square-foot home with a solar system. The cost was \$45,000. He said it would have been \$39,000 or \$40,000 with a conventional heating system.

"The solar system will pay for itself through energy savings in 11 years at today's electrical rates," says Carreon, "but it would take 62 years at today's natural gas prices."

THE COST OF INSTALLING a solar energy unit to heat and cool a 2,000 square foot house in Austin, Tex., is about \$12,500, or \$11,000 more than a conventional system burning fossil fuels, says Dr. Gary Vliet, a University of Texas professor.

Much of this cost is in the water storage tanks holding 8,000 to 12,000 gallons, buried and insulated, that are needed

to store heat for an average home in a moderate climate for up to three consecutive cloudy, sunless days.

However, Vliet estimates that mass production and other factors could bring cost down to \$8,600 within three years.

THE SIMPLEST SOLAR ENERGY collectors, and the most commonly used today, are called flat plate collectors. They look like sandwiches three to six feet by eight to 10 feet, and they're made of glass, metal and insulation. A clear top layer of glass or plastic allows sunlight to strike a metal panel. The panel, painted black, concentrates the heat. Liquid filled tubes or moving air carry the heat to a storage system which can be a buried tank of water or a basement full of rock. This system can achieve temperatures of up to 210 degrees even in winter.

Such systems easily provide heat for buildings when air is pumped around the storage unit and back out into rooms. With various adapters, the flat plate collector system also heats water in homes and swimming pools, and operates absorption air conditioners.

"We can build a storage system that would hold heat virtually forever," said James Leonard, head of the Sandia Laboratories in Albuquerque, N.M., which has an ERDA contract. "But cost is the driving factor."

A MORE DIFFICULT JOB for solar energy is generating electricity. Two methods are being developed, one using collected sun heat and the other direct conversion of sunlight to power, a process called photovoltaics.

The collected sun system uses concentrators that produce temperatures of 1,000 degrees or more with sunlight. Such processes use liquid to move the heat and drive a turbine. They usually are called "liquid transfer" systems.

A concentrator invented by Ronald Winston, a University of Chicago professor, is a trough shaped mirror with a black coated pipe along the bottom of the trough. Liquid run through the pipe collects heat.

A SIMILAR SYSTEM is being used by a Sandia Laboratory team, head by Leonard. Instead of mirrors, the Sandia team is using curved plywood, coated white, to save money. An oil collects and stores the heat. Leonard said the

system can collect up to 600 degrees of heat, enough to power steam turbines and others that generate electricity.

Another "liquid transfer" system under study has fields of curved mirrors tracking the sun across the sky and reflecting its heat onto a globe atop a tower. Liquid circulated through the globe is heated and returned to a central power generating station.

Photovoltaics, or solar cells, directly convert sunlight to electricity. These cells, actually silicon crystals, powered the Skylab space station and are used in many unmanned space craft.

Both liquid transfer and photovoltaic solar electric systems cost more, presently, than conventional fossil fuel power plants. This could change over the lifetime of a solar electric plant, however, if fossil fuel costs rise.

PHOTOVOLTAIC POWER is the most costly. The Electric Power Research Institute (EPRI) estimates that a solar cell power plant would cost \$20,000 per kilowatt capacity. This compares with \$600 for a fossil fuel plant with the same capacity and \$1,000 for a nuclear plant.

The cost picture is more favorable compared with nuclear power plants. Dr. A. F. Hildebrandt, director of the University of Houston Solar Energy Lab, which developed the solar tower concept, estimates that power plants using the solar tower could be built for about \$930 per kilowatt, or less than the current cost of nuclear plants.

But heat storage is still a problem for the fluid transfer systems used in electric power generation because temperatures of 600 degrees and more must be stored at night and on cloudy days. Scientists are looking into the use of a variety of liquids, oils, salts and metals with low melting points for use in storage units.

Despite the possibilities, widespread use of solar power is limited by the complex factors that influence the nation's energy use. There is cost, investment in existing energy industries, the availability of other fuels, financing, building and construction standards, public acceptance, and even the legal question, "Who owns sunlight?"

NEVERTHELESS, NECESSITY may lure people to

solar power, if the experience of Bridgeport, a small Texas town, is any example.

When Bridgeport's 5,000 people refused to pay a rate increase to the Texas Power & Light Co., the utility threatened to cut off the city.

"They said they were going to pull the plug on us so we decided to go shopping for other sources of power," said city councilman Jack Vandeventer.

What they found was Solar King Inc. The Reno, Nev., firm offered to install a 4.2 million kilowatt power plant operating on sunshine.

The company will pay for the plant and the city will furnish the land. It's expected to be in operation in 1978.

The project will have no federal help and Solar King president Brian Pardo calls it "a case of American ingenuity, of the common man solving a problem."

"It's not the government projection of 1990, when solar energy is going to be a reality," said Pardo. "It's a reality now."

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Planetarium views theories on extraterrestrial visitors

Visitors from other worlds and what they may or may not have done while on Earth will be the topic of the January and February presentation of the Moody Planetarium of the Tech Museum.

stone carvings. The program looks at both sides of the question of intelligent life existing beyond the planet Earth. It claims these theories cannot be proved, but, neither can they be disproved.

Presentations are at 3 p.m. Saturdays and Sundays. Ticket sales begin one-half hour before showtime. Admission is \$1 for adults, 75 cents for students and free for West Texas Museum Association members.

The program, "Chariots of the Gods?" examines several theories about visits from other planets. Included are interpretations of ancient literature, cave drawings and

Andrews takes scholarship

Rita Jo Andrews, Tech senior accounting major from Lubbock, has been awarded a \$100 scholarship by the women's auxiliary of the Lubbock chapter, Texas Society of CPAs.

Andrews will be graduated in May. She is a member of Beta Alpha Psi and secretary of the Tech Accounting Society.

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Cold hurts pasture conditions

COLLEGE STATION (AP) — The season's worst cold snap has aggravated pasture and livestock conditions already weakened by a lengthy drought, Dr. John Hutchison, Texas Agricultural Extension Service director, says.

Hutchison said widespread stock feeding is under way because of scanty ranges and pastures.

The continued dryness and extreme cold have combined to stunt small grains, he said.

District agricultural agents gave these reports:

Panhandle: Wheat growth has stopped and dry land conditions remain poor because of very short moisture. Pastures and ranges are generally below average. Livestock are in fair shape. Cotton harvesting is about complete.

South Plains: Soil moisture is short. Ranges and cattle are about average. All summer crop harvesting is complete. Irrigated wheat is making fair progress.

Rolling Plains: Dry weather and subfreezing temperatures have caused damage and delayed small grain growth. Ranges are in below to

average condition. Livestock are in fair to good condition but show some cold weather shrinkage. The cotton harvest is about 90 per cent finished.

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Civil rights groups face financial difficulties

By PETER ARNETT
AP Special Correspondent

NEW YORK (AP) — The civil rights movement is now barely paying its way in America after a decade flushed with success.

And some black leaders say that all funds should be raised from black communities because the support of affluent whites can no longer be relied upon.

"THE WHITE LIBERALS are giving their money to their favorite presidential candidates, not the civil rights movement," said the Rev. Jesse Jackson, head of Chicago-based Operation PUSH.

"And the Jewish middle class is contributing all their spare cash to the state of Israel these days. With the tightened economy, more and more people are concentrating on their own special interests."

THE MONEY CRUNCH had hurt most civil rights organizations, some more seriously than others.

The North Carolina branch of the Southern Christian Leadership Conference suspended operations in October because of a \$17,000 debt, and the state leader moved to Delaware to work with a group of ministers.

The National Association for the Advancement of Colored People, the nation's oldest and largest civil rights organization, is reportedly \$250,000 in debt, and the deficit "is reaching a point where it could imperil critical programs that are the lifeblood of the organization, including its foremost thrust in school desegregation," according to one official.

The only civil rights organization holding its own seems to be the National Urban League, "which had a very good year last year, well over our projection," said William Sims, director of the organization's fund department. The Urban League's advantage over the other non profit civil rights organizations is that it has the direct support of American

industry in its programs to integrate work forces.

BUT EVEN THE URBAN LEAGUE is getting the message that there is a diminishing interest in the civil rights movement in America.

"A white corporation executive told me recently 'civil rights is no longer popular,'" Sims said.

Other black leaders blame President Nixon and President Ford for taking the emphasis off equal employment and other civil rights issues.

"Just because black communities are quiet does not mean that we have made enough progress," said Ed Reed, an executive assistant in the Boston chapter of the NAACP.

Student teachers study pupils

Students learning to be teachers will take a closer look at what makes pupils tick through a special field experience to be offered this spring at Tech.

THE FIELD EXPERIENCE will enable education students to work with pupils from varied ethnic and cultural backgrounds before becoming teachers.

Coursework will include seminars involving guest speakers, group discussions, films and cross-cultural experiences in the local

community.

HIGHLIGHTING the course will be a week-long field experience designed to allow first-hand, in-depth encounters. The field experiences tentatively are set for San Antonio and Ruidoso, N.M., in sites with population densities of multicultural groups of interest to the students. The students will be able to work with native Americans, black Americans and Mexican Americans.

The course is open to junior and senior students in the College of Education.

"REPORTS OF SUCH PROGRESS are misleading and blacks are liable to be on the streets again when they realize how poorly they are faring economically."

The 66-year-old NAACP reportedly has had trouble meeting its payroll in the New York headquarters "but we are no where near the spot where we might go under," an official said.

The association has 1,400 chapters and a membership of around 450,000, and some sources see renewed fund raising vigor when the respected, but aging association head, Roy Wilkins, retires later this year.

THE REV. JACKSON of PUSH says that the depressed

economy and the diminishing interest in civil rights "has given the black community its biggest challenge yet."

Jackson says that the black middle class must now assume responsibility for the financing of the black struggle.

"We have had some black representation in the past — lawyers, doctors, preachers. But as our new fund raising base we need support from the new generation of moneyed blacks, the black executives, the black athletes. They are all successful as a direct result of the civil rights struggle. Yet, eight out of 10 black athletes don't financially help the civil rights movement," Jackson said.

PUSH WAS \$400,000 in debt a few months ago, but two public benefits raised half that amount.

Some officials within the NAACP say their base membership fee of \$4 should be raised to cover increased expenses.

The Rev. Jackson says the only hope for black organizations is to take over totally their financing and administration.

"Just as the Jews fully support B'Nai B'Rith, and Catholics Rome, so too must we run our own organizations," Jackson said.

COSTS FOR the course will run approximately \$125 to \$175 above regular tuition and fees to cover transportation, meals and insurance during the field

experiences. For more information, call Dr. Hazel Taylor at 742-2275, or Dr. Duane Christian at 742-6189.



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