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LETTERS TO THE EDITOR

LETTERS POLICY

To the editor:
 How is it that a project such as the Crosbyton Solar Power Project has to be dismantled for lack of funds; yet, our less-than-glorious athletic programs manage to command a well-padded budget? Is football the solution to the energy crisis?

All letters to the editor must be typed, double-spaced, and include the writer's name, address and telephone number. All letters must be signed. Unsigned letters will not be published. A letter writer's name may be withheld from publication upon request and for a valid reason.

At this very moment the Crosbyton Project is being disassembled and the equipment put into storage. This experiment had proven its value in the search for an alternate energy source. First funded by government sources, the project had depended on Tech for 15 months before funding was cut off, causing the demise of the project.

The editor of The University Daily reserves the right to edit letters because of libel, taste, obscenity and space limitations. Letters also may be edited for spelling, grammar and punctuation.

Now let's take a close look at the athletic department. Money is poured into a program with less than desirable results whose participants receive generous scholarships as well as preferential treatment. For example, courses are designed with the athlete in mind. Music "Fun Machine," M AP 1221 and 1222, (A truly marketable skill), is one example while a certain economics section caters almost exclusively to athletes. And how many of you are tired of waiting in line to get your books? Rejoice, salvation is at hand Just join the athletic program. You turn in your schedule card after registration and your books are picked up for you by bookstore employees.

Letters to the editor may be mailed to The UD, P.O. Box 4080, Texas Tech University, 79409, or delivered to The UD newsroom, second floor Journalism Building.

Athletics have their place, and some athletes are superior students. However, the present state of affairs displays a questionable ordering of priorities. Much of the money invested in athletics goes no further than the end of the season, whereas money invested in projects such as Crosbyton is money invested in the future. Which is more important?

Not just the students involved. Something should be done to correct the wrong that has occurred. Perhaps to replace the windshield and a special apology is the least that Mr. Putman deserves.

By supporting projects such as Crosbyton instead of questionable athletic programs, Texas Tech could become a leader in research for the future. After all, is not the future all we have left?

All interested students should send or take donations to Security National Bank, Lubbock, in care of Volunteers for Lubbock. Money received will go toward the replacement of Mr. Putman's windshield. All extra funds will reimburse volunteers for fuel used in their efforts.

**Robert Sandner
 LeAnn Binford
 Mark Cook**

To the editor:
 A special thanks should be given to the many volunteers that helped in the recent snowfall received in Lubbock. Many people put forth an extra effort, donating their time and vehicles to help transport medical personnel, blood donors and other people in need. The television and radio stations of Lubbock also did a good job keeping the public informed, as to school closings and requesting of transportation volunteers.

I offer a few observations of my own:
 • If one insists on pointing a finger, blame for the turbulent '70s lies with THAT decade's administration, not the present.
 • If Dirk really wants Tech to do well, he could do more than sit back and throw stones at the current coaches.
 • If it were not for the fact most people in Lubbock had, heretofore, thought Dirk was a "good ol' boy" himself, he probably would never have been elected mayor.
 • It would appear to this writer, the A-J's only purpose in printing the article was to allow Dirk a platform to vent bitterness. This nurtured, cancerous attitude toward the Tech administration has been building ever since his "good ol' boy" and buddy, Bobby Layne, was politely turned down for the head coaching job. WHEW Talk about sour grapes
 • So "Good Ol' Bobby Layne" has such a great reputation; all these friends in big places just waiting for Bobby's request to help Tech. What's the holdup? Just because he's not the coach doesn't mean he can't help.
 (Dirk ... Shame on you Are you so naive to believe SMU alums, Don Meredith and Doak Walker, or Alabama alum Joe Namath would forsake their own alma mater to help Bobby with Tech?)
 Finally, Dirk apologetically ended his article, saying it was his fervent hope that Jerry Moore and his staff make him look like an idiot this fall. Dirk already has taken care of that himself.
 The next time Dirk picks up his vitriolic pen for cartooning or journalistic purposes, perhaps he'll remember it is much easier to be critical than to correct. Nobody raises his own reputation by lowering others.
Steve Pitts

On Friday, when our car got stuck in the snow, we attempted to get help from the University Police since we were on the Tech campus. We explained to the officer that our car was stuck in front of Wall Hall and asked him to please inform the authorities that we would move it to a commuter lot the next morning. He said we had to move the vehicle then, and he refused even to send help. Refusing to show any degree of concern, he hung up.

We both were surprised and scared — surprised at the lack of concern exhibited by the officer on duty and scared of the prospect of getting stuck again and having to cross the campus in the dark. According to page 19 in the Texas Tech University catalog, the University Police are responsible for campus parking problems as well as the security of the campus community. The officer on duty met neither of his obligations.

Given the service we received from the Tech officer, we turned to the city police. Even though Tech is out of the city police department's ordinance, city officers came and pushed our car to the commuter lot and ensured our safe return to Wall Hall.

We are grateful to the city police for caring and for their assistance. We believe they can be depended upon. Again, we thank them.

**Marina Houghton
 Lisa Kay Nunn**

To the editor:
 We would like to express our most sincere appreciation to the Lubbock Police Department for their willingness to help us out of a frustrating situation and to indicate the lack of help received from the Texas Tech University police.

Monday night Channel 28 interviewed a man who helped in the volunteer effort. While transporting passengers to their residence and en route to taking several Tech students to donate blood, Joe Putman's vehicle was bombarded with ice and snowballs, by a large group of Tech students at the corner of 18th Street and Flint Avenue. As a result, the windshield was knocked inside the truck, endangering both the driver and his passengers.

This is no reward for anyone volunteering their time for others. This incident sheds a bad light on Texas Tech,

not just the students involved. Something should be done to correct the wrong that has occurred. Perhaps to replace the windshield and a special apology is the least that Mr. Putman deserves.

All interested students should send or take donations to Security National Bank, Lubbock, in care of Volunteers for Lubbock. Money received will go toward the replacement of Mr. Putman's windshield. All extra funds will reimburse volunteers for fuel used in their efforts.

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**Marina Houghton
 Lisa Kay Nunn**

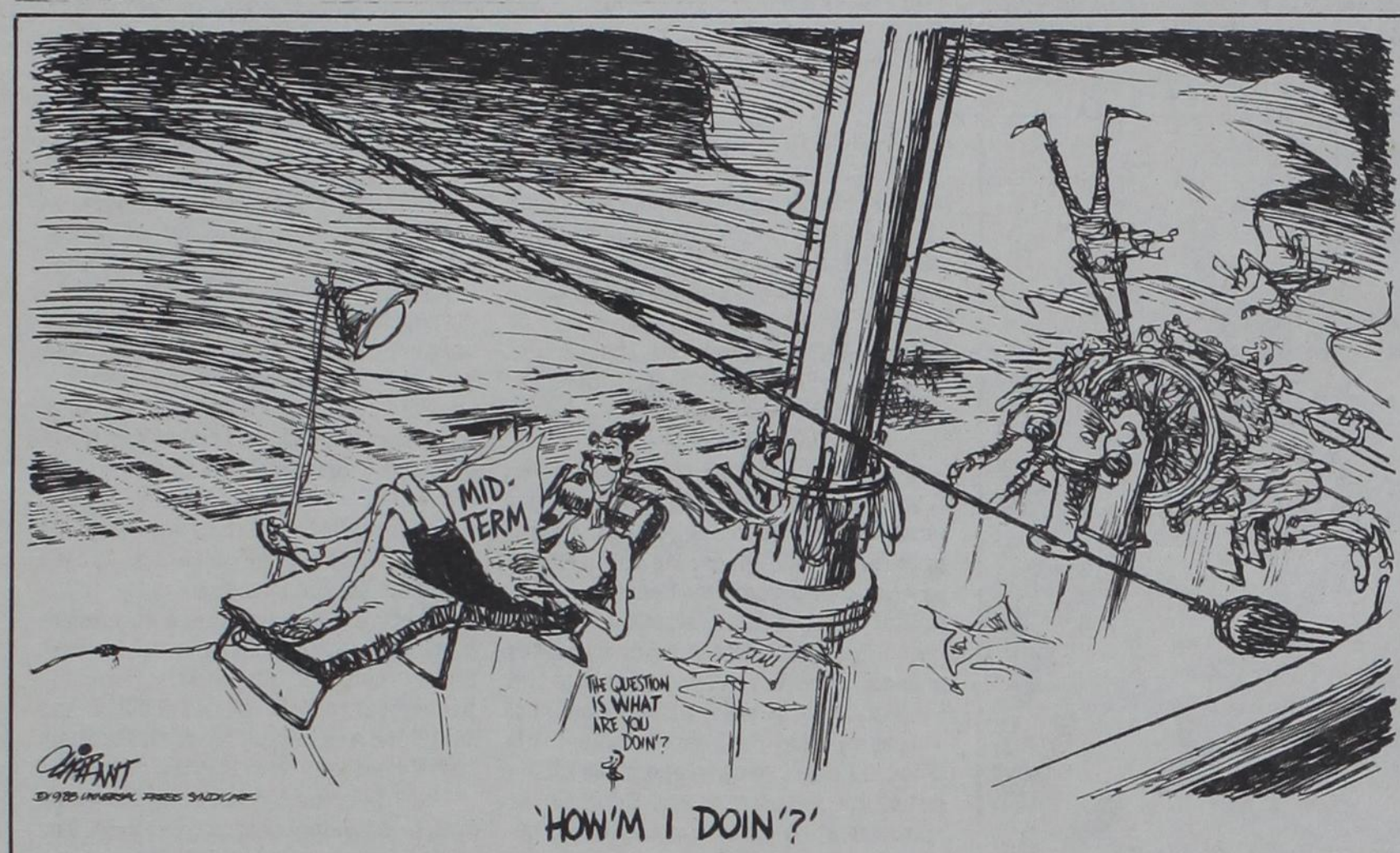
BLOOM COUNTY
 By Berke Breathed



HOTEL AMERICA
 By John Ambrosavage



VISITOR'S PASS
 By Marla Erwin



Military space race must be stopped

Kippie Hopper

Dramatic differences in the potential for destruction exist in a nuclear age.

Both the United States and the Soviet Union have embarked on major programs to turn space into the next battlefield. The military race in space, largely invisible to the general public, already has overshadowed peaceful exploration of outer space. Instead of peaceful exploration of space, both nations are spending billions to ensure the advantage on the future's next battleground.

The military exploitation of space will make the arms race of the past 20 years seem harmless. Before the military space race advances any further, the United States and the Soviet Union must agree to control weapons used in space.

"History teaches us that each time a new medium is opened to man it is exploited to gain a military advantage. The course of world affairs has repeatedly been altered by the nation which first grasped the advantages offered by developing the military potential of the newest medium," said Ronald H. Stivers, assistant deputy under secretary of defense for policy, in a recent New York Times article.

Already both the United States and the Soviet Union use space to communicate with their forces abroad (75 percent of all American long-haul military communications now are conducted via satellite) and to monitor the movement of foreign troops, naval vessels and ballistic-missile submarines. Electronic intelligence satellites keep watch for the heat flashes of missile launches from either a submarine or a land-based silo, monitor movements of mobile land-based missiles and intercept radio signals from missiles as well as the microwaves emitted by military radar and other electronic communications, according to military space officials.

"Space is not a mission, it is a place. It is a

theater of operations," said Lieut. Gen. Richard C. Henry, the deputy commander for the Defense Department's Space Command, in a recent New York Times article.

A key official in the military space program said U.S. space operations — especially military space shuttle operations — will be enlarged as the Reagan administration plans to increase spending for military uses of space more than 10 percent a year after taking into account the effects of inflation.

In the New York Times article, Robert S. Cooper, director of the Defense Advanced Research Projects Agency, said the Defense Department plans to spend "\$10.9 billion for shuttle-related developments, operations and transition costs to accommodate 20 defense shuttle launches" through 1987.

Reagan has outlined a policy for U.S. space operations. In a directive issued minutes after the shuttle Columbia touched down July 4, 1982, Reagan said, "The United States will pursue activities in space in support of its right to self-defense."

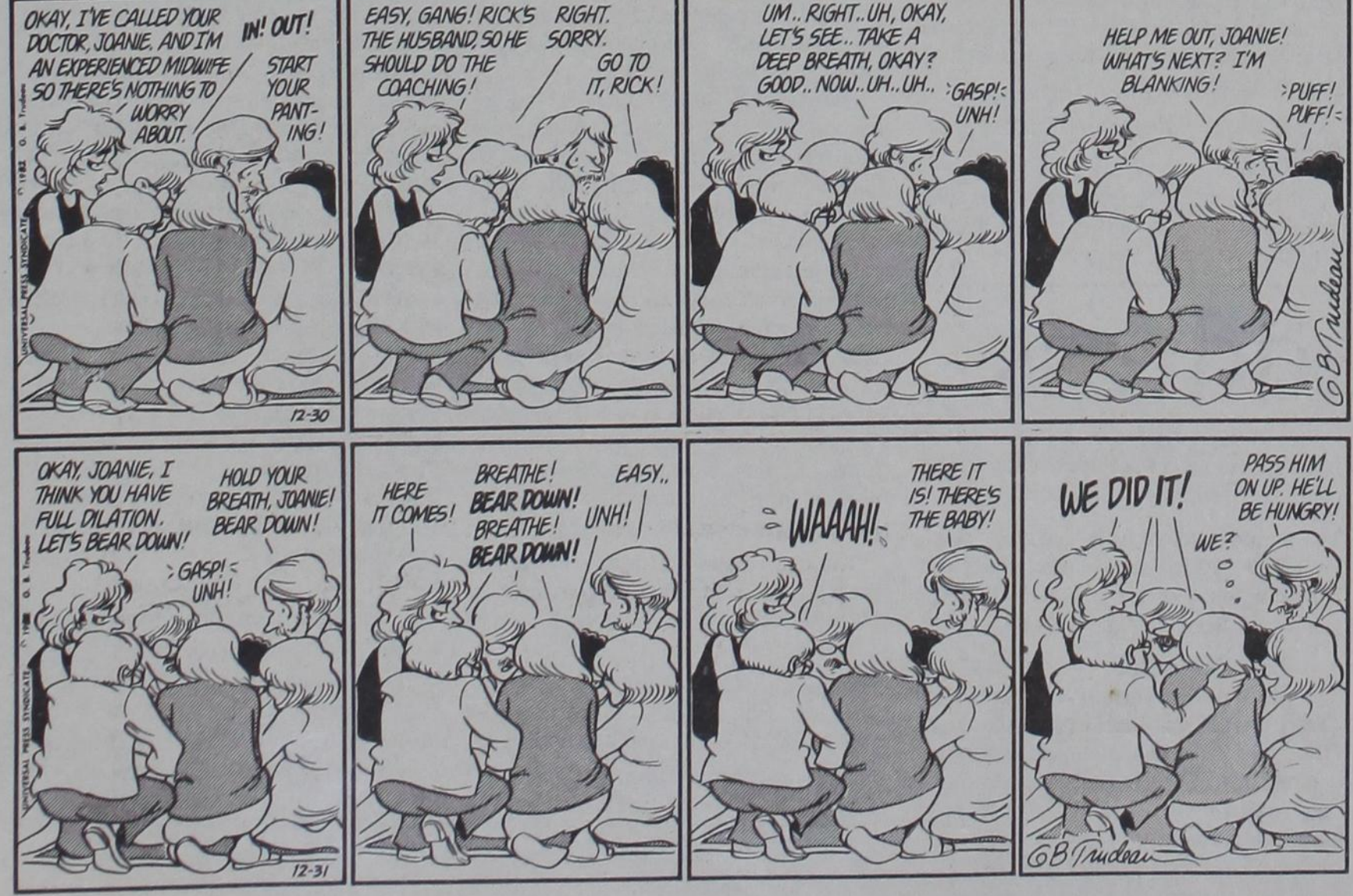
Administration officials insist that weapons are not to be deployed in orbit. But, research and planning related to space weaponry continues to be pursued.

And, the Reagan administration has asked Congress for a 37 percent increase — more than \$10 billion — in the amount of money earmarked for research and development of space-based weapons.

But, a resolution calling on Reagan immediately to open negotiations with the Russians on banning space weapons has been signed by 43 Democrats and Republicans in the House.

A comprehensive arms-control agreement should be made between Washington and Moscow to ban all space-based weapons systems — before the nuclear madness extends to even more dangerous battlefields.

DOONESBURY
 By Garry Trudeau



Supreme Court to decide on death penalty appeals

By The Associated Press

HOUSTON — Attorney General Jim Mattox said Tuesday he believes no more U.S. inmates will be executed until the Supreme Court decides how to handle emergency appeals in death penalty cases.

But he also said he expects executions eventually to be frequent in Texas regardless of how the court rules on whether inmates are entitled to a full federal habeas corpus appeal.

"I believe the executions could start taking place every six to eight weeks, or perhaps more quickly," Mattox said.

The high court granted a stay of execution for Thomas Andy Barefoot Monday, less than 12 hours before his scheduled execution. The court said it wanted to use the case to decide how emergency appeals in death penalty cases should be handled.

The court scheduled a hearing in the case for April 26, but the decision is not expected until July.

At issue is whether inmates are entitled to have a federal appeals court rule on the merits of their appeals before they are executed.

When Charlie Brooks Jr. was executed in Huntsville Dec. 7, the 5th U.S. Circuit Court of Appeals had not ruled on his formal appeal. The court had taken the position that it would postpone scheduled executions only if there was a good chance the

appeal would succeed.

Barefoot's appeal was in the same position. The 5th Circuit last week denied his request for a stay, saying it saw no legal grounds for blocking it.

If he had been executed, the appeals court never would have ruled on the formal appeal.

Assistant Attorney General Doug Becker said none of the Texas inmates now under sentence of death has had a full federal habeas corpus appeal.

The one that has gone the farthest toward that is the case of Ronald Clark O'Bryan, dubbed the "Candy Man" for killing his son with poisoned Halloween candy. O'Bryan's case was to be heard by the 5th Circuit Tuesday, though a ruling is not expected for weeks.

In a federal habeas corpus appeal, a conviction or sentence is challenged on grounds that a federal constitutional right was violated.

Before the appeal reaches that stage, inmates have two other avenues: a direct appeal to the state's highest court, and then to the Supreme Court, and a state habeas corpus appeal, which also can reach the Supreme Court.

Becker and Mattox said it is conceivable a Texas inmate could be executed before the Supreme Court ruling in the Barefoot case, if the inmate is in a "procedural position" different from that of Barefoot and Brooks.

Becker gave as an example the Charles Rumbaugh case. Rumbaugh told a judge he

wanted to go ahead with his execution, but the inmate's parents obtained a stay after arguing Rumbaugh was mentally incompetent when he made the request.

If Rumbaugh is ruled competent to waive appeals, there would be nothing in the Supreme Court action Monday to block his execution.

Rumbaugh was convicted of killing a jewelry store operator. He has said he hopes to prove he was insane at the time of the killing.

Of the 169 inmates with death sentences in Texas, three have execution dates: Henry Porter, Feb. 10, for murdering a Fort Worth policeman; James David Autry, Feb. 21, for murdering a clerk in Port Arthur; and Leon R. King, March 13, for beating a man to death after abducting him in Houston.

Becker said the state will not oppose requests for stays of execution in those cases until the Supreme Court rules in the Barefoot case.

Barefoot, convicted of killing a Harker Heights policeman, would have been the second inmate executed in Texas since 1964 and the seventh executed in the United States since the Supreme Court reinstated the death penalty in 1976.

Mattox said he believes the Supreme Court should have used the Brooks case instead of the Barefoot case if it thought it proper to halt an execution while figuring out how to handle the emergency appeals.

NEWS BRIEFS

Widespread use of heart unsure

SALT LAKE CITY (AP) — Barney Clark's progress has been too uneven to justify widespread use of permanent artificial hearts, and his doctors have no idea when he will be able to leave the hospital, physicians said Tuesday.

"He's made good progress up through the first 30 or 40 days, and made undulating progress since then," Dr. Chase Peterson said Tuesday of Clark, 62, who was in his 55th day with the Jarvik-7 heart implanted Dec. 2.

Peterson, in a scheduled news briefing on Clark's condition, said his doctors have mixed views about the success of the historic implant. Peterson was asked if he believed the surgery had been clinically successful.

"Not yet. At the moment, he has not made enough progress to justify this kind of procedure in multiple patients," said Peterson, University of Utah vice president for health sciences. He said that doctors did not know when Clark would be strong enough to go home.

Chemical explosion kills four

LEHI, Utah (AP) — A fiery explosion demolished a building at an Ireco Chemical Co. plant southwest of Lehi Tuesday, killing four people, authorities said.

Ralph Coomes, a dispatcher for the Utah County sheriff's office, said the four unidentified people were working inside the building at the time of the 11:50 a.m. explosion, and all were killed.

Authorities had not determined the cause of the blast.

Two teens attempt suicide

EVANSVILLE, Ind. (AP) — Two teen-agers apparently tried to commit suicide early Tuesday because their parents would not let them date each other, Evansville police said.

Kevin Fleming, 19, of Newburgh, was listed in critical condition in the surgical intensive care unit of St. Mary's Medical Center, and Lisa Reed, 14, of Chandler was in fair condition, spokeswoman Barbara Doss said.

The pair shot themselves with a .22-caliber rifle at 4:30 a.m. and "laid down to die together," Evansville Police Cpl. Larry Qualls said.

Qualls said the gunshot wounds were not critical, and after about 90 minutes the couple called Fleming's parents to seek help.

United States, Russia disagree on arms talk future

By The Associated Press

GENEVA, Switzerland — U.S. arms negotiator Paul H. Nitze said Tuesday the United States is "not locked into the zero option" in talks with the Soviet Union on reducing intermediate-range nuclear missiles in Europe.

His Soviet counterpart, meanwhile, warned that time was running out for reaching a settlement at the Geneva talks, which are to resume Thursday after a two-month recess.

Nitze, in response to a reporter's question, said he "certainly is not locked into the zero option," under which the United States has proposed the elimination of European-based nuclear missiles. "We are prepared to examine every kind of proposal that secures the security interests of our NATO allies as well as ourselves," he said.

But he said in prepared remarks on his arrival that in recent talks with Reagan "the president reaffirmed his con-

settlement. Andropov proposed reducing the Soviets' medium-range nuclear arsenal to 162 units, a level that he said corresponds to the size of older, independent British and French nuclear forces.

The Soviet army newspaper Red Star Tuesday repeated the proposal, and West German Chancellor Helmut Kohl, in an interview with a German newspaper, called the idea "absolutely unacceptable."

Kohl, in an interview with an Ulm newspaper, was quoted as saying he backed the zero option as the best possible outcome of the Geneva talks.

However, Kvitinsky said, "The time is approaching when a choice will have to be made between an agreement on joint steps to reduce the level of nuclear confrontation, or a new round of the arms race."

Appointments pass first senate vote

By The Associated Press

AUSTIN — Two major appointments by former Republican Gov. Bill Clements passed their first test Tuesday although two Democratic senators showed dissatisfaction with one by not voting.

The appointment of Lufkin lawyer John Stover to the Texas Water Commission was approved 7-0. The appointment of James Conner, a petroleum engineer from Marshall, to the Texas Board of Human Resources was approved 5-0.

Sens. Chet Brooks of Pasadena and Lloyd Doggett of Austin voted "present" on Conner's appointment.

Stover and Conner still must be confirmed by the 31-member Senate. Confirmation requires approval by two-thirds of those present.

The first votes on appointments by the Senate Nominations Subcommittee this session came after chairman Ed Howard retained full authority to waive the appearances of nominees.

Doggett challenged Howard's power with an amendment that would have required a nominee to appear at a public hearing if any senator requested in writing that the nominee appear. The amendment failed 4-3.

"I just don't want a rule that says I have to do it (grant a hearing)," said Howard, D-Texas.

Doggett asked Stover how he felt about a possible restriction against waste discharges in lakes such as Austin and Travis that are the only sources of the city of Austin's drinking water supply, and Stover replied, "It's not only a good idea (to prohibit discharges), it's a very popular idea."

Brooks asked Conner, who has been on the

Board of Human Resources since February 1982, how the board could provide "essential (welfare) services during a time of declining revenue."

"The best we can do is to ensure equity, and I'm not sure we do that, but we try," Conner replied.

Brooks, chairman of the Committee on Health and Human Resources, said, "Sadly, it seems to me the board has failed miserably" in providing "alternative, less-expensive" welfare care.

Conner said foster care payments are "ridiculously low," but utility payments for low-income people are too high. In the 1982 fiscal year, \$37.1 million was spent on the home energy assistance program, and Conner said perhaps the program was designed for the Northeast. "I don't think it's appropriate for Texas," he said.

Conner said he questions whether monthly payments for Aid to Families with Dependent Children — \$34.51 per recipient — are enough to raise a child, but said the total spent on AFDC — approximately \$140 million a year — "is an awful lot of money. Why can't it be more efficient?"

Later, Doggett said Conner "didn't seem all that sensitive on social services issues." He said he had not decided whether to vote against Conner's confirmation.

Brooks also said he had not made up his mind how to vote on Conner's appointment. "There's a real question about his sensitivity and knowledge of the programs," Brooks said.

He said he expected a Senate vote Thursday, and said, "I'll try to get some real good background before then."

Cyanide traces found in water as threats force official shutoff

By The Associated Press

HAMMOND, La. — Harmless traces of cyanide were found in the water supply in Hammond Tuesday, while a continuing rash of anonymous threats prompted officials to turn off the taps in four more Louisiana towns.

Health officials said they could not tell whether cyanide found in the Hammond water was a naturally occurring trace of the substance or had been introduced deliberately.

Since the first threat last Thursday in St. Gabriel, more than 30 telephone calls have been received across Louisiana warning of poisoning in public waterworks. The tapwater for at least 220,000 residents has been disrupted.

The calls — many presumably from "copycats" — prompted state officials Tuesday to urge local officials to keep the water flowing unless tests found it to be

contaminated.

Hammond Mayor Debbie Pope said cyanide traces at harmless levels were detected in her city's water system after samples were sent to West Payne Laboratories in Baton Rouge.

But she said laboratory officials told her "an individual would have to drink about a swimming pool full to kill himself."

David Strecker, a chemist with the laboratories who tested the Hammond sample, said the cyanide could have been caused by nature.

"Cyanide does occur naturally in trace levels, but it's hard to make a comparison," he said. "We can't make any determinations at this point whether it was introduced by a person."

The state Department of Health and Human Resources, which is testing water from several other threatened systems, plans to examine Hammond's water as well.

Only in Hammond has testing detected any cyanide, state officials said.

Leakage in shuttle sets delay in launch

By The Associated Press

CAPE CANAVERAL, Fla. — Another hydrogen leak detected in a second test-firing of space shuttle Challenger's main engines will delay its late February launch date at least "several weeks," a top space agency official said Tuesday.

"I think the launch date at the end of February is not achievable," said Lt. Gen. James A. Abrahamson, head of the shuttle program for the National Aeronautics and Space Administration.

Abrahamson told reporters at Kennedy Space Center that Tuesday's 20-second firing of the new shuttle's three main engines had disclosed leakage from at least one of the engines.

The start of Challenger's five-day mission could be delayed much longer — possibly a month or more — if one or more of the engines has to be removed from the shuttle, test-fired and replaced, he said.

This could affect future shuttle missions, including those destined to carry new NASA communications satellites and Spacelab, a European-built scientific laboratory.

The full extent of the problem will not be known until all the data is analyzed and engineers have a chance to get into the engine room.

"We are not prepared (now) to go ahead and load the payload nor set a date" for Challenger's maiden mission, Abrahamson told reporters at a briefing following.

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New form of insulin developed for allergic diabetes

By BECKY HOLMES
University Daily Reporter

A new form of insulin, a synthetic replica of insulin produced by the human body, has been developed for diabetics who are allergic to the animal-produced insulin, said Dr. Carlos E. Menendez, endocrinologist and assistant professor of internal medicine at the Texas Tech University Health Sciences Center.

Called Humulin, the new

drug is made with duplicated human genes and differs from insulin products now on the market, all made from swine and cattle cells.

Although not yet on the market, Humulin has been approved by the U.S. Food and Drug Administration and can be mass-produced in laboratories.

"I think the new insulin will be more readily accepted by the body," Menendez said. "Since the 1920s diabetics

have been putting animal protein in their bodies and getting away with it. They've been very lucky."

One of the first physicians in West Texas to treat a patient with the new medication, Menendez said eventually he would like to see Humulin become less expensive than the insulin now on the market.

"Initially, human insulin will be 20 percent more expensive than animal-based insulin," Menendez said.

Diabetes causes the body to make poor use of sugar. Under normal circumstances, a hormone secreted by the pancreas produces insulin and helps the body burn sugar and provide energy.

When the pancreas does not produce enough insulin, excessive amounts of sugar build up in the blood, upsetting body chemistry.

"There are two categories of diabetes," Menendez said. "Juvenile-type diabetes, also

called insulin-dependent diabetes, occurs in children, adolescents and young adults. Maturity-type diabetes, or non-insulin-dependent diabetes, occurs in adults."

Ninety percent of diabetics have maturity-type diabetes, generally considered the less-severe form of diabetes. Heredity greatly influences this type of diabetes, Menendez said.

Juvenile-type diabetes can reduce the average life span by one-third, though more information which possibly could extend life expectancy is now known about the disorder.

Diabetics sometimes can control the disease with the proper diet. However, many diabetics must depend on one to three daily insulin injections, Menendez said.

Every year more people develop diabetes, Menendez said.

"As we become an older, more obese, sit-at-the-desk type of society, cases of diabetes will increase," Menendez said.

Any excess amount of body fat reduces the effectiveness of insulin. Therefore, it is dangerous for a diabetic to become overweight. Sugar can be lethal for diabetics, but saccharin may be consumed.

Production of human-type insulin is a major medical breakthrough for 10.3 million diabetics in the United States, Menendez said.

Humulin was developed for sale as a nonprescription drug by Eli Lilly and Co., a pharmaceuticals producer. In 1980 the company began clinical testing of Humulin and recently distributed Humulin to medical centers across the country for trial use.

Humulin can be used to treat approximately 8 percent of the world's 70 million diabetics who are allergic to animal-based insulin.

"The development of human insulin is tremendously exciting," Menendez said. "But human insulin isn't the missing link we need. It won't be the cure for diabetes."

CAMPUS BRIEFS

Council pays tuition for freshman

Plano freshman Carolyn Kamps had her tuition and fees for the spring semester paid by the Texas Tech University Freshman Council (TTUFC) as winner of a drawing in December.

TTUFC public relations committee chairman Mike Callahan said the TTUFC sold Double T window stickers and furnished applications for the drawing last fall. The TTUFC made \$135 profit from the project.

The drawing took place Dec. 9 in the University Center.

MIA-POW memorial service set

A memorial service sponsored by the Texas Tech University Operation MIA/POW will take place Thursday in the University Center Lubbock Room to benefit the cause of those American prisoners of war and missing in action still imprisoned or unaccounted for as a result of the Vietnam War.

The event features guest speaker Joseph Doyle, president of Operation MIA/POW. The public is invited to attend.

Research center trustees named

Pat D. Taylor, Texas Tech University director of development, and Elo J. Urbanovsky, Horn professor emeritus of park administration, have been named trustees for the newly created National Wildflower Research Center in Austin.

The center will study ways to incorporate wildflowers and grasses into landscapes around industrial parks, civic parks, highway rights-of-way and residential yards.

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MOMENT'S NOTICE

Persons who want to place a Moment's Notice in The University Daily should come to the UD newsroom, second floor Journalism Building, and fill out a form for EACH DAY THE NOTICE IS TO APPEAR. Notices of meetings will run twice, the day before the meeting and the day of the meeting. Notices concerning applications will run three times, two days before the accepting or due date and the day of the accepting or due date.

PREPARING FOR INTERVIEWS
The Career Planning & Placement Service will conduct a seminar on "How to Prepare for the On-Campus Interview" from 1:30-2:30 p.m. today and Thursday in 170 BA.

ORIENTATION AIDES
Applications for orientation aides for 1983 are available in 250 West Hall, and are due by Friday. Applicants must have completed two long semesters at Tech with a minimum 2.5 GPA.

SCSA
SCSA - Range and Wildlife Club will meet at 7 p.m. Thursday in 101 Goddard Range & Wildlife Building. Club pictures will be taken at this time.

ACS-SA
The American Chemical Society - Student Affiliate will meet at 6 p.m. today in 101 Chemistry.

COLLEGIATE 4-H
Collegiate 4-H will meet at 7:30 p.m. Thursday in 311 Ag.

ALPHA ZETA
Alpha Zeta members will meet at 7:30 p.m. today in the Ag Auditorium.

ORDER OF OMEGA
The Omega Society will meet at 7:30 p.m. today at the Kappa Kappa Gamma Lodge.

AED
AED officers will meet at 6 p.m. Thursday in 105 Biology. All members are welcome to attend. Applications for membership are due by Feb. 3.

RAIDER RECRUITERS
The Raider Recruiters will meet at 6:15 p.m. today in the athletic offices by the Stadium.

ALPHA KAPPA PSI
Alpha Kappa Psi will have a Rush Smoker at 8 p.m. today in the BA Rotunda. All BA and Eco. majors are welcome. Business attire is requested.

FASHION BOARD
The Fashion Board will have an executive meeting at 5:45 p.m. today. A regular meeting will follow at 6:30 p.m. in 160 Home Ec.

TIMETTES
The Timettes will meet at 6 p.m. today in the Lettermen's Lounge.

MORTAR BOARD
Mortar Board will meet at 7 p.m. today in 301 Home Ec.

LAW CAUCUS
The Texas Tech Law School will have a caucus at 12:30 p.m. today in 201 Law School. Professor Shane will speak on the Texas ERA.

ARTS & SCIENCES COUNCIL
Arts & Sciences Council will meet at 5:30 p.m. today in 6 Holden Hall.

DELTA SIGMA THETA
Delta Sigma Theta Sorority invites all interested girls to attend their open Rush Party at 7:30 p.m. Thursday in the UC Mesa Room.

NATIVE AMERICAN COUNCIL
Native American Council will meet at 8 p.m. Thursday in 204 UC.

TECH MARKETING ASSOCIATION
Tech Marketing Association will meet at 7:30 p.m. today in 358 BA. Dues will be collected.

OPEN RUSH
Girls interested in Open Rush, please telephone the Panhellenic Office at 742-2192.

PASS
PASS will sponsor the Study Skills Group, "Improving Writing Skills" at 3 p.m. today, and "Improving Reading Comprehension" at 7 p.m. today in the southwest corner basement of the Administration Building.

STUDENT ORGANIZATION FOR BLACK UNITY
Applications for the Miss Black Texas Tech Pageant may be obtained today in 250 West Hall.

TEXAS TECH CYCLING CLUB
The Cycling Club will meet at 8:30 p.m. today in the Rec Center, upper level.

BA COUNCIL
BA Council will meet at 6:30 p.m. today in 169 BA. All members must attend.

MORTAR BOARD
Applications for Mortar Board are available in 250 West Hall. All students with 96 hours completed by fall 1983, an overall GPA of 3.00, and graduation date no earlier than December 1983 may apply. Applications are due at 5 p.m. Friday.

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'Kiss your family life goodbye'

Rewards abound for the police officer — but demands are just as abundant

By **TIM McKEOWN**
University Daily Reporter

"It's a job that's giving in a lot of ways, but it's also a job that demands something from you."

In perhaps an understatement, Bill Morgan, public information officer for the Lubbock Police Department, summarized the job of a police officer.

The rewards of the job are easily identified: the prestige of having the occupation dreamed of by almost every child, a sense of accomplishing something worthwhile, and a good starting salary with guaranteed salary raises for the first five years.

Morgan is sold on the police officer's life. "How many other places could you go to work at age 21 with a starting (monthly) salary of \$1,274 with only a high school diploma?" he said.

But the demands placed on police officers are equally great and, in some cases, greater than the rewards.

Frank Treadway, training officer at the Lubbock Police

Academy, said the officers' families are the first to suffer.

"We lose a lot of officers for family reasons. The family often can't adjust to the time schedules," Treadway said.

"There are other reasons, too, like discouragement with police work as a whole, but (the reason why officers quit) is mainly because of the family," Treadway said. "That's why you see police officers with one of the highest divorce rates."

In August 1982, the Lubbock Police Department reorganized its police patrol to increase the patrol during the peak crime hours by 50 percent.

While the reorganization move was praised by department officials and Lubbock Mayor Bill McAlister, many of the officers and their families began to cry out.

At least one police officer, a 12-year police veteran, complained about the new system. The officer asked to remain unidentified. He said for at least six months out of the year he would not be able to see his wife due to conflicting work schedules.

"You can kiss your family life goodbye," the officer said.

Despite the initial objections, only one officer has resigned because of the new patrol schedules.

"We've had four people leave (the police force). One went to become a farmer, one returned to college and two are now in business for themselves. Only one officer who put in his resignation complained about the new shifts," Morgan said.

There are four patrol shifts in the department, three of them rotating every 28 days. The fourth shift, called the "flex shift," is made up of approximately 30 officers who work from 7 p.m. to 3 a.m. on a permanent basis.

The flex shift was created to handle the increase of crimes reported during evening and early morning hours.

Most officers like the rotating shifts because it keeps the job from becoming boring, Treadway said.

Treadway said shift one, from 7 a.m. to 3 p.m., is the most popular shift, especially among the older officers. Shift two is from 3 to 11 p.m., and shift four is from 11 p.m. to 7 a.m.

Before entering the police department, potential officers must

graduate from the Police Academy. Gaining admittance to the academy is a complex task and requires persistence.

Candidates for the academy must first take a written exam testing reading and writing skills. Step two is a physical agility test consisting of an obstacle course designed to simulate the actual work environment.

Candidates' names then are put on the eligibility list and an investigation is made of their background.

Potential officers are called before an oral interview board, followed by a polygraph test and a physical examination. If candidates pass all the steps they are then eligible for admittance to the Police Academy.

The academy itself is demanding, Morgan said, and some potential officers are unable to take it seriously. For example, only three unexcused tardies are allowed before dismissal.

During the first year of active duty, many officers quit because of burnout, job hours or inability to work with people, Morgan said.

Pope signs new set of church canons

By **The Associated Press**

obligatory two days a year instead of 10.

VATICAN CITY — Pope John Paul II gave Roman Catholics a new code of church laws Tuesday that probably lengthens the process of annulments for Americans, opens more administrative posts to women and makes Mass attendance

The first revision of the church's laws in 66 years also reduces the grounds for automatic excommunication from 37 to seven, including abortion, and incorporates the current pope's strong views against the involvement of priests and nuns in politics.

'Ma Bell' facelift will affect consumer

By **KENT PINGEL**
University Daily Lifestyles Writer

Once in a great while the rules and regulations that made America great seem to backfire in our faces. One such quirk in the system deals with the antitrust suit filed against American Telephone and Telegraph (AT&T) back in 1974.

After much publicity surrounding the case, AT&T and the Department of Justice signed a consent decree and the antitrust suit was dropped.

The decree was designed to increase com-

petition in the marketplace and do away with any existing monopolies in the telecommunications industry.

Although basic principles of the American competitive system have been upheld, once again the consumer will pick up the tab.

As a result of the case, American Bell has been formed to operate the Phone Center stores. This action will transfer local telephone equipment sales from Southwestern Bell to the newly-formed subsidiary of AT&T.

Prices of equipment will be designated by competition in the marketplace. Customers will be able to purchase equipment from any

available source to use with the basic access service of the Bell system.

Phillip Bode, staff manager of public relations for the Lubbock branch of Southwestern Bell, said the prices of telephone equipment and long distance calling will be competitive with other communications companies. He said the Federal Communications Commission (FCC) will regulate long-distance usage of the telecommunications network to some extent.

"The telephone or telecommunications company, such as Southwestern Bell, will be more like a utilities company, like the light company," Bode said.

"We will provide our access line to the telecommunications network to make our money. What you plug into the network is up to you," Bode said.

The biggest drawback to the change in the system from the consumers point of view will be the justifiable increase in basic service rates.

The Public Utilities Commission already has ruled in favor of the telephone company's request to hike basic service rates, because of the enormous costs involved in providing such a service.

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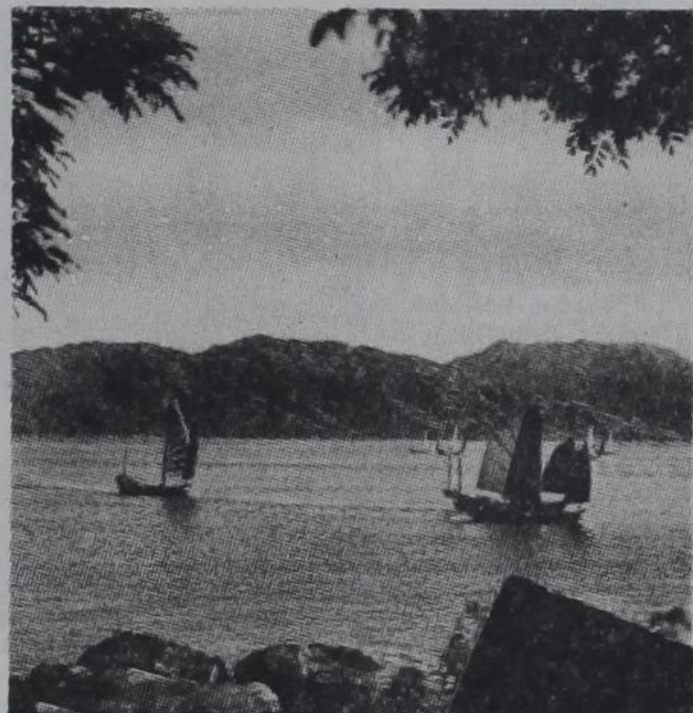
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One of life's great adventures

The family fridge: it's what's up front that counts

©1982 N.Y. Times News Service

NEW YORK — By looking at other people's refrigerators, Judy Waldinger can spot a troubled marriage, a home in need of a top-to-bottom cleaning, a family that pays the bills on time and a household in which the residents are struggling with their self-image and self-esteem.

Waldinger, a housewife in Westbury, N.Y., pays no attention to whether what is in her friends' refrigerators is pate di foie gras or ground chuck. In fact, she never opens the door.

What counts is what's on the door — the enamel billboard that is, in many suburban homes, a communications center and art gallery. With memos and magnets to hold whatever in place, refrigerator doors can be transformed into a microcosm of a household. The doors can look as if they belong in the Louvre or on the set of "Sesame Street" or are a kind of a public post-office box where anyone can read anyone else's messages.

"The refrigerator is a central place where everyone will go on point or another in the life cycle of any house," said Suzanne Keller, a sociology professor at Princeton University. "People put things there that show love, feeling and caring. It's a nurturant symbol, whether it nurtures the psyche or the soul or the body."

If you are what you eat, what you put on your refrigerator probably reflects what you would like to be. That is why many refrigerator doors exhort the mind to nurture the body a little less. Waldinger, who goes to the Weight Watchers sessions, has a small magnet that says "Think Thin."

But other people are unconcerned that any resemblance between a refrigerator's exterior and its interior will trigger a lapse in dietary discipline. Keller, for example, posted a photograph in *Gourmet* magazine.

"Well, you don't have to eat food to enjoy it," she said. "It's

the esthetics — pleasure, laughter, the projection of yourself. Central places are designed to function as communications links, right? And I'm taking for granted that that's the place you'll put messages that are important."

Refrigerator messages take on special importance in households where they are the only communications between husband and wife. Ed Walker, a third-year medical student at the University of Washington in Seattle, often is assigned to overnight hospital duty. That means he may go two or three days without seeing his wife, Stephanie Read, a graduate student in social work.

Walker and Read keep in touch via the refrigerator and compensate for what he says is the brevity and relative formality of their communiques by using their nicknames for each other. She scribbles her notes to "Bear" and he salutes her as "Cat."

"It's the forum for communication," he said. "Our notes are short and informational, but just the fact that they're there means there's emotion in them, too. Sometimes we put up the mail if there's something we want to make sure we both see, but no bills — they're too threatening."

In homes with children, what is on the refrigerator becomes a fundamental part of the family-activity cycle. The refrigerator in Ilene Buam's kitchen in Westbury N.Y., is a showcase for schedules — her children's soccer practice dates, school menus, two sets of church school schedules, car-pool lists, her bowling league playoff dates, the baby sitter's calendar.

"It's support for our children," said her husband, David. "We depend on it so we can plan our Saturdays to be at soccer games. And it's important from the children's perspective because their things hang up there with Mommy's stuff."

A few blocks away, Rosemary Croteau's refrigerator is an academic hall of fame for her 9-year-old daughter, Dora Ann. "Only her best papers go up," Croteau said. "Never the poorer."

That underscores what Keller says is a common characteristic of refrigerator postings — they never involve anything negative. "You get food there, and from a child's earliest days that's a positive thing," she said. "The embellishments continue the theme of making you feel good."

Children's paintings usually are posted for the same reason, and in some households, the painters guard their turf fiercely. Waldinger's 9-year-old daughter, Melissa, said the best place is near the top of the refrigerator door because items placed lower more likely are to be brushed off by marauding younger brothers.

But when Judy Alreuter was a Princeton undergraduate, there was no chance that the art on her refrigerator ever would reach the floor. She painted the art on the refrigerator.

Alreuter and her roommate copied Monet's "The Fifer" on the door of her refrigerator, which had been orange. "I liked Monet," Alreuter said, "but that wasn't particularly why we chose that one. It just happened to be the right shape for the refrigerator."

In fact, Monet seems to be a popular refrigerator artist. On Abby Kenigsberg's refrigerator in Syosset, N.Y., is a reproduction of "Un Dejeuner sur l'Herbe," a scene showing two Edwardian gentlemen at a picnic with a nude woman.

"It's pretty risqué, but it's a Victorian risqué," Kenigsberg said. "If I want something that's not risqué I just wouldn't put anything up there. White enamel is lovely by itself, but if you're going to improve on it you might as well go whole hog. This one is marvelous because it's a fantasy, and you're not quite sure whose."

Esthetics aside, Keller said, refrigerator art "is an easy way to do art, and it's removable."

"If you change wives or lovers, you change it," she said. "If you buy a painting, it's a big investment and if you paint the wall you can't change it as easily. This is instant and can fit your

mood. So, this year I'm into Martha Graham dancers and next year I can be into something different."

Waldinger, in explaining the microcosmology of refrigerators, said layout means a lot. "You can go into people's houses and if things are hanging in disarray on the refrigerator, the house is like that too, generally speaking," she said. In her neighborhood one family has an impeccably arranged refrigerator door. "If you walk 12 inches into that living room," Waldinger said, "they revacuum it."

The double doors on Waldinger's own refrigerator are well organized, but she said she is not a cleanliness fanatic. "It's neat here, but I'm not crazy," she said. "You can sit on the furniture, which will be here long after I'm gone."

Waldinger said an absence of items is a possible sign of marital stress. She can identify people with overdue bills by items such as unpaid milkman's bills — she has one herself.

Magnets also tell a lot about a household. Big Bird, Oscar the Grouch and their pals parade across refrigerator after refrigerator, even in homes whose children have long since graduated from Sesame Street, with the result that magnet manufacturing has become a multimillion-dollar business.

One company, Iwasaki Corp. of Torrance, Calif., sells a million magnets annually in 15 jumbo varieties (\$6 each at some hardware stores in the New York metropolitan area) and 34 smaller ones (\$4). Iwasaki's total magnet sales were about \$1.6 million last year, according to Gary Northrop, an Iwasaki executive.

The company, which makes full-size plastic "replica foods" for sale in Japan, where restaurants display food rather than describe it on menus, got into the magnet business by accident. "Four years ago, somebody went in the back here and put key rings on some of our regular food items," Northrop said. "They sold like crazy, and we said if key rings work, why not magnets?"

Bogus cop busted

Arrest may scare off El Paso imitators

By The Associated Press

EL PASO — The arrest of a man charged with impersonating an officer might scare off impostors who have posed as El Paso patrolmen to con motorists into paying phony traffic fines on the spot, police said Tuesday.

But the arrest of Manuel Vasquez Hernandez Jr., 34, being held in El Paso County Jail in lieu of \$10,000 bail, could be a false alarm, Lt. Eddie Agan said.

"We're not sure this is one of our bogus cops," he said. "This guy was driving a green and white car — the others drove vehicles that looked like ours."

A motorist whom Hernandez had stopped Tuesday morning also became suspicious because the phony officer wore no uniform and lacked identification. After the motorist called police, Hernandez was tracked to his home, where officers charged him with posing as an officer — a third-degree felony, Sgt. Douglas Gray said.

Eight times since Dec. 23, motorists have been stopped by men posing as El Paso police who charged them with traffic violations that could be paid off on the spot. Motorists have been duped out of \$778, police say.

"We hope this puts a stop to this," Gray said. "But we don't know if we have the right one yet."

Police, weary of the phony cops plaguing the West Texas city of 450,000, declined Tuesday to say the worst was over.

"In my gut, I just think this wasn't a bogus policeman — just someone who drank too much and hollered that he was a cop," Agan said. "Our guys are so jumpy about bogus cops now that we've got to be careful. The mood here makes anyone jumpy who claims to be a cop."

Police suspect at least two other men also have taken part as bogus cops, some of whom might have been former employees of the El Paso department, Agan said.

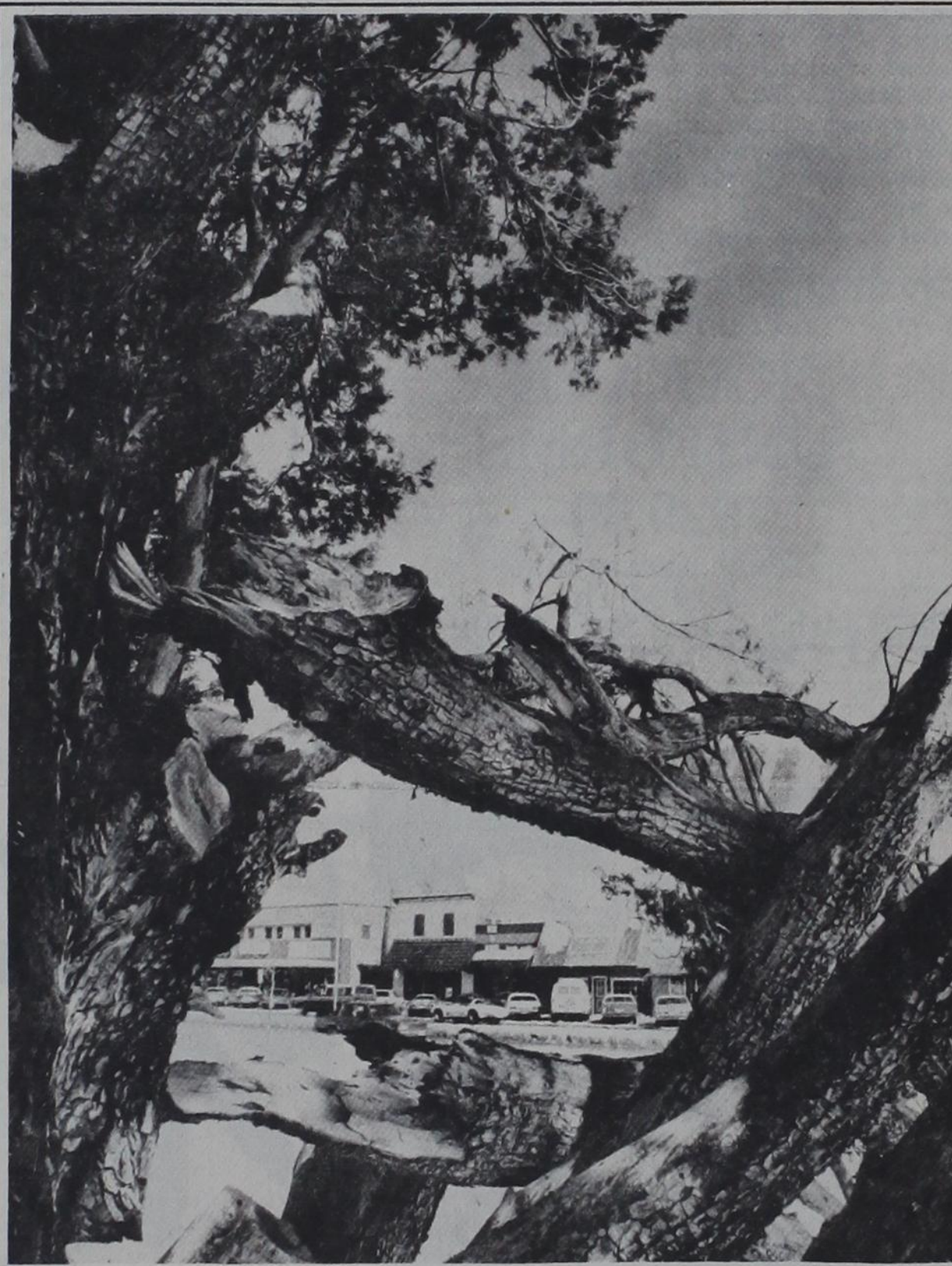
But the arrest of Hernandez finally may stop the phony policemen's con games.

"He tried to pawn himself off as a police officer. Now he's in jail," Gray said.

Police credit El Paso drivers with becoming increasingly more alert after reports surfaced that men posing as police and driving vehicles with flashing red lights were pulling over motorists and charging them with traffic violations.

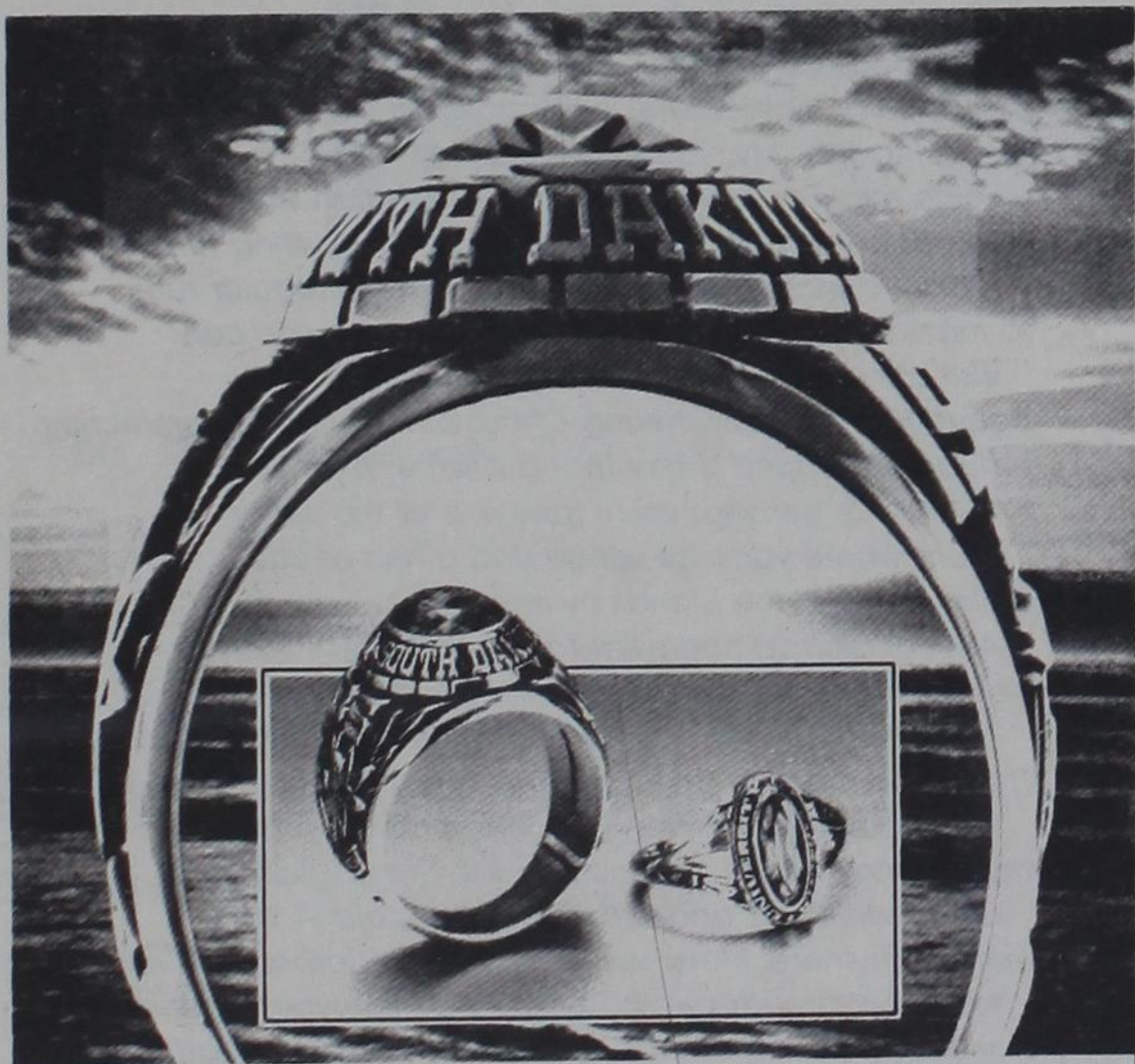
In one incident, a Juarez man lost his car keys, passport and \$600 when he was stopped on Interstate 10 by a man posing as a patrolman.

In another incident, a man urinating outside an El Paso bar had \$153 in cash and Mexican pesos taken when a counterfeit officer stopped him and supposedly searched his wallet for identification. Eddie Pallares said he did not discover the theft until he returned to the bar. By that time, the phony patrolman had fled.



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Chinese cooking methods shown

By JERRI McCRARY
University Daily Reporter

Making food formal is like trying to make love in a tuxedo, Ken Hom, a Chinese cooking school teacher, restaurant consultant and author, told a Texas Tech University food and nutrition class Tuesday.

As a part of Hong Kong Meets Lubbock Week, the 33-year-old first generation Chinese-American demonstrated his cooking techniques while sharing some of his wisdom with the class.

"Food is organic, sensuous and alive. It (food) should smell nice and feel firm," Hom said.

Spicy chicken and dark meat chicken with peppers were the Chinese delicacies for the day. As Hom blanched the chicken breast strips in peanut oil, he emphasized the need for keeping food costs down. The whole chicken will be used — from the skin for crackling in salads to the bones for soup. "A good chef knows about food and the economy," he said.

For the sauce, chili paste with garlic, wine, dry cherry, hot red peppers, chicken stock and garlic are added to the wok — no measurements necessary. "Garlic is what makes the world go around," he said.

But, Hom warns, never chop garlic ahead of time or the garlic will turn brown and bitter. If garlic must be chopped ahead of time, put the garlic in oil for sealing, he advised.

Color is an important aspect of food, Hom said. Scallion tops are added for a nice green color. "Food should look beautiful on its own rather than fake Mickey Mouse garnishes that no one will eat," he said.

Hom said he likes to eat and especially loves his own cooking. "It's important to constantly smell and taste what you're cooking. I'm suspicious of cooks who don't like to eat," he said.

A dash of sugar is added to balance the hotness of the chili peppers. And, finally, corn starch and chicken stock are added for thickness. "We don't want stir-fry slop," Hom said.

Food is universal, according to Hom. "Chinese cooking is just one aspect of food," he said. Hom is working on a book titled East-West Cuisine. The book will detail Hom's unique approach of combining Oriental and Western techni-

ques and ingredients.

Both of Hom's Chinese dishes were prepared with ingredients from Lubbock with much of the produce and spices purchased at The Oriental.

Hom is a teacher at the California Culinary Academy and has authored a best-selling book, Chinese Technique. He recently opened a cooking school in Hong Kong in collaboration with the Hong Kong Tourists Association.



Hong Kong Week

"A Glimpse of Hong Kong" ends today in the UC Courtyard with exhibitions, a slide show and demonstrations by Chinese Ribbon Dancers.



Cinematheque feature 'Gaslight'

Tonight's Cinematheque feature, "Gaslight," was directed by George Cukor. Cukor died Tuesday at the age of 83. Cukor is known for his direction of such movies as "The Philadelphia Story" and "Dinner at Eight." "Gaslight" stars Ingrid Bergman, Charles Boyer and Joseph Cotton. The Academy Award win-

ning thriller is the story of a young bride, Bergman, slowly being driven insane by her sinister husband. After the release of the film in 1944, "gaslighting" became a term used to mean devious manipulation. The Cukor film will be screened at 8 p.m. today in the University Center Theater.

Fractured family theme returns on television film

By The Associated Press

NEW YORK — Running Out is not a film about jogging. But tonight's CBS movie does capitalize on another craze — television's fascination with fractured families, in particular, stories having a parent run away for a decade or so and then drop by to say hello.

That same subject was covered quite well last month in CBS' Memories Never Die with Lindsay Wagner as the mother who left her family for psychiatric treatment and then the de-pressurized security of a mental hospital.

"When something works, TV can get very imitative," says Steve Mills, who heads CBS' TV movie department.

The missing mother routine returns tonight in Running Out. The wrinkle here is that Elisabeth St. Claire, played by Deborah Raffin got married at 15, had a baby at 16 and contracted a case of "Mommie Departest" four months later.

As we learn from Elisabeth, this strain of "reluctance responsibility" is not uncommon in teen-agers, burdened with harsh reality when they should be dreaming of sweet 16's, especially when they're married to young husbands who may not be running out but are running around.

Elisabeth — she was known as Lizzie then — abandoned Paul Corsini, played by Tony Bill, and their daughter, Jenny, played by Ari Meyers. She opted for Paris, where, in the intervening 12½ years, she found culture,

sophistication and some guilt over her trans-Atlantic double-cross.

Although she hasn't made any contact since defecting, Elisabeth is intent on re-establishing relations when she returns to New York for a short business trip. She's serving as an interpreter for a French businessman.

Meanwhile, her daughter, who isn't much younger than Lizzie was when she got married, has turned out fine. Jenny's father is caring, if not indulgent. He's already taught Jenny to drive. Among her legal pursuits, Jenny is quite good at the violin and is practicing for her first public recital.

Running Out deals with the untapped and unknown emotions that surface when Elisabeth visits the happy home now occupied by Paul, Jenny and, occasionally, Paul's girlfriend, Shelly, played by Toni Kalem, the actress who beat up Goldie Hawn in Private Benjamin.

Right away, there's Paul's anger and Jenny's curiosity, which all too quickly ripens into love for the mother she's never known. And there's remorse and regret from Elisabeth.

"I wanted to be a mother to you, but I didn't know how," she says during a mother-daughter jaunt through New York City.

This is one of the movie's many nice little moments that, alas, doesn't add up to the "Great Moments" the CBS slogan promises. The script is full of contrivances and an incredible, sappy ending that fine acting can't erase.

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Evolutionary leap in video equipment seen for '80s

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NEW YORK — With electronics getting smarter and friendlier every day, whether in the guise of personal computers or bionic organs, the friendly old television set has stayed essentially unchanged in this country since the advent of color broadcasting in the 1950s. But the technological lull may end during the decade of the '80s.

The change will be not so much a matter of program content — a social problem beyond technological considerations — as an evolutionary leap in equipment.

The most dramatic developments in the offing, foreshadowed by somewhat improved reception already available in Europe, will bring movie-quality images to the home television screen. The technological changes remain in the experimental stage. But most experts believe that enough progress has now been made so that, within the decade, television pictures will be transmitted for reception in homes, schools and business as refined as those projected from commercial 35-millimeter movie film.

And the facility will exist to project such pictures — in large size, clearly focused and with what the industry calls "high definition" — onto an ordinary living-room or classroom wall. For the most part, television engineers have learned how to make the necessary new equipment. The problems have been the cost and the fact that the industry has not been able to agree on general technical standards for high-definition television broadcasting. The new technology requires a much more information-packed signal than current broadcasting, and the television industry will have to move deftly — in competition

with other business and government users — if it is to obtain rights to the last available space in the spectrum of broadcast bands to handle this "larger" signal.

Will it be worth the trouble to hurdle these barriers? To a quiz-show watcher, perhaps not. But anyone who has seen 2001: A Space Odyssey on a movie screen and then on a 12-inch portable knows the impact of scale, its ability to induce a kind of awe and, in the process, greatly enhance enjoyment.

Since 1941 in the United States, a standard television picture has been created by 525 horizontally scanned lines displayed at 30 frames per second. (In 1967, European countries were able to take advantage of technical developments to adopt a somewhat higher standard, 625 lines.) Like a movie, the television set presents a sequence of still shots shown rapidly enough to trick the eye into perceiving motion. But

With images equal in quality to 35mm film, projection television sets that provide wall-size pictures should become more attractive for home use.

unlike a movie, television created the image in a series of thin horizontal slices using a beam of electrons that sweeps from left to right and from top to bottom across the phosphor-coated picture tube. The accuracy, or resolution, of the resulting image is determined by the number of scanning lines.

Last year, the Sony Corp. demonstrated a 1,125-line system developed for the Japanese Broadcasting Corporation (or NHK, Japan's

equivalent of Britain's BBC). Besides more than doubling the American resolution standard, Sony changed what is known as the aspect ratio of the picture. This is the ratio of screen width to height, which for television is currently standardized at 4 to 3 (approximately the same as for motion-picture frames before the development of wide-screen movies).

For the NHK high-definition system, Sony used an aspect ratio of five to three, which broadens the viewing arc to achieve a more modern cinematic effect. The result was a television picture equal in visual quality to 35-millimeter film images, instead of the 16-millimeter quality of normal sets.

One estimate places the retail price of a high-definition receiver at 20 to 30 percent more than a conventional set with the same size screen. But in addition to consumer economics, a technical — and highly political — barrier

stands in the way of high-definition broadcasting.

When a television signal is transmitted from a broadcast station, it occupies a certain portion of the electromagnetic frequency spectrum, just as a radio wave does. To accommodate many signals with minimum interference, the Federal Communications Commission has assigned for each channel a slot 6 megahertz — six million cycles per second — wide. For

example, Channel 2 sits between

54 megahertz and 60 megahertz. Within this space, all the information necessary for producing a color picture with sound must be electronically encoded.

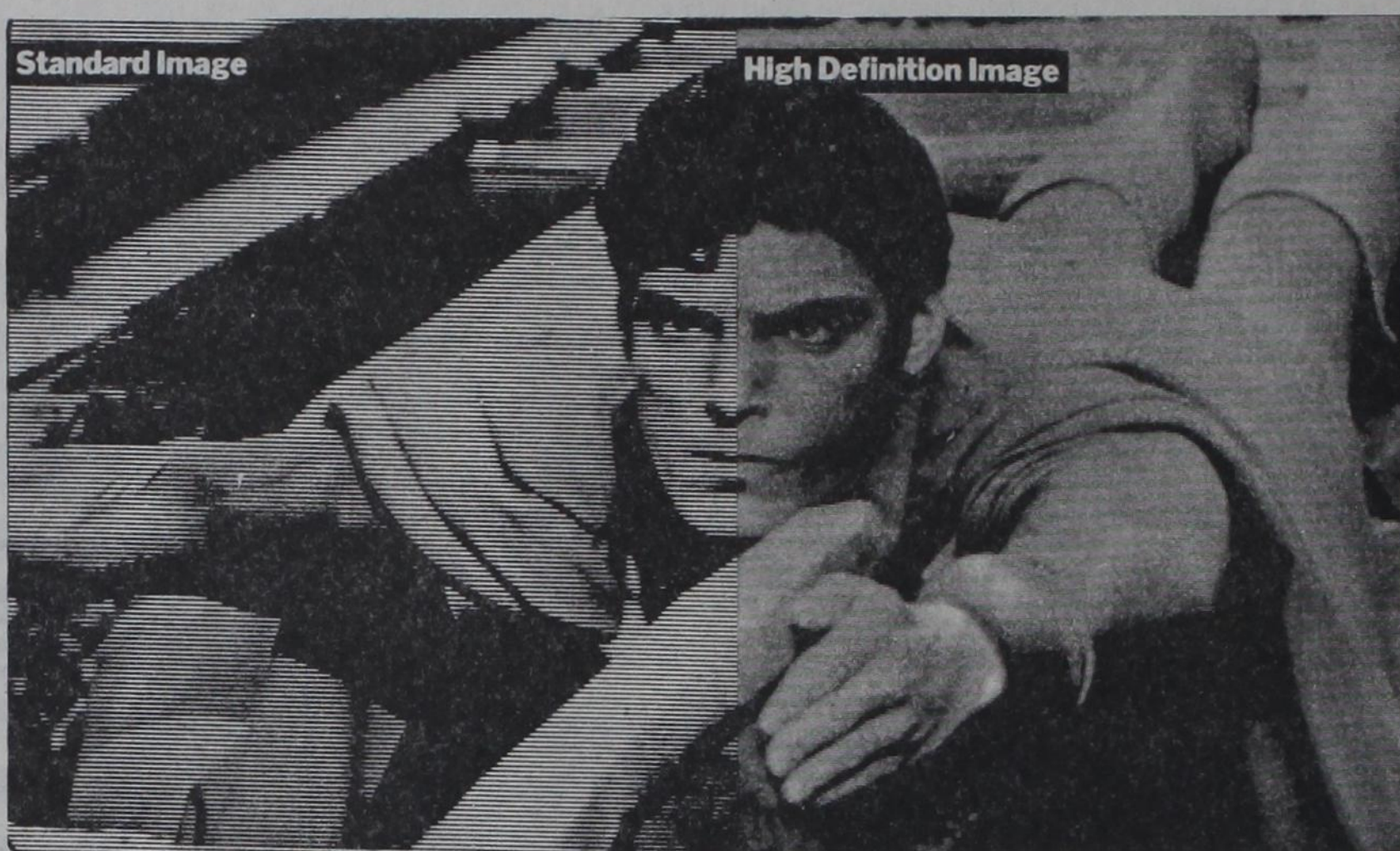
But because a high-definition signal carries so much more picture information, it requires a channel about five times wider than this standard. And because broadcasting slots are a valuable worldwide commodity, anything that uses so much space is hotly contested.

Cable systems offering more than 100 regular channels in the near future would have no difficulty setting aside 10 or 15 of these for two or three high-definition programs. But direct high-definition broadcasting from satellites will have to wait until at least 1984, when geosynchronous satellites with sufficient capacity (such as the Advanced Westar) are in orbit.

Most industry spokesmen believe business and institutional use of high-definition programming is much closer at hand than widespread residential acceptance, which could take a decade.

There is some hope, too, for access to the 12 gigahertz band that will be the first piece of the spectrum opened for broadcast services since 1952 (and probably the last in this century). Twelve gigahertz — 12 billion cycles per second — is in a range called "superhigh" frequency, above even the radar frequencies used in microwave ovens (2.45 gigahertz). In fact, last November the Federal Communications Commission accepted a proposal from CBS that part of this band be used for high-definition television, but national standards must still be developed.

The Senate recently ratified a treaty, drawn up by



Cinema-quality video

Cinema-quality video is expected to be telecast in age. The new system, right, scans with twice as many lines. at left, limit the sharpness of today's television im-

members of the International Telecommunications Union in Geneva, that allocates frequencies from 12.3 to 12.7 gigahertz for direct broadcast service. But the matter of

high-definition usage within this slot will have to wait for another conference in Geneva next summer.

With images equal in quality to 35-millimeter film, projection television sets that provide wall-size pictures should become much more attractive for home use. They are not new — black and white units were available more than 30 years ago. But they were hefty as refrigerators and much uglier. Moreover, they could not compete with the rising quality and falling cost of regular sets.

The whole problem of projection television is to bring lots of electronics and optics

into a living-room-size space without making the package look like The Incredible Hulk in the corner. Until 1973, when the Advent corp. introduced its first "Videobeam" model, the task had proved to difficult for consumer markets.

A regular color television receiver has a picture tube painted with red, green and blue phosphors. Three separate beams of electrons excite these phosphors simultaneously to create a superimposed, full-color image. But the Videobeam innovation was to use three separate picture tubes — one for each primary color — each containing optical mirrors (similar to a telescope's) for projection.

Videobeam's introductory price of \$2,500 and its relatively compact size — the monitor unit, about as big as two orange crates, cast a seven-foot diagonal image on a reflective screen — were attractive to taverns and motels and even to a few trendy souls below the rock-star income level. But the Videobeam's projection tubes required complicated alignment of their optical parts during con-

struction. A series of marketing mistakes combined with expensive production to create a deluge of red ink for Advent, which caused the departure of Videobeam inventor Henry Kloss.

Henry Kloss has a reputation in the home entertainment business as something of a wizard. In fact, a good case can be made that the mass market hi-fi industry sprang from his brow in the form of products from Acoustic Research (AR), KLH and Advent. About a year after being forced out of Advent, he surfaced from his home base laboratory in Cambridge, Mass., with a new projection tube dubbed the "Novatron."

The Novatron solved its forerunner's alignment problems by placing the projection mirror at the back of the tube and using the tube's glass envelope to connect it to the faceplate. An electron beam fires through the mirror at the back and hits a phosphor patch on the faceplate. The light image from this collision is then reflected by the mirror through the faceplate to the screen. Indeed, the Kloss

Novabeam Model One is about five times brighter than commercial movie screens.

Elegance in engineering tends to set standards. By now the Novatron architecture has been imitated in dozens of ways. Projection televisions differ in image size (some will project onto a flat wall in subdued light with no screen), console bulk, and basic layout of projector in relation to screen.

The major stumbling block for manufacturers is still retail price. At \$3,000, good projection sets are far beyond the budget of most viewers. There is the technical impediment, too, of image quality being no better than image source. With most American households still receiving television signals through rabbit ears or roof antennas from local transmitters, all the glitches so annoying in a regular television picture become giant flaws on a big screen. This is precisely how cable-fed — or eventually satellite-broadcast — high-definition programming may unlock the next treasure chest in home entertainment.

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The University Daily/Adrian Sailer

Hands-on experience

Texas Tech University's Quentin Anderson (left) and Vince Taylor vie for possession of the basketball during the Raiders' 54-50 win over Rice Monday night.

Tech takes on the University of Arkansas tonight at the Coliseum.

By MIKE McALLISTER
University Daily
Associate Sports Editor

Opponents usually spend several days getting psyched up when the Arkansas Razorbacks come a hog-calling. Knowing full well Eddie Sutton's Hogs bring a tenacious defense and solid outside shooting, opposing coaches usually put their gray matter into overtime when trying to figure out the secret to unlocking any upsets. Usually.

But because Mother Nature turned Lubbock into the snow capital of West Texas, coach Gerald Myers only has one day to turn his Texas Tech University basketball team's attention toward the Porkers. One day to get his Raiders prepared for the 11th-ranked team in the nation. Solving America's recession is an easier task. But then, Ronald Reagan never had to go one-on-one with Darrell Walker.

"Playing Arkansas with just one day to prepare is not any time at all," Myers said Tuesday. "We have to go light during practice so we don't wear ourselves out. We'll have to have short, snappy practices. You just want to be sure you don't expend a lot of energy during practice."

The Raiders are coming off a 54-50 overtime victory against the Rice Owls Monday night in a game that was rescheduled because of Saturday's fog and snow. The win upped Tech's SWC record to 2-3 and the season slate to 5-13 but left the Raiders with somewhat of a shaky start to a week that includes games with Baylor Saturday and Texas A&M Monday, not to mention tonight's contest with Arkansas at the Lubbock Coliseum. Game time is 7:30.

"It was important to us to win Monday night, without

Tech Basketball



TECH VS. ARKANSAS

Date: Wednesday, Jan. 26 Time: 7:30 p.m.

Place: Lubbock Municipal Coliseum

Records: Tech, 5-13 (2-3 in SWC). Arkansas, 15-1 (5-1)

Starters: TECH — Bubba Jennings (5-10), David Reynolds (6-6), Ray Irvin (6-10), Quentin Anderson (6-9), Vince Taylor (6-5). ARKANSAS — Darrell Walker (6-4), Alvin Robertson (6-3), Joe Kleine (6-11), John Snively (6-5), Leroy Sutton (6-6).

Radio: KEND-AM, KRLB-FM, KTXT-FM

TEAM NOTES

TECH — Playing its toughest opponent during a four-game week that includes games at Baylor Saturday and Texas A&M ... Coach Gerald Myers has had only one day to prepare for the Razorbacks after playing the rescheduled Rice game Monday ... The Raiders had to come back twice in the closing minutes of the game to defeat the Owls 54-50 in overtime ... Myers is 11-14 in games against the Hogs ... But Tech leads the overall series 31-24 and is 20-5 in games played at Lubbock ... Yet the Razorbacks have won 11 of the last 12 meetings, with a 79-74 upset win in Lubbock the only blemish ... Freshmen guard Tony Benford had 16 points in the Rice game to lead all scorers ... Bubba Jennings is still leading the team in scoring with a 14.8 clip.

ARKANSAS — The Hogs rebounded from their only loss of the season to beat the Texas Longhorns 83-64 Monday night in Fayetteville ... Arkansas is 15-1 on the season and ranked 11th in the latest polls after falling from the no. 4 spot ... Guards Darrell Walker and Alvin Robertson lead the team. The duo was the subject of a recent Sports Illustrated story ... Coach Eddie Sutton has lost to Tech only four times in eight seasons at Arkansas ... Ricky Norton and Carey Kelly were suspended before the season but were reinstated right before conference play ... 6-11 Joe Kleine, a transfer from Notre Dame, is shaping into a fine center, averaging 12.1 points and 7.1 rebounds a game ... Wednesday's game will be televised back to Arkansas.

any question," Myers said. "We have three games left against good teams. But we have to play better than we did Monday night."

The Raiders were behind for most of the second half as Rice opened up a lead of nine points with 10 minutes left. But Tech slowly whittled away, eventually tying the game before coming back to win in overtime behind a five-foot looping shot by Bubba Jennings. It wasn't the best game Myers has seen all season, but it's a win, a rare occurrence this year.

"We didn't play particularly well until the last 10 minutes including the overtime," Myers said. "Up until that point, we were a little flat. I think we were ready to play Saturday night. We had pointed to that time and things went downhill from there. But I really can't say for sure why we were flat."

But can a team that just barely beat the last-place Owls have any possible chance to beat the 15-1 Razorbacks? Can the Raiders, who have just one true experienced guard in Jennings, be able to

stay on the same court with one of the best guard tandems in the country in Walker and skymate Alvin Robertson?

It's hard to tell. Arkansas rebounded from its only loss of the season, a 75-60 shellacking to Houston, to beat Texas 83-64 Monday night in the Ozarks. Most everybody else would be pleased with a 19-point victory, but Sutton wasn't too impressed by his team's performance.

"We didn't play very well against Houston, and we didn't play well against Texas," Sutton said Tuesday. "Even before Houston beat us, we weren't playing very well. It's a long season, and you have your ups and downs. Right now, we are on a downer."

Things were very deceiving when the Top 20 polls came out last week and Arkansas was ranked fourth. Although the Hogs were undefeated at that point (their record now is 15-1), many people still were skeptical of the Razorbacks, especially since their ranking put them ahead of such teams as Virginia and Georgetown.

"When we were fourth in the country, everybody up here knew we weren't the fourth best team in the country," Sutton said. "We were only there because we hadn't lost yet."

"Those polls early in the year are all based on records," Myers said. "They become more realistic once conference play starts. But they deserved it as much as anybody."

At least Walker and Robertson deserved it. Walker, the 6-4 senior who has done quite a bit of maturing since arriving on the Fayetteville campus, is leading the team in scoring with an 18.8 average. He had 28 points in the win over Texas. Robertson, a 6-3 junior,

See TECH, page 11

UCLA No. 1; UH moves up

By The Associated Press

UCLA still is No. 1, undefeated Nevada-Las Vegas inched closer to the top and Arkansas tumbled eight spots in The Associated Press college basketball poll released Tuesday.

UCLA, 13-1, held the top spot for the second consecutive week by getting 28 first-place votes and a total of 1,146 points in a nationwide poll of 60 sports writers and sportscasters.

The Bruins are the fifth team to be No. 1 this season. The others were Virginia, Kentucky, Indiana and Memphis State.

Indiana remained second, and North Carolina stayed No. 3.

The 16-0 Runnin' Rebels, who moved up one spot, got

one first-place vote and 974 points.

Memphis State, 14-1, also got one first-place vote and moved up one place to fifth with 906 points.

Virginia, 15-2, advanced a notch to sixth while 17-1 St. John's also advanced a spot to No. 7.

Also moving up one place

were No. 8 Louisville, 13-2, and No. 10 Kentucky, 13-3.

The Second Ten this week consists of Villanova, Arkansas, Missouri, Iowa, Georgetown, Minnesota, Illinois State, Syracuse, Wake Forest and Oklahoma State.

Illinois State, 14-1, and Wake Forest, 13-2, were not ranked last week. They replaced Virginia Tech, which lost to

Virginia and Tulane, and Auburn, which lost to Vanderbilt.

Last week's Second Ten was Kentucky, Missouri, Villanova, Houston, Syracuse, Minnesota, Virginia Tech, Oklahoma State, Georgetown and Auburn.

TOP 20

1. UCLA	13-1	11. Villanova	12-3
2. Indiana	14-1	12. Arkansas	15-1
3. North Carolina	15-3	13. Missouri	14-3
4. Nev.-Las Vegas	16-0	14. Iowa	12-3
5. Memphis State	14-1	15. Georgetown	13-4
6. Virginia	15-2	16. Minnesota	12-3
7. St. John's	17-1	17. Illinois State	14-1
8. Louisville	15-2	18. Syracuse	13-3
9. Houston	15-2	19. Wake Forest	13-2
10. Kentucky	13-3	20. Oklahoma State	13-2



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SPORTS BRIEFS

Another recruit selects Tech

Todd Phelps, a 6-3, 240-pound lineman from Fort Worth Haltom, said Tuesday he will sign to play football for Texas Tech University.

Phelps is the second player to commit verbally to Tech during the 1983 recruiting season. Monday blue-chip linebacker-running back Ricky Boysaw of Monahan indicated he will sign with the Raiders.

The national signing date for high school prospects is Feb. 9.

Phelps was named to Texas Football's Top 90, The Fort Worth Star-Telegram's Top 100, The Houston Post's Hunted 100 and The Houston Chronicle's Top 60. He played both guard and defensive tackle for Haltom.

Tech reportedly is in contention for the signature of Brad Hastings, a 6-4, 230-pound blue-chip linebacker from Arlington Bowie. Hastings also is considering playing for the University of Arkansas, the University of Nebraska and Texas A&M University.

Tracksters place at WT

Seven Texas Tech University track team members earned first and second places Tuesday in the West Texas State University Invitational in Canyon.

Nate Frier, a transfer athlete from Garden City, Kan., Junior College, captured first place in the 60-yard dash with a time of 6.20. He also won the 300-yard dash in 32.73.

Freshman Jerome Holland, last year's Class 5A state hurdles champion, set a meet record in the 60-yard intermediate hurdles with a time of 7.01. Tony Gamble, a freshman from Odessa Ector, won the 880-yard run with a 1:58.4 clocking.

Tech athletes who earned second places were: Red Cloud, mile run, 4:31.4, and two-mile run, 9:44.91; Leonard Harrison, 60-yard dash, 6.26; Thomas Selmon, long jump, 22' 7"; and King Simmons, 60-yard high hurdles, 7.33.

No team points were kept. Fourteen Tech athletes participated in the indoor meet.

Basketball promotion planned

A special promotion for Texas Tech University students will be featured tonight at the Raiders' basketball game with the University of Arkansas.

Pizza Hut of Lubbock has donated 5,000 red and black thumbshakers that will be passed out at the student entrance on the west side of the Municipal Coliseum. Included in the shakers will be coupons for discount pizzas at Pizza Hut.

Tipoff for Tech's game with the Razorbacks is scheduled for 7:30 p.m.

Riggins key to Redskins' attack

By The Associated Press

LOS ANGELES — Stop John Riggins and you stop the Washington Redskins. It would seem to be that simple. Not necessarily.

"If Riggins isn't stopped, if he goes unchecked, if they can run the ball down our throats, if they can do that, they'll win," Doug Betters, Miami's right defensive end and a member of the Dolphins' "Killer B's" unit, said Monday.

But A.J. Duhe, their roving linebacker, pointed out: "It's not all that easy. They've got Joe Theismann, who's one of the better passers in the game right now."

"Our biggest objective is to stop Riggins on first down because we feel that the best thing we're doing as a unit is playing pass-rush and pass coverage," Duhe said.

"So if we can get in there and hold Riggins to no gain or

maybe two or three yards on first-and-10, that'll put them in a situation where they'll have to do some play-action passing or maybe straight drop-back passing — and that'll give us the opportunity to do what we do best."

Miami's 3-4 defense has been able to rein in the running games of the New England Patriots, San Diego Chargers and New York Jets in the playoffs.

Meanwhile, Riggins, a 235-pound fullback, has been the driving force in Washington's playoff victories over Detroit, Minnesota and Dallas en route to Super Bowl XVII.

"The last three weeks we've played teams with four-man fronts," said Joe Jacoby, the Redskins' left tackle and a member of the Hogs, Washington's offensive line. "It'll take a couple of days for us to get ready, but we're in the same division with the Giants and Eagles and they

SUPER BOWL XVII

Miami Dolphins (10-2) vs. Washington Redskins (11-1)



The University Daily / Marla Erwin

both use 3-4s. We see it from each of them twice a year." "They're not a huge defensive line, but they're not small, either," said Washington guard Russ Grimm. "They come off the ball well. It'll be a challenge." "We take a lot of pride in Riggins' statistics," Jacoby

said. Riggins rushed for 553 yards during the regular season, then amassed 444 in the three playoff games.

"Riggs realizes that he's 33 years old and that he doesn't have that many years left," said Grimm. "He said to us, 'Let's go out in style.' He's giving it 100 percent and so are

we." "He's been running over people all year and the experts say he's a guy who picks up momentum as he goes," Betters said. "We know we (the line) can't let him get to our secondary or he'll start punishing those guys. We've got to control the line of scrimmage. We've got to get to Riggins before he can build his acceleration 'cause he likes to sit back there and look a little bit and take two or three steps and pick his hole and blow through there."

Duhe, whose three interceptions keyed the Dolphins' 14-0 victory over the Jets for the American Conference championship, said the Redskins have "a big, strong offensive line that just knocks people off the ball. If they give Riggins a crack, he'll fall forward for that extra four or five yards because he runs with a lot of strength, a lot of momentum." "We can't even give him a crack," Betters interjected.

"We've played against some great running backs, but most of them are quick, thrashing types. Riggins, he looks and when he sees where he wants to go he's just a basic straight-on power runner who'll go right over you as soon as go around you. He's a different type of runner than we're used to."

Betters acknowledged that the offensive line and the two-tight-end offense have been pivotal in Washington's success, and he expects no surprises in that department.

"The run is the first responsibility for the defense," he said. "We've got to shut that down. Then we've got to contain Theismann, force him into situations where we can dictate to him what we want to do, not be put in second-and-3 or third-and-2 situations, where they're going to have the upper hand. We've got to win on first down, hold them to less than three yards."

Former football player begins jail term

By The Associated Press

MIAMI — Former pro football player Don Reese, who detailed his cocaine use in a national sports magazine story last summer, began serving a minimum six-month prison term Tuesday for violating his 1977 drug probation.

Reese surrendered to bailiffs in the Dade County Courthouse and was taken to the Lake Butler Reception and Medical Center in North Florida, where all state inmates are processed. He may be transferred to another facility later.

Reese faces an indeterminate sentence of six months to five

years, with the Florida Department of Corrections determining how much time he actually serves.

Dade Circuit Judge Ellen Gable also ordered Reese to enroll in a prison drug program.

Reese, who played for Miami, New Orleans and San Diego in the National Football League, revealed his cocaine use in a Sports Illustrated story last June, just five weeks before his 1977 probation term was to end.

Reese and fellow Miami Dolphins lineman Randy Crowder originally were convicted of selling a kilo of cocaine to an undercover officer. Both served one year in the Dade County Stockade and then were placed on five years' probation.

The Sports Illustrated story detailed Reese's use of cocaine in jail and after his return to the NFL with New Orleans and San Diego. The article alleged widespread cocaine abuse in the sport.

It also triggered an investigation by Miami authorities, who subsequently charged Reese with violating his probation. He was sentenced in October, but was permitted to remain free and live with his wife and two sons.

"I'm doing all right," said Reese, who was allowed to talk with reporters when he arrived at the courthouse.

Asked how long he thinks he will be in prison, Reese said: "I have no comment," and stepped into an elevator.

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Rockets' GM fines Hayes for remarks

By The Associated Press

HOUSTON — Houston Rockets General Manager Ray Patterson fined disgruntled forward Elvin Hayes an undisclosed sum Tuesday after statements by Hayes criticizing Rockets coach Del Harris.

After he was benched before Saturday's game, Hayes said Harris was petty, paranoid and a bad coach.

"According to his contract, he is not to do anything detrimental to the best interests of the club," Patterson said in a statement. "And Elvin's comments to the Houston Chronicle today are certainly not in the best interests of the Rockets."

Patterson refused to disclose the amount of the fine.

"I've never been in a situation like this with a coach before in my entire career. And if things are going to get any better around here, things are going to have to change," Hayes said Monday night.

Knox resigns as Bills' boss

By The Associated Press

ORCHARD PARK, N.Y. — Chuck Knox, head coach of the Buffalo Bills, resigned Tuesday, the National Football League team announced.

Knox handed his resignation to club owner Ralph Wilson in Detroit after the two could not agree on an extension to his contract, which was to run through next season.

Knox was relieved of all contract obligations, team spokesman Dave Senko said.

"I appreciate very much the support of Ralph Wilson and the opportunity to coach the Bills these last five years," Knox said in a prepared statement.

"Chuck Knox did a remarkable job of building the Bills and we wish him success in the future," Wilson said.

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Steven Spielberg's "E.T. - THE EXTRA-TERRESTRIAL" (PG) 2:00-4:30-7:00-9:30

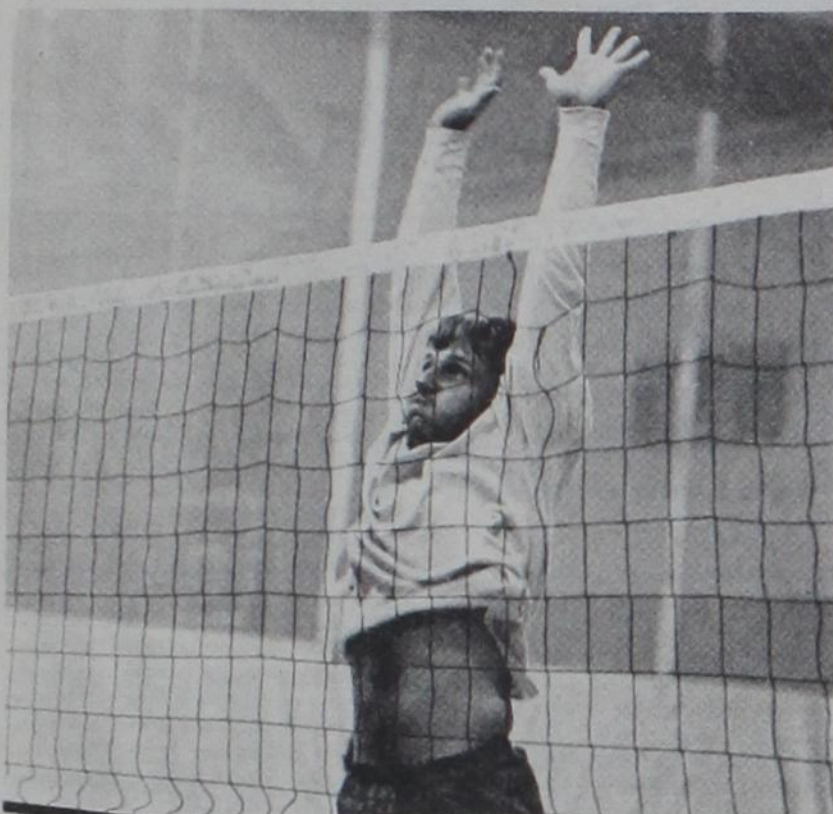
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Recreational Sports

Recreational Sports and the advertiser below sponsor and provide copy for this page. Dawn Kelley, Editor.



Give me ten

Mike Legler strains to block a shot during a volleyball game. Volleyball is just one of the many activities scheduled during the third annual Rec Sports All-Nighter Friday.

Coming Soon...

Event	Men and Women	Entries Due
Bowling		Today
Water Polo		Jan. 26-27
Racquetball Doubles		Jan. 26-27
Handball Doubles		Jan. 26-27
8 Ball Pool		Feb. 1-3
Co-Rec		
Innertube Water Polo		Jan. 26-27
Racquetball Doubles		Jan. 26-27
All-Nighter		
Indoor Soccer		Jan. 27
Basketball		Jan. 27
Pickleball		Jan. 27
Bed Sheet Volleyball		Jan. 27
Floor Hockey		Jan. 27
Co-Rec Racquetball		Jan. 27
Squash		Jan. 27

All-Nighter offers fun, food

Tournaments, games, food, raffles and a movie will highlight the third annual Rec Sports All-Nighter from 8 p.m.-5 a.m. Friday in the Rec Center.

The event includes tournaments in basketball, powerlifting, co-rec bed-sheet volleyball and co-rec racquetball doubles. Others are table tennis, floor hockey, squash, indoor soccer and pickleball. Tourn-

ment entries are due by 5 p.m. Thursday in the Rec Sports office.

"The Goodbye Girl" will be the featured "dive-in" movie, shown at 9 p.m. in the Aquatic Center and at 1 a.m. in the Rec Center classroom.

Facilities will be open all night for basketball, table tennis, racquetball, weightlifting and putt putt golf.

The popular slam dunk

contest will offer both men and women the opportunity to display their basketball prowess.

Raffle drawings for athletic equipment and a trip to the Guadalupe Peak will be at 10:30 and 11 p.m. and at 1, 2 and 3 a.m.

For participants who enjoy less physically exhausting activity, bingo and tournaments in Atari, backgam-

mon, 42 and spades will be

available. Rappelling, raft races, a kayak clinic, water jousting and a goldfish catch will be the featured water activities.

Refreshments will be served continuously in the Rec Center lounge. Burger King gift certificates will be randomly distributed.

The following schedule lists the time and location of all activities:

7 p.m.	Basketball tournament	Courts 1,2
	Powerlifting finals(until 10 p.m.)	Court 4
8 p.m.	Open rollerskating(until 10 p.m.)	Court 5
	Outdoor equipment swap(until 10:30 p.m.)	Classroom
	Backgammon tournament	Arts Crafts Room
	Juggling clinic(until 10:30 p.m.)	Archery Golf
	Baseball throw(until 10:30 p.m.)	Archery Golf
	Bingo(until 10 p.m.)	Wrestling Room
8:30 p.m.	Rappelling(until 1 a.m.)	North Entrance
9 p.m.	Co-rec bed sheet volleyball tournament	Court 3
	Dive-in movie -- "The Goodbye Girl"	Aquatic Center
	Atari tournament	Audio-Visual Room
	Co-rec racquetball doubles tournament	Racquetball Courts 8-13
	Table tennis tournament	Lower Level Multipurpose
10 p.m.	Spades tournament	Arts Crafts Room
	Floor hockey tournament	Wrestling Room
10:30 p.m.	Archery tournament	Archery Golf
	Squash tournament	Squash Court
	Raffle drawing	Sport Shop
11 p.m.	Slam dunk	Court 4
	Raffle Drawing	Outdoor Shop
	Raft races	Aquatic Center
11:30 p.m.	Kayak clinic	Aquatic Center
Midnight	Indoor soccer tournament	Court 5
	Water jousting	Aquatic Center
	42 tournament	Arts Crafts Room
	Polar bear fun run	North Entrance
12:30 a.m.	Carton stacking	Court 3
12:45 a.m.	Goldfish catch	Aquatic Center
1 a.m.	Pickleball tournament	Court 4
	Movie -- "The Goodbye Girl"	Classroom
	Guess number of racquetballs give-away	
	Raffle drawing	Sport Shop
2 a.m.	Raffle drawing	Outdoor Shop
3 a.m.	Raffle drawing	Sport Shop
4 a.m.	Finals of basketball, indoor soccer tournaments	Sport Shop



Wheweee

An unidentified student enjoys the snow during the cross-country ski trip to Sipapu, N.M., last year. The Outdoor Program will sponsor a similar trip Feb. 11-13. Telephone 742-2949 for more information.

Athletic injury clinic continues

The sports medicine injury clinic will resume at 7 p.m. today in the Rec Center classroom.

Conducted by Dr. Bud Yost, orthopedic surgeon at the Texas Tech University Health Sciences Center, the clinic will meet every Wednesday through April 27 and will include four seminars during the semester.

Dr. Yost will discuss different types of athletic injuries and will examine a

limited number of injuries each week. In the 18 months since the clinic began, Dr. Yost has examined more than 200 student injuries, from a sprained finger to a dislocated knee.

Discussion topics will include injury diagnosis, exercise rehabilitation, injury prevention and sports medicine education.

The clinic is free and open to students, faculty and staff.



Don't Forget!
The Rec. Sports
All-Nighter

IM BRIEFS

Stroke mechanics class offered

The Aquatic Center will offer a stroke mechanics class beginning at 6 p.m. Feb. 3. Instruction will cover efficiency in breathing, kicking, pulling and coordination for the American crawl, back crawl, butterfly and breast stroke. Registration continues through Feb. 2. Telephone 742-3896 to register.

Early bird lap swim begins

Lap swimming for early birds will be 7-8 a.m. Mondays, Wednesdays and Fridays continuing today at the Aquatic Center. An area will be reserved for this purpose. The program runs on a trial basis, and attendance will be reviewed Feb. 25 to determine continuance.

Bowling deadline extended

The league bowling entry deadline has been extended to 5 p.m. today in the Rec Sports Office. Bowlers must meet at 3:30 p.m. Friday at Brunswick Bowl for a registration meeting before bowling begins at 4 p.m.

Equipment swap slated

The Outdoor Shop will sponsor an equipment swap from 6-10:30 p.m. in 201 Student Rec Center as part of the third annual Rec Sports All-Nighter Jan. 28.

The swap will be an opportunity for students, faculty and staff to buy, sell and trade used outdoor equipment such as skis, backpacks, tents and sleeping bags. To register equipment for sale or trade, telephone Ted Riggs at 742-2949 or come by the Outdoor Shop, 206 Student Recreation Center.

Handball, table tennis, racquetball

Entries for handball doubles, men's and women's table tennis doubles and men's, women's and co-rec racquetball will be accepted until 5 p.m. Thursday in the Rec Sports Office. Students schedule tournaments during their free time throughout the semester.

Ski trip spaces available

A few spaces are still available for the cross-country ski trip Feb. 11-13 to Sipapu, N.M. Cost is \$75 and includes

transportation, equipment, rentals, lodging and instruction. Telephone 742-2949 for more information.

Weight training session rescheduled

The recreational weight training introductory session has been rescheduled for 8 p.m. Thursday in the Rec Center classroom.

P.F.T. registration begins

Registration for Rec Sports' Physically Fit Techsans program will be at 7 p.m. Thursday in the Rec Center classroom. Students may also register from 8 a.m.-5 p.m. in the Rec Sports Office.

The program is designed to encourage Tech students to exercise regularly and practice healthful living habits. Participants predict the number of points they will attain through various cardiovascular exercises, such as jogging, swimming, aerobic dance and cycling. Those who reach their goal receive a t-shirt. There is a \$4 t-shirt fee. Awards are also given for any department that has at least four members on the PFT board and 75 percent attain their goal.

Rec Sports classes registration

Registration continues for several Rec Sports classes. They are intermediate racquetball, tennis, squash, juggling, judo and karate. All classes are free and open to students, faculty and staff. Telephone 742-3352 to register or come by the Rec Sports Office.

Fitness testing resumes

Rec Sports will resume fitness testing from 8-9:30 p.m. Thursday and from 2-4 p.m. Friday in the Rec Center lower level multipurpose room. Testing includes percent body fat, cardiovascular step test, flexibility test, grip strength test and blood pressure.

Make-up schedules available

Make-up schedules for intramural basketball games cancelled Sunday are available in the Rec Sports Office. League schedules for intramural basketball and indoor soccer are also available.

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