

Digging up old bones

Photo by DARREL THOMAS

Cristi Assad and Craig Smith are examining a leg bone of a Mammoth discovered at the Lubbock Lake Site last weekend. The bone is

believed to date back to the Clovis Age, 12,000 years ago.

Researchers digging up old bones at Lake Site north of Lubbock

By SALLY LOGUE
UD Reporter

In a dry river bed just north of Lubbock, a group of about 40 people are busily digging up bones of animals who died there as long ago as 12,000 years.

The group, a research team from the Tech Museum, is working at the Lubbock Lake Site hoping to unearth more of the materials which have made the site a nationally prominent archeological area.

Eileen Johnson, field supervisor of the project, said the site not only holds bones and fossils, but also cultural material of the Clovis period, the oldest known civilization in America, dating back 12,000 years.

The Lake Site, located where Lubbock was originally established, was first recognized by the city as having scientific value in the 1930s when the city dredged the river bed to form a reservoir. During the dredging, bones were discovered dating back to the Folsom Period, some 10,000 years ago.

Work on the project has been going on since the 30s, Johnson said, but under her supervision since only last summer.

The team's work has unearthed fossils of bison, antelope and horses. But, last weekend they discovered two bones from a Mammoth dating back to the Clovis

period. They have hopes of recovering more of the animal, but as of yet they have not.

Last summer a series of post molds, or holes where posts have rotted away, indicating some sort of dwelling, were discovered. The crew is currently in the process of trying to uncover more of this dwelling.

The digging is a slow, meticulous job done with an ordinary trowel. The digging is done on a plot of land one meter square. The plot is excavated at a rate of five centimeters at a time before the next level can be started.

Johnson said this project, though it has already discovered much important material, is only just beginning to get underway considering the expectations scientists have for the area.

The researchers are working in one central location now. However, Johnson said the site covers much more land, but they are not really sure how much.

The researchers are from colleges and universities from all over the country.

The site has been classified as a bicentennial site and is listed with the national register, which means it is protected by federal law.

The project is being carried out in conjunction with the Texas Historical

Society. Work is funded through the National Geographic Society and various state, local and federal agencies.

Johnson said the area is so rich in material because it has always been a location of water. "Man seemed to think the best place to hunt animals was at their watering hole," she said.

Although the site is rich in animal and plant remains, there have been no human fossils recovered yet. Johnson said she has little hope of finding any. "I don't know why there aren't any human fossils. If we do find any, we will be awfully lucky, but we keep hoping," she said.

Johnson and her husband Charles are doing the work as part of a doctoral dissertation. Though they will probably have the needed data for their dissertations in another year, she said work on the Lake Site will continue for many more years.

When the project is completed, the city is planning to build an interpretation center and preserve parts of the site for the public. Tours can be taken through the site this summer on Saturdays from 9-11 a.m., she said.

In the future, the Lubbock Site may reveal as yet unknown facts about a culture believed to be 12,000 years old.

Egyptians throng to cheer President's Mideast trip

ALEXANDRIA, Egypt (AP) — President Nixon rode by train across the Egyptian countryside with President Anwar Sadat to this Mediterranean resort Thursday, cheered all the way from Cairo by throngs estimated by Egyptian officials to number 3.5 million.

Nixon and Sadat rode in an open railroad car on a train that had to slow down several times along the 140-mile route because of crowds surging onto the tracks. The two leaders then rode through Alexandria in a motorcade.

They were cheered by slum dwellers in Cairo's outskirts at the outset of the 3½-hour train trip, farmers in their fields in the Nile Delta, peasants on camels and donkeys and hundreds of thousands of others who had formed in massive bunches all the way to Alexandria.

White House aides said the welcome was beyond all their expectations.

"It's fantastic, just fantastic," said Press Secretary Ronald L. Ziegler.

The turnout outdid the Cairo reception on Wednesday when Egyptian officials said two million Egyptians turned out to greet Nixon at the start of what appeared to be his most triumphal foreign visit.

The President held another in his series of formal talks in a palace here with Sadat and at a banquet given by the Nixons for Sadat and his wife Thursday night announced that the Egyptian leader had accepted an invitation to visit the United States sometime before the end of this year.

Nixon said Sadat would be shown not only Washington but other parts of the United States as well.

At the state banquet, Sadat called on Nixon in a speech to work even harder on solving the remaining problems in the Middle East. He added that he was confident the President could find an answer to the intricate problems that still face the region.

Sadat did not specifically mention the need for an American answer to the future of the Palestinians who are demanding a new nation in the Middle East.

Nixon said his visit to Egypt—the first stop on his Middle East tour — has opened the way for a rebirth of friendship between the two nations.

This relationship, he added, "is one we will treasure and trust will be passed on to future generations."

"You can be sure that we who have learned so much from this civilization ... will profit from the series of discussions held in Cairo and Alexandria," Nixon declared.

The banquet topped off Nixon's last full day in Egypt. He leaves on Friday for the second stop on his tour, Saudi Arabia.

Crowds gathered in Alexandria hours before Nixon and Sadat arrived on the 13-car train from Cairo.

A marring note came from another part of the Middle East. Three Palestinian guerrillas slipped into an Israeli village near the Lebanese border during the day and killed three women

before dying themselves in a hail of Israeli gunfire. In Beirut, a spokesman for the Marxist Popular Front for the Palestinian Liberation General Command said the attack was "our reaction to the Nixon visit to the Arab world."

Some U.S. security officials have expressed concern for Nixon's safety on this unprecedented Middle East tour, which takes him to Saudi Arabia on Friday, Israel Saturday, then Syria and Jordan.

Secretary of State Henry A. Kissinger was asked if the Palestinian attack and an Israeli-Lebanese artillery exchange later would change the plans for the presidential tour.

"No," Kissinger responded.

Nixon said after arriving in Alexandria that the chants of welcome were a sign of Arab affection for all Americans. He promised public and private U.S. aid for Egypt to build and era of peace.

Nixon and Sadat met here Wednesday night for a round of formal talks, at the Egyptian leader's summer residence, Mahmouda Palace, preceding a banquet

given by the U.S. president in Sadat's honor.

The meeting lasted 90 minutes. Kissinger was among those at the meeting. Nixon and Sadat began their series of talks in Cairo on Wednesday.

The two men indicated they made headway in agreeing on a common approach in a quest for lasting peace in a region seared by four Arab-Israeli wars in 25 years.

Nixon told reporters en route to Alexandria that "What is needed is a step-by-step approach ... taking up each problem in a quiet, confidential way."

This was interpreted in some quarters as an indication that Nixon and Kissinger were not yet ready to squarely confront the Palestinian problem perhaps the most sensitive of the Middle East issues.

Palestinian groups basically demand that land taken from them in 1948 for the creation of Israel be given back.

Sadat told Nixon in a dinner toast Wednesday night in Cairo that the United States must do more on the Palestinian issue if a permanent peace in the Middle East is to be achieved.

NEWS BRIEFS

By THE ASSOCIATED PRESS

Calley appeal still not decided

NEW ORLEANS, La. — Former Army Lt. William L. Calley, Jr. was ordered back into custody today by the 5th U.S. Circuit Court of Appeals.

The court ordered him held until the federal court in Columbus, Ga., decides his appeal of his conviction of murdering 22 Vietnamese at My Lai. The court said the Army should decide where Calley should be imprisoned.

Calley had been held under house arrest for three years since his 1971 conviction and the Army had said it wanted to move him to the stockade at Ft. Leavenworth, Kan.

Foreigner allowed to enter West Point

WASHINGTON — Authority for a top Laotian general's son to attend West Point has been voted by the House over objections that foreigners should not be allowed to attend when U.S. women are not.

The bill permitting Van Chong, an honor student at Staunton Military Academy in Virginia, to attend West Point was approved 294 to 101. He is the son of Gen. Vanh Pao, commander of Meo tribesmen who fought North Vietnamese forces in northern Laos.

Rep. Pat Schroeder, D-Colo., and Charles H. Wilson, D-Calif., objected that foreign students should not be permitted to attend U.S. service academies when women aren't allowed.

Liquor prices lower than most goods

If you drown your sorrows after reading about the high cost of living, take comfort in the fact that liquor prices have not gone up very much around the country in the last year.

Latest figures available from the U.S. Department of Labor show alcoholic beverage prices rose only 6.7 per cent between April 1973 and April 1974 — while the cost of living for the same period went up 13.3 per cent.

Whisky drinkers had it better than most. The Labor Department says that in the 12-month period the price of spirit blended whiskies and straight bourbon rose only 0.7 per cent.

Just a meter of time till U.S. adopts metric system

By SHELLY CAMPBELL
UD Reporter

It is just a meter of time before the United States embraces the metric system as a way of life.

This is the general consensus of officials at Tech who deal daily with both the metric and English systems of measurements.

"The last session of Congress did not vote in the money needed for the change, but most people are estimating that we will convert within the next eight to ten years," said Dr. Derald D. Walling, associate professor of mathematics.

"Congress has not actually dragged their heels. The conversion will be long, arduous and very, very expensive," said Dr. John R. Bradford, dean of the College of Engineering. "This is a tremendously complex problem and the simple passage of a law is only a beginning."

Previous bills for the adoption of the metric system have been placed before Congress during the administrations of Washington, Madison, Lincoln and McKinley.

"I think it will be a number of years before the conversion bill passes in Congress," Bradford said.

"The main pressure pushing the U.S. to change to the metric system is that the rest of the world is on it," said Bradford. "If we are to maintain worldwide trade and a healthy world balance of payments, we must move to the metric system."

"If we don't start producing goods manufactured and sold according to the metric system we will lose more foreign trade. It is a question of dominance, not just keeping up with the Joneses."

In the last 30 years the U.S. has gone from providing 70 per cent of the world's automobiles to providing less than 20 per cent.

"To work on a machine or automobile with metric-sized parts, one would have to have metric tools. American-made cars are not acceptable overseas because they are on the English measurement scale," Bradford said.

"When we convert, the greatest change in the U.S. will be in the automotive industry."

"It takes \$4 billion for the four major auto manufacturers to change the style of their cars every year. The cost to change the dimensions of all their cars will be enormous."

All new Chevrolet wrenches will be metric and all parts on the Vega are already metric.

Dealers, repair shops and mechanics are all going to have to retool and use two sets, the metric and the English for many years. There are relatively few instances where something made on the metric scale will fit the same thing made on the English scale.

"The metric system will prove to be a great big advantage in trade," said Dr. Jon White, associate professor of mathematics. "We must retool for European orders. American industries are being hurt by using inches and feet."

Though the metric system has definite advantages for American trade, the conversion process also entails numerous problems.

"The cost of converting to the metric system will very easily exceed the cost of all the wars the U.S. has ever been in," said Bradford. "The cost will be billions upon billions of dollars."

Every industry and business in the country which deals with any sort of weights and measures will have to retool according to the metric scale.

"Think of how much money it will cost just to change the scales in meat markets to make them read out in kilometers instead of pounds," Bradford said. All maximum speed limit signs will have to be changed from 55 m.p.h. to 88 k.p.h.

"In eastern areas and throughout Ohio road signs are already carrying kilometer distances as well as the mile equivalents. During the conversion process, a sign for the distance between here and Amarillo would read 125 miles and 200 kilometers," Walling said.

Another major problem which will be encountered in the conversion will be the reeducation of the general public.

"Changing to the metric system will mean thinking in terms of different numbers but the same sizes," said Dr. Robert Rekers, assistant chairman of the Chemistry Department.

"The general public will essentially have to learn a new language," said

Bradford. "We have traditionally grown up in the foot-pound system rather than with the gram and meter."

"A girl who is 5' 4" will be 162.5 centimeters tall and someone who weighs 195 pounds will weigh 88.6 kilograms on the metric scale. It's a whole new ballpark as far as what we're used to. Our reference system will have to change dramatically," Bradford said.

It will be several generations before the conversion is complete. "The Texas legislature will require that elementary schools place the math program emphasis on the metric system a year from next fall," Walling said.

Education students who plan to teach math in elementary schools will have a review session on the metric system in math course 1370.

"Most of the students who will be teaching in elementary schools have had the metric system before but they are not sure of it. The course will make them more aware and confident of the system," Waller said.

The system will be easier for a child to learn because he can move a decimal point instead of working with fractions. The system also uses the same basic adjectives when dealing with length, weight and capacity.

"I and some other instructors at Tech hope to get a federal grant to work with local teachers to reeducate them on the metric system," Walling said.

"The main problem will be for those people who are already through school and will have to start thinking of three and a half ounces as 100 grams," Walling said.

The natural sciences department uses the metric system in all scientific work. Part of their training for freshmen begins to get them thinking in terms of meters said Reker.

"All engineering schools have been on the metric system for years," said Bradford. "It's nothing new for us. The average engineering student is equally at home in the metric system as well as the English."

"Any passage of legislation by the federal Congress will create virtually no problems for the engineer," said Bradford. "Yet the problems and complexities the conversion will create can almost be compared to the civil rights law of the 60's."

Gathering moss

MY COMPLIMENTS to the County Commissioner's inking of the \$8 million revenue bond for the Lubbock Teaching Hospital. The matter may be cool on the surface to many people, but the wrestling of Indiana Avenue is still very much in the fire.

All the signing did was put the "power struggle" behind the scenes, so to speak. Seems a lot of people got sick and tired of "nit picking this subject to death."

But, you might as well take an intermission, the subject will be back with the same type power-plays as this time.

THURSDAY WAS as good a day as any to storm the East Wing. Counting them down the line, you could call them the Kampus Kzars: President Grover E. Murray, off to San Francisco on business; Executive Vice President Glenn E. Barnett, getting off on Polish sausage in Poland of course; Vice President and Treasurer Leo E. Ells, was out of town on business; Monty E. Davenport, Senior Associate Vice President was home in bed sick; Vice President for Public Affairs, Bill J. Parsley, was in Austin handling Tech's touchy state affairs; and Tech Resident Counsel Carlton Dodson at home trying to recuperate from a recent operation.

Yes, Thursday was THE day for all those "student activists." Turns out, the janitors and cleaning ladies are the only ones who profited --- there wasn't that much business in the trash cans.

STUDENTS OUGHT to take heed to the way Lubbock handled the Indiana Avenue Affair. First, Lubbock took the local Avalanche-Journal (or was it the other way around) and made them prod the issue --- "played it up constantly for over a year and a half" --- and then finally pushed the City Fathers to giving Tech ultimatums for Indiana's access.

It worked. Lubbock lost its state appropriated monies for the project --- that being \$1.7 million. At last word with Grover, he said that street was "ours and we'll pay for it."

You go to counting inflation since that figure was computed and it shoves it past \$2 million. And you know who's going to drop those coins? Tech.

Of course, students, will pay their fees and by all means, the citizens of Lubbock and Texas will pay for that street with their taxes. But, it seems foolish to me why we couldn't have just drawn the street construction money from the state's pot and not have cost this University over \$2 million. Seems to me we're taking from a smaller pot and putting it in a bigger one. At the University's Quality expense.

I'M TO THE POINT that Nixon doesn't bother me anymore. With each day that goes by taped or untaped I can only laugh it off and say "What else now?" All those downers he's been lately having with the House Judiciary Committee ... it's no wonder why he flew to the Cairo World Festival for one of his last uppers.

At the same time, he's claiming some of Kissinger's peace miracles. The man's trying to improve his terminal image disease. Dick and Sadat must have really hired themselves a damn good Cecil B. DeMille-type director to stage the kind of productions they've been putting on.

Some say he just went over there to do a little shopping. It won't be long before we see the (expletive) walking off into an Egyptian sunset --- a hammer and chisel in hands --- looking for a lost, faceless Sphinx to carve.

ALL YOU JOCK FANS oughta stroll over to the Ticket Office to pick up on your All-America tickets. Tickets sales appear to be clipping at a record breaking speed. The game's a good promoter for Tech as well as Lubbock. Might be fun to see yourself on national TV the next day.

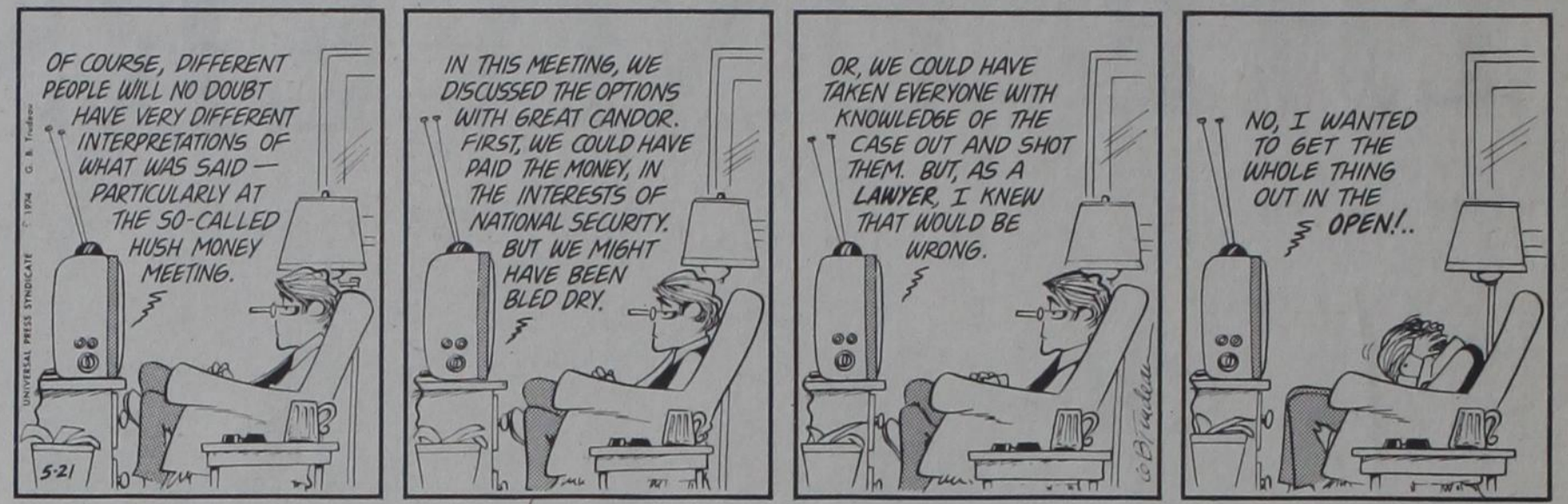
YOU CHAIN-LINK FANS on campus are in for bad news. At present we have approximately \$61 million worth of construction on campus. That may seem like quite a bit, but we have another \$12 million on the planning boards at this time. --- Meaning more chain links to come.

Have a Good Day.

---Robert Montemayor

DOONESBURY

by Garry Trudeau



WASHINGTON

merry-go-round

Nixon's risky journey

by Jack Anderson

WASHINGTON --- President Nixon's stubborn determination to visit the Middle East, in the opinion of experts, has placed him in the greatest physical danger of his White House experience.

He ignored secret intelligence warnings that the Popular Democratic Front for the Liberation of Palestine, an Arab terrorist ring, might attempt to assassinate him. They are believed to be equipped with shoulder-fired, heat-seeking Soviet missiles, which could knock down the presidential plane or blow up his ground transportation.

The greatest security precautions in history have been taken, therefore, to protect the President as he tours the world's most volatile hotspot.

Most of the Secret Service protective force has been airlifted to the Middle East to provide bodyguards for Nixon and to coordinate the security preparations of the host nations.

Intelligence teams departed a week ahead of the President and fanned out to every city on his itinerary. Secret Service chief Stuart Knight himself flew to the Middle East to direct the operations.

In case of an attack upon the President, a special medical team has been rushed to the Mediterranean and is now standing by on an aircraft carrier.

The five-man team is led by Capt. William J. Fouty, chief of surgery at the Bethesda Naval Hospital, and Dr. Myer Rosenthal, head of the hospital's Intensive Care Unit. Ready to assist them are three crack Navy corpsmen. The carrier was chosen because of its excellent hospital facilities.

The Secret Service considered the President's train trip from Cairo to Alexandria as the most dangerous time. The vulnerability of the train threw the security experts into a near panic. The Egyptians, therefore, stationed security police at every bend in the track along the entire route.

However, intelligence reports suggest that the Terrorists, because of their good relations with Egypt and Syria, wouldn't want to embarrass them with an incident. They are more likely to attempt an assassination in Israel or Jordan, the two countries most hated by the Palestinians.

The intelligence reports warn, indeed, that the terrorists will hardly be able to resist attempting a spectacular stunt while the President is in Israel.

White House sources say the President insisted on making the trip, despite the risk, because he is determined to carry out his diplomatic objectives in the Middle East. He told visitors that the danger wouldn't deter him, recalling his experience with a mob that besieged his vice presidential limousine in Venezuela in 1958.

Perhaps he also remembered that he received a hero's welcome after his return from Venezuela. Some insiders

wonder whether he deliberately might now be courting danger in the Middle East to win public sympathy on the eve of the impeachment hearings.

WASHINGTON WHIRL: There is tentative talk inside the White House of extending President Nixon's travels to the Pacific. Congress would look bad trying to impeach the President advisers feel, while he is traveling around the world in pursuit of peace...The President has told friends he sometimes remembered, sometimes forgot that recorders were taping everything said in his office. Those who have listened to the tapes agree he talked sometimes as if he didn't realize he was being bugged, other times as if he were making statements for the hidden microphones...Former Vice-President Spiro Agnew has told friends he'll hold his tongue until President Nixon is out of the White House. But then, said Agnew, he'll have a story to tell...The decision to take the patrols along the U.S. - Mexican border away from the Customs Service, Commissioner Vernon Acree complained to us, would cost the taxpayers \$1.5 million. The budget managers have ordered the Customs Service to surrender the border authority to the Immigration Service. "They were tripping over each other's sensor devices, and there were even shootouts," a budget official told us....

In our June 9 analysis of the American foreign aid program, we listed seven European countries which owe money to the U.S. In this "deadbeat" class we listed, unfortunately, the nation of Finland. It is true that Finland has an outstanding debt of about \$8.8 million. But Finnish Ambassador Leo Tuominen has assured us that it is being paid off, with interest, in accordance with the loan agreements. "Finland is known around the world," he told us, "as a country which always pays her debts."....

In two columns last month, we revealed a secret White House master plan to use government agencies to generate votes for President Nixon in 1972. Not long afterwards, we appeared with White House aide Fred Malek, who authored the plan, on columnist Irv Kupcinet's television show. Unlike many other White House aides, Malek was able to disagree with us without malice. The transcript shows he finally turned to us and said generously: "The White House may not like you, but we find you are accurate, which is more than we can say for many of your colleagues."

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Prof studies effect of heat

When you're hot, you're hot — but when you're too hot, you're not so hot on the job.

High temperatures in a work environment, over a period of time, can affect how well a worker does his job. Deciding when temperature begins to affect performance is a problem for workers and employers alike.

Dr. Jerry D. Ramsey, associate professor of industrial engineering at Tech, will spend a portion of the summer at work on that problem. Under a grant for \$38,500 from the Occupational Safety and Health Administration (OSHA), the professor will study the effects of time and temperature on the job performance of sedentary workers. Results of the study will aid in the establishment of a national standard for time and temperature work relationships.

"Sedentary workers include people who monitor gauges on a boiler system or in a refinery or power plant, air traffic controllers, operators of equipment such as an overhead crane, truck drivers or farmers on their tractors," Ramsey said. "In general, they are seated while performing their jobs, and their work involves more mental concentration, response and reaction than physical effort."

"Working in the heat, or under heat stress, is an important consideration when these workers have to make critical decisions, fine discriminations or have to perform fast or skillful actions, because their safety and the safety of their coworkers depends upon their constant alertness," Ramsey said.

The National Institute for Occupational Safety and Health (NIOSH) recently recommended a standard for time and temperature work relationships. But, according to the professor, numerous studies contradict the proposed standard's recommendations.

Some studies indicate performance declines below levels indicated in the recommended standard, and some show peak performance continuing beyond the levels established in the standard. Different experimental procedures and research methods make interpretation of test data difficult which probably accounts for the contradictions found, Ramsey said.

The professor will conduct his experiments using four tasks which will be performed by 30

individual test subjects working in temperatures strictly controlled in an environmental chamber. The test subjects will work for time periods ranging from 15 minutes to 120 minutes at seven temperature levels between 80 degrees and 125 degrees.

Persons performing the tasks in the experiment will include workers from local industry and Tech students.

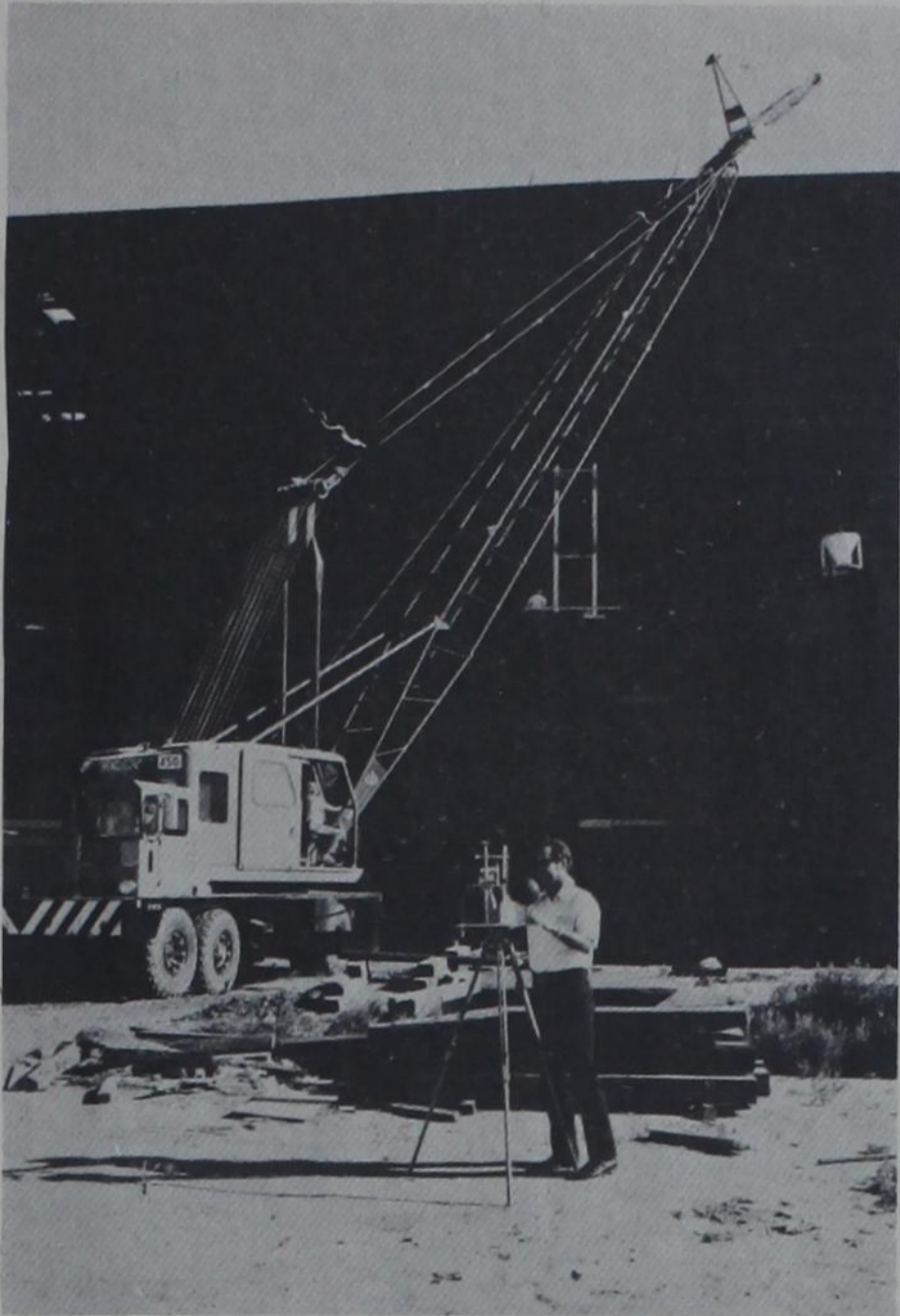
"The tasks which will be performed represent an array of common sedentary occupational skills — mental performance, tracking, response time and eye-hand coordination," Ramsey said.

"While the effects of hard physical labor in the heat, such as heat exhaustion, heat sickness or heat stroke, which can be fatal, are potentially serious, we need also to consider the seriousness of impaired performance, misjudgments, slow response or other errors which can be influenced by heat stress," he said.

"A brief exposure at an extremely high temperature may present the same risk as a long exposure at a lower temperature," said Ramsey. "This research is aimed at understanding the relationships of temperature, length of exposure to varying degrees of heat and the likelihood of impaired performance or judgment."

"Our motivation in seeking an understanding of these relationships is the safety of the worker," said the professor. "For example, if a crane operator on a construction job works in a very hot area, and if after 30 minutes at work, his judgment and responses decline slightly, that operator becomes a risk to his own safety and the safety of his coworkers."

"When his performance starts to decline, his need for a rest break in a cooler temperature is indicated," Ramsey said. An understanding of heat stress effects will help the worker and the employer be better prepared to determine an appropriate work and rest schedule for hot jobs which require mental or psychomotor skills."



Heat wave

Dr. Jerry D. Ramsey checks the temperature at the construction site for the Texas Tech University School of Medicine with a Wet Bulb Globe Thermometer System. Ramsey, an industrial engineering professor at Tech, is conducting a series of laboratory tests on the relationships of temperature and time spent at different temperatures on job performance for sedentary workers.

Dallas band will open Walker show June 20

Hot Sauce, a four piece band from Dallas, has been booked to open the Jerry Jeff Walker Show on June 20. A KSEL-FM representative described the group as one with a "country-rock flavor" and one which also manages to combine country-rock and jazz. Hot Sauce has no albums out as yet, but is planning on releasing material toward the end of the summer.

The combined Hot Sauce-Jerry Jeff Walker concert is scheduled to kick off at 8 p.m. Thursday in the Lubbock Municipal Auditorium. All seats are reserved, and can be obtained at B-And-B Records or Record Town. Ticket prices are \$3.50, \$4.50 and \$5.50. The show is being brought to Lubbock by Calico Productions and KSEL.

SA seeks members for student committees

Student Association (SA) President Bill Allen. Officers are currently looking for persons to serve on University Complex Committees, according to SA office in the University Center.

Preacher's wife denounces women's lib after convention considers quota proposal

DALLAS (AP) — Mrs. Richard Sappington set women's liberationists on their ears at the Southern Baptist Convention here this week. She told the 5,000 messengers that women should be submissive to their husbands and she objected to expansion of their role in the denomination.

She pretty well killed a carefully-worded proposal urging churches to ordain women and calling for quotas for women on boards of the 12.3 million-member organization.

But what does her husband think of all this?

"She felt inspired by the Holy Spirit to speak out against a movement of trying to project women to the roles of preachers," declared the Rev. Richard Sappington, pastor of Cloverleaf Baptist Church in Houston, Tex.

Does he rule the home with an iron hand?

"No, I don't think she's more submissive than any other wife. She argues, she's a natural

woman," he said.

Her stand, said the Rev. Mr. Sappington, has not caused problems in his 500-member church. "The entire church is behind her on this. She's a messenger delegate to the convention and she has a right to be heard," he said.

"God calls men to preach the work of God. He does not call women to preach but He calls all of us to be witnesses. He calls women in some roles that he does not call men to — these roles include the important one of keeper of the home," Sappington said in an interview.

KTXT--FM BIG 92

PLACEMENT SERVICE

INTERNATIONAL BUSINESS MACHINES CORP. Tuesday, June 18 Bachelors' and Masters' Degrees. Majors: Fin., GenBus., Mgt., Mkt., AgEco., Eco. Other majors if interested in assignment. To design, produce, market, and improve information handling systems.

TEXAS INSTRUMENTS, INC. Thursday, June 27 Bachelors' or Masters' Degrees. Majors: CHE, IE, EE, ME. Organization is a decentralized operation. Products include special metals, controls, transistors, and systems.

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Bike no longer 'just bike'

By ROSEMARY VAVRIN
UD Staff
A bike is not a bike any more. It's a motor vehicle!
Except for taxes and registration, a bicycle has been considered a motor vehicle, according to Texas law since 1972.

In one of their leaflets, "Texas Tech University Bicycle Regulations," the University Police estimate there are 3,000 to 4,000 bicycles on the campus at any one time.

Bicycle riders, like automobile drivers and motorcyclists, are required to observe all traffic laws, according to R. L. Hamilton of the University Police.

One of the main traffic problems with bikes, according to Hamilton, is when both a car and a bike have stopped abreast for a red light or stop sign, and one or both of them wants to turn right.

For the bicycle rider's safety, Hamilton suggests he should pause a moment and allow the car to proceed first because the automobile driver is often not

aware of the bike next to him. Five to six moving citations a week are issued to bicyclists on campus, Hamilton estimated. These are not campus tickets, stressed Hamilton, but city tickets. The student must go to Municipal Court to pay the fine or to contest the ticket.

Sometimes students do not see the importance of just a "little ol' bike ticket." But if it is not paid, the judge at Municipal Court will issue a warrant for failure to appear. And this costs \$27.50 plus the original fine. Quite a bit for a "little ol' bike ticket!"

The first few days of a semester, said Hamilton, the bike officer issues only warnings, except in hazardous conditions. After the first few days, he begins issuing city tickets for moving violations.

The only strictly campus tickets issued are the parking tickets, which apply only to automobiles.

City tickets are also issued at night to bikes without a front

light and a red rear reflector. According to current Texas law, the bicycle rider also has to give the right-of-way to the pedestrian.

University profs on bicycles are treated no differently from students when it comes to moving citations, Hamilton said.

Bicycles are not supposed to be ridden on the sidewalks, since they are considered to be motor vehicles now. But, said Hamilton, since the bicycle racks are near the buildings and away from the roads, the University Police usually do not enforce this.

Bikes should not be locked to shrubs, trees or light poles. Especially bad is chaining a bike to a young sapling tree — the chain damages the sensitive trunk of the transplanted tree.

At the request of maintenance, construction, or other official agencies, the University Police will cut the chain of a bike locked to a tree or light pole and impound it in the "bicycle pound."

According to Hamilton, the

University Police have caught students with bolt cutters.

"The \$1.50 to \$5 chains with locks included are not worth what you pay for it," Hamilton said. "A wire cutter can cut the chain, and an experienced person can open the lock easily."

A separate lock and key is the best. A chain with an outer diameter of 3/4" to 1 1/4" or more is the best. A Master combination lock is made well and does not deteriorate easily, said Hamilton.

In May of this year, 18 bikes were reported stolen on campus. Most of them were chained. So far, only four of them have been found, said Hamilton.

At the end of each semester, the University Police cut the chains on bikes locked to anything but regular bike racks, and impound the bikes. They also list the bikes left on the bike racks.

The best way to chain a bike, said Hamilton, is to run the chain through the front wheel, the frame, the rear wheel, and a stationary object, like a bicycle rack.

Students have locked their bikes by running the chain through only part of the bike, only to find on their return just that part remaining.

To aid in recovering stolen bikes, the University Police offer a free registration system to all bike riders.



Damages trees

Chaining bicycles to young trees damages the plant, often killing it. Tech policemen are authorized to cut any bicycle chained to a tree and impound it. The police advise chaining bikes to the special racks near each building.

Tech Theatre begins summer ticket sales

Students and faculty season tickets for the University Theatre's eighth repertory season, Festival of Comedy II, are now on sale at the University Theatre.

The holder of a season ticket is entitled to one reserved seat for each of the three plays. A student season ticket is \$3 and the faculty season ticket is \$5. Festival of Comedy II runs from June 28-July 12 with performances nightly at 8:15. As in the past repertory seasons, an intimate theatre setting is being used. This year, the stage is set up in three-quarter arena, with the audience seated entirely on the state with the actors. The plays offered this season are Bus Stop, My Three Angels, and The Road of the Greasepaint-The Smell of the Crowd.

Bus Stop, a romantic comedy by William Inge, is being directed by Ronald Schulz, director of last fall's Indians. Bus Stop is set in a small roadside diner not far from Kansas City, in the early morning hours during a blizzard. The bus passengers and the people who work in the diner gain insight into the many different kinds of love while waiting for the road to be cleared. Bus Stop is of particular interest to the nostalgia buff, being produced in authentic 1950's costumes.

My Three Angels, by Sam and Bella Spewack, is directed by Clifford Ashby, the director of

Oklahoma last spring. My Three Angels is an hilarious and heart-warming twist on the Christmas story, where Santa's helpers are three convicts who have escaped from Devil's Island.

The Roar of the Greasepaint-The Smell of the Crowd, directed by Richard Weaver, is the one musical comedy of this season. Leslie Briscusse and Anthony Newley in this fresh look at life, pit the underdog, Cocky, against Sir, in the game of life. The only problem is that every time Cocky comes close to winning, Sir changes the rules.

Information and reservations may be obtained by calling 742-2153 or coming by the University Theatre box office between 9:00 a.m. - 5:00 p.m. weekdays.

Meet planned on preserving historical data

A first-time opportunity will be offered West Texans June 21-22, when the Texas Historical Commission joins with the Ranch Headquarters Association to provide a regional conference on historic preservation and restoration.

The conference is the first of its kind to be sponsored by the Historical Commission outside the Austin area. It will be held at the Tech Museum.

It is called a Regional Conference on the Preservation and Restoration of Ranch Architecture and Interiors and will deal not only with the broad issues of the importance of America's western frontier, but also with the detail of craftsmanship in restoration.

The conference is open to the public at a pre-registration fee of \$17.50 including a chuck-wagon lunch on Friday and, Friday night, a company supper and prairie party. The conference will end Saturday with the 11 a.m. dedication of the Masterson JY Bunkhouse at the Ranch Headquarters adjacent to the Museum.

Deadline for pre-registering for the conference is June 15. It may be possible for a limited number of persons to register the morning the conference opens at a fee of \$20, but there are no guarantees because of space limitations at that date, Ranch Headquarters Association officers said.

Participants will have an opportunity to go behind the scenes at the Ranch Headquarters to see demonstrations of thatching, whitewashing, stone masonry, wood preservation and branding.

Lodging reservations may be made individually by participants. Those who wish to participate in Saturday activities only may do so for a fee of \$3. Friday registration begins at 8 a.m. at the Museum. Saturday sessions begin at 8:45 a.m.

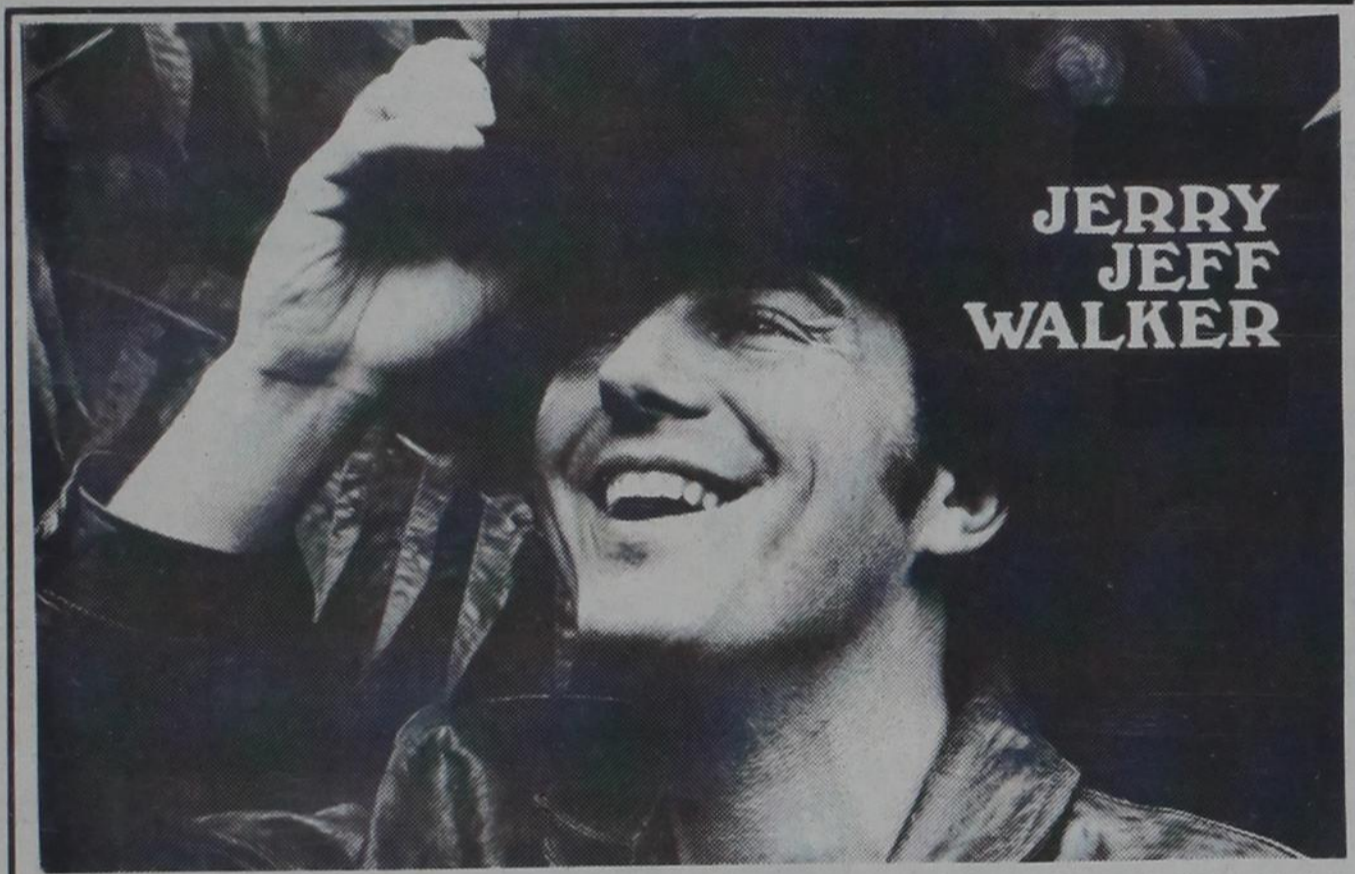
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MOVIE WRAPUP

By WILLIAM D. KERNS
Fine Arts Editor

The re-issues are still among us, but at last we can also admit to several new titles hitting the Lubbock marquees. Now if things will only pick up a little more... Anyway, if they don't, we can all at least look forward to next Wednesday's UC presentation in the pit: the double bill of "House Of Wax" and "Comedy Of Terrors." In the meantime, let's take a look at this weekend's offerings:

ARNETT-BENSON: "Alice In Wonderland"—I enjoyed it, but then I enjoy most of Disney's old animated stuff. Choose for yourself.

CINEMA I: "A Reason To Live; A Reason To Die"—This new Italian western doesn't look too promising. And it's certainly not original, whatwith the "six condemned prisoners" being given another chance. Call it a Dirty Half-Dozen.

CINEMA II: "The Exorcist"—A truly magnificent piece of film-making. And, contrary to rumor, I still believe the only thing the film is hurting is the companies putting out split pea soup.

CINEMA WEST: "The Poseidon Adventure"—This re-issue is still going strong. I guess not many realize that it's been sold to TV for the upcoming season. I certainly

wouldn't PAY to see it again.

FOX I: "The Midnight Man"—This new Burt Lancaster who-done-it-and-why is supposedly on the lines of his last one called "Scorpio." The latter was rather muddled; let's hope this one fares better.

FOX II: "Mame"—Starting tonight, Lucille Ball once again graces a Lubbock screen. Don't let the fact that this is a musical and she can't sing bother you—because Lucy says it's great, anyway.

LINDSEY: "The Last Picture Show" and "Easy Rider"—Well, I don't know what the prints are like, but if they are not too scratched up, this would make an excellent double bill. Both are fine films. The former was directed by Peter Bogdanovich and saw Cloris Leachman and Ben Johnson win Academy Awards; the latter is directed by Dennis Hopper, and won Jack Nicholson a nomination.

SHOWPLACE FOUR I: "The Supercops"—A combination of "Busting" and "Serpico", the funny and serious sides of corruption in the New York Police Department. But this film is more funny than serious. Admittedly trite at times, but the laughs are worth it.

SHOWPLACE FOUR II: "Conrack"—Jon Voight gives a superlative performance in this

somewhat hokey little film about the difficulties of a white school teacher. He makes the whole thing stay afloat.

SHOWPLACE FOUR III: "The Three Musketeers"—A marvelous extravaganza with laughs, love and (this is the best part) a marvelous cameo by a servant in a Polar Bear suit. If you want to laugh and just plain enjoy yourselves at the movies, this one is the picture you're looking for.

SHOWPLACE FOUR IV: "The Sting"—Paul Newman and Robert Redford are still separating fools from their money in this two-hour depression age comedy. Luckily the viewers aren't the fools, as your money will buy you an enjoyable evening. (Nevertheless, this film is not Academy Award material...so don't expect it to be).

VILLAGE: "The Mutations"—Cheap horror thrills. What more can I say?

WINCHESTER: "The Great Gatsby"—Terrible. Boring. Disgusting. Disappointing. Or just plain godawful. Pick one of the above.

For future plans, look for the musical adaptation of "Huckleberry Finn" to be released soon. If it's just half as good as the musical "Tom Sawyer", we, the viewers, are all the luckier.

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Mezzo-soprano schedules program series in area

Music fans on the South Plains will have another opportunity to hear Theresa Treadway-Carroll, Tech's Affiliate Artist, when the mezzo-soprano returns to Lubbock the week of June 16 to present a series of programs at the university and throughout the area.

Scheduled during the 10-day series beginning June 16 are a variety of events, ranging from "informances" (informative performances) for students and other groups to a recital featuring the visiting artist at 8:15 p.m., June 18, in the University Center (UC) Ballroom.

For her recital program Carroll has selected works by some of her favorite composers, including Bizet ("Seguidilla" and the Gypsy Song from "Carmen"), excerpts from the music drama "Euridice," by Jacape Peri, along with songs by Mahler, Obradors, Lully, Faure, Hageman, Rossini, John Alden Carpenter and Carrie Jacobs-Bond. Her accompanist will be Trudi Post. The recital is open to the public at no charge.

Carroll, whose appointment as Affiliate Artist at Tech is sponsored by the Sears-Roebuck Foundation and the National Endowment for the Arts, gave her first performances at Tech in March.

Her first appearance in the current series will be June 16, at the 10:45 a.m. worship service at First Baptist Church and she

will sing the following Sunday, June 23, at the 10 a.m. worship service at Oakwood United Methodist Church.

Carroll will hold an informance for Tech students at 10:45 a.m., June 17, in the Music Building. June 20, she will present a program at a joint dinner meeting of the Lions Club and Rotary Club in Floydada.

Other informances scheduled during the following week include, June 24, at the noon meeting of the South Plains Shrine Club at the Johnson House Motel; June 25, at the noon meeting of the Lions Club at KoKo Convention Center, and at 3 p.m. June 25, a program which will be open to the public in the Lubbock City-County Library Auditorium. Carroll also will give an interview - informance for broadcast over KTX-TV on the South Plains Artists program hosted by John Lacy.

The purpose of the Affiliate Artists program is to extend and deepen public appreciation for the live performing arts while providing professional career opportunities to performers in the middle stages of their artistic development.

As an Affiliate Artist, Carroll will spend a total of eight weeks on campus during the current year, highlighted this fall by a performance in the title role of "Carmen" for the Texas Tech

Music Theatre production of the Bizet opera in November.

Between engagements at Tech she performs with the Lake George Opera Company, on tour with the Goldovsky Opera Theatre and, during the winter season, with the Boston Opera. She recently sang a principal role in the Boston Opera Company's American premiere of "War and Peace," a performance that was highly acclaimed by the critics.

A graduate of the University of Oklahoma, Carroll has studied at the Sherwood Music Conservatory in Chicago and at the Metropolitan Opera Studio in New York. In addition to her operatic roles, her appearances in the East have included performances in Lincoln Center, Carnegie Hall, and the Newport Festival.



Opera star in city

Theresa Treadway-Carroll sings "Carmen" to Jeff Fredericks' Don Jose. Carroll will perform songs from the Bizet opera at a recital performance June 18 in the

University Ballroom and also will be heard in the title role of "Carmen" in November when the University Music Theatre produces the opera.

Rhode Island teacher named visiting prof

Dr. Frederick H. Hartmann, Special Academic Advisor to the President of the Naval War College, Newport, R.I., has been appointed a Visiting University Professor at Tech in the Department of Political Science for the 1974-75 academic year.

The appointment of the Alfred Thayer Mahan Professor of Maritime Strategy at the Naval War College to the Texas Tech position was announced by Tech President Grover E. Murray.

Hartmann will teach at least one course in International relations or U.S. foreign policy in the Department of Political Science each semester of the academic year and "because of the broad interests of Prof. Hartmann in international politics and foreign policy, he should be an invaluable resource person for lectures, consultation, etc. in these areas

for the university as a whole," said Dr. Jack W. Hopkins, professor and chairman of the Department of Political Science.

The Visiting University Professor program was established last year and Dr. Hartmann will be the second to hold the position. The first is Dr. Max Fisch in the Department of Philosophy.

Hartmann has served as Special Academic Advisor to the President, U.S. Naval War College, and as Mahan Professor of Maritime Strategy since 1966 and has held the title of Supervisory Professor since 1968.

Hartmann earned a bachelor's degree from the University of California at Berkeley and a master's and a Ph.D. from Princeton, the latter in 1949.

NSF awards grants to Tech engineering students

Nine Tech students, most of them electrical engineering majors, have been chosen to conduct guided research or independent study this summer under grants awarded by the National Science Foundation (NSF).

Two others will do research funded from other sources of the Electrical Engineering Department of the university, according to Dr. Russell H. Seacat, department chairman.

They are among more than 1,300 top college students throughout the country participating in NSF's Undergraduate Research Participation (URP) program on projects devoted to the energy problem or the improved management or use of renewable natural resources.

NSF grants totaling more than \$2 million were awarded to 144 colleges and universities in 45 states, supporting 173 projects. The Tech grant was

for \$16,200, according to Dr. John D. Reichert, professor of electrical engineering and director of the project.

Students in URP projects are selected to work in specific projects closely matched to their interests and background. Participants will receive stipends of \$80 per week for the 12-week summer projects.

Students participating in the program, along with their research topics and their faculty advisors, are:

Joseph L. Ashby, Victoria, sophomore electrical engineering major, solar-electrical integrated energy systems, Dr. John Craig.

Alex Auyenung, Hong Kong, sophomore electrical engineering major, development of a control system for an innovative wind-to-electrical energy conversion system, Dr.

Tom Burkes.

Robert N. Barnett, Plainview, senior engineering physics major, controlled thermonuclear reactors: plasma preionization for CO2 laser heating, Dr. Magne Kristiansen.

Marianna Bryant, Lubbock, sophomore electrical engineering major, computer graphic analysis of urban energy use and cloud cover, Drs. Will Portnoy and Don Gustafson.

Andrew H. Bushnell, Englewood, Colo., junior electrical engineering major, design and construction of a dye laser for characterization of solar cell materials, Drs. John D. Reichert and Martin Gundersen.

Randy Crumley, Midland, junior engineering physics major, measurement of energy transfer to a plasma, Drs. Kristiansen and Marion Hagler.

Donald Bruce Doherty Jr.,

Fort Worth, junior electrical engineering major, chemical storage of solar energy, Dr. Reichert.

Eloise Hickey, Fort Worth, junior civil engineering major, determination of wind structure as related to wind power generation, Drs. Kristiansen and Kishor Mehta.

Jon S. Jasper, Lubbock, senior electrical engineering major, development of a wind-to-electrical energy conversion

system using the linear induction principle, Dr. Stanley Liberty.

Parman Reynolds, Amarillo, senior electrical engineering major, quantum efficiency of solar cell materials, Dr. Gundersen.

Terry D. Wynn, Memphis, Texas, junior mathematics major, computer simulation of an economy limited by nonrenewable energy resources, Dr. Hagler.

Unclaimed bikes on sale at city auction June 22

The City of Lubbock will sell more than 70 bicycles to the public at a special bicycle auction, June 22. The auction is set for 9:30 a.m. at the Sanitation Barn, 324 Municipal Drive.

Persons may bid on 72 bicycles, two lawnmowers and

one lawn edger, all of which have been turned in to the Police Department as abandoned property and have not been reclaimed.

All sales will be for cash on an "as is, where is" basis. All sales will be final.

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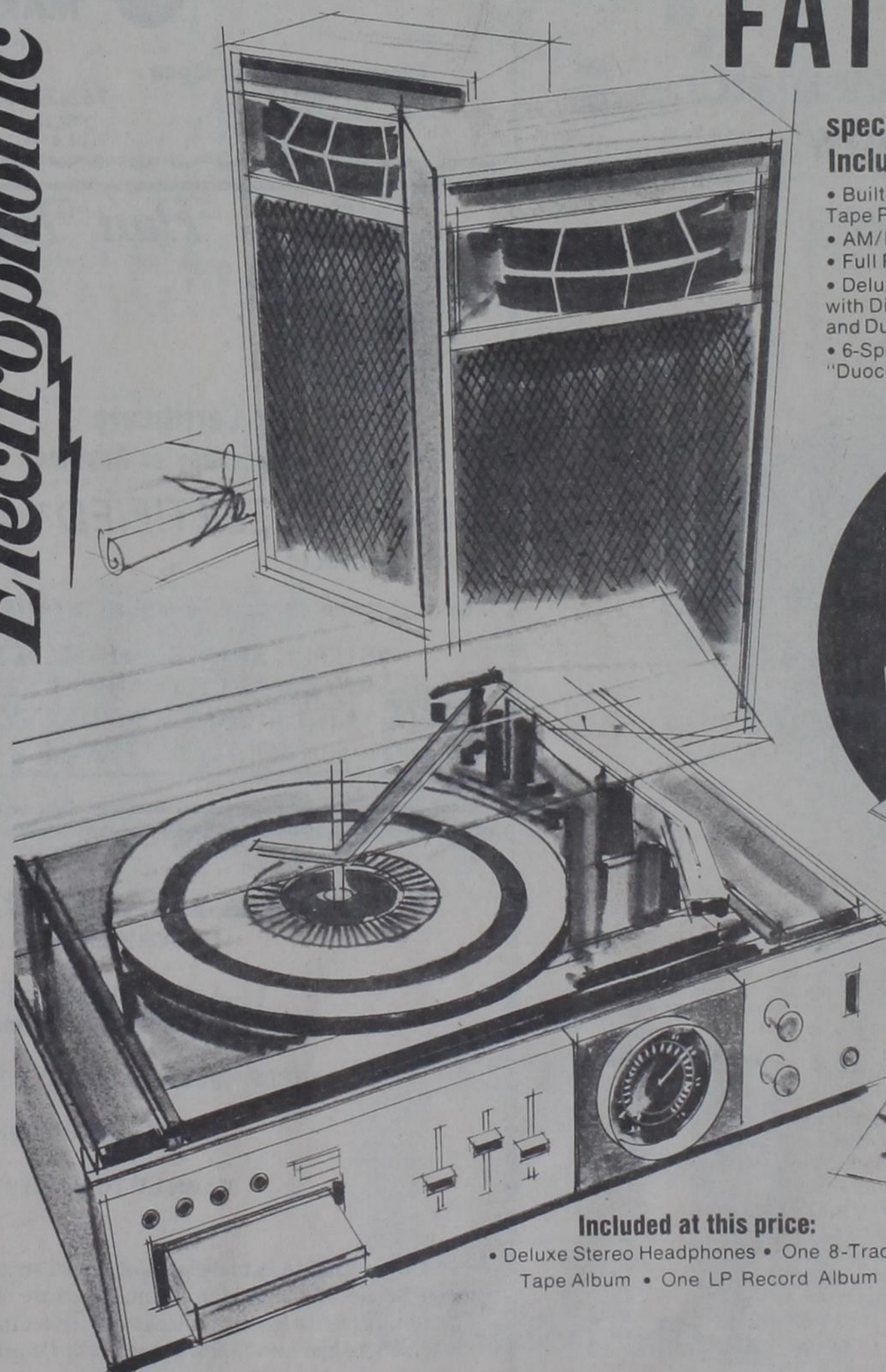
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Appraisal of land values moves into computer age

Any by-guess-and-by-golly trading in rangelands is a thing of the past, and computer programs which can predict land productivity are taking over, according to Tech faculty coordinating a weeklong Ranch Appraisal School now under way.

The school is sponsored by the American Society of Farm Managers and Rural Appraisers

(ASFMR). It will be headquartered at Tech through Saturday although participants are spending a good part of the week visiting six ranches in the area — taking with them their pocket computers to speed their value calculations.

There's just no way to do this job right today without computers said Dr. Rex P. Kennedy, a member of the agricultural economics faculty at Tech.

Kennedy said that one part of the program will be an explanation of a computer program he has developed for establishing a rangeland productivity index.

"The program is a means for determining the difference in productivity of different rangelands," he said. "This is a job that is so difficult on rangelands that computers are really a necessity."

He said participants in the school will be given a printout of the work and will be asked to use it to appraise one ranch, comparing its productivity with that of the five other ranches they will be visiting.

Forty-six persons signed up for the Ranch Appraisal School and another 28 have pre-

registered for the ASFMR's Eminent Domain School which will follow at Tech June 16-20.

This is the first time in four years that the schools have been offered at Tech. The schools are presented every two years in Texas, traditionally alternating between Tech and Texas A&M University.

Faculty members for the Ranch Appraisal School are Delos Ellsworth, Mesa, Ariz., state senator and former president of ASFMR; Armand L. Smith, Clovis, N.M., District I vice president of ASFMR; Dr. Willard F. Williams and Kennedy, both of the Department of Agricultural Economics at Tech, and H. M. Bell, Hale Center, retired Soil Conservation Service range management specialist.

Classes include principles of valuation to include market data analysis, irrigation and water rights, capitalization process and general field procedures. Case studies and problems go along with instruction in theory for each of the six days of the course. A three-hour course examination will begin at 1 p.m. Saturday.



Ellsworth



Smith

Educational aid group seeks program director

Educational Talent Search in Lubbock is now accepting applications for directorship of the program.

According to Lupe Rodriguez, acting director, Educational Talent Search seeks out students with ability to attend post-secondary schools and advises them on career opportunities, educational facilities, and making applications for financial assistance.

"We help high school students find financial aid and help with admission forms to different universities, especially Tech," she said.

The program is sponsored by LEARN, Incorporated and funded by the Department of Health, Education and Welfare under the Higher Education Act.

Applicants for director must have at least a bachelor degree

or be a 1974 summer graduate. "A bilingual or bicultural person is preferred, but is not mandatory," said Rodriguez, "because the majority of the students we work with are Chicano."

The director of Educational Talent Search will work with a full and part time staff and be responsible for the development and administration of the program. Salary will be commensurate with education and experience.

Rodriguez said that degrees in education or sociology or previous experience working with high school students and school administrators would be helpful to applicants.

Interested persons may send a resume to Educational Talent Search, 1203 University Avenue, Suite 208, Lubbock, Tex., 79401, or call 763-4256 for further information.

Tech team to begin study of fauna in Adriatic area

Research into the animal life of the Adriatic islands and parts of Yugoslavia and its origins and development will begin early next month by two Tech scientists and two graduate students.

They will join Yugoslavian biologists in the field and laboratory study of the development of mammalian fauna resulting from environmental influences including invasion, colonization, adaptation, ecological and morphological differentiation and re-invasion, among others.

The study is funded by a \$40,167 grant from the Smithsonian Institution and the Yugoslavian government.

Texas scientists J. Knox Jones Jr. and Wilford C. Carter pointed out that the Adriatic is a shallow sea separating the Italian Balkan peninsulas which are formed principally by the Spennin and Dinaric Alps, respectively.

Geographic distribution of some mammals suggests, they said, periodic rising and falling of the Adriatic floor during past geological ages, permitting exchanges and migrations of mammals between Italy and the Balkans.

"The Balkans have served as a corridor for faunal exchange between Western Europe and the Middle East, and, periodically during Pleistocene glaciations the mountains probably have functioned as filter zones for some mammals," Dr. Jones said.

There are 15 major islands and many smaller islets lying along the Adriatic coast of Yugoslavia. Mammalian life on

the islands and on the adjacent mainland has not been studied extensively, but it is evident that the islands have been connected periodically to the Yugoslav mainland, resulting in a complex arrangement of animal populations and distributional patterns, the Tech scientists said.

Dr. Jones, professor of biology and dean of the Graduate School, and Dr. Carter, associate professor of biology and associate dean of the Graduate School, are principal investigators of the project. Dr. Jones has just completed a year as president of the American Society of Mammalogists.

The principal field assistants from Tech will be Stephen L. Williams of Midland and John C. Hafner of Albanay, Calif.

Beatrice Dulic, associate professor, Zoological Institute, Faculty of Natural Sciences and Mathematics, University of Zagreb, will be the principal investigator for the Yugoslavian government.

The project will consist of a faunal survey of the Adriatic Islands, Yugoslav coast and western slope of the Dinaric Alps to determine the kinds of mammals present and their current geographic and ecological distribution and to obtain samples of data adequate for modern systematic techniques.

"This information, combined with natural history and ecological data collected during the course of field work, will provide a data base capable of generating numerous additional studies, not the least of which could be a series of statistical analyses of morphometric and ecological data," Dr. Jones said.

The field work will be accomplished during the summers of 1974, 1975, and 1976.

Jones and Carter will accompany the graduate students to Yugoslavia late this month in preparation for the beginning of the project July 1. The two professors will return soon, but the students will remain during July and August to work with three Yugoslavian student researchers to accomplish the first summer's field work.

The Museum of Tech University will furnish laboratory facilities, equipment, and supplies for study, classification and maintenance of specimens shipped to, and deposited in, the permanent collection of mammals, Dr. Jones said. The research project will provide a number of unique specimens for The Museum.

Jones and Carter went to Yugoslavia two years ago to investigate the feasibility of the study.

Death sentence reviews asked

WASHINGTON (AP) — The Supreme Court has been asked to review death sentences pronounced since it ruled nearly two years ago that capital punishment as then being practiced was unconstitutional.

Lawyers for five North Carolina men petitioned the court Tuesday to hear their argument that the death penalty as it has continued in that state is cruel and unusual punishment in violation of the Constitution. The petitions for review are expected to be considered by the court next fall.

Busy summer seen for court

WASHINGTON (AP) — Chief Justice Warren Burger has told Senate Majority Leader Mike Mansfield that the Supreme Court will be busy this summer even though its members are doffing their robes for a few months.

In a letter released Wednesday, replying to Mansfield's suggestion that the court stay in session all summer, Burger said: "The myth that justices have a 'four months' holiday' — or even two — is the equivalent of measuring the work of members of Congress by the hours spent on the floor of either House or the numbers of days of sessions."

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RECORD REVIEW

By F. DAVID GNERRE
Fine Arts Writer

He is a singer, songwriter, a dedicated leader of fashion. He is a practicing bisexual. He was recently voted Britain's top vocalist in a prestigious pop music poll. He is David Bowie, an artist whose music ranks with the best made in the past four or five years.

At one time, a barrage of re-issues nearly caused a state of Bowie saturation. All those "new" Bowie records must have brought his more recent converts much confusion. Taken chronologically, however, the eight American David Bowie albums provide a fascinating look at the development of one of today's top rock talents.

Some of his first recordings can be heard on London's "Images: 1966-67" double album, a release that caused no little bewilderment among newer Bowie fans when it appeared last year. In the beginning, Bowie was a sort of mid-Sixties Anthony Newley; for that reason, these early songs are generally held to be pretty awful. I rather disagree—once one gets past the light pop arrangements, the lyrics begin to reveal themselves as quite striking, considering the time they were written. And therein, not incidentally, stands the big difference between David Bowie and his pop contemporaries.

A few of the tunes are silly, in particular "Uncle Arthur" and "She's Got Medals," but these are in the minority. His best early efforts deal effectively with the themes of childhood and adolescence. "There Is a Happy Land," for example, is an affecting ode to the special secrets of childhood. "London Boys," perhaps my favorite Bowie song of the period, concerns the corruption of a youth who finds himself on his own in a big city. All in all, this isn't a record for everyone; those who expect to hear him rock should steer clear.

Among his subsequent recordings was a song called "Space Oddity," which caught on in Britain but failed here. The song was later acquired and re-released by RCA. It finally hit here, only five years after it was recorded. The LP containing it was also re-released, sporting a different cover and new title, "Space Oddity."

This album, done in 1968, veers sharply from the pop ambience of the previous recordings, providing a glimpse of what was in store for the future. One song in particular gives an indication of Bowie's new-found direction: "Cygnets Committee," an almost indescribable nine and one half minutes of largely impenetrable lyrics, is replete with techniques found in later Bowie recordings. For one thing, echo is used on his voice; also, sharp rhythm guitar chording is employed to great advantage. The song builds to an appropriate climax that overwhelms the listener, even if he (like everyone else) doesn't quite understand what it's all about.

THE NEXT ALBUM, "The Man Who Sold the World" (originally released with a neat cartoon cover), was a dream come true for fans of hyper-kinetic, slashing rock and roll. Bowie, by this time an accomplished lyricist, assembled for the sessions one of the hottest quintets ever to set foot in a recording studio. Producer Toni Visconti enhanced the singer's already unusual voice with myriad recording techniques, and added to these tracks his own scorching bass guitar. Rhythm guitarist Mick Ronson, who was to grace the next four Bowie LPs, made an auspicious debut with a searing sonic assault.

Nearly all cuts are standouts. Perhaps the best is "She Shook Me Cold," a tune with bizarre sexual imagery and a wild instrumental break. Another incredible song is "All the Madmen," five minutes of lunatic frenzy. In this writer's humble opinion, "The Man Who Sold the World" is one of the ten best rock albums ever recorded.

After "The Man Who Sold the World" Bowie changed both record companies and musical direction. 1971's "Hunky Dory" was done in a much lighter vein; only the Velvet Underground-inspired "Queen Bitch" retains any of the rocking fervor of the previous recording. Two of the better tunes are "Changes," with

its irresistible stuttered chorus, and "Kooks," a catchy affair dedicated to Bowie's son Zowie. The arrangements are ace, and only a couple of songs fail to please. And "Hunky Dory"'s cover, which pictures him as rock star-turned-Lauren Bacall, actually stirred up a slight controversy.

The following year he unleashed "Ziggy Stardust and the Spiders from Mars," a concept album concerning rock ad roll stardom. On it Bowie lets loose with some of his best songs ever, and Ronson again shines on guitar. Whereas so many similar projects have failed, this one succeeds admirably; the second side, a suite of conceptually linked compositions, come across particularly well.

Few artists have depicted the rock merry-go-round as well as does Bowie on "Ziggy Stardust." The Kinks' "Lola" album is a commendable attempt, and recent "Hoolie's" various essays on the subject (especially the recent "Marionette") rank with the best. Anyway, "Ziggy Stardust" is one of 1972's finest records, one which has lost none of its original impact.

"Alladin Sane" appeared the next year. Despite the presence of "Jean Genie," Mick Ronson's one-man Yardbirds rave-up, the album doesn't meet Bowie's usual high standards. "Pinups" followed. A great idea in theory, it comes off as too slick and polished. With "Alladin Sane," it marks a minor slump in Bowie's recording career.

The latest Bowie release, "Diamond Dogs," is without the services of Mick Ronson, who is currently being touted as a solo artist. (Ronson's debut concert in London, by the way, was the subject of a scathing Melody Maker article that lambasted the Bowie people for their purported manipulation of the guitarist: "He wasn't ready for this big hype," read the piece, "and he couldn't sustain it.") Consequently, Bowie steps in on electric

David Bowie's music ranks with era's best

guitar and does a bang-up job. His screeching feedback onslaught near the end of side one, for instance, is really great noise.

"Dogs" is another concept album of sorts, which as nearly as I can tell deals with Bowie's apocalyptic vision of man's future. It all comes off very well, in particular "1984," with an introduction right out of "Shaft" and "Rebel Rebel," undeniably one of Bowie's best singles ever. The latter is the album's strongest selling point, with a great guitar hook and lines like "Your face is a mess" that led one to believe that he had Iggy and the Stooges on the box when he wrote it.

Throughout these eight long-playing records, one thing remains constant: whatever the themes of his writing, and whatever the musical context he chooses to put them in, David Bowie has always had something to say and a special way in which to say it. For that, and for "All the Young Dudes," he deserves a 95 at the very least.

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26 Copy
28 Each (ab.)
29 French novelist d. 1817
31 Planet
33 Beleaguered country
35 State (ab.)
36 Restrained
39 Throb
42 Gold in heraldry
43 Burns
45 Charlie Brown's expletive
46 Hey, -I
48 Vapid
50 Sort of profit
51 Enough (arch.)
53 Underground bud
55 Right end (ab.)
56 Dash
59 Somewhat
61 French river
62 Planet

DOWN
1 Knave
2 - Cid

3 Fasten with wooden pegs
4 - my soul
5 Council
6 Engineering Corps (ab.)
7 Exclamation
8 Gypsy boy
9 Open railway car
10 Used with "sheep" and "goat"
11 Becomes a member
13 Analysis of ore
19 Qantas' mascot
21 Orail
22 Raised just off the bottom
25 Approaches
27 Happen
30 Mineral veins
32 Polish lancer
34 Part of a pair of pants
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38 Colorless
40 Music buff's pride and joy
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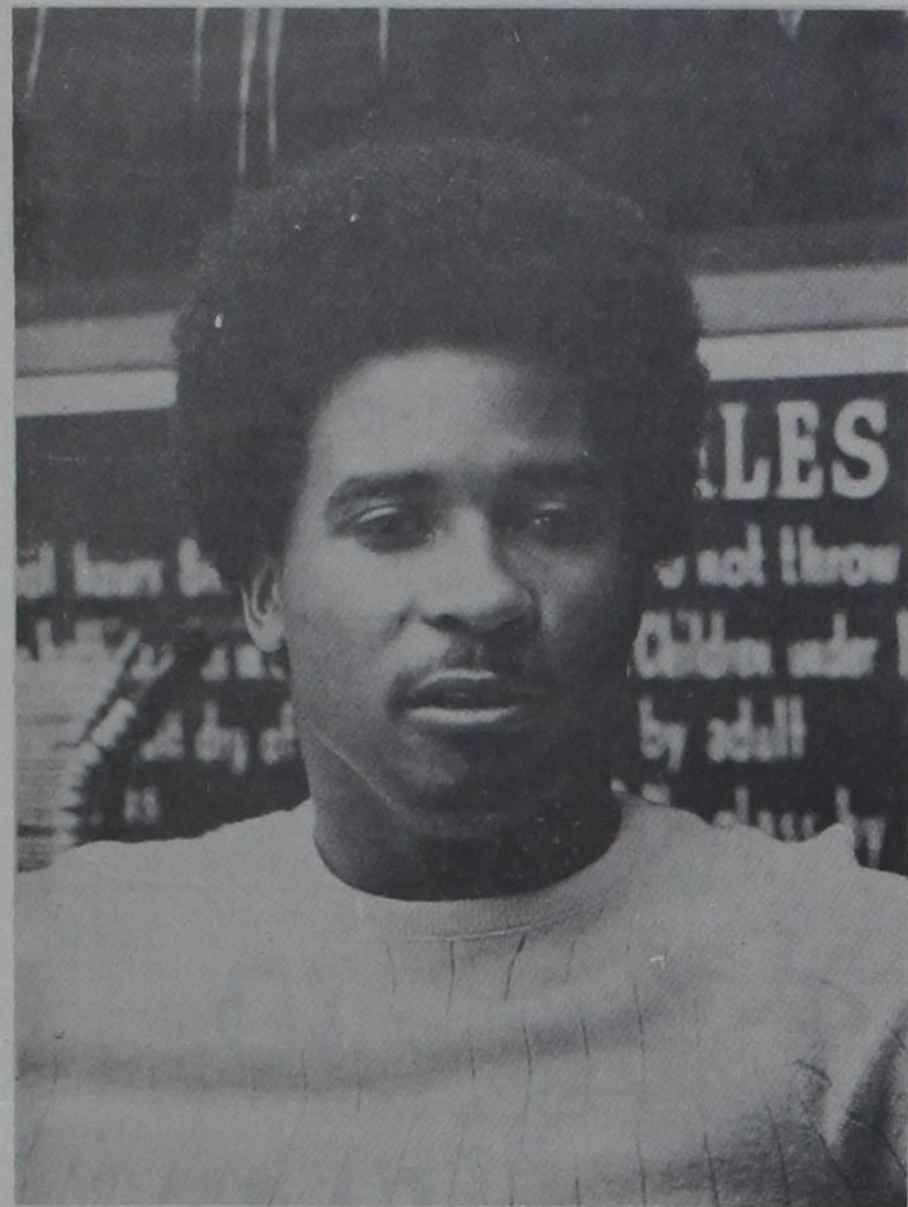
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Football's a fun thing with Swann

By WILLIAM D. KERNS
Sports Writer



Lynn Swann

One would not think any football player would consider the opportunity to play the game in the heat of summertime West Texas a "fun thing to do," especially since he is risking injury a mere month before he reports to his NFL team's training camp. But Lynn Swann, a consensus All-American flanker from the University of Southern California, is not exactly the picture of your stereotyped football player.

In fact, he thinks most all-star games are "fun," and shrugged off the possibility of muggy playing conditions at the Coaches All-America Game here June 22 with, "Well actually, it must have been 100 degrees on the playing field at Georgia Tech. And 95 at Oklahoma ... and Texas Tech practices here during the summer, so it's really no big deal."

All-star games themselves, though, are a different matter. "I like them. You get to meet players you've just read about, and this one's also being played for a worthy cause (Lion's Club Charities)." He did differentiate by explaining that the game is "fun" only if the players have relatively light workouts, but "what I don't like is when the coaches consider the game a proving ground ... After all, all-star games are really simply a reward system for the athletes who have already proven themselves in college."

Indeed, Swann is not the amateur who needs to be tested. He set a USC career reception record by hauling in 96 passes. And in 1973, the young receiver caught 42 passes for 714 yards and six touchdowns, averaging 17 yards per grab. He was selected in the first round of the National Football League's spring draft by the Pittsburgh Steelers (who told him to "come to Lubbock, have fun ... and catch at least three passes") — but he was also

recruited by the Memphis franchise of the newly formed World Football League. Asked for the deciding factor between the two offers, Swann honestly responded with "the financial aspects."

He explained that security was the number one item on the agenda, going on to comment that "only 1 per cent of the college players ever make it to the pros. And the average playing career of a pro - football player is only 4.7 years. So really, you take what you can get." Swann did add that, had he decided to accept a bid from the WFL, he would have insisted on having his money placed in escrow "in case the league folded."

But in retrospect, Swann commented that "another league is capable of lasting" and that all the WFL needs is a few breaks. Oddly enough, he thinks that one of the new league's major problems will be lack of adequate television coverage (as compared to that awarded the NFL).

Asked if he didn't think the addition of WFL games to the present schedule of Saturday college games and pro games on Sunday and Monday might see the television public "burned out" on watching football, he responded with "No, because you'll find people only looking at the very good games like Pittsburgh - Oakland, or Dallas and the Rams."

Being drafted as a wide receiver, Swann will, of course, find more freedom granted him by the NFL's new ban on bump-and-run tactics. But when it comes to the recently approved NFL rules in general, he commented that the wrong people were involved. Like many others, he believes "the coaches should have had more say-so than the owners, since it's the coaches who are on the field. They're the ones figuring strategy."

The question arose as to whether the NFL could have attained their goals (namely, more scoring and more offensive excitement) simply by outlawing the hard-to-penetrate zone defenses. Swann firmly denied it, immediately pointing out the

amount of scoring achieved against college zones and the memorable game in which LA receiver Harold Jackson burned the Dallas Cowboys' zone on four long bombs.

As he explained it, "There is an inability to cope with zones, but the pros just haven't yet adjusted to it. But a turnover is demanded." And Swann thinks we'll see one soon because the new rules "should force the quarterback to have to identify zones."

The USC star, by the way, looks for his last game as a collegiate standout, the Coaches All-America Game, to be "a high scoring game with lots of excitement." He admits that the respective teams have no time to practice "sophisticated plays," but added that there will probably be a few "misdirection and gimmick plays" thrown in. As for the question of timing, he commented that the East-West rosters are "the pick of the crop," and that adjustments should be made during the first quarter.

Nevertheless, after the "fun" is over, Swann will be reporting to the Steelers camp ... hopefully not having to make any big decisions regarding another proposed player strike. He explained that the decision to strike or report to camp is "hardest on the rookies since, on the one hand, you're striking for your future; while on the other hand, you're not learning the (team's system ... More rookies are cut after strikes than at any other time."

But that's another bridge he'll cross only if necessary. For now, he's satisfied with the opportunity to show his stuff on June 22 in Jones Stadium. He'll have a national TV audience watching him and you can bet the Pittsburgh officials will be among them. And I don't think the West team's number 22 will be satisfied with just those three pass receptions.

Gradishar: brains as well as brawn

By WILLIAM D. KERNS
and
STEVE GRISSOM
Sports Writers

Anyone out there who thinks that football players get a sit-on-your-butt-and-watch-the-tube vacation during the summer months had just better take a few moments out to formulate some new thoughts. And a talk with Ohio State linebacker Randy Gradishar might help, since the two-time All-American is pretty much booked up for the summer ... and we don't mean with speaking engagements at local high schools.

Gradishar is presently in town promoting the Coaches All-America Game, a contest in which he'll participate (as a member of Johnny Majors' East squad) on June 22. But this

won't be his last all-star tilt. In fact, the next one will even demand that he report late for training camp (with the Denver Broncos' permission, of course).

Rookies are scheduled to report in mid-July, but Gradishar has already been extended an invitation to play in the game pitting the College All-Stars against the World Champion Miami Dolphins later that month in Chicago. He'll report to the Broncos the day after the game.

In the meantime, he'll be running, lifting weights and, just as important, studying the playbook the Denver club has given him. He explained that he couldn't really differentiate between pro and college football yet, but did admit that "I think there won't be much difference

physically, because I'm in good shape. The major difference will be a mental one: having to learn Denver's plays and procedures."

Indeed, brains as well as brawn are needed if one is to survive in the National Football League. And Gradishar is a man who possesses both, as he won the Big 10 Scholarship Medal for combined excellence in grades and athletics. The 6'3", 236-pounder also led Ohio State in tackles last year with 134, and was a first round selection by the Broncos in the recent draft.

Talking about his selection, Gradishar was not one to stifle his appreciation. "It was the most exciting thing to happen to me," he said. It was a dream come true ... (A pro football player is) something I've always wanted to be."

His selection may be the most exciting happening in his life — but when it comes to the most exciting game, though, the subject immediately turns to Ohio State's 42-21 victory over USC in the 1974 Rose Bowl. Gradishar admitted that "it would have been the Michigan game, but we tied them and actually beat USC."

The defensive back went on to give his feelings on the somewhat controversial decision which sent Ohio State to the Rose Bowl as Big 10 representative, shortly after Michigan came within a couple missed field goals of upsetting them. "At first I thought we

wouldn't go to the Rose Bowl, but then I found out the next day that we had been selected.

"And I think we (Ohio State) were the best representative from the Big 10. Because after all, we didn't lose in Michigan. We tied. And I think that if we had won that game, we could have been National Champions." As an afterthought, he laughingly added "...but then, I may be a little biased."

However, the Coaches All-America Game is the one presently on his mind. In fact, the decision to play was, for the most part, up to him. He explained, "It's the individual's personal choice whether or not to play ... And perhaps some professional teams don't want

their players to accept. But I wanted to play in this game because it's good publicity for me, Ohio State and the Denver Broncos". He also stressed that the June 22 tilt is being played for "a good cause," namely such Lion's Club Charities as the Crippled Children's Camp and Meals On Wheels.

As mentioned before, Gradishar is a man of intelligence as well as physical stature. He was a business (DE) major at Ohio State and still entertains thoughts of "someday going into a career in retail sales." But he may have to wait quite a while before that "someday" comes ... at least if the Denver Broncos have anything to say about it.



Randy Gradishar

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