

Students' guide satirizes Tech

Students are swamped with Form B's, C's, housing forms, and other paraphernalia at registration. This fall there will be another yet sometime satirical pamphlet for Techsians.

"Student Association's Guide to Lubbock and Texas Tech" has been termed by Student Association President Bill Scott as factual, informative, but also satirical. No one will know for sure what to expect since Scott claimed no one but the three editors and some executive officers have read the booklet.

One of the contributing writers of the booklet, who wanted to remain unidentified, claimed some advertisers had removed their advertisements because of the material.

The 10,000 copies will be at a table near the end of registration. Some copies will be in the dorms. The booklet is paid for by advertising only. Scott hopes the "guide" will become an annual affair.

The outline used for the guide is as follows:

INTRODUCTION
STUDENT LIFE
 CHOOSING A LIFE STYLE
 Satirical look at Tech Fraternity members, Hippies, Aggies, White Liberals, Independents, Minority Groups.

BOOZE, DOPE, SEX, AND CHEAP THRILLS
 Statistical approach to the above courtesy the Tech Psychology Department.

THE BRIGHT LIGHTS OF LUBBOCK
 Lubbock points of interest.
 Lubbock recreation and night life—theaters, clubs, map to the Strip, etc.

BE A JOINER
 Guide to service organizations at Tech and in Lubbock in which Tech students are invited to participate.

ALL ABOUT EVERYTHING
STUDENT GOVERNMENT
 Structure, Election schedule, Agenda for 1971-72.

ACADEMICS
 Advanced placement, Pass-Fail System, Grades, Brave New University.

TECH ATHLETICS
 Schedules, Ticket and Seating information.

UNIVERSITY DAILY
UNIVERSITY THEATER
 Critique, Schedule, How to participate.

KTXT RADIO & TELEVISION
UNIVERSITY CENTER
 Structure and functions of UC committees, how to join, Schedule of events 1971-72.

TECH LIBRARY
SPEAKERS SERIES — ARTISTS
COURSE
 CAMPUS MINISTRIES

FREE SERVICES
TEXAS TECH AND THE POLITICS OF LUBBOCK
 A PROFILE OF THE TECH BOARD AND CHIEF ADMINISTRATORS
 PROFILE OF CITY-COUNTY OFFICIALS AND STATE LEGISLATORS
 THE 18-YEAR OLD VOTER: REGISTER HERE.

STUDENT SURVIVAL KIT
NEW STUDENTS' GUIDE
 Map of Tech, Tech bus schedule, etc.
 GO ALONG TO GET ALONG: THE RULES

What to do, where to go, and who to see for every problem, and the probable outcome.

MISCELLANEOUS INFORMATION
 Student calendar, Useful telephone numbers, etc.

THE UNIVERSITY DAILY



VOLUME 46 NUMBER 145

Texas Tech University, Lubbock, Texas August 6, 1971

SIX PAGES

Tech expects 21,000 enrollment

If enrollment continues at its present rate, Tech will be facing a total enrollment over 21,000 and the largest freshman class in the past few years this fall, according to administration's predicated enrollment studies.

The main reason for the predicted growth is the increases witnessed in high school prospects attending the summer orientations, a 45 per cent increase in junior college transfers, and a 75 per cent overall increase in enrollment in graduate school over last year's enrollment at this date.

The administration's studies are concerned with new students only, which show a 9 per cent increase, and does not deal with students already attending Tech, explained Dr. Owen Caskey, associative vice president for academic affairs.

This year 3,389 high school graduates attended the six summer orientations compared with 3,212 last year. Five thousand and two high school graduates have already filed for admission, so Caskey expects nearly 2,000 freshman at the last freshman orientation during registration week.

Caskey expects the final freshman class to reach near 6,000; compared to 5,300 last year.

The graduate school increase was blamed partly on the job market. "Many graduates cannot find a job, so they continue their education," said Caskey.

Some specific departments will witness a drop in enrollment, such as the 7 per cent decrease in engineering. Caskey again said the job lay offs in the engineering field was partially responsible.

Dr. Sabe Kennedy, academic vice president, was pleased with the predicted enrollment increase because "it is a mark of confidence."

Kennedy also said the increase might be partly due to the University of Texas putting an early deadline (March) on

entering students. "Students who did not file by that date, had to look at other institutions who had no such deadline," said Kennedy.

Kennedy warned that enrollment might be affected by the tuition situation. "Since tuition is not to be scaled down

under \$50, some one course students may decide to drop out. But again they may see that they can take two or three more courses for the price of one," said Kennedy.

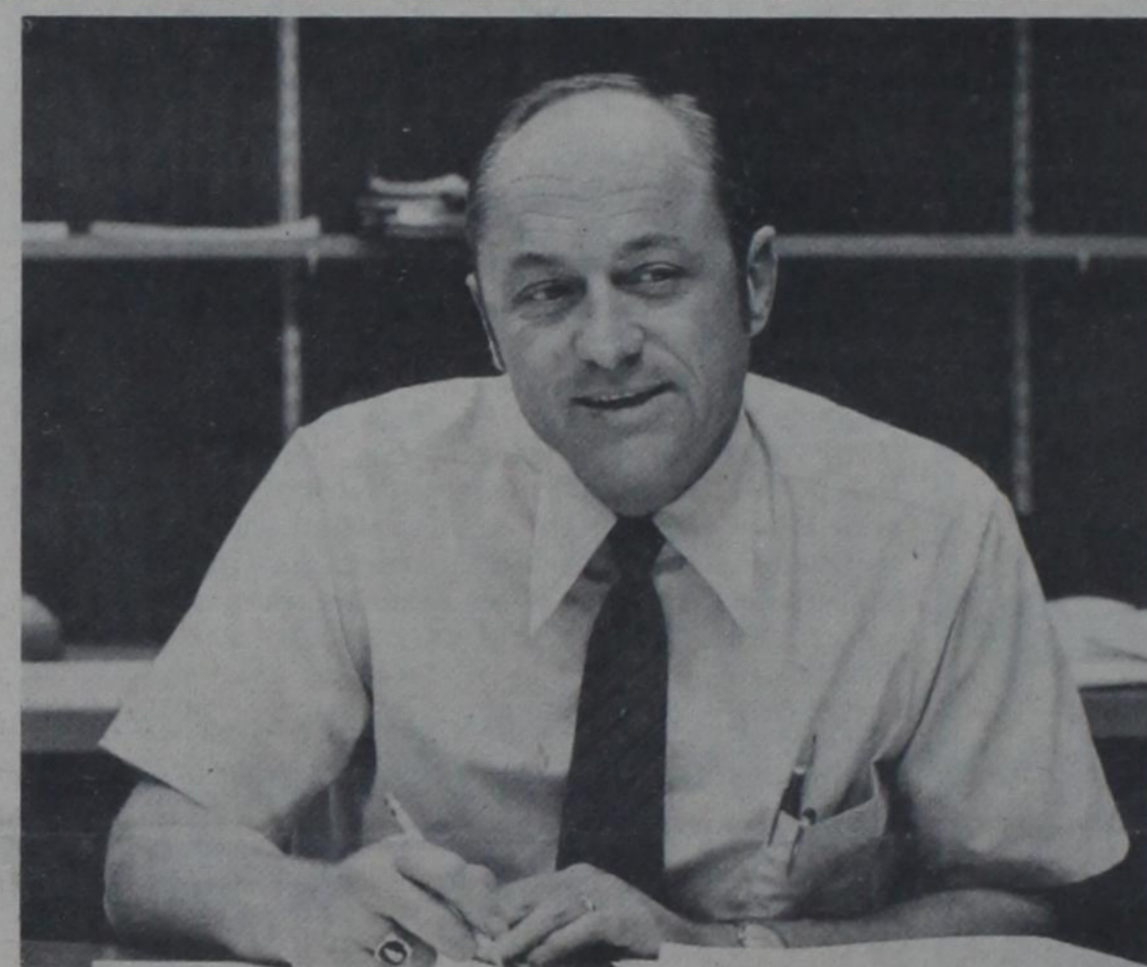
"Either way, the institution's teaching load would not be affected, since there

are only 500 to 600 such students who have come back to take one course."

The tuition plan for Texas residents calls for \$50 for a full load (12 hours). Any semester hours over 12 calls for \$4 a semester tuition. Anything below 12 hours costs the minimum of \$50.



'Mouse chaser' takes over



Dr. J. Knox Jones, who calls himself a mouse-chaser because of his studies, was recently appointed dean of Tech's Graduate School.

Between religions

Fighting days are gone

By The Associated Press

Roman Catholicism and Islam, the world's two largest religions whose members once slaughtered each other as an act of faith, now coexist peacefully. At times they even co-operate.

Gone are the days when one viewed the other as "inferior" or "infidel."

At the Vatican now, the Secretariat for non-Christians, rather than the office for non-believers, deals with Islamic affairs. A recent Vatican communiqué referred to Islam-Roman Catholic ties as "fraternal among believers who have in common the respect of all religious values and faith in God."

Islam still lacks the equivalent of a religious center like Vatican City. But more and more Moslem countries are establishing diplomatic relations with the Vatican. Eight have full ambassadors accredited here.

Vatican observers and Moslem envoys say Roman Catholic-Islam coexistence-in the making ever since the inconclusive Crusades centuries ago—gained momentum for cordiality in recent years.

They point out the efforts of Pope Paul VI, who traveled 2,000 miles in 1967 for a trip to Turkey, which is 95 per cent Moslem. The Pope's main reason for going was to meet Orthodox Patriarch

Athenagoras.

Even during his last overseas trip, an eight-nation swing to Asia and the Pacific last year for "the rediscovery of the church," the Pope's first stop was in Moslem Iran. He later visited the Islamic state of Pakistan and predominantly Moslem Indonesia.

In Jakarta Buddhists and Moslems were among 50,000 attending the Pope's mass at a stadium. The pontiff later was presented a copy of the Koran in Arabic.

Some Catholic-Moslem rivalry persists.

The two religions vie for conversion of pagans in Africa. The Catholic side sometimes accuses Moslem missionaries of spreading the word in the jungles that Christianity is "the religion

of the white man and imperialism."

In the current civil disturbance in Sudan, the Moslem countries give their sympathy to the Arab rulers of the north while the Christians are concerned with the suppression of their black minority in the south.

In the Nigerian civil war, Christian Ibos, in minority, fought Nigerian tribes of Islamic faith.

Intermittent Christian-Moslem fighting also flares up on a local scale in the Philippines, with the Moslems outnumbered there.

Underlying such contacts is concern for Jerusalem, the Holy City of Christianity, Islam and Judaism. After changing hands scores of times and surviving

one sacking after another since the Crusades in the 11th century, the city now remains in Israeli hands.

Christians and Moslems have access to it, but little say in running the city their traditions hold as a precious shrine.

The Vatican in the past came out for internationalizing the city that Israel says it will never surrender. But American Jewish Committee representatives have met since with the Pope, urging a modified stand.

The Pope, Vatican sources say, is eager to mediate personally in the dispute.

As for the Moslems, particularly the Arabs, Jerusalem has become since the 1967 Arab-Israeli war a political as well as religious issue. They want to wrest from Israel not only the Holy City, but all the land they lost in the war.

TOP plan liberalizes loans

The Hinson-Hazlewood College Student Loan, formerly the Texas Opportunity Plan, has liberalized its loan program starting this summer.

This loan, only open to Texas residents, served over 1100 Tech students last year. Changed in the program was the maximum amount a student may borrow in a school term and in his total college career.

Undergraduates may now borrow up to \$1500 in a nine month period, instead of the old limitation of \$1000. Graduate student loans, which already had a \$1500 limit, remained the same.

The maximum amount a student may borrow under the Hinson-Hazlewood Act

was increased from \$500 to \$7500.

The grace period, time between graduation and the initial repayment of the loan, was increased from three to nine months.

The total time required for full repayment increased from five to ten years, though a student must pay at least \$360 a year.

The interim note required to receive the loan will no longer have to be co-signed.

"As of this date, these changes affect only those students currently borrowing under the Hinson-Hazlewood Plan. It is not retroactive yet," said Dudley Akins, director of financial aids.

On a personal level, Vatican sources and Moslem diplomats see an increasing tolerance between Roman Catholics and Moslems in lands where they live side by side. Inter-marriage is on the rise, for instance, even without the conversion of one partner.

In Indonesia, Catholic clerics may even teach religion in any school and on government salaries.

KTXT returns to airwaves

KTXT radio, the Tech student station, is back on the air for the rest of the summer after having been shut down three weeks ago for transmitter repair and station maintenance.

KTXT will broadcast from 3 p.m. to 3 a.m. every day the rest of the summer, including finals and the four day break between semesters.

Summer station manager, Fred McCord, said students had been working on the stations since it went off the air. Their repairs and modifications enable KTXT to cover the city (except for a few blind spots the students were unable to do anything about.)

"At least we don't have to worry about the wind blowing the right direction to reach 50th street now," McCord said.

KTXT is a student-run station and McCord said any student wishing to become a disk jockey on the station should come by the Speech Building and audition.

Ken Bradford, summer program director, asks all campus organizations to notify him about their activities or events.

Two Chicano seminars set

Emergency School Assistance Program is sponsoring a Chicano Seminar Saturday at the Wesley Foundation.

The seminar, from 1-5 p.m. will include group discussions on awareness and a Chicano film.

The film, "I Am Joaquin," is an epic poem tracing the history of the Chicano from the beginning to the present.

The seminar is presented free of charge and is open to the public intended to help with the desegregation process.

Also, the Lubbock Theatre Center is presenting a play "Chicano, living and dead" at 8 p.m. today and Saturday. The free presentations is the first play written about Chicanos by a Chicano.

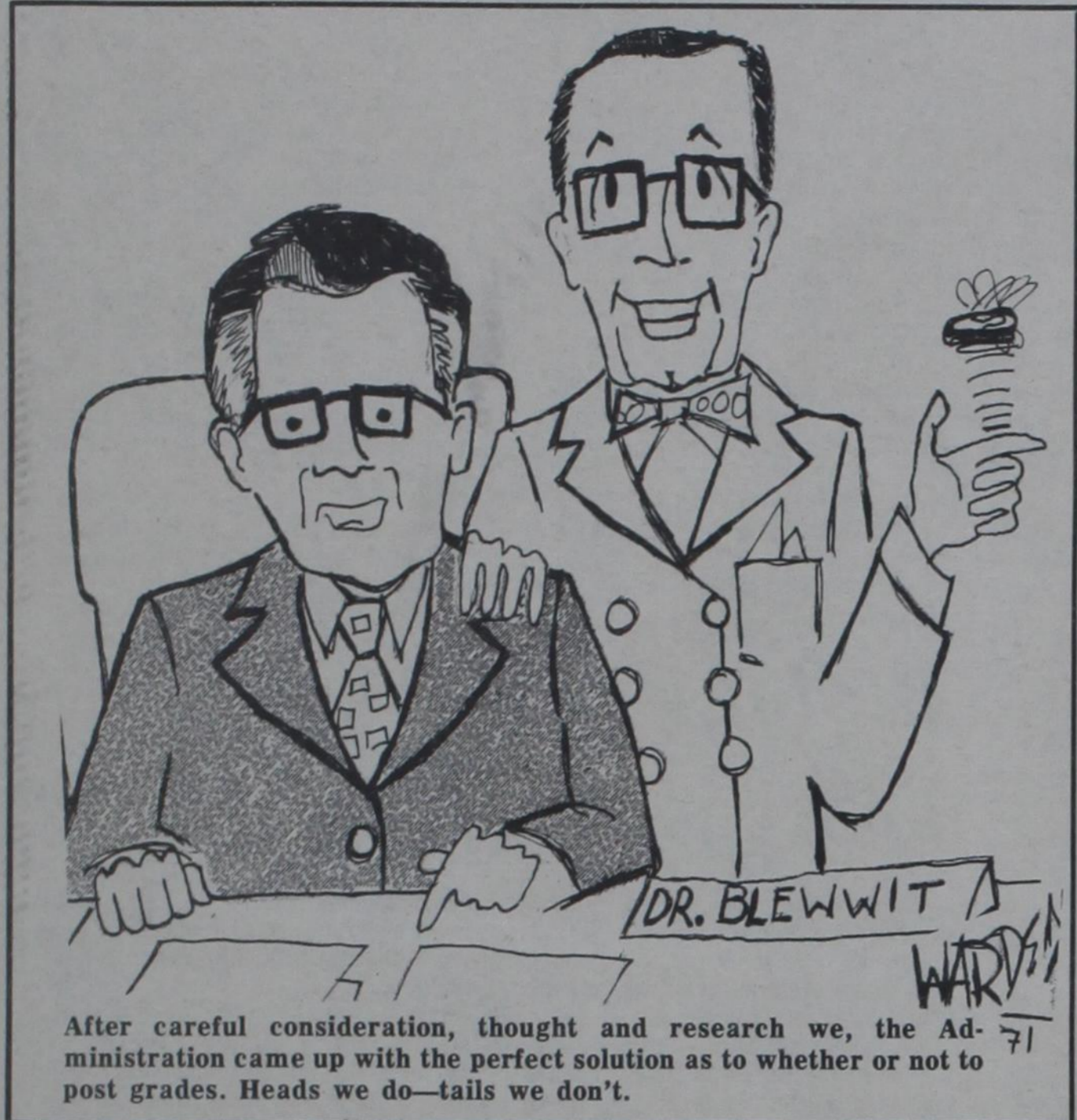
Mason new golf mentor

Tech Athletic Director J T King announced Wednesday the appointment of Danny Mason as the new Red Raider golf coach.

"We are pleased to have Danny as our new coach," King said.

Mason formerly coached the Red Raider golf team before leaving in 1966, to accept a similar position at the University of Arkansas.

The new coach, who also serves as an assistant professor in Tech's Physical Education Department, holds a bachelor of science degree from Lamar Tech.



For math study

Tech profs publish book

Two Tech math professors, Drs. T. O. Lewis and P. L. Odell, are co-authors of a book, "Estimation in Linear Models," which has been published by Prentice-Hall, Inc. The volume came off the press last month. The book, "essentially self-contained," can be used either as a text or supplemental study, Dr. Odell,

chairman of the Department of Mathematics, said. It is designed for senior or graduate level study. The authors, in the preface, said the volume was written for the scientist or engineer with a basic knowledge of elementary calculus and linear algebra. The intention is "not to give an axiomatic development of

the theory of linear estimation but to make use of definitions and theorems to avoid inconsistencies." Dr. Odell is professor of mathematics and statistics at Tech and associate director of the Texas Center for Research in Applied Mathematics and Mechanics at Austin. He received the Ph.D. from Oklahoma State University. He is co-author of three other books—one of them on probability and another on generating random variates. He has been elected a Fellow of the American Statistical Association.

BACK to SCHOOL

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Letters

Complains about UD picture

In the July 23 issue of "The University Daily" a photograph appeared on the front page showing a set of grades which had been posted in—"of all places"—the law school. The caption beneath the photograph made the statement that during the previous week (presumably the week of July 16-23) the university had placed a ban on the posting of grades because such posting violated the student's right to privacy. The implication was clear—the law school, where students are taught respect for the law, had flagrantly violated the ruling and, as a result, continued to violate the law student's right to privacy. It is conceded that the grades were posted at a date after the ruling went into effect and there was a violation. However, the report failed to note that the grades had been posted since July 9. If the posting of those grades was a violation of a student's right to privacy, then my right to privacy has been invaded for my grade was one of those listed. And if the posting was a violation of my rights, then the publication of a photograph of my grade is likewise a violation and perhaps an even more serious one because my grade is now known by possibly thousands of readers. Under the reasoning of the minority of students responsible for prohibiting the posting of grades, my right to privacy has been invaded and I should be allowed some sort of recourse. But, if the reporter had checked his facts, you would know that I have no cause of action because, due to the method of posting grades in the law school, there has been no invasion upon my rights. All law school exam numbers are selected at random each semester and given to the student in a sealed envelope. Even the professor does not know whose paper he is grading because he has no access to the exam numbers. Hence, no one knows my grade or exam number unless I choose to tell. I can sympathize with those students who fear a threat to their right to privacy. But I too have a right—a right to know my relative class standing in a course. This ruling now infringes upon that right. In addition, this ruling will cause great inconvenience and confusion because many courses require a prerequisite course. Students may not learn if they have successfully completed the prerequisite course in time to enroll for the advanced course. This appears to be another example of a vocal, overzealous minority who has protected its right at the expense of mine. A reason given by the Administration in support of this ruling is that it will decrease loitering in the school buildings. The posted grades have come down and with them one more right of the majority. Future grades will not be posted, and it may be weeks or even months before students learn of their grades. It is ironic that the law school—"of all places"—should be the site of the first "violation" of the ruling. It is even more ironic that journalism students—"of all people"—should fail to check the facts and print such a shallow, misleading report that is calculated to gain readers at the expense of the law school. It is hoped that the quality and depth of this report is not typical of "The University Daily" reporting. The public deserves much more. T. C. Wales 1025 University

Campus satire

Some Techsians stare

By Charles B. Moore

A recent Associated Press article said, in essence, that bird watching is for the birds while girl watching is for men. In fact the article mentioned that the American Society of Girl Watchers (ASGW) numbers more than 50,000 card-carrying members. This got me to thinking that Tech must have a local chapter of the ASGW. As anyone can plainly see, Tech boasts more pretty girls per cubic foot of textbooks than any other university in the country. In searching for a local ASGW member one fact became obvious: Tech male students were not girl watchers. They could be seen walking along unconcerned, thinking about their studies, reading class notes, or mentally reviewing facts for a test, and not once turning to stare lewdly at any of the hundreds of bow-wow skirts flitting about. This got me worried. If male students didn't girl watch, who did? It was not until later when I saw an elderly man almost trip over a trash can when a mini-mini-skirt bounced by, did it dawn on me that it must be the professors. After searching for days, I finally found one professor who would admit being a card-carrying girl watcher. "Oh, there must be hundreds of us at Tech only our chapter is called STARE (Society to Advance Retina Enjoyment)," he told me. "For example, see that man sitting on the bench over there? He's a STARE member at the GW-B level." "GW-B?" I asked, "Do you mean you have different levels in STARE?" "By all means," he answered as we entered

the University Center (Union). "A new member must enter the society at the girl watcher-legs (GW-L) level, which is equivalent to the novice class. See that professor over there pretending to read the newspaper? He's probably a girl watcher-total (GW-T)." I studied the professor. "Boy, he's good at it. It looks just like he's actually reading the paper. But how do you know he's a GW-T?" He smiled. "It's his rapid-eye-movement. That's a sure sign. See that area over there where all the girls are sitting down and crossing and uncrossing their legs. STARE calls that 'knee alley.' Of course, if hemlines go up anymore we'll have to rename it." "Are there any other girl watcher levels?" "Oh, yes," he answered. "There's a girl watcher-breast (GW-B), a girl watcher-knees (GW-K), and a girl watcher-face (GW-F). Most academicians like to specialize in one area but what Tech really needs is more GW-T's. To date we have only six and all of them are Ph.D's" He lowered his voice and whispered. "Rumor has it that unless we can more GW-T's, we may not be accredited next year." "Sir," I asked. "One thing bothers me. Most of Tech's professors are in their late forties or fifties. Most are married, settled down and basically mature. Why all this emphasis on girl watching?" Sadly shaking his graying head, he slowly lit his pipe. Tears formed in his eyes as he said: "You've just explained why we call it girl watching."

General degree plan offered

Commenting on the proposal to create a new degree—the Bachelor of General Studies, or B.G.S., Dewey B. Stuit, dean of the College of Liberal Arts at the University of Iowa, said that students would be able to graduate without choosing a "major field" or fulfilling the "core" requirements of courses in the basic areas of the liberal arts. The traditional Bachelor of Arts and Bachelor of Science

degrees would continue to be offered, said Dean Stuit, but the College's academic role "in loco parentis" would be revoked for candidates for the B.G.S. One Big Ten institution, the University of Michigan, has adopted the B.G.S., Dean Stuit said. It is virtually identical to the Iowa proposal, but makes no rhetoric requirement, he said. As discussed by the College's 9-member Educational Policy Committee, the new degree would require 126 semester hours of credit like the traditional degrees. The candidate would be released from the "core" requirement of 32 hours distributed through the fields of literature, natural and social sciences, and historical-

cultural studies. Instead of majoring, the student would be required to complete at least 60 credit hours at the junior and senior levels in any fields with grades of 2.0 or higher (4.0-A). Not more than 20 of the 60 upper-level hours, or 40 of the 126 total hours, would be accepted from one department. All students would meet the College's rhetoric requirement. No major would be certified on the College's official transcript or in the commencement program, even if the student completed departmental requirements for the B.S. or B.A., the committee said. Students embarking on the B.G.S. would be informed that its standing as a qualification for admission to graduate school would be lower than that of the two traditional bachelor's degrees, he said. As discussed by the Educational Policy Committee, the new degrees would not entail changes in existing entrance requirements, pass-fail grading or credit-by-exam policy.

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MUSLIM STUDENT ASSOCIATION

The Muslim Students Association meets Wednesday at 8 p.m. in the University Center. All persons are invited to attend. The Friday prayer will be held at 2:30 p.m. at 2307A Broadway. For more information call 744-5096.

THE UNIVERSITY DAILY

Opinions expressed in The University Daily are those of the editor or of the writer of the article and are not necessarily those of the college administration or the Board of Regents. The University Daily, a student newspaper at Texas Tech University at Lubbock, Texas is published by Student Publications, Journalism Building, Texas Tech University, Lubbock, Texas 79409. The University Daily is published daily except Saturday and Sunday during the long terms, September through May, and weekly (every Friday) during the summer session, June through August, except during review and examination periods and school vacations. The University Daily is a member of Associated Collegiate Press, Southwestern Journalism Congress and National Council of College Publications Advisors. Second-class postage paid at Lubbock, Texas 79409. Subscription rate is \$10 per year. Editor Don Richards Managing Editor Hal Brown Reporter Laylan Copelin Sports Editor Bob Brewster Photographer Mike Davis Advertising Director Rolf T. Wigand

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For Pantex farm

Tech gets \$2,000 Ford grant

A Ford Motor Company Fund grant for \$2,000 has been presented to the Tech Research Center at Pantex by Frank Simms, 1971 Ford Farm Efficiency Award winner.

Simms, a Panhandle farmer and feedlot owner and operator, won the award for outstanding production of grain sorghum. He presented the check to Dr. R. Hollis Klett, superintendent of the Research Center.

Simms graduated from Tech's College of Agricultural Sciences in 1960 with a major in animal husbandry.

The grant money has been

designated for use in development of laboratory techniques for the evaluation of feedstuffs with emphasis on determining energy values for grain sorghum, wheat and triticale. Of particular interest to researchers is comparison of processing and feeding advantages of dry-rolled grain sorghum as opposed to "thermalized" feed rations.

In all, a total of \$28,000 in Ford Fund grants was awarded this year to non-profit organizations connected with agriculture based on the individual recommendations of Simms

and 13 other winners of this year's annual Ford Farm Efficiency Awards.

Each award winner was invited by the Ford Fund to recommend a grant of \$2,000 to the educational institution of his choice. The farmers also assisted the Ford Fund in designating purposes for which the grants will be used.

The Tech Research Center is located approximately 12 miles east of Amarillo in Carson County and is comprised of about 14,000 acres of land. Of this, Texas Tech holds deed to some 5,822 acres, and in ad-

dition, the university has an agricultural use permit on approximately 8,000 acres of land operated by the Atomic Energy Commission.

Primary functions of the research facility are research, public service and support of resident instructional programs at Tech.

The Killgore Beef Cattle Center, made available by \$500,000 grant to Tech from the Florence Lee and C. L. Killgore Foundation, was dedicated at Pantex in February 1964. It includes a research office building, nutrition laboratory, conference rooms, auditorium and sales ring, cattle working area, feed preparation center and 50 experimental cattle pens, as well as additional

experimental cattle feeding facilities.

A total of 153 Ford Fund grants, totaling \$306,000 has been presented on behalf of Ford Farm Efficiency Award winners since 1961, when the first invitations to recommend the grants were issued. Participation by the award-winning farmers in the fund grants—awarded in support of agricultural research and education—is a vital ingredient of the program.

Ford Motor Company Fund is an educational, scientific and charitable organization financed primarily by contributions from Ford Motor Co. It is not related to the Ford Foundation.



'The Happening' shows tonight at 8 in the Coronado Room of the University Center. Starring in the comedy will be Anthony Quinn, Michael Parks and Faye Dunaway.



Leaders of the United Fund campaign at Tech have pledged to obtain the goal set for the university by the first report meeting. Plans for the drive at Tech are discussed by Charles E. Maedgen, chairman of the Public Employees Division of this year's campaign, left, and from left, co-chairmen John Wittmen and Fredric J. Wehmeyer of the Texas Tech drive, and J. C. Chambers, immediate past president of the United Fund.

United Fund

Department of Agronomy hosts foreign visitors

A scientific look at seed improvement and technology is adding nourishment to the seeds of international cooperation last week on campus at Tech where the Department of Agronomy hosted 19 visitors from more than a half dozen foreign nations.

Tech's Agronomy Department staff sponsored a three-day seed technology tour for the international delegation brought here under a special program of the U.S. Department of Agriculture's Federal Economic Development Service.

The U.S. visit already included stops at Texas A&M University and Mississippi State, and the foreign visitors will travel to Oklahoma State and to the University of Illinois after concluding their stay in Lubbock.

According to Tech agronomy Prof. Cecil Ayers, the tour is to include visits to various university facilities and to seed

farms and commercial seed company facilities in and around the Lubbock area.

The foreign visitors will also hear lectures on current developments and research in seed technology by members of the Tech faculty and by area seed company representatives.

Among specialized areas to be covered are seed cooperatives, production and maintenance of breeders and foundation seed stocks, hybrid production, field production problems, processing and seed treatment, seed warehousing and quality control and evaluation. Particular emphasis will be placed on grain sorghum seeds and hybrids.

Visitors were officially welcomed on the first day of the program by Dr. Glenn E. Barnett, Tech executive vice president. A general overview of the agriculture of Texas' High Plains was presented by Tech College of Agricultural Sciences Dean Anson R. Bertrand.

The Happening

In Coronado Room

UC features comedy

The University Center today features Anthony Quinn, Michael Parks and Faye Dunaway in "The Happening" at 8 p.m. in the Coronado Room.

This new film is something of a breakthrough—it is a Hollywood avant-garde movie. "A clever and entertaining exercise in the Cinema of the Absurd," says the Chicago News. Produced by Sam Spiegel this comic action-drama stars Quinn as a Miami Beach mobster involved in a \$3,000,000 caper which boomeranges when he takes over the operation and the kids handling it.

Director Elliot Silverstein's newest picture is the funniest

film to hit the screen since his earlier Cat Ballou. This equally successful spoof lampoons the gangster picture. Four young people, flushed from an all-night beach party by the local fuzzi, hop a cabin cruiser, and make good their escape. Wending their way through the inland waterways of Coral Gables they are attacked suddenly by a crew of children playing cops and robbers.

Our quartet joins in the fun and chases one of the kids into his home. Anthony Quinn, the boy's father, assumes he is the real target of the foray and assures the four that if they really intend to kidnap him,

he'll come quietly. He's a former mobster using a Miami Beach hotel as a front.

The fun begins when in the course of raising the ransom, Quinn discovers his wife, business associate and the rest of the "boys" are only too happy to see him gone and out of the way. From then on, the humor becomes even more outrageously funny as Quinn assumes control of the caper and sets out to get the ransom money himself.

101 minutes. Stars: Anthony Quinn, Michael Parks, George Maharis, Robert Walker, Faye Dunaway, Martha Hyer, Milton Berle, Oscar Homulka.

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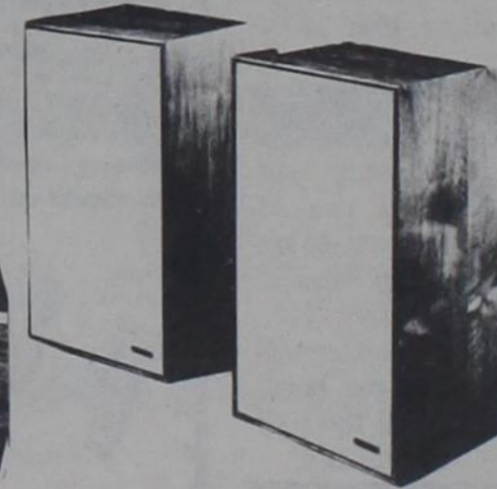
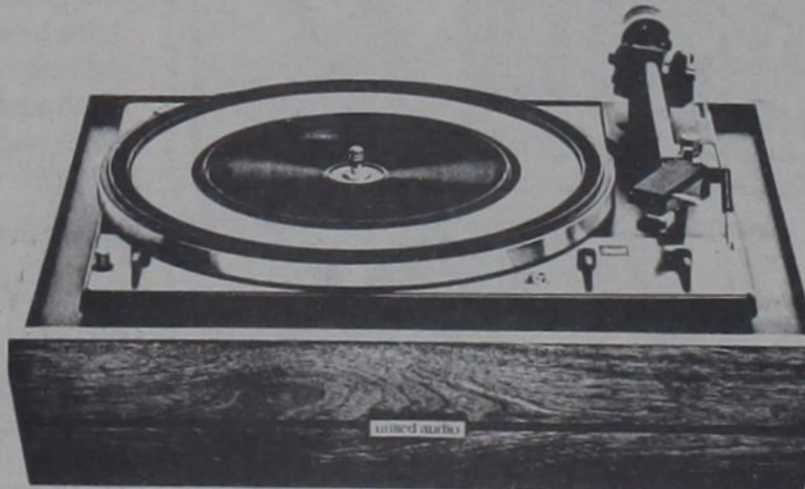
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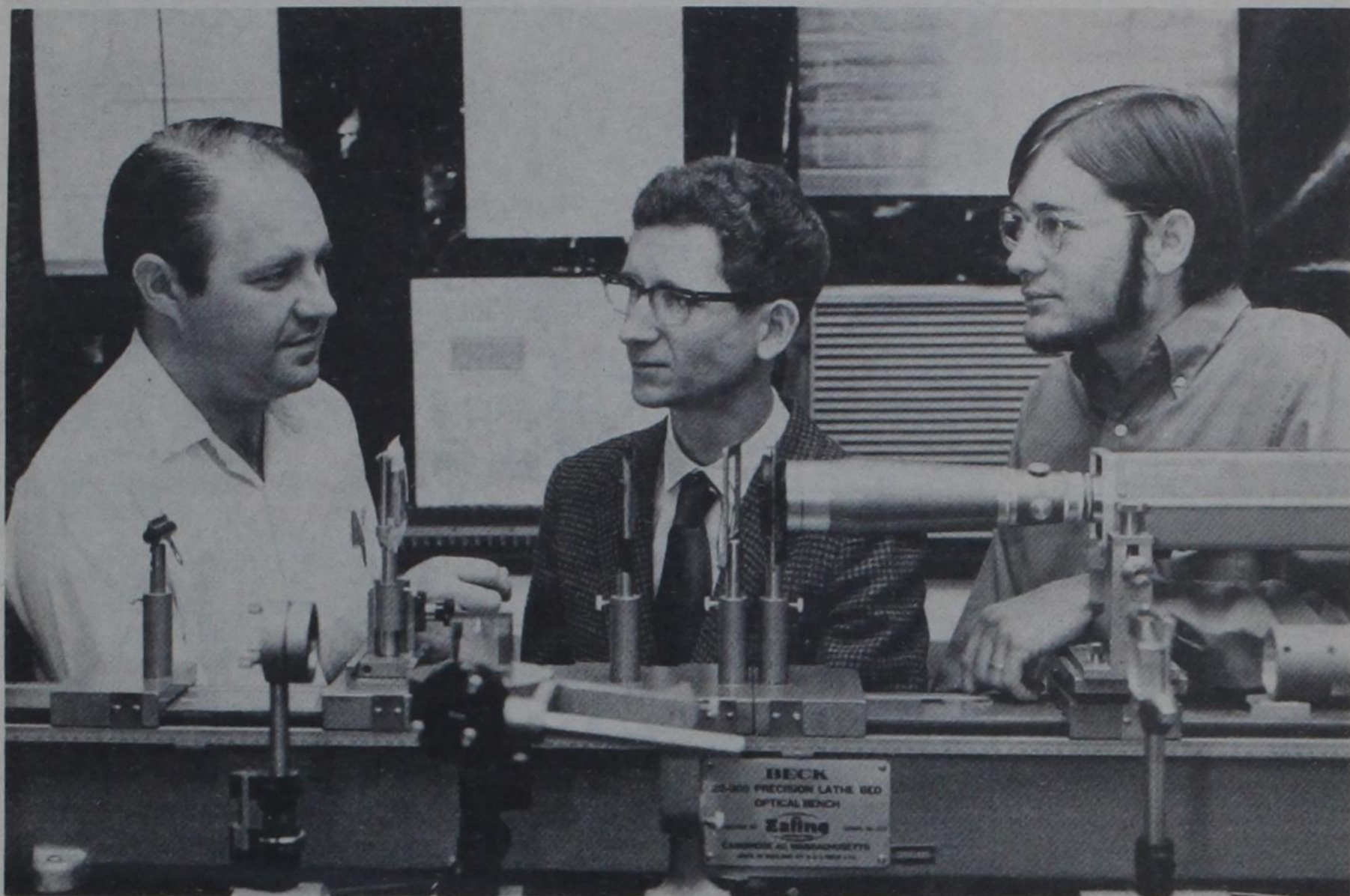


Edwards Electronics

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Electrical Engineer Prof. Marion O. Hagler, left, consults with two National Science Foundation sponsored researchers who with lasers on a system for pattern recognition in aerial photography. Dr. Thomas F. Krile of Rose Hulman Institute of Technology is assisted by Tech student Carl L. Wright, one of seven undergraduate research participants in an NSF sponsored summer project

Laser photography

Getting a good picture back from outer space involves more than the click of a shutter. Pictures arrive in strips, and

where the strips join there are lines. These must be removed. Flaws and focus, also affected by transmission, need

correction.

This can be done in minutes by computers or in split-seconds by lasers. The speed with which lasers work is their big advantage, but for every type of correction which must be made a new filter is necessary.

Researchers working in Tech's Department of Electrical Engineering believe that the filter disadvantage might be overcome, that in the future the adjustment of turnable knobs may do the work of filter changes.

Already they have designed and built an apparatus to split a laser beam and put it back together again without

scrambling it, and this is a major step in their progress.

The researchers for the summer terms are visitors in the department working under the direction of Prof. Marion O. Hagler.

Dr. Thomas F. Krile, who spends his winters teaching electrical engineering at Rose Hulman Institute of Technology in Terre Haute, Ind., is one of four college teachers working under a National Science Foundation summer study program in research.

Krile's teammate is a student, Carl L. Wright of El Paso. Wright is a senior in electrical engineering at the University of Texas at El Paso.

Accuracy percentage improved by revision of 'jackknife' method

Ratings determine television fare. Public opinion polls send politicians to the hustings. Farmers have thrown away almanacs in favor of meteorological weather forecasts.

But can you believe the ratings, the polls and the weather forecasts?

Based on a good program of collecting the data and processing it, they are right a certain percentage of the time. But what percentage?

Tech mathematicians have devised a pretty good method of determining the percentage of accuracy.

The method is an extension of the idea suggested by a British mathematician, Maurice H. Quenoille in the late 1940s. It was later termed the "jackknife" method because it promised to be a very useful tool.

Because Tech results offer such expanded usefulness, one statistician has said, "Now we have a pearl-handled jackknife."

Tech results are termed the "generalized jackknife

statistic" to distinguish the work from earlier studies done at Princeton University under the direction of Prof. John Tukey and to emphasize the more general nature of the new work.

Jackknifing is a mathematical tool, but it applies far beyond mathematics—even to pinning down, for instance, authentic literary authorship.

The program can get complicated. When the data come in batches of millions of forms, like census returns, it is difficult to devise an analysis program to give a true picture of the sum of the information.

Even more complicated is the analysis of portions of continuous data—for instance, the record of energy released by a radioactive source or telemetry data received from men on the moon.

Dr. Henry L. Gray has directed the studies at Tech and he points out that in any statistical analysis certain assumptions have to be made when the program for analysis is designed.

"Generalized jackknifing removes the necessity of many of these assumptions," Prof. Gray said, describing generalized jackknifing as "a group of methods or techniques that permit data evaluation, requiring very few assumptions, in a manner which yields reasonably unbiased estimates of unknown quantities, and a measure of accuracy for these estimates."

"Accurate estimates are a

must if any reasonable conclusion is to be drawn from data.

"Most statements of fact are approximations of the truth," Gray said; so to interpret "facts" it is necessary to know how close an approximation they really are.

"A candidate for a particular operation would feel confident if told that from all the data available his chances of surviving the needed surgery are 100 per cent," Gray said.

"However, without a measure of the accuracy of such a statement, the conclusion which the prospective patient has implicitly drawn, could be false. If only one person has ever had the operation," he explained, "the fact that it was successful is not as consoling as the fact that 1,000 people have successfully had the operation."

In both sets of data used—one case and 1,000 cases—the estimate for the chance of success is 100 per cent.

The difference between the two estimates is, of course, that 100 per cent may be a very good approximation of the true state of things when based on the sample of 1,000 whereas the 100 per cent based on one sample is such a gross approximation that it is worthless.

"Of course, this is oversimplifying things," Gray said, "but the example demonstrates that conclusions drawn from estimated quantities are difficult to support without some measure of the accuracy of such estimates."

In addition to furnishing a

measure of the accuracy of estimates, the jackknife method is a fairly unbiased way of handling data, Gray said.

"Most techniques involve assumptions, and most users of statistics don't understand the assumptions. If the assumptions are correct, conclusions will be correct. If assumptions are incorrect, conclusions often will be inaccurate."

"The generalized jackknife statistic makes almost no assumptions, and consequently it is a protection. Almost anybody can use the techniques."

Several major steps forward have been accomplished by the Tech mathematicians. They have increased the class of problems for which the jackknife works and, possibly as important, shown when it can be expected to be an effective method.

They also have made a big step forward by adapting techniques for using jackknifing for continuous data when heretofore it was used only for "discrete" data—or data obtained one chunk at a time as in census gathered information taken at 10-year intervals from individual families.

A major aid in developing the new techniques is the computer, Gray explained, because it allows rapid handling of great masses of data in the first place, and then its time-saving effects also make it possible to reuse that same data in jackknifing techniques to obtain a measure of the confidence which can be placed on the estimates obtained.

Space photo research involved

Getting a good picture back from outer space involves more than the click of a shutter. Pictures arrive in strips, and

where the strips join there are lines. These must be removed. Flaws and focus, also affected by transmission, need

correction.

This can be done in minutes by computers or in split-seconds by lasers. The speed with which lasers work is their big advantage, but for every type of correction which must be made a new filter is necessary.

Researchers working in Tech's Department of Electrical Engineering believe that the filter disadvantage might be overcome, that in the future the adjustment of turnable knobs may do the work of filter changes.

Already they have designed and built an apparatus to split a laser beam and put it back together again without

scrambling it, and this is a major step in their progress.

The researchers for the summer terms are visitors in the department working under the direction of Prof. Marion O. Hagler.

Dr. Thomas F. Krile, who spends his winters teaching electrical engineering at Rose Hulman Institute of Technology in Terre Haute, Ind., is one of four college teachers working under a National Science Foundation summer study program in research.

Krile's teammate is a student, Carl L. Wright of El Paso. Wright is a senior in electrical engineering at the University of Texas at El Paso.

He is one of seven students at Texas Tech who are part of an Undergraduate Research Participation (URP) program

also sponsored by the National Science Foundation.

Dr. Hagler is director of the summer study program for college teachers at Texas Tech, and Dr. Magne Kristiansen is director of the Tech URP program.

Projects assigned to students and teachers are under the direct supervision of faculty in electrical engineering, and they cover such broad research areas as solid state science and technology, laser science, coherent optics, controlled thermonuclear fusion and communication. All are working on a 1-1 student-teacher ratio.

Heart patients could benefit from the project undertaken by Clifford A. Meyer, electronics teacher at Gadsden State Junior College at Gadsden, Ala. Meyer is working under the direction of Prof. William M. Portnoy, and his project is the design and development of a miniature device to make emergency diagnoses for heart attack victims.

The device, about the size of a small transistor radio, could be placed against the chest of the patient, and it would give an electronic reading on the immediate condition of the heart, and so indicate the type of emergency treatment called for.

Dr. Joe S. Crane, a physics teacher at Cameron College, Lawton, Okla., is designing and building an instrument to measure the initial neutral gas distribution in a machine used for heating ionized gas to very high temperatures. His work is related to other research in thermonuclear fusion at Texas Tech and is under the direction of Prof. Kristiansen.

From Ford Foundation

Teacher gets doctoral aid

Mrs. Hazel S. Taylor of Lubbock has become the first recipient at Tech of a Ford Foundation Advanced Study Fellowship for Black Americans.

With that financial support, Mrs. Taylor, who has been in the Lubbock public school system in several capacities since 1955, is expected to receive her doctorate in education with a major in elementary education and guidance and counseling next year.

During the last year she has served as special education counselor in eight Lubbock schools. The stipend of \$4,233 will support her studies through the summer term and the 1971-72 academic year at Texas Tech, pay tuition and fees and provide a book and supplies allowance.

Mrs. Taylor has chosen for her dissertation an analysis of the effects of a daily planned listening program on reading increments of third grade children.

She has already done much of her work toward a doctor of education degree at Texas Tech, having received her master's from the university in 1964 and her bachelor of science degree from Prairie View (Texas) College in 1946 at the age of 18.

In addition to teaching and doing graduate work at Tech, the busy educator handles the roles of wife and mother, Sunday School secretary, and civic and welfare worker.

Her husband, Marshall R. Taylor, is an electrical contractor and their 21-year-old

son, Marshall, is a senior accounting major in Tech's College of Business Administration.

Mrs. Taylor has been Sunday School secretary at St. Luke Baptist Church 15 years and she sings in the church's senior choir.

She was one of two women who spearheaded the effort through the Lubbock Young Women's Christian Association to establish the "Project New Directions" for pregnant teenagers.

She described the program as federally funded with the public school system providing the teachers to handle classes for girls who become pregnant while still in public school.

Through these special classes, the young women can continue their high school education.

Another organization dear to Mrs. Taylor is the alumni chapter of Delta Sigma Theta sorority, a community service organization made up mostly of black women but open to everyone.

She served as the Milam

(Cameron) County Home Demonstration Agent during 1947-48. She moved to Lubbock in 1951 and from 1953 to 1955 was employed in an accounting office. Her first work in the public schools here was as third grade teacher in Wheatley Elementary School from 1955 to 1964.

From 1964 until 1970 she was a teacher in the Homebound Program, all but the first year at the secondary level.

The Homebound Program, she said, is administered by the public schools and provides for sending teachers into the homes of students four hours a week when such students are forced by illness, injury or other unavoidable circumstances to miss as much as four weeks of school.

Mrs. Taylor was born in Houston, attended Cypress Fairbanks public schools and graduated from Booker T. Washington High School in Houston.

She has also attended Texas Southern University in Houston and the University of California at Los Angeles.

Morales gets Ford grant for Harvard doctorate

Tech graduate student Raymond Morales has been awarded a Ford Foundation advanced studies fellowship for Mexican-Americans and Puerto Ricans. He will begin work toward a doctorate in romance languages and literature at Harvard University this fall.

Morales received his master's degree in Spanish with an English minor from Texas Tech this summer. The Ford Fellow is a graduate of Lubbock High School and received his bachelor's degree from Texas Tech in 1970.

His master's work at Tech was supported by a university fellowship The Ford grant will total about \$6,600, including tuition, fees, stipend, and books and supplies.

Morales' master's thesis, done under the supervision of Dr. Harley D. Oberhelman, professor of romance languages, was on Mexican author Juan Rufo, contemporary novelist.

"I am also indebted to Dr. Faye Bumpass personally and

professionally for the help she has given me at Texas Tech," he said. Dr. Bumpass is a Horn professor of romance languages at Tech.

He has worked with the Upward Bound program since 1968, first as a tutor counselor and the last two years as an instructor. He worked this summer with teachers and teacher aides in the Education Service Center Migrant Institute Program.

Morales hopes to return to Tech after receiving his doctorate to join the faculty. His next choice is work with some type of community education program in the Southwest.

"I am hopeful that we will see many more Mexican-American students enrolling in Texas Tech in the next few years and I think we will as the population of Mexican-Americans increases in West Texas and the Southwest," he said.

While Morales is attending Harvard, his wife, the former Delia Cuervas of Shallowater, will work in the Shallowater public school system.

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From Tech's HE department

Teachers attend conference

Five representatives of Tech's College of Home Economics participated in the statewide In-Service Conference for Homemaking Teachers held at the Statler-Hilton Hotel in Dallas through today.

Theme of the conference was "Homemaking Education—New Perspectives in Family Living."

Keynote conference speaker for the opening session Monday night was Dr. Bernice Milburn Moore, assistant to the president of Community Services of the Hogg Foundation for Mental Health at the University of Texas at Austin.

According to Prof. W. Clark Ellzey of Tech's Department of Home and Family Life, conference emphasis was on the changing roles and skills needed for effective living today and on the concepts, content, methods and skills required for effective family life education. Prof. Ellzey, known

nationally and internationally as a specialist in family life education, served as conference consultant and is to speak at several sessions.

Dr. Camille G. Bell, chairman of Tech's Department of Home Economics Education, served as a panelist discussing the topic, "Our New Challenges," at one of the general conference sessions. In addition, she will meet in a half-day session with Home Economics Cooperative teachers, working on the uses of the curriculum materials which have been developed at the Home Economics Instructional Materials Center at Tech.

Acting director of the center, Mrs. Linda Glosson, was in charge of an exhibit of materials developed there and displayed at the conference.

Assistant Home Economics Dean Billie Williamson, author and editor of the educational publication "Tips and Topics," was in charge of another conference exhibit of materials

developed in conjunction with the publication project.

Also representing Tech as a general conference participant was College of Home Economics Dean Willa V. Tinsley.

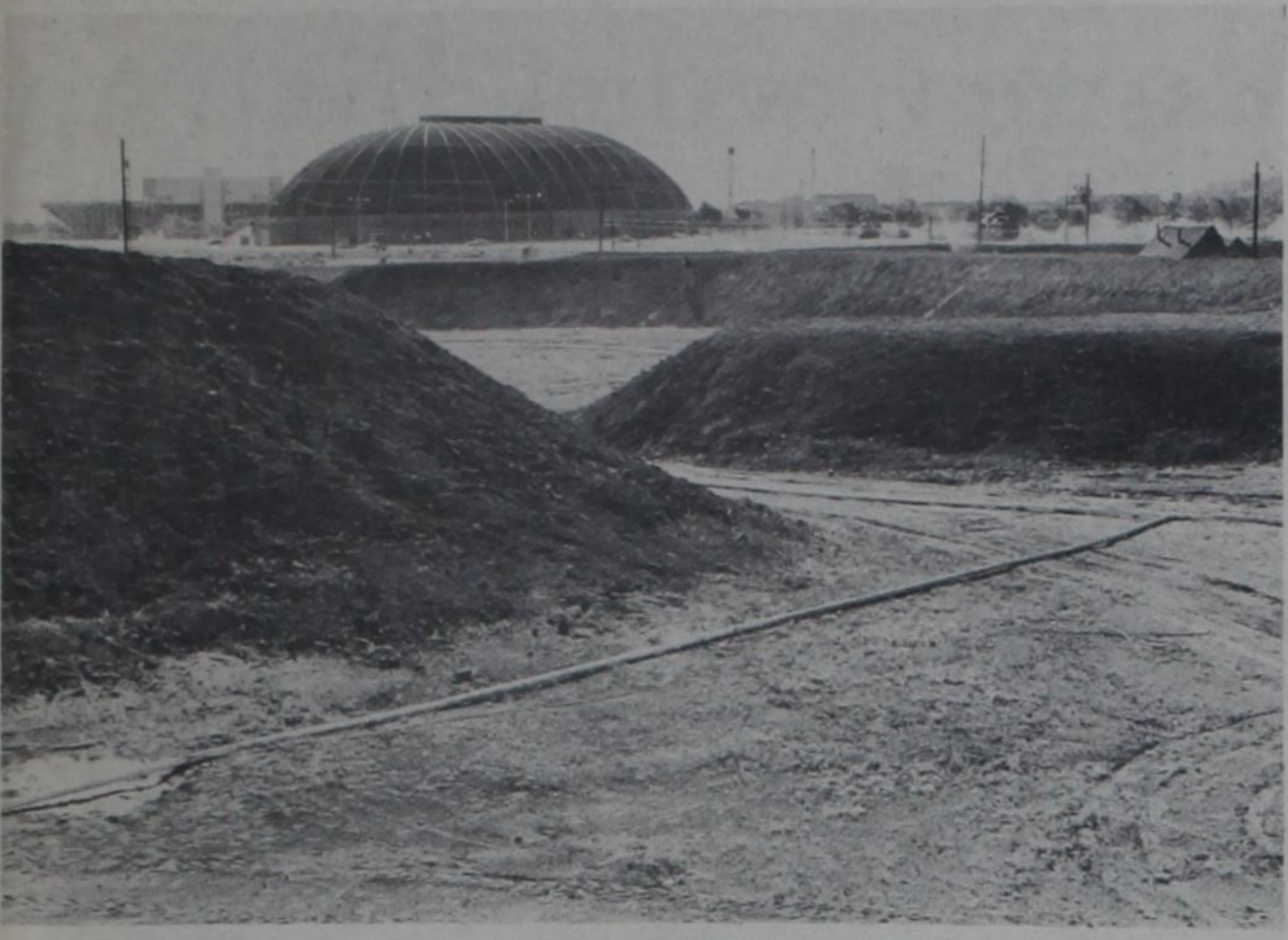
Conference consultants from the Texas Department of Education in Austin were Dr. J. W. Edgar, Commissioner of Education; John R. Guemple, assistant commissioner for

Occupational Education and Technology; L. V. Ballard, director, Division of Public Schools Occupational Programs; and Mrs. Elizabeth F. Smith, director of the Division of Homemaking Education.

The special awards banquet of the Vocational Homemaking Teachers Association on Wednesday honored 48 homemaking teachers

representing a combined total of 990 years' service in education. In all, more than 1,800 teachers are expected to attend the week-long conference.

Assistant Dean Williamson will also attend the Executive Board meeting of the Texas Home Economics Association Saturday prior to the start of the conference.



Two worlds

This photo shows why the high berms are needed at the Ranch Headquarters of the Tech Museum: to screen out modern surroundings which would alter a visitor's "sense of the past."

At Tech Museum

Berms play important role

When the people behind Tech's unique Ranch Headquarters project say they're dedicated to developing an outdoor living museum of ranching history authentic in detail down to the last blade of grass, they aren't speaking figuratively.

Grass—some five acres of it—will, in fact, play almost as important a role in rescuing ranching's past at the Ranch Headquarters as all the historically significant buildings, furnishings and other objects it will eventually contain.

The grass, genuine native buffalo grass, will cover the large mounds of earth which surround the Ranch Headquarters site and which wind through parts of it, giving the appearance of low, rolling hills.

These mounds, technically referred to as "berms," were built to serve several important purposes. First, they will act as a screen or barrier against both audible and visible signs of the present which would alter the visitor's "sense of the past."

"Of course, we couldn't build the berms high enough to screen out all the modern surroundings such as power lines and poles, paved highways and buildings," said Jerry Rogers, associate director of the Museum and Ranch Headquarters project director, "but we tried to minimize their effects as much as possible in order to preserve a mood or feeling of having gone back in time."

Rogers added that the berms would also serve to define the boundaries of the Ranch Headquarters and to "sort of isolate it within the past."

Moreover, since the Ranch Headquarters is being developed to present a history of ranching in various stages of progression, those berms which meander through the 12-acre

site will also separate various buildings which, by their nature, are not historically "compatible" in terms of period and original location.

Showing evidence of the dogged determination to be historically accurate in every detail by Ranch Headquarters developers, Rogers pointed out that, despite their essential functions, mere presence of the berms is not enough.

"By their very appearance, the berms must also contribute to a sense of actually being back in the early days of ranching," he said. "and that's why they have to be made into more than just mounds of bare earth."

That's where the buffalo grass comes in.

Rogers explained that buffalo grass is a native range grass throughout this part of the West and Southwest and therefore is a historically appropriate vegetative cover for the berms.

Fortunately, buffalo grass is excellent for stabilizing the soil, sending out runners and roots much like Bermuda grass to grip the soil and prevent the berms from eroding. Moreover, it's an extremely hardy grass which is highly weed resistant and requires little care other than watering.

Unfortunately, getting the grass to grow on extremely steep mounds of earth spread out in an extended and winding pattern over 12 acres of dry, sandy West Texas soil isn't as easy as falling off a berm.

Too large and time consuming a project for Tech's own busy grounds maintenance department, the buffalo grass job was put up for bids. Successful bidder was Tom's Tree Place, a Lubbock firm owned by Tom Scarborough who said he considers the task the biggest professional challenge he's ever tackled.

Having been on the job the enthusiastic Scarborough said

he and his crew could have prepared and seeded an equivalent area of grass on level ground in about half a day.

"This is a different story altogether," he emphasized. "This is our seventh day, and we've still got a long way to go before we've got it licked."

As called for in the bid contract, Scarborough and his workmen began by clearing the berms of all weeds and brush—doing it all with hand hoes and "a lot of elbow grease." Then the soil was further hand cultivated and a seed bed prepared by dragging heavy chains over it with tractors.

"There was no other way to do it because of the steepness and irregular shape of the berms," Scarborough said. Pointing out that most of the berms rise to a height of 10 to 16 feet, with some even higher, he added that the steep angle of incline on both sides of the berms also presented special problems in fertilizing and seeding them.

"All this part of the work was done by hand also," Scarborough said. He explained that the project would, in fact, probably require about a dozen times the amount of labor that would be required under normal conditions.

Not particularly abundant, the buffalo grass seed was obtained from three locations with the major portion coming from the northern plains area of Kansas.

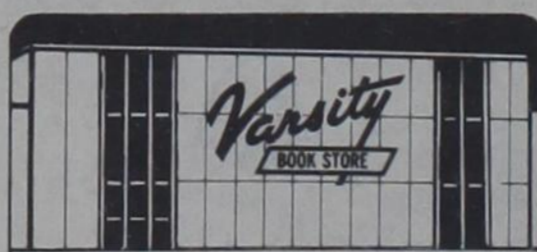
According to terms of Scarborough's 60-day contract, he is guaranteeing a stand of grass equivalent to one blade per square inch. Such a stand would assure a complete covering of the berms within a relatively short period of time.



'King Cotton'

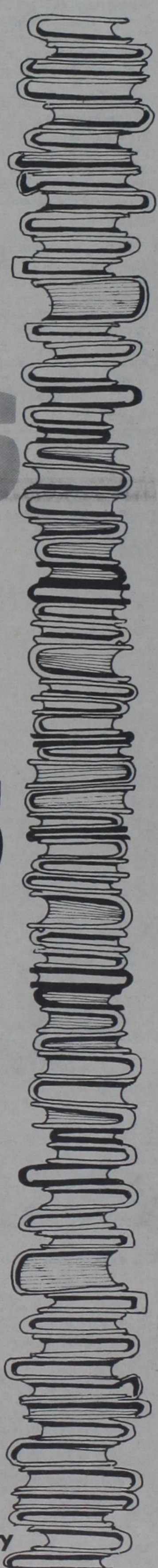
Roy B. Davis, left, retired general manager of Plains Co-Op Oil Mill at Lubbock, and O. E. Key, assistant general manager, are shown with Mrs. Margarette Harden of Tech following presentation of a \$2,200 grant to match equal funds awarded by ICASALS. The funds will finance continued research into cottonseed as a valuable food source.

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Carlen ranked among nation's top coaches

Texas Tech's Jim Carlen is already taking his place among the top coaches in college football. The young Red Raider gridmaster ranks among the 20 winningest active major college coaches with his career mark of 33-17-3, a .651 percentage.

Red Raider defensive tackle Milton Hibler believes in keeping busy. In addition to football practice and his scholastic load, Hibler and his wife Susan managed an apartment complex in Lubbock. Hibler took his job seriously, doing all necessary maintenance and repair work himself.

TEXAS TECH will appear on regional television twice this year, first against Arizona Oct. 2 and then versus SMU Oct. 23. Both games are on the road.

Fifty-five of the 61 players listed on Tech's varsity roster are Texans. Included are 14 from the Dallas area and four each from Lubbock, Fort Worth, Corpus Christi and San Antonio.

The Red Raiders have two varsity players named Ingram and both excel in the classroom as well as the field. Kicking specialist Dicky Ingram, who booted a 48 yard field goal last year as well as setting the single game extra point record with seven against UC Santa Barbara, had a perfect 4.0 grade average last semester. Center Russell Ingram, a pre-season All-SWC pick, has made the Dean's Honor List three of his four semesters at Tech.

When Frank Broyles begins the 1971 football season, he will set a tenure record for Arkansas coaches. Broyles has equaled the 13-year reign of Fred Thomsen (1929-1941) and

is beginning his 14th campaign. Oldest standards in the Arkansas record book—James Skillern's five touchdowns against Hendrix in 1915. Gene Davidson repeated the performance against Oklahoma Miners the following season.

ARKANSAS' ATHLETIC Director George Cole, who set numerous Razorback records as an All-SWC quarterback in 1927, lost another standard and had one tied by progress last year. Bill Burnett's 294-career points erased Cole's 185 (22 touchdowns, 32 extra points and seven field goals) and Bill McClard's three field goals against SMU equaled his performance against Oklahoma State in 1925.

Arkansas' All-America kicking specialist Bill McClard still holds the Owen Stadium record at the University of Oklahoma. He kicked a 56-yarder against Ardmore as a high school senior at Norman. McClard also had a 50-yard three-point kick in the game and was presented the Sports Illustrated Award of Merit for his performance.

Roger Harnish, a senior defensive tackle for the Razorbacks, received a little league baseball award in Scudorpe, England, as a youngster.

Arkansas assistant coach Mervin Johnson talking about All-America kicker Bill McClard: "He's a picture of technique. He has excellent form and is dedicated to being a great kicker. He works extremely hard in the summer and when he is on campus."

Tom Mabry, who Arkansas Coach Frank Broyles thinks has a chance for All-America

honors at offensive tackle this year, began competition in the fourth grade at Ida Burns Elementary School in Conway, Arkansas. A teammate of Mabry's was Rick Kersey, who earned All-Southwest Conference honors at linebacker in 1969. The Mabry and Kersey families reside within 50 yards of each other.

Only Arkansas passing records not held by Bill Montgomery—John Eichler's 23 completions and 41 attempts against Wichita State in 1969 and Ronny South's four touchdown passes against SMU in 1967 and 11 scoring tosses that same season.

Gus Rusher, a split end and kick placement holder for the Razorbacks first played high school football under Clell Burnett, father of former Arkansas backs Tommy, Bobby and Bill. Rusher is president of Wilson Sharp athletic dorm.

MIKE PARMER, a 6-5, 230-pound tackle from Oklahoma City, Oklahoma Moore High School, who will enter Arkansas this fall, is the nephew of former Baylor Coach Sam Boyd.

Only number ever retired by the Arkansas Athletic Department—Clyde Scott's 12. Scott earned All-America honors in 1948 and won a silver medal (high hurdles) in that year's Olympics.

Bill McClard, who earned All-America honors leading the nation in kick scoring last year, enters his senior season with 26 consecutive extra points. His only miss in 51 attempts last year, following Arkansas' last touchdown against Baylor with the score 41-7.



Randy Jeffers has been named the Red Raider masked rider for 1971. He will ride Charcoal Cody around Jones Stadium in scenes like the one above.

Randy Jeffers named new Tech Red Raider

Randy Jeffers, a sophomore animal science major from Amarillo, has been named to be Tech's masked rider this fall, Athletic Director J T King announced this week.

Jeffers, who has raised the back-up horse to Charcoal Cody in the past, will ride the horse at Tech games, leading the team on to the field. The masked rider tradition was born at Tech's first Gator Bowl engagement Jan. 1, 1954, when fans were thrilled by the way the Red Raider footballers entered the stadium.

The masked rider, with scarlet and black cape flowing behind him, circled the stadium on a black quarterhorse. When he came by the Tech dressing room, the Raider gridders streamed out onto the field behind him.

"No team in any bowl game ever made a more sensational entrance," penned veteran sportswriter Ed Danforth of the Atlanta Journal.

That entry launched a modern-day Tech tradition, which Jeffers will now continue.

Charcoal Cody is a black gelding, owned by Bill Price, who has a western wear store in Lubbock. Cody during his 21 years has made many other appearances, including conformation shows and roping contests where he was ridden by such performers at Toots Mansfield and Troy Fort.

Money woes hitting colleges in billfold

NYU, Miami, Vermont, Colorado State, Texas El Paso. All have been faced with the spiraling costs of athletics the last two years, and all have made the decision to eliminate sports from their intercollegiate athletic programs.

And although NCAA statistics show that more institutions are adding sports than dropping them, more schools are going to be faced with the problem in the future.

"There always has been a problem with financing athletics," commented Dick Koenig, a member of the NCAA Council and vice-president for public and alumni affairs at Valparaiso University.

"But now the problem is different. The entire area of higher education is having financial problems, and athletics are only one phase of that total problem. It's difficult to argue for athletics when the institution itself is hurting financially, too."

Strong CD Programs

Koenig, along with Dr. Edward S. Steitz of Springfield College and Doug McArthur of the University of Puget Sound, run successful College Division programs, and have advice for institutions which may be faced with a situation of dropping a sport or sports instead of de-emphasizing a program in order to meet costs.

"If the choice is to run a program at a reduced level or run no program at all," Koenig said, "then the choice is obvious. You have to think of the individual student and run a program that offers an intercollegiate opportunity for students who may want the program at whatever level it is run."

"Some schools have dropped

sports instead of running them at a reduced level to save money, and I think this is indeed a tragedy."

"We offer nine sports now at Puget Sound," commented McArthur. "We wouldn't cut to three sports to have the best basketball team, which is probably our strongest sport now. We wouldn't sacrifice those sports. We would have to lower our level of competition and readjust our aims."

All three of the College Division men are involved with athletic programs which run smaller budgets than many major institutions.

The Big Cost

"Many institutions spend an enormous amount of money on scholarships," McArthur said. "They should be able to get by on 60-75 football scholarships. It is incomprehensible to me to use 120 scholarships. That's a lot of money spent just to have young men sit around—you can't play them all. They don't go to other schools, either. If schools would put a limit on the number of scholarships they give out, then the Eastern Michigan, Puget Sound and the Valparaisos would have all kinds of available athletes, and they'd be able to play."

"Our scholarship program," said Steitz, "is based on the need of the individual student-athlete. We have been operating for years under the need program. I think that it is good that the NCAA is getting around to offering a scholarship program under the need principle."

The NCAA Financial Aid Committee has been meeting since appointed in late 1969, and has proposed a program which would base all scholarships to student-athletes on need and

would limit the number of initial grants that each institution could give.

Cutting Other Costs
Valparaiso, Puget Sound and Springfield also cut costs at other corners—on schedules, travel and staff size.

"Our coaches also are on the physical education staff and have teaching assignments," Koenig said. "Each of them has staff rank and all the privileges that go with it. Their coaching assignment is part of their class load. Therefore, their cost isn't solely applied to intercollegiate athletics, as it is at some institutions."

"Everybody is trying to keep up with the Joneses," Koenig added. "If some other institution gives 40 full rides, then they feel they have to. If someone installs artificial turf, then they think they have to do it, too. Program costs are on a spiral with everyone trying to keep up with the other guy."

Springfield College's athletic department has convinced its administration that intercollegiate athletics are an educational part of an institution—and had its budget increased last year.

"The only way that athletics can exist on a college campus is that they are an educational opportunity for students," Steitz said.

"Athletics are not extra-curricular, they are co-curricular—part of the curriculum. Our institution believes that athletics provide education to the body, mind and spirit perhaps more than any other discipline on campus."

"Athletic education is a discipline. But instead of using test tubes, we use playfields and gymnasiums."

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