

Murray officially takes presidency

200 university delegates to march in procession

Nearly 200 colleges and universities from around the world will be represented today when a colorful academic procession winds its way through Lubbock Municipal Coliseum for the inauguration of Texas Tech's eighth president, Dr. Grover Elmer Murray.

The inauguration at 9 a.m. today has attracted, in addition to government leaders and representatives from colleges and universities, representatives from learned and professional societies across the land. Classes will be dismissed until 1 p.m. and the ceremonies are open to students.

Officials participating in the inauguration include Dr. Carey Cronelis, Chancellor of Rice University and principal speaker, Texas A&M University President Earl Rudder, who will introduce Dr. Cronelis, Tech Academic Vice President Dr. W. M. Pearce, who will preside and Tech Board Chairman Roy Furr of Lubbock who will install Dr. Murray.

ALSO ATTENDING the inauguration will be participants in Monday's symposium on arid and semi-arid lands, including former President of Mexico Sr. Lic. Emilio Portes Gil, Secretary of the Interior Stewart L. Udall, Secretary of Health, Education and Welfare John W. Gardner, Texas Governor John Connally, Dr. S. Dillon Ripley, Secretary of the Smithsonian Institution, Dr. William T. Pecora, Director of the U. S. Geological Survey and Senior Research Hydrologist Dr. Luna B. Leopold.

Sr. Portes Gil, Udall and Gardner will receive honorary doctorates of law during the ceremony. New York conservationist-philanthropist Laurance S. Rockefeller will receive an honorary Doctor of Humanities degree.

According to inaugural tradition, the representatives of the colleges, universities and learned societies will be ranked in the procession according to the institutions age. They will join the Texas Tech College Marshals, members of the Student Senate, faculty members, special guests, members of the board of directors and the presidential party to form the solemn procession marching into the coliseum to begin the inauguration.

THE OLDEST institution represented is the Sorbonne in Paris, founded in 1253. In keeping with the custom in such academic ceremonies, Dr. B. C. Friedl, Tech visiting professor of English, will lead the procession.

The oldest western hemispheric university, The National University of Mexico which was founded in 1571, will be represented by Sr. Francisco Gonzalez. Harvard, the oldest United States institution to be represented, was founded in 1636, and is represented by Tech Dean of Student Life James G. Allen.

On the other end of the scale, the youngest institution to be represented, San Jacinto College, was founded in 1961. Its representative is Orval Weldon Marcom.

MORE THAN 70 learned societies will also be represented.

The American Association for the Advancement of Science, established in 1848, is the oldest of the societies represented. Its representative is Dr. Ripley.

Music for the ceremony will be presented by the Tech Concert Band, Symphony Orchestra, Choir and Tech Singers. Color guards from the U.S. Air Force and Tech Army ROTC units will participate.

Student Association President Bill Beuck of Midland, Ex-Students Association Past President Don Anderson

of Crosbyton and Faculty Representative Dr. Ernest Wallace, professor of history, will extend greetings. Dr. Paul M. Bumpers of the First Methodist Church will deliver the invocation.

"ACADEMIC EXCELLENCE and Educational Failure" is the topic of Dr. Cronelis' speech.

The honorary degrees will be presented following President Murray's induction. Rockefeller will give the response.

Dr. Dudley Strain of the First Christian Church will give the benediction. Paul Ellsworth will conduct the Tech Symphony for the recessional.

Chester C. Jaynes will serve as Chief Marshal for the inaugural ceremonies. Other Marshals are H. A. Anderson, H. Edsel Buchanan, Berlie J. Fallon, Lawrence L. Graves, C. Burl Hubbard, Philip Johnson, Bill C. Lockhart, Keith R. Marmion, Kline A. Nall, George R. Philbrick and Tom B. Stenis.

International participants led by Gil

Former President of Mexico Emilio Portes Gil arrived Saturday night at Lubbock Municipal Airport, the first of the distinguished delegation of Mexican and American officials here for the inauguration of Dr. Grover E. Murray as the eighth president of Texas Tech.

Another distinguished Mexican representative, Senor Jaime de la Cerda, Executive President of the Mexican Institute of Arid Zones, arrived with Senor Gil to complete the list of international delegates.

THE MEXICAN delegation was greeted by Lubbock Mayor W. D. "Dub" Rodgers and numerous city officials. Mayor Rodgers presented Senor Portes Gil and Senor Jaime de la Cerda with plaques making them official citizens of Lubbock, the city with a "vigorous present and a promising future," according to Rodgers.

THREE LUBBOCK businessmen hosted a reception Monday night for the delegation of Mexican officials.

Roy Furr, Hiram Parks, and Charles Maedgen entertained the Mexican visitors and other guests in the Green and Gold room of the El Capitan Theater.

SEÑOR PORTES Gil, who played a key role in Monday's symposium on arid and semi-arid lands, will receive an honorary doctorate of law during today's inauguration, according to Tech officials.

Senor Portes Gil, who was introduced by Senor Jaime de la Cerda at Monday's symposium, addressed participants on "Arid and Semi-Arid Zones in Mexico."



Dr. Grover Elmer Murray

Presidential inauguration highlights brilliant career

The inauguration today of Dr. Grover E. Murray as the eighth president of Texas Technological College serves as a highlight of a brilliant career and signals the beginning of a new role for Tech as an educational institution.

An array of state, national and international figures attending his inauguration today attest to the widely known accomplishments of Murray and the institution he heads.

The broad problem of arid and semi-arid lands around the world and what to do about it is the latest challenge undertaken by Murray in a long and distinguished career which includes recognition, achievement and many honors in his chosen field of geology.

MURRAY'S ANSWER to this problem is focused and crystallized in a concept calling for the creation and establishment of an International Center for Arid and Semi-Arid Land Studies (ICASALS) at Tech.

A native of North Carolina, Murray graduated from the University of North Carolina in 1937 and went on to do

graduate work at Louisiana State University. After receiving his Ph.D. there in 1942, he entered private business in geology.

In 1948, he returned to LSU as a teacher and in two years was appointed to the chairmanship of the Department of Geology. Continuing his ascent in the educational field, he was named Vice President for Academic Affairs for the LSU system in 1965, the post he held when named eighth president by Tech's Board of Directors on Feb. 7, 1966.

HIS PROFESSIONAL affiliations and accomplishments include serving as president of several national and regional associations pertaining to study and research in geology. He is the only man to serve as president of both the American Association of Petroleum Geologists (1964-65) and the Society of Economic Paleontologists (1963-64).

His publications include papers on "Structural Geology"; "Micropaleontology"; Stratigraphy and Regional Geology of Coastal Province"; "Geomorphology"; "Geophysics"; "Sur-

(CONTINUED ON PAGE 4)

Dignitaries gather for ceremonies

Some of the highest officials in the state and nation will join five of Tech's seven past presidents for today's inauguration of the university's eighth president, Dr. Grover E. Murray.

Secretary of the Interior Stewart L. Udall and Secretary of Health, Education and Welfare John W. Gardner will head the list of dignitaries which includes Gov. John Connally, Lt. Gov. Preston Smith, Rep. George Mahon (D-Tex.), Texas Higher Education Commissioner Jack K. Williams, National Recreation and Parks Association Director Conrad L. Wirth, State Sen. H. J. "Doc" Blanchard and Lubbock Mayor W. D. "Dub" Rodgers.

PAST PRESIDENTS, whose tenures represent 28 years of service include:

—President Emeritus Clifford B. Jones, a member of Tech's first Board of Directors and president from 1938 to 1944; now Chairman of the Board of Directors of Lubbock National Bank.

—Dr. William Marvin Whyburn, member of Tech's first faculty and president from 1944 to 1948; now Kenan Professor of Mathematics at the University of North Carolina. He will represent the University of North Carolina in the inaugural procession.

—Dr. Dossie M. Wiggins, Tech president from 1948 to 1952; now Chairman of the Executive Committee of Citizens State Bank of Lubbock and member of the Coordinating Board, Texas College and University System, He will represent Yale University in the inaugural procession.

—Dr. Edward Newlon Jones, vice president from 1948 to 1952 and president from 1952 to 1959; now Sec. of the Christian Education Commission, Baptist General Convention, Dallas, Texas.

—Dr. Robert C. Goodwin, joined the Tech faculty in 1930, serving as department head, dean and vice president before becoming president in 1959; resigned the position in 1966 to become Advisor to the President and Coordinator of Grants and Contracts at Tech.

DR. PAUL W. HORN, Tech's first president, served from its opening in 1925 until his death in 1932. His successor, the late Dr. Bradford Knapp, was president from 1932 to 1938.

Tech's Vice President for Academic Affairs Dr. William M. Pearce will preside at the inaugural ceremonies. The principal address will be delivered by Dr. Carey Cronelis, Chancellor of Rice University and Roy Furr, chairman of Tech's board of directors, will install Murray.

Following the inauguration there will be a noon luncheon for distinguished guests in the Tech Union.

INAUGURATION participants were honored at a banquet Sunday followed by a program including a showing of the film "Murder of Silence", and a preview of the proposed Texas State Parkway by Tech's department of park administration. A reception in honor of Dr. and Mrs. Robert C. Goodwin and Dr. and Mrs. Grover E. Murray was held Monday. Music for the event was furnished by the Faculty Woodwind Quintet and the Faculty String Trio.

Previous inaugurations not as elaborate

AT TEXAS TECH'S first official ceremony on a crisp November day 42 years ago, visiting dignitaries occupied an open-air platform in the midst of an expanse of raw Texas prairie.

Although the orators spoke from a lectern improvised from a bale of newly-ginned cotton, their words expressed in glowing terms their predictions for the "college that was to be." The occasion was the cornerstone laying for Tech's Administration Building, the first structure on campus.

IN THE YEARS SINCE that auspicious service, Tech has celebrated many milestones—many accomplishments of students, faculty and administration—as it has developed into a multi-purpose university of constantly expanding scope and depth.

Preparations are now completed for a ceremony of unusual significance today on the occasion of the inauguration of Tech's eighth president, Dr. Grover E. Murray.

The formal service, traditionally one of the most colorful of academic pageants, also will attest to Tech's

coming of age as one of the nation's major educational institutions.

An estimated 8,000 will be able to view the colorful panorama from the tiered seats in the spacious Coliseum, an advantage not enjoyed by audiences on ceremonial occasions when the college was younger.

LACK OF FACILITIES kept large formal gatherings to a minimum during the tenures of Dr. Paul W. Horn (1925-32), Dr. Bradford Knapp (1932-38) and Dr. Clifford B. Jones (1938-44).

World War II contributed a patriotic theme to the installation services (the first formal inauguration held at Tech) for Dr. William M. Whyburn which were held Sept. 30, 1944, in the Tech gymnasium.

Special music included "God Bless America," and "America" by the Tech Band and Chorus and the National Anthem.

The principal speaker, Bishop Ivan Lee Holt, in discussing the effects of the military draft on institutions of higher learning, concluded with the prediction: "The College will be crowded when the war is over. There will be such a demand for courses in science as never before.

There will be an ever-increasing demand for training for technical efficiency in economic development."

AT TECH, AS AT other colleges and universities across America, enrollment had dropped sharply during the war years, from a high of 3,890 in 1940 to half that number by 1943. True to Bishop Holt's prediction, registration in 1946 leaped forward to a spectacular 5,366, beginning the upward spiral that has continued, except for a slight decrease during the Korean conflict, to the present record high enrollment of 17,768.

Inaugural ceremonies for Tech's fifth president, Dr. Dossie M. Wiggins, were the first formal services to be held in Clifford and Audrey Jones Stadium. Florida State University President Dr. Doak S. Campbell, now retired, gave the principal address at the 8 p.m. open air service on May 10, 1949. The Arrangements Committee, aware of the vagaries of West Texas climate, thoughtfully appended a program note to the effect that "in case of inclement weather" the ceremony was to be removed to Lubbock High School.

Dr. Wiggins' successor, however, was not so fortunate. Inaugural ceremonies for Dr. Edward Newlon Jones, set for 9 a.m., May 18, 1953, on the Administration Building

Green were transferred, because of rain, to the First Baptist Church Auditorium.

IN SPEAKING TO the reassembled group, Dr. Henry Nash Smith of the University of Minnesota told his listeners: "Education has stepped out of its provincial role into the world. International needs will become stupendous. We must rely on humanistic scholarship as well as technology in meeting the challenges of the new role we are called upon to play in world affairs."

Dr. Robert C. Goodwin, who retired as president at the beginning of the current fall semester, was installed at 10 a.m. services Dec. 9, 1960, in Lubbock Municipal Auditorium. Guest Speaker Dr. Herman E. Spivey of the University of Tennessee discussed values of an interdisciplinary curriculum, higher admission standards and the role of foreign languages in the universities of the future. He also advocated year-around schedules of study. "Time is too precious," he noted, "to permit long holidays."

Dr. Murray's inauguration, to begin at 9 a.m. today in Municipal Coliseum, is expected to be recorded as the largest inaugural ceremony ever at Texas Tech.

gift of Dorothy Crawford 1971

Activities draw major government figures

★ ★ ★ Udall holds 'sensitive' major post

"Secretary of Many Things" appears to be the most apt description of Stewart Lee Udall, secretary of the interior for the past five years under President Kennedy and Johnson.

Udall spoke Monday at the day-long symposium on arid and semi-arid lands, a prelude to Dr. Grover E. Murray's inauguration today as president of Texas Tech.

As secretary of the interior, he holds a politically sensitive post since his department is involved in more than a fifth of the legislation handled by Congress.

Udall heads a federal agency of 55,000 employees charged with the administration of nearly 600 billion acres of public land, playing host to 70-million vacationing Americans who swarm into 200 national parks and monuments every year.

HIS DUTIES, however, extend far beyond summer fun and frolic. Power plants operated under Interior's jurisdiction generate eight million kilowatts of electricity. Its irrigation dams deliver water to seven million acres of farm land. Oil reserves under its control produce enough fuel to heat six million homes for a year.

Above all, Udall and his agency bear the prime responsibility of conserving what is regarded in the Southwest as America's most precious natural resources—land and water.

After graduation from public school in St. Johns, Ariz., Udall attended Eastern Arizona Junior College and the University of Arizona, but his education was interrupted by World War II. He logged 50 flying missions over Europe as a tail gunner aboard a B-24.

When the war ended he returned to the University of Arizona to earn his



STEWART UDALL

law degree in 1948.

HE PRACTICED law in Tucson for six years, then made a successful entry into politics in 1954, running for Congress as a liberal Democrat. Arizona voters later returned him for two more terms in Washington.

Following the November, 1960, elections, Udall was the first cabinet member named by President-elect Kennedy. At 40 he was the youngest on the cabinet except for the Attorney General, Bobby Kennedy.

He recently has been under fire by outspoken writers protesting the de-generation of scenic America into a land of neon signs and junkyards.

HE ADDED, "There is no doubt in my mind that we can keep America a green and pleasant land if conservation becomes a constant concern of important magazines and the daily press. Wrong-headed bureaucrats, indifferent public officials and shortsighted highway engineers will put the future uppermost in their planning if they feel the hot breath of public opinion."

Udall's own book, "The Quiet Crisis," published in 1963, traces land development and mis-use from the nature-oriented ideas and practices of the American Indian down through the times of Daniel Boone, Jed Smith and the Mountain Men, to the strip-and-run operations of the lumber industry in the early 1900's, wide-open oil production of early drilling booms and the Dust Bowl era of the 30's.

★ ★ ★ Gardner serves as HEW head



DR. JOHN GARDNER

An extensive background in education, ranging from college teaching to serving as president of the Carnegie Corporation of New York, has led John W. Gardner to his present position as U.S. Secretary of Health, Education and Welfare.

Gardner was a Monday afternoon participant in the symposium on arid and semi-arid lands, speaking on the subject "Education—The Human Side of Economic Development."

GARDNER, WHO was appointed to the Cabinet by President Lyndon B. Johnson on July 27, 1965, joined the Carnegie Corporation in 1946 as executive associate. He became president in 1955, and the same year was made president of The Carnegie Foundation for the Advancement of Teaching.

The 54-year-old Gardner is an honorary fellow of Stanford University where he received his A.B. and B.A. degrees. He received his PhD at the University of California and holds numerous degrees from colleges and universities in the United States and Canada.

He will receive another today at the inauguration of Dr. Grover E. Murray as president of Texas Tech when he is awarded an honorary doctorate of law degree.

BEFORE WORLD War II, Gardner taught psychology at Connecticut College for Women and Mount Holyoke College, a woman's college in Massachusetts.

In 1942, he served as chief of the Latin American Section of Foreign Broadcast Intelligence Service of the Federal Communications Commission.

The following year he joined the U.S. Marine Corps and was assigned to the Office of Strategic Services. He

served with the OSS in Washington, Italy and Austria. At the time of his release from active duty, he was ranked a Captain.

GARDNER HAS at various times served as consultant to the U.S. delegation to the United Nations, the Air Force, the Department for Defense, the Agency for International Development, the U.S. Office of Education, and the White House.

He served on the special Task Force on Education established by President John F. Kennedy shortly after his election in 1960. He was chairman of the U.S. Advisory Commission on International and Cultural Affairs (1962-64), President Johnson's Task Force on Education (1964), and of the White House Conference on Education (1965).

In 1964 Gardner was awarded the Presidential Medal of Freedom, the highest civil honor in the United States.

PRIOR TO HIS cabinet appointment, Gardner served as a member of the board of the Metropolitan Museum of Art and the American Association for the Advancement of Science; and is a fellow of the American Psychological Association and of the American Academy of Arts and Sciences. He is a member of the Council on Foreign Relations and the Society of Sigma Xi.

He is the author of "Excellence: Can We Be Equal and Excellent Too?" and "Self Renewal: The Individual and the Innovative Society."

★ ★ ★ Mexico's ex-president leads foreign visitors

Former President of Mexico Sr. Lic. Emilio Portes Gil heads a distinguished delegation of top ranking Mexican officials now visiting Texas Tech for the inauguration today and Monday's symposium.

Sr. Portes Gil, honorary president of the Mexican Institute of Arid Zones, will receive an honorary doctorate of law degree in today's ceremonies.

SR. PORTES GIL, who will be introduced by Sr. Ing. Alfredo de la Cerda, executive president of the Mexican Institute of Arid Zones, addressed symposium participants on "Arid and Semi-Arid Zones in Mexico" Monday.

Sr. Jaime de la Cerda is the official inaugural representative of the Mexican Department of Agriculture and Livestock, the Mexican Institute of Arid Zones and the International Commission for Arid Land Studies of the United Nations, which he served as president in 1962.

Sr. Portes Gil, born at Ciudad Victoria, Tamaulipas, Mexico, in 1891, attended the Escuela Libre de Derecho in Mexico City where he earned the LL.B. in 1915. He holds honorary degrees from the University of Hamburg, the National University of Mexico, the University of Santo Domingo and the University of Mississippi.



PORTES GIL

Domingo and the University of Mississippi.

HIS INTEREST in science, the letters and diplomacy has earned him the gratitude of many countries and recognition accorded through decorations by the governments of France, Haiti, Ecuador, Cuba, the Dominican Republic, Brazil, Panama, Lebanon, Italy and the United Arab Republic.

He has served as a representative to the Mexican Congress in 1917, later as governor of his native state of Tamaulipas and Secretary of the Interior from which he was elevated to the presidency of the Republic of Mexico on Feb. 5, 1930.

Other former posts include attorney general of Mexico, Secretary of State for Foreign Affairs, president of the National Revolutionary Party and ambassador for his country to the Dominican Republic, Ecuador and India.

SR. JAIME DE LA CERDA, who founded the Institute he now heads, also brings an impressive array of credentials to the symposium and inaugural events.

A founding member of the Mexican National Farmers Confederation, the National Revolutionary Party and the Confederation of Mexican Workers, he was secretary general of the Mexican Teachers Association in the state of Coahuila from 1942 until 1948.

From 1952 until 1953, Sr. Jaime de la Cerda conducted research on agrochemical problems at the Central American Experiment Station in Turrialba, Costa Rica, and in 1961 was appointed chairman of arbitrators of the Academy of Physics and Natural Sciences of the Republic of Argentina.

A member of the Mexican Association of Writers, he has written five books on the social sciences and arid land studies. Sr. Jaime de la Cerda is technical consultant to the Mexican Department of Agriculture and the Arid Zones Industries Board, and has held his present post since 1964.



DE LA CERDA

We at the Book & Stationery Center wish to extend our congratulations to Dr. Grover E. Murray on his inauguration as president of Texas Technological College.

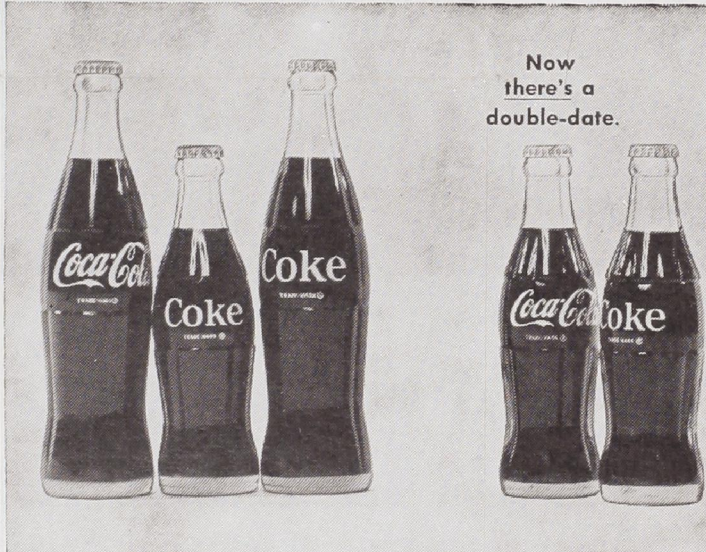
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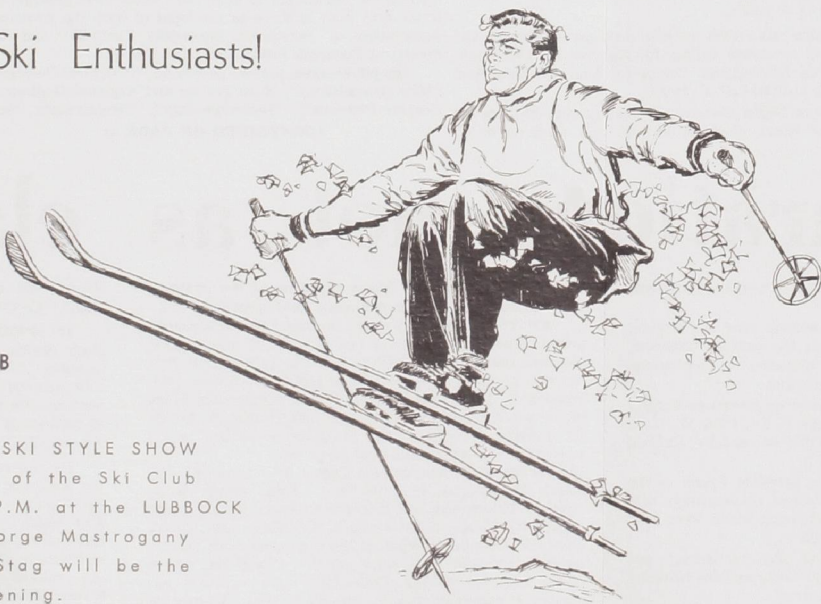
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Five college presidents work with inauguration

Presidents of five Texas educational institutions have key roles in events surrounding the inauguration of Dr. Grover E. Murray as Texas Tech's eighth president.

Dr. Harry H. Ransom, chancellor of the University of Texas System; Dr. Jack Woolf, president of Arlington State College; and Dr. Phillip G. Hoffman, president of the University of Houston, introduced distinguished speakers at Monday's Symposium on Arid and Semi-Arid Lands preceding the inaugural ceremonies.

RANSOM

RICE UNIVERSITY Chancellor Dr. Carey Croneis will be the principal inauguration speaker today. He will be introduced by Earl Rudder, president of the Texas A&M University System.

Dr. Ransom introduced Interior Secretary Stewart L. Udall who discussed "The Arid Lands: Conservation is Always the Key."

Dr. Woolf introduced Dr. S. Dillon Ripley of the Smithsonian Institute, who spoke on "Adaptation to Environment."

Dr. Hoffman presented Dr. William T. Pecora, director of the U.S. Geological Survey who discussed "Geologic Science and the Future of Man."

HOFFMAN

Dr. Ransom, through a 30-year association with the University of Texas, has contributed in many ways to its advancement — first as a teacher and as an administrator. He is nationally recognized as an articulate spokesman for higher education.

Born in Galveston in 1908, Dr. Ransom joined the Texas faculty in 1935 as a part-time instructor in English. His administrative tasks began in 1951, when he became assistant dean of the Graduate School. He became chancellor in 1961.

Dr. Woolf, a native of Trinidad, Tex., has been president of Arlington State since 1958. He joined the Arlington faculty as dean of the college in 1957 after teaching and administrative duties at Texas A&M.

DR. HOFFMAN was named University of Houston president in 1961 and was inaugurated in 1962. Before joining the university in 1957 as vice president and dean of faculties and professor of history, he was dean of the faculty at Portland State College.

Dr. Hoffman was born in Kobe, Japan, in 1915, where his parents were missionary-teachers. His parents returned to the United States in 1920 and Dr. Hoffman grew up in Washington, Oregon and California.

President Rudder, a native of Eden, was appointed vice president of A&M in 1958, and was elevated to president the following year. In 1965, the board of directors named him president of the Texas A&M University System, consolidating the office of chancellor with the office of university president.

RUDDER

Rudder has remained active in the Army Reserve since World War II. In 1954 he was promoted to brigadier general and in 1957 advanced to major general. He took command of the 90th Infantry Reserve Division in 1955. In 1963 he left the 90th to become assistant deputy commanding general for mobilization, Continental Army Command.



DR. WILLIAM T. PECORA

With U.S. Geological Survey

Dr. Leopold recognized authority on hydrology

Dr. Luna B. Leopold, senior research hydrologist of the United States Geological Survey, is a recognized authority on rivers and their relationship to man.

Dr. Leopold participated in Monday's symposium on arid and semi-arid lands, speaking on "Man and Climate."

LEOPOLD

Dr. Leopold's engineering field experience covers numerous aspects of water-resources development, particularly in hydrology. In recent years he has concentrated on research in the field of river mechanics, the hydrologic and physiographic characteristics of river channels and on certain aspects of water-sediment relations in rivers.

Geological Survey director known for 'investigations'

Government officials have described Dr. William T. Pecora, director of the U.S. Geological Survey, as a "scientist of unusual depth and stature."

Dr. Pecora, a distinguished earth scientist and expert on mineralogy, petrology and geochemistry, spoke on

"Geologic Science and the Future of Man" at Monday's symposium.

The 53-year-old director has traveled throughout the Western Hemisphere on field investigations and served on numerous geological committees in the United States.

DR. PECORA received his B.S. from Princeton University in 1933 and his PhD in geology from Harvard in 1940.

In 1939 he joined the Department of Interior with the geological survey team. For three years he participated in field investigations of nickel deposits in Brazil, Venezuela and Alaska.

Until 1946 he was in Brazil, investigating mica deposits and associated pegmatite deposits.

In 1957 Dr. Pecora became chief of the branch of geochemistry and petrology and in 1964 attained his present position as chief geologist and director of United States Geological Survey.

Dr. Pecora is the author of more than 40 scientific publications based on field and laboratory research. His research studies have been made throughout the United States, and, on behalf of foreign aid programs, have extended into many parts of Latin America.

UPON ELECTION to membership in the National Academy of Sciences in 1965, he was cited for "distinguished and continuing achievements in original research."

Dr. Pecora is a past president of the Geological Society of Washington; a fellow in the Geological Society of America and in the American Academy of Arts and Sciences; a member of the Executive Committee of the National Research Council, Division of Earth Sciences; a member of the Advisory Committee for Graduate Records Examination to Geology; chairman of the U.S. Civil Service Commission's Board of Examiners for Geology; and a member of the Advisory Council for the Department of Geology at Princeton University.

Wirth still works with 'playgrounds'

Providing playgrounds for America is the job Conrad Louis Wirth knows best.

Wirth, director of the National Park Service from 1951 through 1964, spoke at a Sunday night program preceding the symposium.

He is currently executive director of the National Recreation and Parks Association.

WIRTH

In 1928 Wirth began his government service with the National Capital Park and Planning Commission (now the National Capital Planning Commission).

Wirth advanced to the position of assistant director in charge of land planning for the National Park Service in 1931.

Keenly interested in the provision of adequate recreational facilities for everyone, Wirth initiated the movement which resulted in 1936 in the passage by Congress of the Park, Parkway and Recreational Area Study Act, and he directed the state-by-state studies which were undertaken under the authority of the Act.

Wirth retired as director of the National Park Service on January 7, 1964. He is the only man to receive the Pugsley Gold Medal of the American Scenic and Historic Preservation Society, for long and valuable service in behalf of the National Parks.

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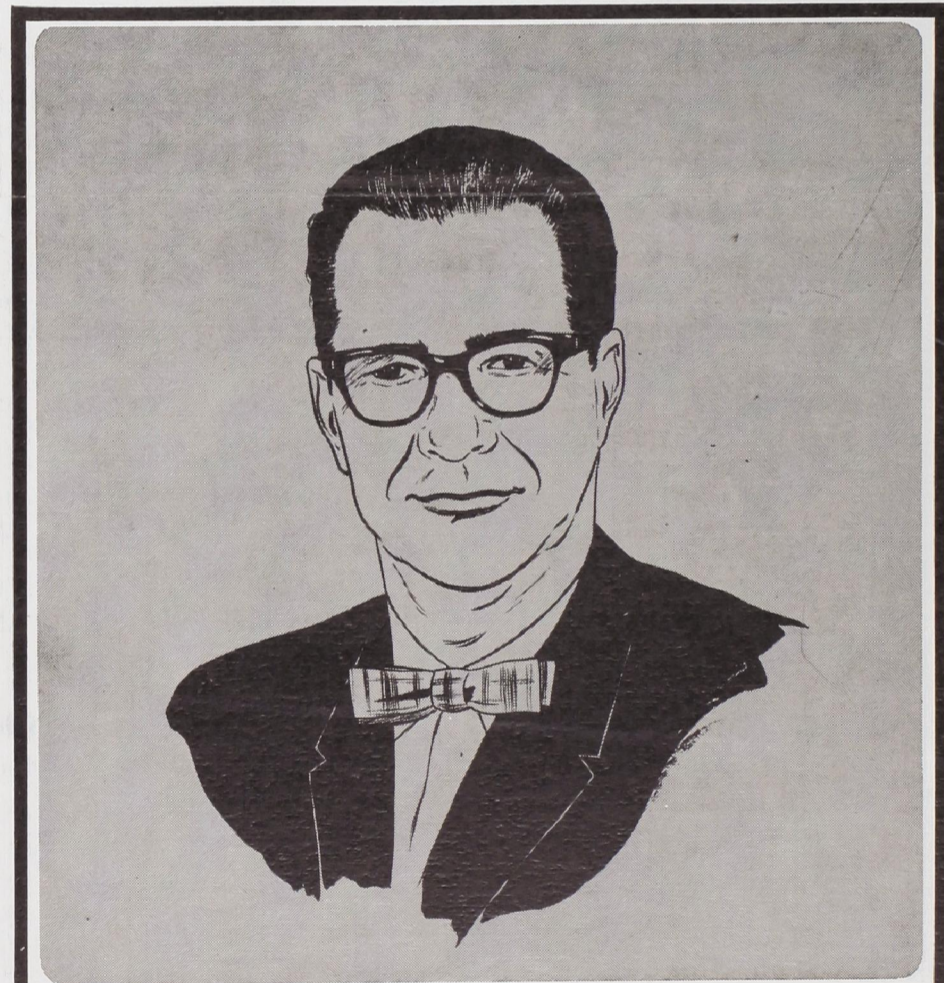
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DR. GROVER E. MURRAY

With great pleasure, we welcome you, Dr. Murray, to the highest position of authority at Texas Tech. It's a good feeling to know that a man with your qualifications is in this important post. The responsibilities of your office are in capable hands. We trust that you will lead Tech on to even higher accomplishments! Welcome, Dr. Murray, to Texas Tech and Lubbock.

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Smithsonian boss favors birds, nature

Dr. S. Dillon Ripley, secretary of the Smithsonian Institution, describes himself as an "old-fashioned naturalist of the Darwin school."

Dr. Ripley, eighth secretary of the 120-year-old Smithsonian, is a well-known biologist, ecologist and authority on the birds of the Far East. He spoke on "The Challenge of Adapting Human Societies to Arid Environments" at Monday's symposium.

HE WAS NAMED to head the Smithsonian in 1964 after serving four years as director of Yale's Peabody Museum of Natural Science, and 18 years on the Yale faculty. He also has served on the staffs of the Academy of Natural Sciences in Philadelphia, the American Museum of Natural History in New York and Harvard University.

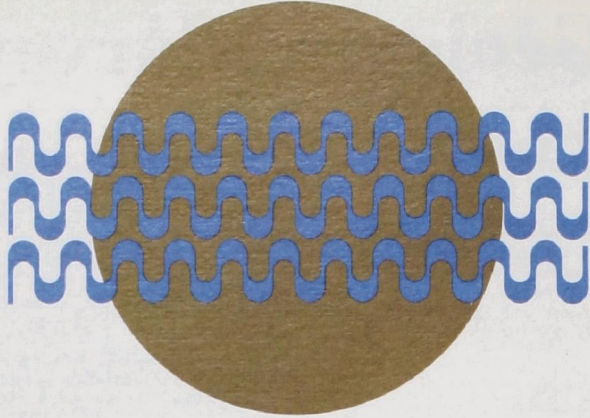
Dr. Ripley was only 13 when he hiked through western Tibet studying birds. At 17, he constructed a small duck pond and since then has spent 35 years observing and collecting waterfowl.

The Smithsonian Museum of Natural History numbers more than 3,000 specimens of birds and mammals collected by Dr. Ripley on field trips to the South Pacific, Ceylon, India and Nepal.

He has written seven books on remote parts of the world and on ornithological studies, including "A Paddling of Ducks," "Search for the Spiny abler," "Trail of the Money Bird" and "Land and Wildlife of Tropical Asia."

A NATIVE OF New York City, he served as a civilian attached to the Office of Strategic Services during World War II. He holds degrees from Yale and Harvard and decorations from many foreign countries, including the Order of the White Elephant from the government of Thailand.

Married and the father of three, he is an officer of the American Ornithologists' Union, serves on the executive board of the International Union for the Conservation of Nature and Natural Resources and is a council member of the American Association of Museums.



ICASALS SYMBOL — The above figure, designed by Witteborg and Williams of New York, will symbolize Tech's International Center for Arid and Semi-Arid Land Studies and will be affixed to all correspondence, reports and papers pertaining to it. The round disc represents a dust-covered sun or an arid world, while the waves splashing across it depict the need for water in order to survive.

Brilliant career highlighted...

(CONTINUED FROM PAGE 1)

face Geology"; "Petroleum Geology"; "Mexico"; "Australia"; and "South America."

Murray's national professional affiliations include a wide range of responsibilities and key positions with the Geological Society of America of which he is a Fellow.

IN THE SOCIETY OF Economic Paleontologists and Mineralogists, he has held the following posts: Committee on Members and Papers, (1948-50); Nominating Committee, (1948-50); Editor, Journal of Paleontology, (1952-54); Research Committee, Member, (1951-55); Research Committee, (Vice Chairman, 1957; Chairman, 1958), (1957-64); Member, Gulf Coastal Section, (Vice President, 1959), (1957-60); Representative to Paleontological Society Council, (1954-55); President, (1963-64); Past President and member of National Council, (1964-65); Representative to American Geological Institute's House of Society Representatives, (1964-68).

Offices in the American Association of Petroleum Geologists include: Associate Editor, (1963-64); Voluntary Research Fund Campaign Committee, (1963-65); President, (1964-66); Representative to American Geological Institute's House of Society Representatives, (1965-68); Chairman, Nominating Committee, (1966-67); Member, Executive Advisor Committee, (1966-67); Member, Medal Award Committee, (1966-69).

HIS INTERNATIONAL affiliations include the Sociedad Mexicana de Geologia, Norsk Geologisk Forening, Asociacion Mexicana de Geologos Petroleros, International Commission on Stratigraphy, and Australian Petroleum Exploration Association. He was official delegate of the State of Louisiana, and official delegate of LSU at the International Geological Congress, Mexico City, 1956. He represented LSU, The American Association of Petroleum Geologists, and the Society of Economic Paleontologists and Mineralogists at the 11th International Geological Congress, Copenhagen, 1960. He was the official U.S. delegate, head delegate of the A.A.P.G. and official delegate of the State of Louisiana and LSU at the 12th International Geological Congress in New Delhi, 1964.

HE IS CURRENTLY a member and Chairman of the U.S. National Committee on Geology, is a member of the National Panel of Arbitrators of the American Arbitration Association, is on the Board of Directors of the Public Affairs Research Institute of Louisiana and serves on the board of the Organization for Tropical Studies, Inc. Murray currently is President of the Gulf Universities Research Corporation and is a member of the Board of Directors of the American Society for Oceanography.

Born in Maiden, North Carolina Oct. 26, 1916, Murray is married to the former Nancy Beatrice Setzer. The couple has two daughters, Marth (Mrs. Wiley Poage) and Barbara Elizabeth.

Rice chancellor speaks today

Croneis is noted geologist

A fellow geologist, now chancellor of Rice University, Dr. Carey Croneis, will play a big part in today's inaugural ceremonies for Dr. Grover E. Murray.

Dr. Croneis, as principal speaker for the inauguration, will talk on "Academic Success and Educational Failure."

He is currently chairman of the board of directors of the Gulf Universities Research Corporation, of which Dr. Murray is president.

HE WAS APPOINTED Rice chancellor in 1961 after serving one year

as acting president. He joined the Rice faculty in 1954 as provost and Harry C. Weiss Professor of Geology after serving as president of Beloit College for 10 years.

The educator-geologist graduated from Denison University in 1922 with Phi Beta Kappa honors. He took his doctorate in geology at Harvard in 1928.

While a faculty member at the University of Chicago, he served as consultant to the National Defense Research Committee, designed the geology section of the Chicago Museum of Sci-

ence and Industry, headed the Hall of Science at the Chicago Century of Progress Exhibition and was a member of the National Science Foundation Committee on Mathematics, Physical and Engineering Sciences.

Currently, Dr. Croneis is a member of the Manpower Panel of the President's Scientific Advisory Committee and was recently appointed by the U.S. Commissioner of Education to membership on the newly created National Advisory Committee on Graduate Education.

Chancellor Croneis is a past president of the American Geological Institute, the National Association of Geology Teachers and the Society of Economic Paleontologists and Mineralogists. He is the author and co-author of several books and numerous scientific articles and reviews. Dr. Croneis is Chairman of the Board of Educators of the United Educators of Chicago and is editor of the Harper and Row series of texts and monographs in the Earth Sciences.

HE HAS RECEIVED six honorary degrees, as well as a special citation from the Guatemalan government. He has served as Chairman of the Southwestern Assembly sponsored by Rice and Columbia Universities.

Chancellor Croneis was the first President of the Houston Council on World Affairs and is a past chairman of the board of directors of the Contemporary Art Association. He also has served as a board member of the Houston Chamber of Commerce, the Houston Museum of Natural Science, the Kinkaid School, the Graduate Research Center of the Southwest and Geotechnical Corporation of Dallas.

The White House Conference on Natural Beauty. He is a member of the Public Land Law Review Commission, formed by President Johnson in 1964 to make a four-year study of public land laws.

Parade Magazine, in a recent profile, called him "the country's foremost salesman for the outdoors," and a man who "demonstrates that he loves his wares."

The six-foot tall, 56-year-old businessman-philosopher prefers horseback riding for recreation. He also likes to fish, hike and play golf. As a publicity stunt, he and his brother, New York Gov. Nelson Rockefeller, recently took a horseback camping trip to promote greater use of riding trails in state parks.

His great interest in conservation led him, in 1958, to found the American Conservation Association, Inc., established to advance, improve and encourage knowledge and understanding of conservation, to preserve, protect and restore the beauties of landscape and to educate the public in regard to the proper use of such areas.

He is trustee and vice president of the New York Zoological Society, a founder and trustee of The Conservation Foundation, a director of the American Committee for International Wildlife Protection, a trustee of the National Geographic Society, a director of Resources for the Future Inc. and a member of the Board of Governors of the Pinchot Institute for Conservation Studies.

Rockefeller sets pace for conservation, parks

Laurance S. Rockefeller, who will be awarded an honorary Doctor of Humanities degree at today's inaugural ceremonies for Dr. Grover E. Murray, believes that preservation of such natural resources as land, water and scenery can help to relieve tensions in today's troubled world.

A man who likes outdoor recreation himself, Rockefeller has long been an advocate of creating wilderness resorts for use now as well as in the future.

Tech's directors, in voting to confer the degree, were unanimous in their praise of Rockefeller's role as conservationist, philanthropist, leader and advocate of outdoor recreation throughout the Americas and for his keen interest in state and national parks.

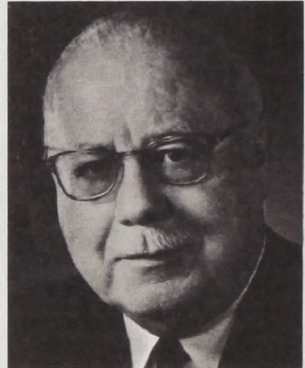
He has served two presidents and on numerous boards and committees during recent years.

Rockefeller was appointed chairman of the Outdoor Recreation Resources Review Commission by President Eisenhower, serving from 1958 to 1962, during which the bipartisan commission of eight congressmen and seven citizen members carried out an extensive study of the nation's outdoor recreation needs to the year 2000.

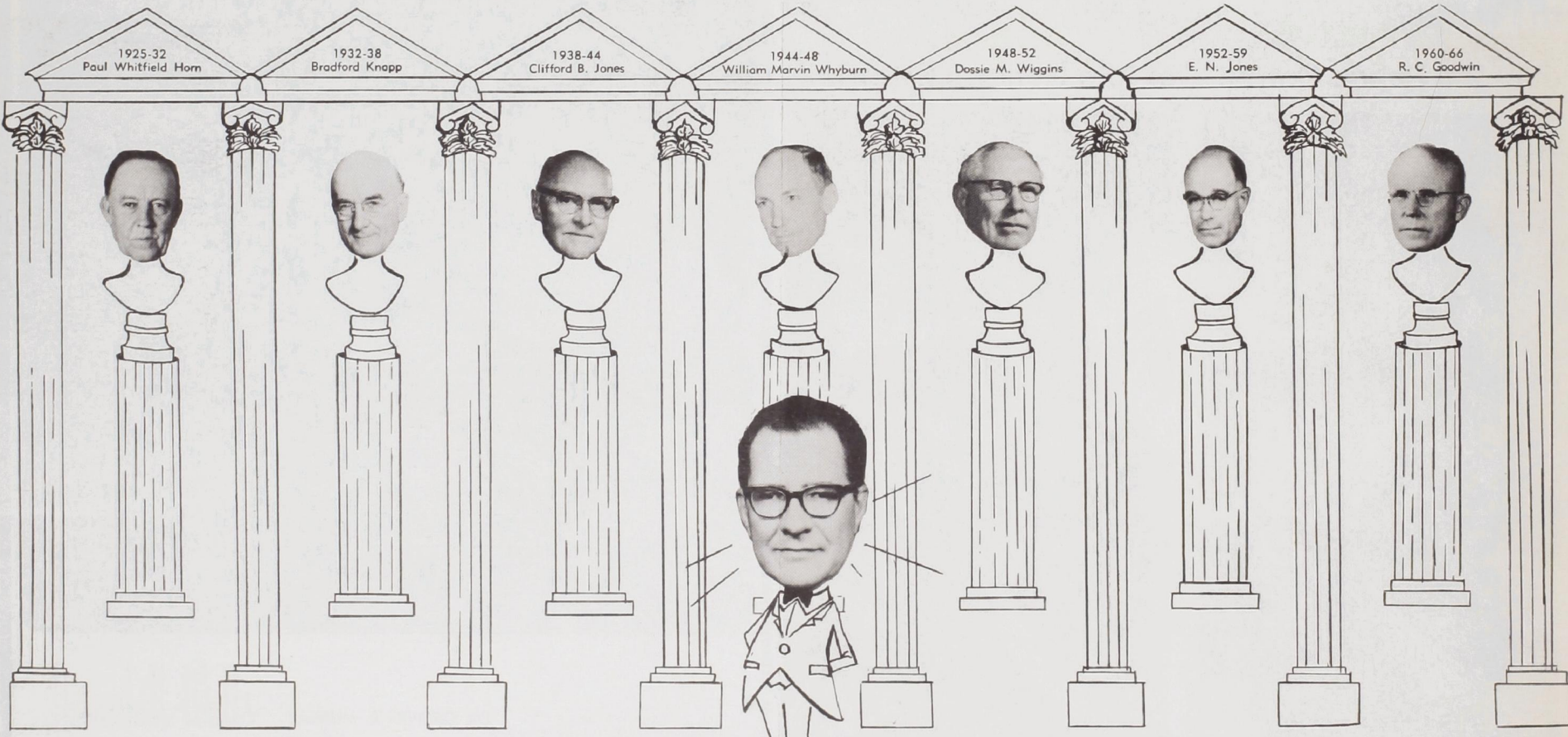
In 1964, he served on President Johnson's Natural Beauty Task Force and was chairman and coordinator of



ROCKEFELLER



DR. CAREY CRONEIS



TEXAS PRESIDENTIAL TECH "HALL OF HONOR"



With the dawn of a new era at Texas Tech, we at Hemphill Wells couldn't resist this bit of reminiscing... We have grown-up alongside Tech and have a close feeling for the many who have served "our" school so well and left us such a fine heritage.

To the fine men who have served as President of Tech, we particularly owe a great debt of gratitude. To DR. MURRAY, our new president, we offer our congratulations, our very best wishes...and we pledge to him our loyal efforts to the ultimate good of Texas Tech.

Gov. Connally lauds ICASALS program

By MACK SISK
Managing Editor

Gov. John Connally handed high praise to Tech's new president, Dr. Grover Murray, Monday and called Murray's proposal for an International Center for Arid and Semi-Arid Land Studies "a critically needed program."

Connally, speaking before more than 2,000 persons at a buffet luncheon in the Municipal Coliseum, said the arid and semi-arid land studies "is one area too long neglected."

Institutions such as Tech, he added, must play a greater role in research in the future.

H. J. (DOC) BLANCHARD, State senator from Lubbock, was master of ceremonies for the occasion. Symposium dignitaries, who introductory speak-

er George Mahon described as "the greatest assemblage of notable Americans we have had in the western area of the United States," also attended the luncheon and were introduced amid rounds of applause.

"The inauguration of Dr. Murray will bring depth and breadth of experience as well as daring and courage to Texas Tech," Connally said.

"We will have to look to such institutions for guidance for a solution to the problems of aridity and semi-aridity," the Governor added.

He said he was "totally committed" to providing resources to institutions for research into natural resource and water problems. "If we fail to use this educational institution and to provide it with funds, then we are defaulting

on a great responsibility," Connally said.

CONNALLY, EMPHASIZING the importance of water to the entire State of Texas and to the South Plains area in particular, said that at the end of the 1950-56 drought, 244 of Texas' 254 counties were classified as drought disaster areas.

"There is a need for research by Texas institutions of higher learning on problems having direct application to Texas," he said.

Connally said the research into specific water resources and related land resources problems will yield results in two ways:

• Solutions will be available to the public, to cities, to industries, political subdivisions and state and federal agen-

cies for direct application to Texas' problems, and;

• Undergraduates and graduates participating in such research will receive valuable training in one or more of the several phases of water and land resources technology.

"There is a critical shortage of those qualified to address themselves to this problem," the Governor added.

He cited Lt. Gov. Preston Smith of Lubbock and House Speaker Ben Barnes for their leadership in the Texas legislature for the creation of a statewide water plan.

He also complimented Texas Tech on its role in the realignment of the functions of the Texas Water Commission and the Texas Water Development Board accomplished last year.

"TEXAS TECH PROVIDED five reports on subjects pertaining to West Texas, and in addition made the services of Dr. Herbert Grubb (associate professor of agricultural economics) available to participate with the Board staff in the investigation of the economics of water-oriented recreation.

"Contributions such as these hopefully depict a continuation of the excellent working relationship of our institutions of higher learning with our state agencies in attacking, through basic and applied research, the many problems facing our State," he concluded.

Senatorial hopeful Carr speaks at Tech

By JUDITH FOWLER
News Editor

Approximately 75 persons turned out Monday night to hear what Waggoner Carr, Democratic candidate for U.S. Senate in next Tuesday's election, can do for Texas and Tech.

The meeting was sponsored by the Young Democrats for Carr and was designed to enlist student support in door-to-door canvassing of Lubbock.

CARR, A LUBBOCK resident in his youth, spoke of himself as the "home town candidate of the South Plains," and said "You have to live here to know the special problems of this area."

Before beginning, Carr—an ex-Techman himself—reminisced about the changes that had taken place on the campus since his days here and told the audience that he had done his best while in the legislature to work for its advancement.

IN OUTLINING his position as senatorial candidate, Carr said that the main issue at hand was the people's decision as to which candidate—the Democratic or the Republican nominee—would be the most effective voice for Texas in Washington.

"Any man can vote," he said. "What Texas wants is a man who can be most effective in persuading the policy makers. A Republican junior senator is not your strongest voice in persuading a Democratic president."

CARR WENT ON to cite the support he had on all levels of state and national government. He named among his active supporters 23 congressmen from Texas, John Connally, Lyndon Johnson, Preston Smith, Ben Barnes, ex-Governors Allen Shivers and Price Daniel.

Pointing out that among his supporters were liberals, conservatives and middle-of-the-roadsers, Carr said that he himself wanted to be "in the middle, in the mainstream, because that is where most of the people in the state of Texas and in the nation stand."

Carr spoke of himself as an "independent-thinking Democrat," who would have the weight of the majority party behind him when he went into caucus.

"I WILL BE the senator from Texas in Washington," he said, "and I will only answer to the people who elected me because there always comes a time when you will have to come home and account to the people for what you did."

"The greatest threat is the growing feeling among some of the people in this state that if you don't believe in a certain law you are free to disobey it.

"There are Americans today who

would rather divide up and fight it out in the streets. Laws are made for all to obey and it is the duty of public leaders and officials to create an atmosphere in which it is known that lawlessness will not be tolerated.

"THE BIG ISSUE of today is not Viet Nam or inflation," he said, "but lawlessness."

On the question of inflation, Carr said that although he did not claim to understand all the fine points of the issue, one main answer to the problem was a cutback or at least a holding-steady of government spending. According to Carr, inflation is caused by the government borrowing money out of circulation to pay off its deficit spending. This removal of money from circulation causes tight money and a rise in interest rates.

Carr cited an end to duplication in federal programs and federal agencies as one way of cutting deficit spending.

"Some people shop around until they find the best federal program," he said. "There is enough duplication in federal agencies that if they were to eliminate the duplication without cutting any benefits, experts estimate that a half a billion a year could be saved. This will be one of my first proposals."

ON THE OLD ISSUE of 14-B, Carr said the people of Texas have a right to decide for themselves whether or not they want to have right-to-work laws.

"Repeat would mean taking the issue out of the hands of the people, and the people are always the best judge."



WAGGONER CARR

Teller predicts man on moon in two years

BY ELAINE McLENDON
"The United States should have a man on the moon within two years," Dr. Edward Teller, world-famous American physicist and "father of the H-bomb," said Sunday night.

Teller arrived in Lubbock Sunday for the Symposium on Arid and Semi-Arid Lands held Monday.

IN DISCUSSING THE manned space program, Teller told the University Daily that, "Who gets to the moon first is not important, but who stays there and exploits the knowledge to be gained from the moon is more important.

"The only moderately reasonable projection beyond the Apollo project is Mars," he added.

To reach Mars, according to Teller, we will need essentially new technology and probably a means of nuclear propulsion which would be extremely expensive.

TELLER SAID THE U.S. should settle a colony of scientists on the moon to exploit the scientific advantages in using the moon as a base for reaching Mars.

The famous scientist emphasized five things to be accomplished from a moon landing.

First, exploring the moon would disclose the age of lunar rocks and give clues as to the origin of the planetary system.

SECONDLY, HE SAID modern electronic equipment will be necessary to study the surface chemistry of the moon.

A third consideration is the possibility of developing a very low temperature lab with proper insulation from lunar rocks.

This is possible due to the 14-day long lunar "night."

Fourthly the moon could serve as a base for astronomical observations since there is no atmosphere to look through and scientists can observe things clearly without distortion.

A FIFTH ITEM IS necessary in trying out these other points said Teller.

"To do all these things we would need a powerful nuclear reactor, designed to be constructed on the moon, to reduce the expense."

It is almost a certainty that there is bound to be hydrogen on the moon, to produce hydrogen fuels for rockets.

"THIS MAY be a base for a

Teller's establishment use it many

THE UNIVERSITY DAILY



Tuesday, November 1, 1966

★ The University Daily ★ 5

For ICASALS program

Federal help 'qualified possibility'

By DAVID SNYDER
Editor

Federal funds for Texas Tech's International Center for Arid and Semi-Arid Land Studies are a qualified possibility, Secretary of Health, Education and Welfare John W. Gardner said Monday.

However, such funds would require that ICASALS become a truly international program, with emphasis on research and improvement in foreign countries.

"Funds from the new International Education Program might well be used for research on developing nations," Gardner said.

THE INTERNATIONAL Education Program was established by Congress during its recent session, but no money was appropriated at that time. HEW will ask Congress for money for the program early next year, but Gardner said he "couldn't accurately tell" how much would be requested.

The 53-year-old head of the nation's

Here we go again!

Monday's symposium on arid and semi-arid lands contained a little bit of everything. Even the name-change issue was mentioned.

Gov. John Connally, perhaps accidentally, referred to "Texas Technological University" in his speech at noon, followed by applause from the faculty-predominated audience. He then proceeded to briefly explain the name-change issue to Secretary of Health, Education and Welfare John Gardner, saying "I have inadvertently taken sides . . . I wish to retract that statement."

Later, following a reference to Texas Tech, he said, "I call it Texas Tech, you call it what you want to."

During the afternoon session, Jack K. Williams, Texas Commissioner on Higher Education and head of the Coordinating Board, Texas College and University System, also referred to "Texas Technological University."

"I'm not running for anything, so I won't take that statement back," he said.

fastest-growing federal department, in an interview prior to his speech at Monday's symposium, implied that this would be the only source of HEW-controlled federal funds available to ICASALS.

"HEW has no specific involvement in arid lands at this time," he said.

IN RESPONSE TO A question concerning limited enrollments for universities, Gardner said it "would depend on the organization of the institution." He used the California system of higher education as an example, where universities are "leveling off at 25,000 to 27,000."

"Smaller schools don't necessarily have an advantage over large universities," he said, using the University of California (27,000) and Harvard (13,000) as examples. They are considered the two top educational institutions in the United States.

"HEW's main interest concerning education is to help higher education meet the drastic rise in enrollment occurring throughout the nation," he said. "We have to confine our financial aid to specifics, such as buildings, research and training programs."

Gardner's speech stressed the international aspect of ICASALS, "the problems you will encounter if you work in one or another of the developing nations."

The first and most important step, he said, is to educate the people.

"A modern complex society runs on skills . . . you can't develop a modern technician (in a foreign nation) without a base of literacy.

"TO BUILD BASIC literacy on any solid basis you need a fully developed educational system," he said.

Gardner listed five functions of education which must be accomplished to develop a nation:

1. The achievement of basic literacy among the people to enable them to technically handle the problems of their country.
2. The implanting of useful skills, such as agriculture and construction, once basic literacy has been established.
3. Ensuring that community members have certain "shared values," or common goals so that they can func-

tion as a unit. An example would be allegiance to their country.

4. Providing an outlet for youths' energies, channeling them into something constructive rather than destructive.

5. Implanting certain attitudes and values, such as self-confidence, that are absolutely essential to an effectively functioning modern society.

Gardner said that in order to accomplish these functions of education, colleges and universities must provide students an education reflecting the changing world.

"IN SO DOING," he said, "they will be helping to meet our national commitment to make real the hopes for peace and prosperity among all the peoples of this troubled earth."

He also said institutions must make commitments "in order to do their job well." By this he meant long range goals.

According to Interior Secretary

Conservationists applaud Tech's eighth president

By MACK SISK
Managing Editor

"Everyone concerned with conservation applauds the choice of Dr. Grover Murray as president of Texas Tech," Secretary of the Interior Stewart L. Udall told approximately 2,000 persons Monday in Municipal Auditorium.

Udall's address kicked off the Symposium on Arid and Semi-Arid Lands which concludes today with the inauguration of Murray as eighth president of Texas Technological College.

THE ATHLETICALLY INCLINED Udall, making his second visit to the Tech campus, said, "I am glad to see the old gym is still here as a landmark." His first visit to Tech was 26 years ago as a basketball opponent of the Red Raiders from the University of Arizona in his home state.

The youthful Secretary who has climbed Mt. Fuji in Japan also complimented the choice of Tech's new mission—the ICASALS program. "This is a special province that has needed special interpretation and understand-

architecture, ecological development, plant research and many other programs.

ASKED ABOUT MONDAY'S Symposium as the first manifestation of ICASALS, Murray said he could foresee many more such gatherings, including a joint cooperation with representatives from Australia, possibly to be scheduled sometime this spring.

Murray said the idea for making Texas Tech the location of ICASALS came to him last spring following a request from the Coordinating Board, Texas College and University System, that each state-supported institute of higher learning attempt to set forth a special mission for itself.

"ICASALS IS THE role and scope of Texas Tech as asked for by the Coordinating Board," Murray said. "The location of the school, plus the fact that there is not at present a complete inventory of the work being done in this field makes it an ideal study for Tech to use as its special mission.

"Texas Tech has needed a new direction and this is it," Murray said. "With the success of this morning's session, I feel we are on our way in that new direction."

Murray says 'all systems go'

By BARBRA WORLEY
Editorial Assistant

Terminating Monday morning's session of the Symposium on Arid and Semi-Arid Lands a "launching pad" for Texas Tech's proposed International Center for such studies, Dr. Grover E. Murray said he feels "all systems are go for the program."

Murray said the next steps in the ICASALS program will be a gradual implementation of programs of study within the college in conjunction with the center and an indexing of research presently being done at other institutions.

HE DESCRIBED THE three-faceted program of ICASALS as the research on arid and semi-arid land itself, the establishment of a museum to interpret the studies and the creation of a library to become a "major information and knowledge center located on the campus of Texas Tech and tied in with other institutions and organizations of such studies.

He called the center a "university-wide program," and said its purposes included new concepts in soil management,

Forensic winners are announced at meet

Tech's seventh annual Fall Forensic Tournament closed Saturday afternoon with presentation of awards to winning teams and outstanding competitors.

The tournament drew 250 students from colleges and universities in Texas, Arizona, Colorado and New Mexico.

Among the students participating in the tournament were 40 Tech students from the English, government, pre-law and speech departments. Vernon R. McGuire, assistant professor of the speech department and Mrs. Vera Simpson, instructor of Tech's speech department acted as coaches for the entrants from Tech.

Winners and the various events were:

Extemporaneous speaking, first place, Carolyn Blythe, NTSU; second place, Jeff Bauer, Colorado College; third place, Penny Byrne, U.T. of El Paso; Persuasive speaking, first place, Gus Sandstrom, Southern Colorado State College; second place, Jim Campbell, Southern Colorado State College; third place, Garland Wiggins, East Texas State; sweepstakes, first place, SMU; second place, Baylor, third place, Odessa Junior College.

Oral Interpretation superior ratings were given to Mack Waldrip, McMurry; Linda Clubb, WTSU; John Hill, LCC; Doug White, ACC; Wyoming Lee, ACC; Leslie Owne, SMU; and Carri Sue Perry, Wayland College.

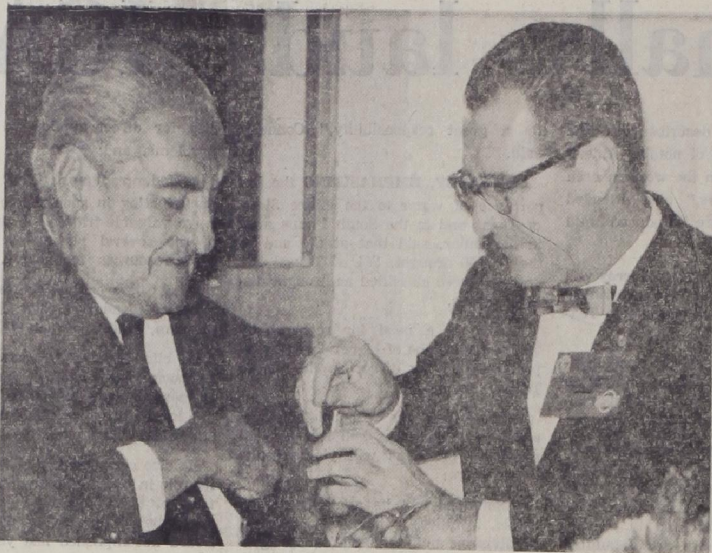
In the division of the debate the winners were:

SMU, first place; UT of El Paso, second place; and tied for third place were Baylor and UT of El Paso. In the senior division of the debate first place went to Baylor, second place to SMU and the University of Arizona and Odessa Jr. College tied for third place.

Mr. McGuire said that the tournament was a tremendous success and he said that Tech should host the SWC debate competition, for the first time in seven years, in Feb. 1967.

INAUGURATION ROBBING

Robbing for persons participating in the Inauguration procession will be at 8:30 a.m. in Municipal Coliseum.



DR. MURRAY ASSISTS EX-PRESIDENT—Dr. Grover E. Murray assists former President of Mexico Sr. Lic. Emilio Portes Gil with his name tag at Sunday night's dinner honoring visiting dignitaries in the West Hall cafeteria.

Portes Gil heads a delegation of top ranking Mexican officials here for the Symposium and inauguration.

Says Rockefeller consultant

'People need open spaces'

By PAULINE EDWARDS
Campus Editor

"We have fallen far behind in providing our people with the open spaces they need for recreation in leisure time—especially in large cities," Conrad L. Wirth, consultant for the Rockefeller Brothers Fund and Laurance S. Rockefeller, told visiting dignitaries Sunday night.

Wirth, who introduced the showing of "Murder of Silence" by the Texas Parks and Wildlife Department and "Preview of Texas State Parkway" by

Tech's department of park administration, horticulture and entomology emphasized the question is not "can we afford parks and recreational facilities," but "can we afford not to have them?"

"THE LACK of open spaces for recreational needs is having an adverse effect on social and cultural needs," he said, "and we cannot continue to do so." Wirth believes that if this continues, within the next few generations the nation will destroy its own culture and type of living.

In an interview later, Wirth said there should be a playground within a quarter of a mile of every child in every city. He estimated that in the slum areas of some of the larger cities, the crime rate could be reduced 75 per cent by providing adequate recreational facilities.

Wirth attributed much of the crime problem to youngsters and adults who, because they do not have adequate recreational facilities, can only find fun and excitement through breaking the law.

"THE PROBLEM is becoming more acute due to the increase in leisure time and a shorter work week," he said.

Wirth said the need for adequate parks and recreational facilities was already becoming a national problem equal to that of urban renewal. He described this increase in leisure time and lack of recreational opportunities as a type of creeping paralysis and said it should become the concern of every American.

"Unless we provide all people with good recreational conditions we will eventually destroy our economic structure."

"AMERICANS are presently spending too much money for guards (law enforcement officers) to protect us from our own misdoings," he said.

"This money could be more appropriately spent for recreational facilities."

Not only would increased recreational opportunities decrease the crime rate, in Wirth's opinion, but it would also greatly increase our efficiency. Wirth said that rather than worrying around about their problems, people could be rejuvenating and refreshing themselves through recreation so they could be ready to work again.

OF MORE CONCERN now than state or national parks are community and city parks.

"We need to put something close to home where the people can use it, where they can go any hour or day of the week."

"City and county parks provide opportunities for recreation and sports activities whereas national and state parks provide a more passive type of recreation, such as scenic beauty."

"The large cities will have to open up and provide space," he said in urging Lubbock and other cities to not get caught in the situation larger cities, such as New York, are already in.

HE ATTRIBUTED the intense interest in increasing the economy and making more money as a partial reason for the lack of recreational facilities.

Wirth commended the Lubbock park facilities, commenting that they presented a nice atmosphere and seemed to be in heavy use, "which is good."

Wirth described Tech's department of park administration as one of the best in the nation, noting that the department provides outstanding curriculum. "We need to educate good park administrators so park administration will be recognized as a profession," he said.

Leopold sees new problem in 'social factor of water'

By KATIE O'NEILL
Copy Editor

Dr. Luna B. Leopold, senior research hydrologist for the U. S. Geological Survey, added "the social problems of water" to the list of major water problems of the world Monday.

Speaking before an audience of 2,000 in Lubbock Municipal Auditorium, Dr. Leopold added the dimension of "human custom and point of view" to the consideration of water problems at the symposium, "Arid and Semi-Arid Lands—A Preview."

The symposium marks the birth of the International Center for Arid and Semi-Arid Lands Studies, which Leopold hopes will add through its studies to the store of information about the social problem of water.

He defined the problem as "the relationship of society to its water resources expressed through attitudes, procedures for economic evaluation, legislation, standards, and custom."

This view of the water problem is a new one, he said, and one that has not yet been fully recognized. He cited "the need for adjustment of the planning and engineering approach to new needs and new viewpoints."

OLD ASPECTS of the problem of "water crisis" are shortage of local supply, distribution problems, pollution, floods, chemical and sediment content of water, and variability of water in time.

All of these problems have hidden aspects of attitudes, habits, and outlooks, he said. Since these ways of thinking change, therefore, the methods of attacking the problem must change.

More and more views of the water problem are broadening, he said, naming the view of water as a "total ecological environment in microcosm," that is, a view of water with all the life it supports and contains.

Leopold stressed the necessity of an interdisciplinary approach to the problem "combining legal, economic, and biological as well as physical aspects of the water resource."

The chief result of this approach has been an emphasis on the cost-benefit approach to water planning, ignoring the political and administrative side of all decisions made in the field, he said.

"ATTITUDES concerning the value of esthetic qualities are largely unexplored," he said, mentioning also the pricing pattern of water as an ex-

ample of habit and attitude long shut off from change.

These neglected aspects of the water problem can be the concern of a newly organized group like ICASALS, he said.

"Innovation in planning analysis and evaluation procedures seems to me to be lagging behind the changing social climate within which water development takes place."

The products of indisdisciplinary research must result in concrete actions in specific cases, not in scientific papers, he said.

"Innovation of facing this social problem would take effective form principally through the medium of actual development plans or pilot projects on the ground."

"OWING TO THE FACT that society is demonstrably changing its attitudes, desires, and values toward the environment, the water scientist, the planner, and the developer might well be turning their attention to the social problem of water."

Leopold said in conclusion, "The needed research in the water field should not be considered to lie primarily in the realm of high-speed computers and sophisticated laboratories, but it must become involved with actual landscape, liquid water, and with people."

CHRISTMAS engagement?
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CAMPUS INTERVIEWS

NOVEMBER 2

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Gil speaks on Mexican lands

By CATHY CARTER
Copy Editor

Emilio Portes Gil, former President of Mexico, related "the fight for freedom and progress" with the problems of arid and semi-arid lands Monday in his speech on Mexico.

The hour-long speech, given in Spanish and then translated, was entitled, "Arid and Semi-arid Lands Zones in Mexico."

GIL BECAME involved in Tech's new program when he first heard of the new Tech president Grover E. Murray's interest in semi-arid lands. "We are," said Gil, "to solve the same problem, doing away with poverty and illiteracy."

Gil indicated that some 52-1% (1,025,000 square kilometers) of Mexican territory is comprised of zones of dry climate with an annual rainfall of approximately less than 800 millimeters.

The cultivation of fibres and "Candelilla," a type of desert plant, are the only ones carried out in these zones, and that cultivation is decreasing in volume each day because of the great variety of synthetics which are being manufactured and are replacing these products.

ONE OF the principal obstacles encountered by the Mexican government in attempting to solve the variety of problems of the arid zones is the wide dispersion of these zones. Population centers are far from one another. Those who live in these zones, and whose labors are dedicated to the gathering and extraction of "Candelilla" wax must range far from their homes looking for fields so their monthly quotas can be met. Sometimes they must leave their homes and find another communal farm where they can work in order to gather enough "Candelilla."

But the government, said Gil, with the goal of raising the standard of living of the agricultural workers, is trying, as the resources of the zone permits, to diversify production, thus avoiding dependence on an industry now in decay.

IN ORDER to alleviate the situation of extreme poverty suffered by the rural population, whose only source of income is the exploitation of various desert plants, the Department of Agriculture and Livestock is attempting to use the natural resource available.

The principal problems, said Gil, which confront the farmer in these semi-arid zones are: the uncertain market for "Candelilla" wax; the difficulties of collecting the wax; and its scarcity.

THE CRITICAL situation now existing in these states where "Candelilla" wax is principally produced has "given birth" to a new program based on the following objectives: preservation and proper use of natural re-

sources; creation of other work sources with the purpose of decreasing "Candelilla" wax production; diversification of agriculture and livestock as well as exploitation of forest areas; to give the rural population a more active social, cultural, and economic life; to raise the standard of living of these communities through practical education in the various fields that concern them; and by the industrialization of agriculture.

The farmers benefited in this 1966 program by receiving 10,000 four-week-old chicks delivered at the rate of 2,000 per week. Nineteen broods of rabbits were distributed as were 40 broods of hogs. They were sold at the rate of 50% of their true cost. The farmers also received the necessary training for construction of pig-sties, chicken yards, rabbit hutches and goat breeding installations.

Data is being gathered on useful species of animals and on varieties of cactus which are used for nutritional value for human beings.

THE COMMUNAL land livestock question is important, even though it does not seem so at first glance, said Gil. "There is some preference for sheep herds in the communally owned land. This type of livestock is quite suited to their needs because it is particularly adapted to lands of a semi-arid nature," said Gil.

The importance of the livestock and poultry industry is emphasized in that more than 60% of the total population of the country is dedicated to these activities or depends directly upon them. As the largest part of the country is formed of land located on hills and dry plateaus or plains, they must be used for proper livestock exploitation.

Besides the described arid zones, there are two large deserts in which the rates of annual precipitation are decreasing. The temperature goes up to 45 degrees centigrade or more and the rainfall per year amounts to only 100-150 millimetres. "However," said Gil, "deserts can become, in the near future, completely habitable and useful."

WHEN GIL visited the Sahara Desert in Egypt, he saw enormous cultivated fields covered mainly with fruit trees. President Nasser's government has used giant machinery in order to remove sand in the areas of least thickness, of course, leaving on the surface thick black soil.

I.E.E.E.

Dr. Patrick Odell, head of the math department, will discuss "Kalman Filters from the Mathematicians Viewpoint" Thursday at 7 p.m.

He will speak on the recent developments in electrical engineering in the Architecture Auditorium.

The I.E.E.E. invites all interested Techsians to attend the talk.



LUNCHEON GUESTS-- Among the guests at Monday's Symposium luncheon in the Municipal Auditorium were (left to right) Dr. Edward Teller, "father of the H-bomb," Dr. Grover E. Murray, Sr. Lic. Emilio Portes Gil, former president of Mexico, and Texas Gov. John Connally. (Staff photo)

Pecora discusses progress of man

By GLENN HONEA
Copy Editor

Dr. William T. Pecora, director of the United States Geological Survey, told an audience of 2,500 in Municipal Auditorium Monday afternoon that man's future lies largely in the hands of men whose feet and minds are firmly on the ground.

The distinguished geoscientist made the remarks in a day-long Symposium on Arid and Semi-Arid Lands designed to keynote Texas Tech's special mission as the International Center on Arid and Semi-Arid Land Studies (ICASALS).

DR. PECORA SAID, "it is my belief that geologic science

is now the crucial science that will insure the continued progress of our civilization."

He estimated that the future of man's life depends on two basic ingredients—raw materials and energy. "And it is geoscience which will provide for the resources and energy required to keep our civilization

viable in future years," he said.

In informal remarks before his speech, he underscored the special role of college and university campuses like Tech's in furthering vital research.

"OUR LIFE BLOOD comes from the campus," he said. "We look to institutions like this one to develop the needed talent transmitted through individuals working under masters and doctoral programs."

"Right now," he conceded, "we need twice as many geologists as we have just to do the things we see now to do." "Lubbock is an excellent place for this area of study," he said. "You have these problems all around you. You have lived with the problems historically."

"ALL THIS IS POSSIBLE," he said later in his speech, "because we have reached downward into the third dimension to capture its underground sources of wealth that

OPTIMATES CLUB

The Optimates, Greek and Latin Club, will have a Classical Caucus Thursday from 12:00 to 1:00 p.m. in the Blue Room, Tech Union. A panel will discuss cultural intermixtures. Speakers will include: Dr. Mitchell Smith, history department, speaking on the Middle East and Africa; Dr. Evelyn Montgomery, anthropology department, speaking on cultural diffusion; and Dr. Thomas Earl Hamilton, Spanish department, speaking on linguistic aspects. Discussion will follow, and sandwiches and coffee will be available.

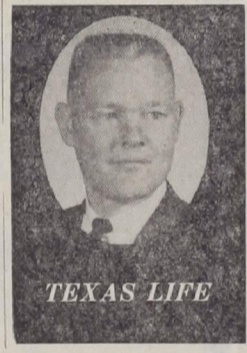
Greeks to aid drive

Tech sororities and fraternities will participate in the last United Fund drive of the year tonight at 6:30.

The Women's Residential Drive, under the chairmanship of Mrs. Russell Bean, has a goal of \$11,000.

Tonight sorority members will meet at Redeemer Lutheran Church, and fraternity members will be given lists at Shepherd King Lutheran Church. Students will be given lists of persons to be contacted for donations.

"All of Lubbock appreciates the spirit and dedication given by Tech fraternities and sororities in helping promote Lubbock's number one job," Bob Rummel, assistant executive director of United Fund, said.



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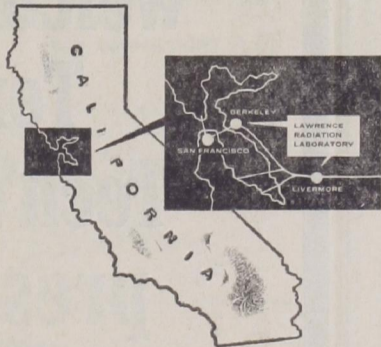
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Laboratory staff members will be on campus to interview students in the Sciences and Engineering MONDAY, NOVEMBER 7

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Robby's

Robertson Hall will accommodate 1,088

A Monday ground-breaking ceremony marked the beginning of construction on Robertson Hall (Robby's), a new off-campus dormitory which will house 1,088 Texas Tech students.

The dormitory will be located on College Avenue between 10th and Main streets. The modernistic structure will consist of three 7-story wings, all interconnected to share common dining, recreation and study areas. Modern, heated swimming pools will be located in enclosed courts.

Students will live two-to-a-room with connecting baths, forming four-student suites. All rooms are equipped for private phone service. The sleeping area, as well as the hallway, has wall-to-wall carpeting for maximum noise control. The year-round air conditioning and heating has temperature and fan controls in each room for individual student adjustment. Enclosed parking will be provided for 560 cars.

will be Mr. W. E. (Billy) Robertson, a Fort Worth alumnus of Tech class of 1938, and Frenchman's Creek Corp. of Dallas.

The cost of the project including improvements, furnishings and equipment, and land costs will be in excess of \$6,000.

The general contractor for the project is Lawless and Alford, Inc. of Austin. Commercial space may be allocated for private ownership later on. The contractor hopes to provide partial completion for the fall semester of 1967 with full completion for the spring semester of 1968.

Noon Forum

Ronald Schulz, director of the University Theatre, will speak at the Noon Forum Wednesday.

Persons wishing to eat the buffet lunch must make reservations in the Program Office by 5 p.m. today.

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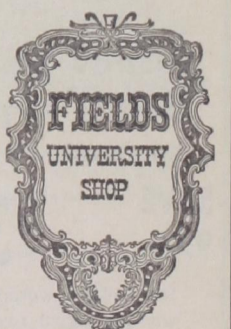
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Representative
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November 9
for Interview
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Editorial Page

University on the move

Welcome, distinguished visitors, to the Texas Tech campus.

Ours is a young institution, only 42 years old. It is also a growing institution of nearly 18,000 students, wrestling with the problems of this growth.

It is an institution seeking ways to extend its boundaries beyond West Texas and the Southwest and to achieve national and international recognition, and at the same time to help improve the human environment. The International Center for Arid and Semi-Arid Land Studies was inaugurated Monday to help accomplish this.

It is seeking ways to attract outstanding faculty members and to expand its curriculum in order to improve its academic environment.

It is seeking ways to become a center for graduate and faculty research through both federal and private grants and contracts.

It is seeking ways to secure funds for expansion of its physical facilities, in order to continue the present program as evidenced by the academic and dormitory construction currently in progress and the more than 10 other campus buildings now in various stages of planning.

It is seeking ways to meet the demands of projected enrollments of 24,853 by 1968, 30,419 by 1971 and 40,967 by 1978—an anticipated 128 per cent increase in the next 12 years.

It is seeking ways to improve the educational process and to cope with the problems of "mass education" and maintaining students' individuality.

Summarily, it is seeking ways, in the words of President Murray, to accumulate and disseminate knowledge and to fulfill its role among the United States' institutions of higher learning.

Ours is a university on the move.

Price battle could be misguided

Gov. John Connally's request of Texas' major universities to find the reason for rising food prices in Texas shows the pressure put to bear on everyone from the groceryman to the governor by irate housewives.

But we wonder if these boycotting, picketing housewives are not, at least to a large extent, barking up the wrong tree. Surely they have noticed other rising prices—gasoline, clothing, restaurant menus, cosmetics, cars, even a car wash.

Is it not logical that food prices should rise along with other prices? Possibly they have aroused public opinion only because food is purchased much more frequently.

Food prices are out of line

only if they are rising faster than other prices. If the study reveals this to be a fact, then the proper culprit—be he producer, processor, wholesaler or retailer—should be taken to task.

But to a large extent, we feel food prices are rising because the price of related items—labor, raw materials, machinery—are rising also. If food costs more to produce, then it's going to cost the consumer more.

Boycotting housewives could well be battling the results, not the cause, of their troubles. Higher food prices are largely a result of inflation.

And the only way to battle inflation is to take it up with the federal government.



Dear Editor:

Homecoming


(The following letter was received last week but was not printed due to lack of space.)

The 1966 Homecoming is now history. It was one of the biggest and best in Tech's history. This was possible through the tireless efforts of numerous individuals and organizations. The officers and staff of the Ex-Students Association finds itself deeply indebted to all those that had a part in this year's Homecoming.

ONLY A FEW people probably realize the months of planning and work that go into a successful homecoming. Chairman Eugene Lake and each member of his committee did an outstanding job. It was a pleasure to have worked with them and in my opinion they are the "unknown" heroes of this year's homecoming.

Due to the size of the office staff and the Homecoming Committee, each year we must ask the help of some of the campus service organizations. I wish to express our gratitude and appreciation for their outstanding contributions to the Homecoming activities.

(Continued on Page 9)

david snyder

A.M.E.N.
 (all miscellaneous editor's notes)

IT STARTED OUT as a small ceremony, this presidential inauguration business, probably not to be held until next year. But then someone decided it could be tied in with a symposium inauguration of the International Center for Arid and Semi-Arid Land Studies, and people began to get enthusiastic about the possibilities of a grandiose combination of the two.

Plans and preparations for the event began snowballing, and the date seemed to be arriving faster than had been anticipated. But somehow, everything was done on time. The result was Monday's symposium and today's inauguration—possibly the greatest assemblage of VIPs ever to attend a university inauguration in the Southwest.

It was intended to be that way. The scope and magnitude of planning that went into these two days' events is almost unbelievable.

IT WAS ONLY last August when Elo Urbanovsky, head of the department of park administration, horticulture and entomology who had been appointed to work on the inauguration, hit upon the idea of combining the two events. Shortly thereafter he became ill, and the chairmanship for preparations was handed to Dean of Agriculture Gerald W. Thomas. Mr. Urbanovsky served as vice chairman.

"We had excellent cooperation. I have never seen a harder working group of people, and it's a good thing," Dean Thomas related Sunday between last-minute preparations.

Possibly he was speaking of the tremendous amount of overtime devoted to the planning, or maybe the enthusiasm that enabled these people to do the outstanding jobs which they did.

But he was obviously proud of their final product and the surprising lack of confusion which is unusual for such a large set of events, and rightly so.

HUNDREDS OF DETAILS had to be worked out. For instance, the proper diplomatic protocol had to be established. In what order should the honorary degrees be awarded? Should the Mexican national anthem be played before the United States national anthem?

It was learned through the U.S. State Department that the degrees should be awarded according to the age of the department the honoree is representing, and that the Mexican anthem should be played first. The list of such traditions and customs could go on and on.

More than 2,000 invitations had to be mailed. Motel reservations had to be made. Faculty escorts had to be arranged. Menus had to be planned. Programs printed. Speakers invited. Transportation arranged. Ushers secured. Robes ordered. Entertainment scheduled. Press releases prepared. And many more.

THE INAUGURATION-SYMPIOSUM undoubtedly caused many headaches, much lost sleep and possibly an ulcer or two among the huge force responsible for the two events. But they feel it was worth it and indeed it was . . . in terms of good will and publicity for Texas Tech and increased stature for the university.

THE UNIVERSITY DAILY

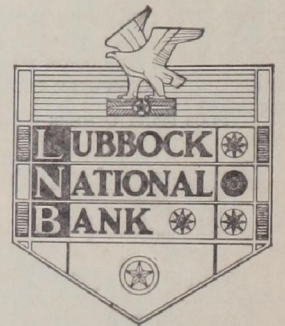
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THE UNIVERSITY DAILY is a member of The Associated Press, which retains the right to use any material therein.

The Lubbock National Bank extends a most hearty and sincere welcome to Texas Tech's new president, Dr. Grover E. Murray, and his staff.



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Dr. Ripley says

Tech's new museum center of ICASALS

By JIM JONES
Assistant Managing Editor

Dr. S. Dillon Ripley, secretary of the Smithsonian Institution, said Monday that "the museum being planned at Tech as a part of the developing International Center for Arid and Semi-Arid Land studies can serve both as a trademark and a showcase for the program."

Speaking at the Symposium on Arid and Semi-Arid Lands, Dr. Ripley said, "Man is faced more than ever before with the challenge of adapting human societies to arid environments."

INTERNATIONAL PROGRAMS designed to meet this challenge, such as Tech President Grover E. Murray is planning, are urgently needed," Dr. Ripley said. "The UNESCO arid-zone program that flourished between 1957 and 1962 by providing research support at

certain institutions is now fading away.

"Therefore, it is timely," Dr. Ripley said, "for institutions like Texas Technological College to take leadership in both pure and applied research and education concerned with arid lands."

DR. RIPLEY SAID the Smithsonian Institution is "very much interested in contributing to the development of museums, both at home and abroad, utilizing what limited resources we have available through the new National Museum Act.

"Although our financial resources are small, we hope to make significant contributions in helping to initiate the museum program," Dr. Ripley said.

He said solutions to arid-land programs do not lie simply in ever-increasing irrigation. "It has been well documented by archeologists that the giant irrigation schemes

of the ancient past lasted only for a century or two."

Dr. Ripley added, "One of the dangers today lies in our failure to recognize that most desert systems are not isolated and self contained and we cannot change their landscapes by irrigation without influencing other and remote nonarid ecosystems."

"BY DRAWING WATER from the Columbia River in the Pacific Northwest to irrigate the deserts of Southern California and Arizona, we may degrade or destroy present or future ecosystems in British Columbia, Washington, Idaho and Oregon."

Dr. Ripley explained that the rapid degradation of natural arid-zone vegetation throughout the world can be attributed to a combination of exploding humans, modern veterinary medicine, boreholes for distributing water and supplementary feeding of livestock.

"ALTHOUGH WE ARE certain of this overall trend, we would do well to assess the rates and magnitude of desert expansion on a worldwide basis and to develop a major research effort in arid lands."

Dr. Ripley said, "perhaps what we need now more than anything else is university leadership in developing effective systems which will involve some hard commitments and meet the challenging problems of these areas."

JUNIOR COUNCIL

The Junior Council will meet at 5 p.m. Thursday in room 209 in the Tech Union.

Buy
Tech Ads



TEXAS TECH HOME OF ICASALS -- Texas Tech, which recently became the home of the International Center for Arid and Semi-Arid Lands Studies, is geographically and strategically suited for such a mission as this

map shows. Tech, located in the heart of a semi-arid region, also is in close proximity to the great western desert of the United States and Mexico.

Raider roundup

PHI UPSILON OMICRON
Phi Upsilon Omicron, home economics honorary, will meet today at 6:30 p.m. in Room 164 of the Home Economics Bldg.

TECH SPELEOLOGICAL SOCIETY

Texas Tech Speleological Society will meet today at 7 p.m. in the Science Bldg., room 44. Results of the officers' meeting will be presented along with the semester's outline of activities and programs.

LUBBOCK SKI CLUB

The Lubbock Ski Club will meet at 7:30 today at the Lubbock Country Club. The program includes a style show of White Stag ski clothes, reports from area operators on New Mexico ski areas, and a Warner Miller ski film. The meeting will be open to prospective members.

INTERNATIONAL FOLK DANCING CLASSES

Hodges Community Center is offering classes in international folk dancing Mondays, from 8-10 p.m. There is no charge for the course.

AMERICAN SOCIETY OF RANGE MANAGEMENT

Texas Tech Chapter of the American Society of Range Management will meet Tuesday at 7:30 p.m. in the Plant Science Building in room 108. Chapter members will speak on summer jobs in the field of range management.

TECH ACCOUNTING SOCIETY

Mr. Carroll W. Phillips, a partner of Lybrand, Ross Bros. & Montgomery, will speak to the Tech Accounting Society at 8:00 p.m. Nov. 3 in room 207 of the Student Union. Mr. Phillips is also director of the Dallas chapter of CPA's.

ALPHA LAMBDA DELTA

Any sophomore girl who is eligible for initiation into Alpha Lambda Delta should go by the Dean of Women's Office as soon as possible. Requirements are a 3.4 overall grade point average with less than 30 hours.

In last lecture Emphasis is on motivation

Dr. Vernon W. Proctor, emphasized "motivation" in teaching when he gave his "last lecture" Sunday in the Tech Union.

The "last lectures" are mock lectures given by Tech professors on subjects they would choose if they were giving their last classroom talk.

"Motivation is the most important aspect of learning," Proctor said. The three main objectives of the classroom lecture, he said, are to entertain, to inform, and to create an interest in the subject. These objectives are the goals of the professor but they are not always accomplished.

In order for the professor to accomplish these goals, students must have the desire and the will to learn, he said. At Tech approximately 3,000 students enroll in biology as their lab science and only three per cent of these students go on to continue biology as their major, Proctor said.

The reason for the decline

in the interest in biology, he said, is because students fail to associate the facts learned in biology with the world around them.

"Teaching machines" have been brought in as a new means of lecturing to the student. These machines have brought a new concept to teaching but they can not provide the stimulus to make the student become interested in the course Proctor said.

These "teaching machines" would eliminate the classroom lecture and would forego the chance for any class discussion, he said.

"The disadvantages of a large lecture class are overrated," he said, because invariably the same students ask questions in a large lecture and would do the same if given a chance in a small lecture.

People are exposed to what Proctor called an "information explosion" in which material on a wide variety of subjects is readily available.

The main problem with the "information explosion" is the lack of time to sort out the jumble of information to make it interesting to the reader.

The proceeds collected from the sale will be used by Alpha Phi Omega for its service projects.

Dad's Day activities planned for fathers

Dad's Day, Nov. 5, will honor fathers of all Tech students.

Dad's Day is co-sponsored by the Association of Women Students and the Tech Dad's Association.

The schedule of activities: Coffee and registration, Union Coronado Room, 9:30-11:30 a.m.; business meeting, Union ballroom, 11:30 a.m.-12:15 p.m.; Dad's luncheon, ballroom, 12:15 p.m.; family barbecue, Municipal Coliseum, 5:30 p.m.; and Tech vs. Okla.

State football game, Jones Stadium, 7:30 p.m.

Awards will be presented at the pre-game ceremonies for dad from the farthest place, youngest dad, and oldest dad.

New members of the Tech Athletic Hall of Fame will be announced during the day.

Hart Shoemaker of Abilene is Dad's Association president, Janie Moser, Dad's Day chairman, and Marilyn Loveless, publicity chairman.

All fathers of Tech students are invited to attend.

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DEAR REB:

Even When She Answers, He Still Gets the Busy Signal.



DEAR REB:

Lately, every time I call my girl, she's either "not in" or "not interested." Last week I called her 23 times and couldn't even make a coffee date. The trouble started when she started dating a guy who owns a Dodge Coronet. Now she goes to parties with him, dances, football games, etc. Do you think I should call her again, or should I forget her and break her heart?

BAD CONNECTIONS

DEAR BAD CONNECTIONS:

I think your next call should be to your Dodge Dealer. Then make a date to see the '67 Coronet, the car that's breaking hearts all over America. You'll find that its good looks are pretty hard to resist. Now, before you break your girl's heart, give her another break. Ask her to go for a ride in your new Coronet. I think she'll get the signal.

Sincerely,
Reb



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Homecoming work lauded

Continued from Page 8)

I KNOW THAT every student who has ever worked on a float or dorm decoration, appreciated the efforts of all the students in charge of construction or working on a float or dorm. (Work on a float means time away from studies and sleepless nights. It also means good time, good fellowship, and the idea of doing something for the college and the returning exes.)

To those organizations that participated in the parade, and

the dorm decorations, we say a big "thank you" and only wish that all of you could have been winners.

THERE ARE many others to whom credit is due that we will be unable to thank individually. However, our failure to express our thanks to them is in strict oversight and not because their contributions to homecoming were not appreciated.

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Tech schools plan programs for ICASALS

★ ★ ★ BA to contribute definite influence

"The School of Business Administration should make definite contributions in the newly-designated program of ICASALS," says Dr. George Heather, dean of the School.

Although business administration is not directly related to the International Center for Arid and Semi-Arid Lands program, Dr. Heather said he anticipates considerable contributions to the project as it continues to expand.

EACH OF THE six departments in the School of Business Administration has outlined goals which it plans to carry out in connection with the new program.

The department of economics, headed by Dr. Robert L. Rouse, will play a significant part in the program specializing in arid and semi-arid lands. "The subject matter of economics," Rouse said, "includes the method mankind has and is devising to allocate limited resources to meet his needs and wants where arid and semi-arid conditions are present."

ROUSE HAS outlined three general areas of emphasis in this department in connection with ICASALS. The first is the identification, location, and compilation of materials in this field. The desirability of economic feasibility studies and economic development in arid and semi-arid climates will be stressed in the other areas of study.

In the department of business education, contributions of manpower and knowledge in arid and semi-arid areas will add to the ICASALS program, according to department head William R. Pasework.

THE BUSINESS education department has already established a first-hand contact in a country with an arid climate through its help in founding a school of business administration in Jordan. Another contribution will be personal contact with an A.I.D. official who has responsibility in an arid region in the world. The establishment of a "laboratory" Research Center in the new B.A. Building will further this department's contribution.

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Home Economics departments will view life in arid countries

Living in Lubbock, located in a semi-arid region, has its advantages, such as the mild climate and low humidity. But living in Lubbock also has its disadvantages, such as sandstorms and conditions unfavorable for allergies. This will be but one area of study by the School of Home Economics in connection with the International Center for Arid and Semi-Arid Lands program.

THE EFFECT of arid weather conditions upon all behavior will be studied by the child development department. For example, the study will include the effect of sandstorms on child and parent behavior. Respiratory, dermatological and allergy conditions will receive special attention.

Each separate department of the Home Economics School has definite ideas and goals under the new program. Extensive research plans have been devised.

A study of the creativity of the peoples of arid and semi-arid climates is being considered by the applied arts department. The study of the arts and crafts with emphasis on folk or native arts and crafts in these areas is another possibility.

RESEARCH on the use of local materials in crafts could be done, with the hope of introducing them in low income groups to raise incomes.

The department of clothing and textiles is interested in exploring new uses of fibers produced in arid and semi-arid

areas. There are three natural fibers produced in these areas: cotton, wool, and mohair. Blends of these fibers can be used for wearing apparel and home furnishings.

Three other areas of study open to the department are: development of a wardrobe, socio-psychological aspects of dress, and environmental factors in the deterioration of textiles which are used in arid and semi-arid areas.

"**MAN CAN** survive in almost any environment by taking advantage of its special products," according to one person in the school. The food and nutrition department lists many unique products of arid and semi-arid lands, including cacti, wild plants, lizards, snakes and insects. They will study the foods available, the foods consumed and their effect on nutrition.

An entire area of study is open in housing materials, climatic conditions, and landscaping for arid and semi-arid lands.

The home economics education department will have the responsibility of preparing instructors for arid and semi-arid lands. These people will be acquainted with all phases of the study. They will learn the conditions of the areas in order to determine what and how to teach so that nutrition, shelter and clothing may be effectively taught in each country.

★ ★ ★ Ag School study set in three areas

Tech's location in a vast semi-arid region is one of the major assets that the School of Agriculture has to offer the International Center for Arid and Semi-Arid Land Studies.

The school will make three major contributions to ICASALS: resident institution with emphasis on world-wide agriculture, people and resources; fundamental and applied research directed toward the solution of the problems on arid and semi-arid land; and conferences, institutes and short courses emphasizing the improvement of water deficient areas.

The major contributions the school can make include the following:

- Tech is located in an area that has capitalized on the advantages of climate, soil, vegetation, and people by producing more agricultural income than 45 out of the 50 states. This area's problems are similar to those in other water deficient zones.
- There is a challenge for teaching and research in park management, agriculture economics, agriculture engineering, soils and crops, range and wildlife ecology—all departments within the School of Agriculture which will have areas to study in ICASALS.
- Tech has contacts with other arid countries such as Africa, Eastern Europe, Asia, Central and South America. The staff here has the capabilities for training American and foreign students to work in arid zones.
- More than 95 per cent of the school's current research projects are working with the solution of problems on arid and semi-arid lands.
- The school's faculty is interested in arid zones.
- The School of Agriculture can profit from the strengths of the other segments of the university in a complete study.
- The School of Agriculture is ninth in the nation in enrollment in the United States and has several departments in the top five in total enrollment.
- The special conferences

and workshops held annually could be expanded to focus attention on improvements and management of arid and semi-arid lands.

- Some of the conferences and workshops are the Agriculture Chemicals conference, the West Texas Water Institute, the Southwest Park and Recreational Institute, the Grain Drying and Storage Institute, the Entomology Workshops, the Livestock Feeders conferences, the Range Management conferences and the Food Technology Institutes.
- Tech is now involved in more than 130 active research projects or preliminary investigations through seven departments and the 14,000-acre research farm near Amarillo.

The three objectives of the research are:

1. To strengthen the teaching mission of the university at the graduate level and to benefit advanced undergraduates.
2. To provide an opportunity and stimulus for faculty to keep current in their respective scientific fields.
3. To help solve problems facing the agricultural industry.

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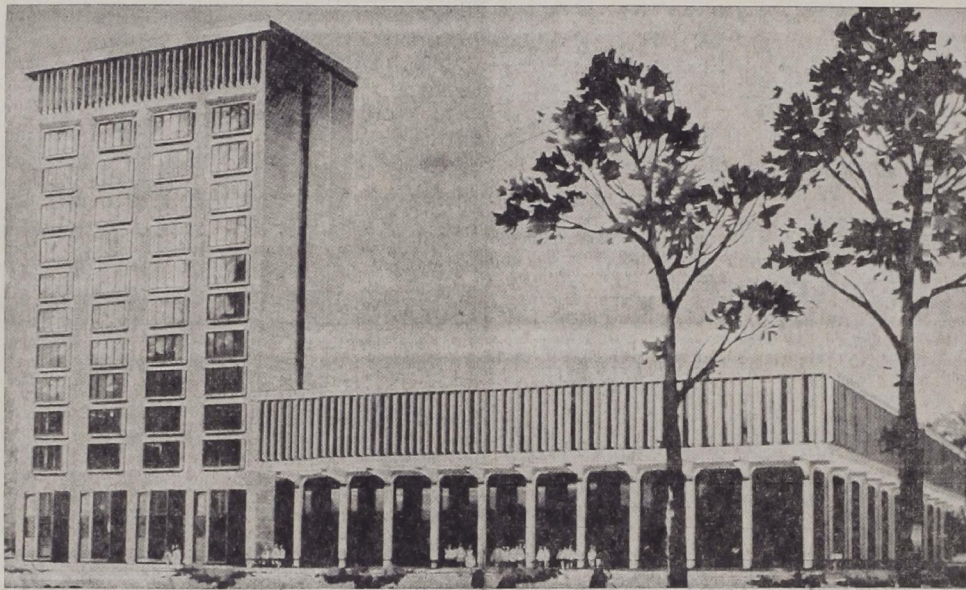
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MATH TUTOR: Certified experienced teacher. Full time tutoring by appointment. 2627 20th, SH 7-4924.

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HIGH-RISE ADDITION—Pictured above is an artist's conception of the recently approved Business Administration Building to be built on the southeast corner of Flint Avenue and 15th Street. The 12-story building, costing approximately \$4.5 million, will be the tallest academic building on the campus when completed and ready for occupancy by the fall of 1968. The 12-story tower will house 168 offices, and classrooms and will be located in the adjacent structure. Construction is slated to begin soon after the Board of Directors awards the contract at their Dec. 3 meeting.

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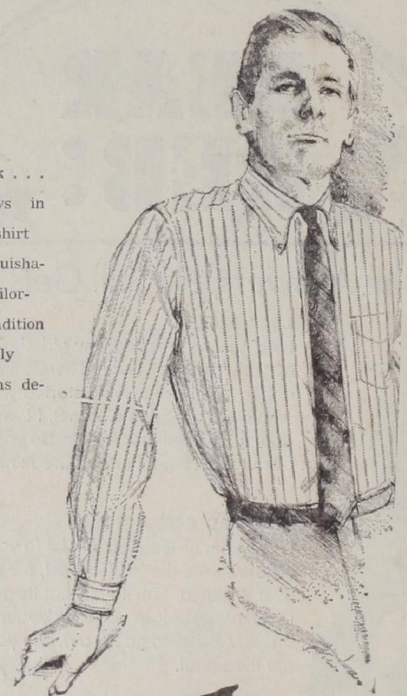
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A&S participation outlined

Even fine arts tied to ICASALS

Almost every department in the Tech School of Arts and Sciences will play some role in the International Center for Arid and Semi-Arid Land Studies.

The School of Arts and Sciences, with departments ranging from foreign languages to physics, will participate in the program in four major areas:

1. Biological and earth sciences
2. Physical sciences
3. Social sciences
4. Humanities and fine arts.

THE DEPARTMENT of geology, included in the biological and earth sciences group, foresees possibilities of studies on hydrology as related to arid and semi-arid lands' playa lakes and underground water supplies.

Climatology, meteorology and physical and cultural geography are all in the development stages for possible research.

Within the physical sciences, the department of chemistry will play a major role in the study of water, including the quality and improvement of existing supplies.

Physics along with geophysics and some aspects of engineering have plans for research in hydrology although

no specific projects have been outlined as yet.

IN THE BIOLOGY department, present studies of the peculiar traits of desert land and animals will be continued. Dr. Earl D. Camp, head of the biology department.

The social sciences will be contributing to the program by examining man's cultural, sociological, political and economic adaptations in an arid or semi-arid region.

"Arid and semi-arid land involves not only the physical aspects, but political, economic, and international ones also," said Dr. S. M. Kennedy, dean of the School of Arts and Sciences. He gave the Soviet Union's grain shortage in recent years as an example.

"**THE FINE ARTS** and humanities won't be left out of this program. The literature and music of an area with marginal rainfall is quite different from that with sufficient precipitation," Kennedy said.

"Particularly in the West where there is a great amount of desert land has folklore been directed to the search of water or the lack of it. Even the song, 'Cool water,' points out this fact."

ARCHEOLOGICAL studies also will be of great significance in the program. Since preservation is most successful in dry areas, many artifacts and records of man have been found in arid and semi-arid regions.

"The greatest significance of the program," said Kennedy, "is that it is not merely local but worldwide. Water and dry land affects everyone."

Arid, semi-arid studies fulfill 'unique mission'

MONDAY'S SYMPOSIUM, "Arid and Semi-Arid Lands—A Preview," was the formal inauguration of Texas Tech's new International Center for Arid and Semi-Arid Land Studies. But what exactly is ICASALS, and what does it hope to accomplish?

Earlier this year, the Coordinating Board, Texas College and University System, challenged Texas institutions of higher learning to develop a "unique educational mission" which would bring distinction to the school and to the state.

ICASALS WAS TECH President Grover E. Murray's answer to the request, making Tech the first school to reply.

"With proper planning, coordination and financial support, this proposal will insure Tech's development as an international center of, and for students interested in, the various aspects of the arid and semi-arid regions throughout the world," Dr. Murray said at the time ICASALS was proposed.

All phases of Tech's curriculum will be expected to participate in the new program, Dr. Murray said.

UNTIL THE BOARD of directors action on June 18, which ratified the thinking of President Murray in crystallizing and defining ICASALS, no worldwide center for recording, classifying, distributing and studying information on aridity and semi-aridity existed.

Dr. Murray, in outlining the concept, called ICASALS "a logical and natural mission" for Tech. The challenge was inherent in the fact that half the world's land surface is either arid or semi-arid.

Tech, located in a semi-arid region near some of the world's great deserts, has faced up to this problem throughout its 41 years of existence through various research programs.

Although ICASALS still is in the formative stages, its scope and future are on a grand scale—as broad as human knowledge and as deep as the needs of mankind.

THE CENTER IS envisioned as the vehicle to channel development of additional knowledge of arid and semi-arid environments which are incapable of supporting abundant life except through the exercise of the utmost in knowledge and ingenuity.

As conceived, ICASALS will involve disciplines ranging from archeology to zoology, and provide for collection and dissemination of information on aridity and semi-aridity throughout the world by scholars, universities, industries and nations.

The Center will include a museum to portray history and the present, and a world bank of information and a dissemination center for such information. The Center also will provide the impetus and framework for international symposia on arid and semi-arid studies.

King praises Raiders for defensive effort

By **GEORGE CHAFFEE**
Sports Editor

Coach J T King told a sparse gathering at the Red Raider Club Monday that defense paved the way for the Raider's first Southwest Conference victory of the season.

"I know a lot has been said about our defense," King said, and probably some of it has been right. However, two weeks ago we decided that we would no longer try to defense every-

"WE STARTED a defense which let the opponent get yardage on certain plays and then cut them off on others. It worked pretty well against SMU and worked to perfection against Rice."

King pointed out several areas where the defense was the key factor in the Red Raider victory.

"GENTLEMEN, there were 14 times when we threw them (Rice) for a substantial loss, four times when we created fumbles, two interceptions, and four times when we stopped them on third down plays," King said.

"However, the real difference was in the 21 'big plays' by the defensive team. This won the game for us," he said.

KING TOLD how the Tech defense was prepared for Robby Shelton, Rice's sophomore quarterback sensation.

"We went down there with the purpose of stopping Shelton's running game so that he would be forced to pass," King said.

"SHELTON IS A THREAT not because he runs over you, but because he will run around you. The two times we knew he might try this was on option plays and the times he drops back to pass."

King said the Raiders all had a great deal of respect for Shelton and he had personally lost a lot of sleep worrying about how to stop him.

King was also confronted with another problem, and that involved the kicking game.

"RICE HAS ALWAYS had tremendous luck with their kickoff and punt returns so we had to adjust our kicking game so that we wouldn't give them the chance to run one back on us," he said.

On kickoffs Kenny Vinyard

simply kicked the ball on the ground and the strategy worked. On punts Vinyard was instructed to hang the ball in the air long enough for "the entire student body to get around the safety man" and Vinyard responded well.

Thanks to Vinyard's punts and Phil Tucker and Ronnie Pack's coverage, Chuck Latourette was smeared each time he touched the ball for a punt return.

"I THINK OUR punt coverage was the best we've had this year," King said, "and we weren't about to kick off to them even when we had scored 35 points."

King had praise for the offensive team and pointed out the value of good blocking.

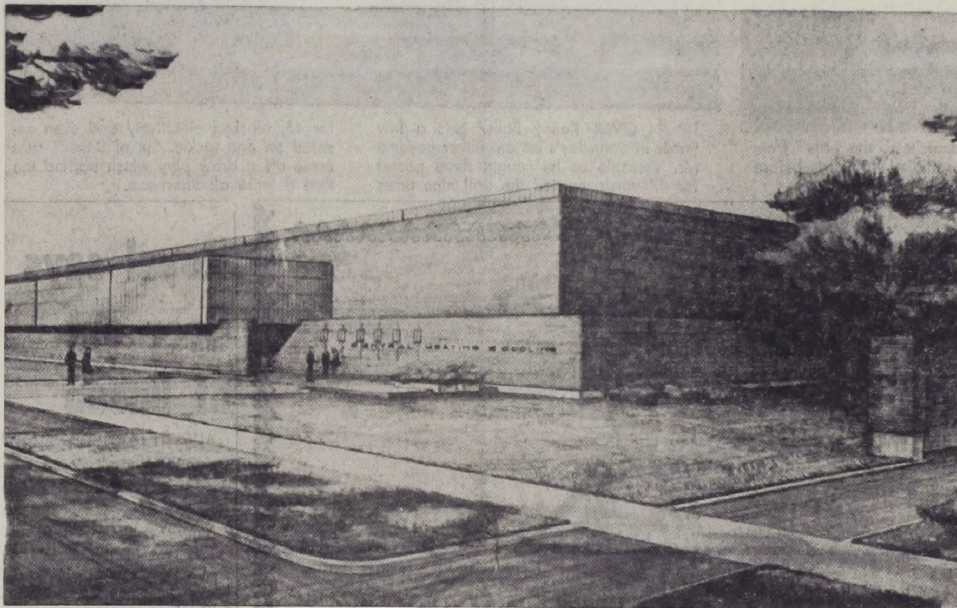
"OUR BLOCKING is what really paved the way for the offense. Our boys found that they could roll up their sleeves and get the short yardage when they needed it," King said.

More sports, page 12

King was especially tickled about a pass play that wasn't in the books which Larry Gilbert pulled off over the Owls.

GILBERT WAS SUPPOSED to be a decoy in a play in which Scovell attempted a pass to Roger Freeman. The pass was deflected though and Latourette was just about to intercept the pass when Gilbert raced out of nowhere and literally grabbed the ball from Latourette and sped 45 yards to set up Tech's last touchdown.

In tribute to the Raider defense, Gary Golden and Gene Darr were selected as back and lineman of the week.



SIGNS OF GROWTH — Construction on a \$3.5 million Central Heating and Cooling Plant, to be located west of Flint Avenue, will begin early next year following anticipated awarding of the contract on Jan. 24. Preliminary plans call for the facilities to be ready for testing by Oct. 15, 1967,

in time to serve the new Wiggins Dormitory Complex which will open next fall. The plant will consolidate all campus heating and air conditioning equipment and will serve other campus buildings through gigantic underground ducts.

School of Engineering

Program includes water research

The School of Engineering is in the process of setting up a program on the research of arid and semi-arid lands with special emphasis on its graduate program.

A Materials Research Center has been proposed for Texas Tech that would provide a bond between education and industry to form a "center of excellence."

The Water Resource Center could contribute to ICASALS by working on a method concerned with the artificial recharge of ground water.

The Textiles Research Laboratory will be of great value in performing research on the development of textiles, materials, fibers, and blends for the best adaptability in arid

and semi-arid lands. The testing of fibers natural to the region would be an important consideration of the laboratory.

A valuable asset in the storage of information about arid and semi-arid lands would be the Computer Center, which could be used to re-locate data learned from the various projects undertaken.

The department of architecture and allied arts will research climatic conditions and material resources.

John R. Bradford, dean of the School of Engineering, stressed that the program would be concerned with the adaptability of current technology to arid and semi-arid utilization.

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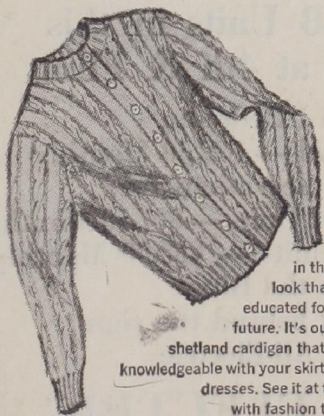
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Dear Fellow Techsan:

As a graduate of Texas Technological College in 1940, I certainly did not foresee the growth of our "university" to 18,000 students nor did I foresee my candidacy for the United States Senate.

This growth of our school has been due to many contributing factors—one being the contribution that young people such as you have made in realizing the potential of Tech and choosing to support it with your attendance and loyalty.

During my ten years as State Representative—four of which were served as Speaker of the House—and four years as Attorney General, it was my sincere desire to contribute to the growth of Texas Tech and indeed to all higher education of Texas. While I was Speaker of the House, the appropriations voted by the Legislature for our university increased 40%. It was my privilege to introduce and sponsor the bill that authorized the Texas Tech Board of Directors to convey to the City of Lubbock sufficient land to make possible the construction of the City Auditorium-Coliseum on the Tech campus. On one occasion we obtained a \$200,000 building appropriation for Tech which would not have been received in the normal course of appropriations. We were also successful in our attempts to gain admission to the Southwest Conference.

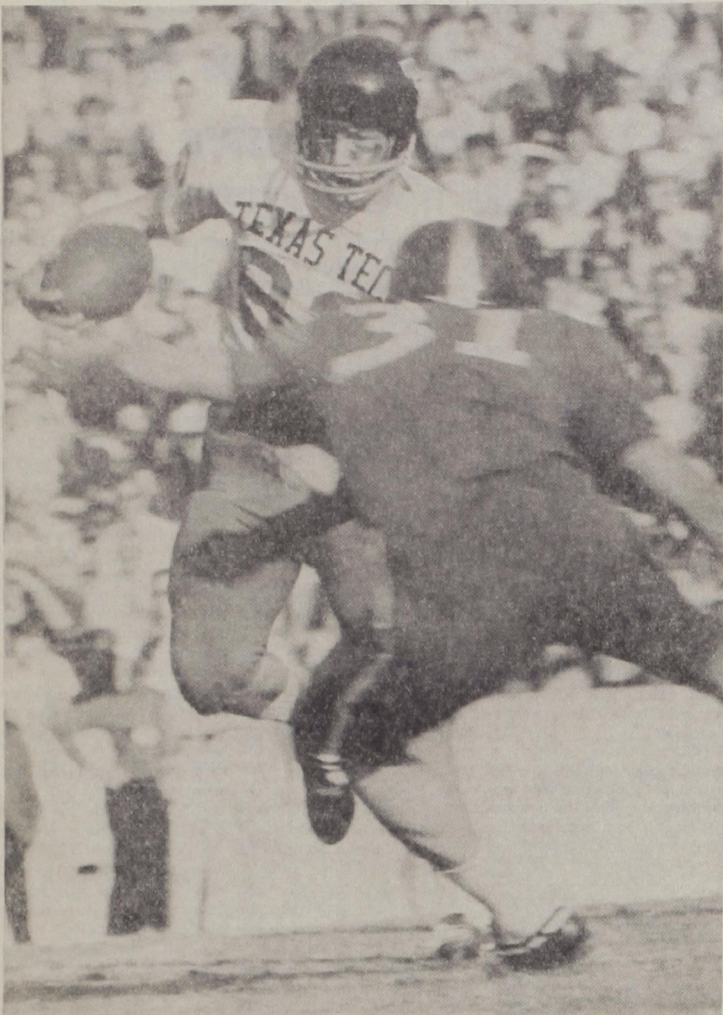
These things are related to you in order that you may become aware of the interest which I have in our university and in all higher education in Texas.

Tech now gets about one-tenth of the Federal grants it should get. Texas as a whole is sorely neglected in comparison to some other states. If elected your next United States Senator, I will be in a position to work toward assuring Texas Tech and the entire State of Texas of their fair share of Federal grants for education and research. This is particularly important to Tech in view of the decision of Dr. Murray that there be established at Tech an International Center for Arid and Semi-Arid Land Studies. We can provide educational opportunities for more of our young people, provide them with better tools for a full and productive life and we can dedicate ourselves to making this belief a reality.

The stature of an institution of higher learning is determined, in large measure, by the success and position of its graduates. I am personally very proud of my degree from Texas Tech because of the prestige attached to it by reason of the character of other graduates. My solicitation of your support is based on a heartfelt belief that the election of a graduate of Texas Tech to the United States will enhance the stand- of our institution and the degrees which you and others will receive from it.

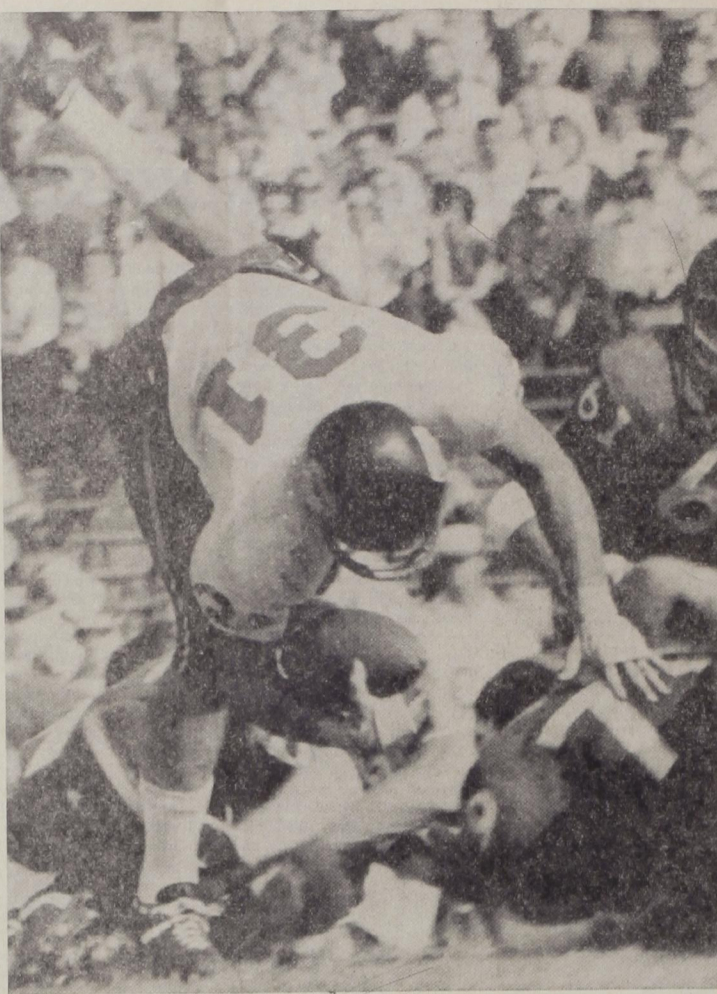
Yours for a greater Texas Tech,
Waggoner Carr

(Paid Political Advertisement)



SACRE BLEU!—Chuck Latourette was all set to intercept a deflected John Scovell pass when out of nowhere came Larry Gil-

bert. Gilbert snatched the pass from Latourette and rambled 45 yards before being caught from behind.



UP 'N OVER—Kenny Baker gets a few yards in Saturday's action. Baker became Mr. Versatile as he caught three passes for 47 yards, carried the ball nine times

for 48, blocked effectively and even assisted on one tackle. Six of Baker's runs came off a draw play which baffled the Rice defense all afternoon.

Now that we're together . . .

By **GEORGE CHAFFEE**
Sports Editor

J T King slumped back on a bench in the Raider dressing room and began un-lacing his shoes.

"Gosh, even though it's all over, I'm still afraid of Robby Shelton," he said. "If our defense hadn't come through the way it did and contained Shelton, we might not be such a happy bunch now."

And contain Shelton the Raider defense did as the fleet quarterback could manage only 30 yards on 17 rushing attempts during the game. Adding more insult, the Raiders allowed only one pass completion from Shelton and that came during the early minutes of the game.

The only thing that brought Rice's passing average up to a respectable point was Robert Hailey who completed 16 of 30 attempts for 152 yards.

Although the Tech defense allowed the Owls 333 total yards and 19 points on the scoreboard, it was the same type defense the Raiders used earlier against Kansas with jarring gang tackles, perfect punt coverage and big plays at the right time.

Of course, the main thing everyone was concerned with was whether or not the offense and defense could click together. When they did in the second quarter, the Raiders blew the Owls out of the tub.

Up until the second quarter, the Owls threatened constantly while the Raiders remained backed up to their own goal. However, a booming 59-yard punt by Kenny Vinyard and a determined drive from the offense got the Raiders out of the hole. Then the fireworks started.

Following a 37-yard pass from John Scovell to Larry Gilbert, Mike Leinert screamed around right end on a pitchout for 19 yards and Tech's first touchdown.

The defense set up the next one as Gary Golden intercepted a Hailey pass. Nine plays later, Roger Freeman dragged 225-pound Doug Nicholson across the goal for the second tally.

This time the defense allowed the Owls one play before James Henkel crashed through the Rice line and jarred Shelton loose from the ball on the Rice 40-yard-line.

Following runs by Freeman, Kenny Baker and Jerry Lovelace, Leinert followed Baker's blocks three yards into the end zone for No. three.

Then, with the Rice defense still in a state of shock, Bobby Allen, a Houston product, went into the game with half a minute remaining in the half.

Running straight for the goal post Allen got a few steps on Chuck Latourette and snagged a Scovell pass for the Raider's fourth touchdown in the second period.

The outburst was slow in coming, however, and during the first quarter it looked as though it never would.

"I guess we always start a little slow," said Leinert who started the ball rolling with the first TD, "but this time we really had trouble. After we goofed around a few times, we had a little meeting over on the sidelines and talked it over. After that, we started working a bit harder and the result was the four touchdowns."

During the first quarter, Leinert almost scored on a pitchout from Scovell, but the field just wasn't quite wide enough and the Houston junior danced along the stripe until he finally lost what little balance he had and slipped. The next time the play was called, Leinert scampered around untouched for the score.

"Man, after I saw Baker cut a path for me, I thought I could fly," he said. "Golly that field was great. I could have run all day on it."

Now that the Raiders have ironed out their problems of coordinating offense and defense, the question of what lies ahead becomes obvious.

It was only fitting that a defensive team member expressed the sentiments of the whole team.

"We didn't fly down here for nothing but business," guard Jimmy Moylan said as he dried from his shower. We worked harder this past week than we ever have before and you saw the end product."

"Now that we're working together, I think we're ready to go all out from here and win some more," he said.

Royal says Baer out of lineup

AUSTIN (AP)—Texas' coach Darrell Royal disclosed Monday a surprise lineup change—that former reserve guard Jimmy Leahy would replace Baer, one of the state's top schoolboy running backs his senior year, as Texas' No. 1 fullback.

"Just a personnel change," said Royal.

Having his worst season 3-4, Royal said tri-captain Barney Giles probably will miss Texas' final three games because of a knee injured in the Longhorns 13-12 loss to Southern Methodist Saturday.

He's the 12th starter to miss action this year because of an injury.



Philosophy 230

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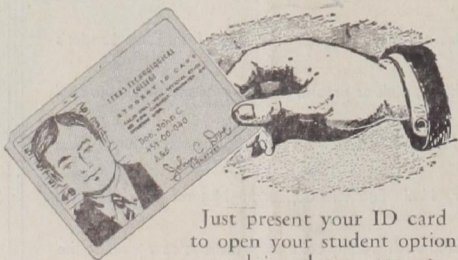
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