

Date	Stories and Cutlines	Locals	Reg. Daily	Reg. Week	50 M's	Hometowns	Selected	Explanation
1-3-6-78	Skydiving	✓						
2-3-6-78	DuPont grants--to eng.					Kelsey	Ad Stewart	
3-3-6-78	Law Client team	✓				Amarillo, Brownfield		
4-3-7-78	Career Day	✓						
5-3-7-78	Women's Basketball							Local TV
6-3-7-78	"The Legacy"- Planetarium							Local Radio
7-3-7-78	SHE symposium							
8-3-7-78	Planetarium Seminar at Amarillo	✓						adj. cos.
9-3-7-78	Seminar							
10-3-7-78	Women's Basketball	✓						Amarillo
11-3-7-78	Bell collection + outline	✓						adj.
12-3-7-78	Ashland Oil award							A-J, Kent,
13-3-8-78	Walpole windmill							
14-3-8-78	Horse Judging Contest	✓	✓					horse list
15-3-8-78	TAS & SHE meetings	✓						
16-3-8-78	Eliel							
17-3-9-78	Architecture contest	✓				✓		
18-3-9-78	Mesquite herbicide	-	✓				✓	

Date	Stories and Cutiines	Locals	Reg. Day	Reg. Week	50 M's	Hometowns	Selected	Explanation
19-2-9-78	Youth sports conference ✓							adj.
20-2-9-78	PSA - Hartford Ballet —							radio
21-2-9-78	PSA - Children's sports —							radio
22-2-9-78	Mass comm week							xelist
23-2-10-78	Belaunde Terry ✓✓	✓✓						
24-2-10-78	PSA - PE & Rec Seminars ✓	✓						radio
25-2-10-78	Spring enrollment ✓✓	✓✓						
26-2-10-78	Mansheadel aut atm ✓✓	✓✓						
	Dads Association Awards							
	Range Plant identification ✓						✓	
	Cdema - dean's list							
	Black Awareness Month							

Texas Tech News

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CONTACT: Preston Mitchell

LUBBOCK--Remember when eating goldfish and stuffing telephone booths were popular activities of college youths? There is something new in the air for students at Texas Tech University: skydiving.

Claiming that skydiving is for "everybody," Corky Roberts, a sophomore nursing major from Dallas, is attempting to start the Lubbock Raider Skydiving Club at Tech.

"Skydiving has greatly increased among young people," Roberts said. "The sport is getting more exposure and people enjoy the competition of skydiving."

Roberts, a class-D expert instructor, began the club at Tech to teach students the basic principles of safe skydiving and to give them practical experience in the sport.

"Students are required to have 46 hours of classwork, 46 hours of ground training and three hours of aircraft training before they can make their first jump."

Gear sophistication has almost eliminated diving accidents, Roberts said. "Student gear is safe, slow and easy to use. I feel safer jumping, than flying in an airplane," Roberts added.

"I have had one student hurt," Roberts laughs. "The guy was so tired from jumping several times during the day, that as he was walking, he tripped and sprang his ankle."

-more-

skydiving/add one

Women are better jumpers than men, Roberts claims. They take it more seriously, they weigh less and have a more compact build.

"Skydivers, in the past, were usually older people," Roberts said. "Now, the average age is between 18-20 years. However, there is still an interest in skydiving among a varied group of people.

"My first jump," Roberts recalls, "was a combination of pure ecstasy and stark terror."

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1-3-6-78

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CONTACT: Dan Tarpley

LUBBOCK--Texas Tech University's departments of Chemical and Mechanical Engineering have received \$3,500 grants from E. I. du Pont de Nemours & Company as a part of the corporation's education aid program for 1978.

The grants were presented to the university by Mrs. Marie M. Stewart, Wilmington, Del., Personnel Division, E. I. du Pont, and were accepted for the university by Dr. Clyde E. Kelsey Jr., vice president for Development and University Relations.

Purpose of the grants is to help universities maintain or enhance the strength of their instruction in science and engineering, Mrs. Stewart said. The grants are intended to enable recipient departments to satisfy needs and to engage in activities that would not otherwise be possible.

Examples of possible uses include purchase of equipment, scholarly activities of the faculty, assistance for gifted undergraduates, curriculum studies and visiting lectureship or seminar series.

In the case of graduate programs, funds may be used for fellowships and for outstanding part-time teaching by graduate students.

cutline-----

FUNDS FOR ENGINEERING--Mrs. Marie M. Stewart, Personnel, E. I. du Pont de Nemours & Company, presented two \$3,500 grants to Dr. Clyde E. Kelsey Jr., vice president for Development and University Relations. The grants are for Texas Tech's Mechanical and Chemical Engineering departments. The grants are part of the company's educational aid program for 1978.

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CONTACT: Preston Mitchell

ATTN: Amarillo and Brownfield

LUBBOCK--The Texas Tech University School of Law Client Counseling Team advanced to the finals in the Region XII American Bar Association Competition conducted at Texas Tech over the weekend.

The Loyola University, Louisiana, law team took top honors. Texas Tech's team was composed of Gary Blanscet, second year student from Amarillo, and Angela Adams, first year student from Brownfield.

Teams were not ranked beyond first place.

"The contestants included teams of student counselors conducting 30-minute interviews with clients," said Law Prof. Charles P. Bubany. "The students were graded by Lubbock attorneys on their ability to gain relevant facts, finding out the clients' problems and presenting solutions."

"Students received intensive training in what is the most important task lawyers are required to perform," Bubany said.

Bubany, faculty-advisor to the Texas Tech team, said students from nine participating universities competed.

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CONTACT: Nita Gilger

LUBBOCK--Approximately 50 representatives from businesses, industries and governmental organizations will be at Texas Tech University for Career Day, Wednesday (March 8), 9 a.m.-3 p.m. in the University Center Ballroom, to assist students in career development.

The Texas Tech Career Planning and Placement Service is sponsoring the event, which is designed to answer students' questions about careers, employment outlooks, salaries and use of the university's placement service.

Career Day will provide students access to employers who can supply resource material. Information will be available on recommendations for academic majors in career preparation and current job openings in various employment areas.

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4-3-7-78

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CONTACT: Pat Broyles

ATTN: Sports Editors

For Immediate Release

A FOURTH PLACE FINISH IN THE STATE TOURNAMENT WAS ENOUGH TO QUALIFY THE TEXAS TECH WOMEN'S BASKETBALL TEAM FOR THE REGION FOUR CHAMPIONSHIP TO BE PLAYED MARCH 8TH THROUGH 11TH IN NACOGDOCHES. TECH IS SEEDED SEVENTH IN THE TOURNAMENT. THE RAIDER'S OPENING ROUND OPPONENT WILL BE NORTHEASTERN STATE OF OKLAHOMA AT 3 P.M., WEDNESDAY, ON THE STEPHEN F. AUSTIN CAMPUS. SHOULD THE RAIDERS WIN THAT CONTEST, THEY WILL PROBABLY FACE WAYLAND BAPTIST COLLEGE FOR THE FIFTH TIME THIS SEASON. TECH HAS LOST ALL PREVIOUS ENCOUNTERS WITH WAYLAND AND, SHOULD THE RAIDERS LOSE AGAIN, A FIFTH PLACE FINISH WOULD BE THE BEST TECH COULD HOPE FOR. ONLY THE TOP TWO TEAMS FROM REGION FOUR WILL ADVANCE TO THE SATELLITE TOURNAMENT TO BE PLAYED MARCH 16 THROUGH 18 IN DENTON.

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5-3-7-78

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NOTE TO MEDIA:

Dr. Richard C. Atkinson, director of the National Science Foundation, which supervises the expenditure of more than \$800 million annually for research, will be one of the principal speakers at the International Symposium for Super Heavy Elements at Texas Tech March 9-11. He will conduct a news conference at the airport as soon as possible after his arrival which is scheduled for 3:10 p.m. Thursday, March 9. All media are invited to send representatives for interviewing and photos.

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CONTACT: Pat Broyles

ATTN: PSA Directors (Kill May 28)

FOR RELEASE MARCH 14

YOU'VE JUST SKIMMED THROUGH THE CLOUD COVER OF VENUS AND
NOW YOU'RE HEADING TOWARD THE OUTER PLANETS OF THE SOLAR SYSTEM.
NEXT STOP, MARS, WHERE YOU WILL UNCOVER THE SECRETS OF THE
MYSTERIOUS MARTIAN CANALS. YOU ARE PART OF "THE LEGACY," A
FAST-PACED INTERPLANETARY JOURNEY, WITH MOODY PLANETARIUM AS
YOUR SPACESHIP. DON'T MISS "THE LEGACY," EACH SATURDAY AND
SUNDAY AT 3 P.M. IN TEXAS TECH'S MOODY PLANETARIUM. TICKETS
\$1 FOR ADULTS AND 50 CENTS FOR STUDENTS.

6-3-7-78

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CONTACT: Dan Tarpley

LUBBOCK-- Some of the world's most outstanding scientists, including the director of the National Science Foundation, two Nobel Laureates and three Bonner Laureates, will begin arriving Wednesday for the International Symposium on Super Heavy Elements (SHE) at Texas Tech University.

More than 100 visiting scientists are expected to attend and participate, according to Dr. M. A. K. Lodhi, Texas Tech physicist and symposium chairperson.

The first session is an informal one at the Lubbock Inn at 7:30 p.m. Wednesday (March 8). The business portion of the symposium begins at 8 a.m., Thursday, to continue through Saturday afternoon.

Business sessions will be held in the Senate Room of the University Center. The Symposium banquet is scheduled for 6:30 p.m. Thursday in the Lubbock Club, with Dr. Richard C. Atkinson, director of the National Science Foundation (NSF) as the speaker.

Atkinson became director of the NSF June 1, 1977, and had been acting director for a year before his appointment and confirmation by the Senate. He is on leave of absence from Stanford University where he had been on the faculty since 1956.

The top administrative official of the NSF is an experimental psychologist and applied mathematician whose research has been concerned with experimental and theoretical analyses of memory and cognition. He was one of the first to transform intuitive ideas about the nature of memory into an explicit theory that could be formulated in mathematical terms.

This theory has been the basis for much of the current research on human memory. It also has had an important role in specifying correlates between brain structures and psychological phenomena, in explaining the effects of drugs on memory, and in providing techniques for optimizing the learning process.

-more-

Atkinson's research has led him also to be concerned with problems of classroom learning. He was among the first to develop a computer-controlled system for instruction, whose basic features have had influence on the computer field and have been used in the design of commercial computer-assisted instruction programs.

He received the bachelor of science degree at the University of Chicago in 1948 and the doctor of philosophy degree at Indiana University in 1955.

The NSF is made up of the director and the 24-member National Science Board, an independent executive agency in the federal government which reports directly to the President and Congress. Dr. Grover E. Murray, former president of Texas Tech and now a University Professor, is a member of the board. One other Texan, Dr. Norman Hackerman, president of Rice University, is also on the National Science Board.

The agency supervises the expenditures of more than \$800 million a year in all areas of scientific research.

Nobel Laureates who will participate in the symposium are Drs. E. M. McMillan and G. T. Seaborg of the University of California, Berkeley, and the Bonner Laureates are Drs. H. Feshbach of Massachusetts Institute of Technology, W. A. Fowler of California Institute of Technology, Pasadena, and M. Goldhaber of Brookhaven National Laboratory, Long Island. The Nobel prize is the highest given in general physics and the Bonner the highest in nuclear physics.

The Thursday morning opening session will feature an inaugural lecture on "Overview: History and Perspective of the Search for Super Heavy Elements" by O. Lewin Keller of Oak Ridge National Laboratories. W. O. Milligan, director of research, Welch Foundation, will preside. Opening remarks will be delivered by M. A. K. Lodhi, Texas Tech physicist and chairperson of the symposium's International Advisory Committee. The welcome will be by Dr. J. Knox Jones, vice president for Research and Graduate Studies, Texas Tech.

ctuline-----

TOPIC IS SUPER HEAVY ELEMENTS--The four scientists shown above get together just prior to the opening session of the International Symposium on Super Heavy Elements at Texas Tech University. They are, from left, W. O. Milligan, director of Research, Welch Foundation, who presided over the session; O. Lewin Keller of Oak Ridge National Laboratories, who delivered the inaugural address; Dr. M. A. K. Lodhi, Texas Tech professor of physics and chairperson of the International Advisory Committee for the symposium; and Dr. Samuel B. Trickey, chairperson of the Department of Physics at Texas Tech. (Tech Photo)

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CONTACT: B. Zeeck

ATTENTION FINE ARTS EDITORS

LUBBOCK -- The art of Pierre Bonnard, noted for his clever, delicate brush strokes and subtle color values, will be the subject of an art seminar at The Museum of Texas Tech University at 10 a.m., Tuesday (March 14).

The lecturer is Rabbi Alexander Kline, who has conducted spring and fall art seminar series at The Museum for the past 18 years. The seminars are sponsored by the Women's Council of the West Texas Museum Association. The public is invited to participate. Lectures cost \$2 each.

Bonnard was an artist associated with the Nabis who, while borrowing some elements from the Impressionists, formed a new group at the end of the 19th century.

The Nabis were interested in the contemporary scene and came under the influence of the popular Japanese prints of their era. Particularly important was the use of flat color in these prints.

Bonnard carried the intimate art of the Nabis, which concentrated on interiors, into the out-of-doors, to gardens and landscapes. For him a mere detail of nature sufficed to sum up all nature and express, as one critic said, "a kind of cosmic intoxication."

"The Breakfast" illustrates his use of dazzling highlights. The "Eau de Cologne" is typical of his intimate, interior paintings.

His art is considered eternally youthful, and in his later works the forms, proportions and distances are fused with a special spiritual quality.

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CONTACT: Pat Broyles

ATTN: News Editors

LUBBOCK--A seminar designed to educate persons both in the legal profession and among the general public on the parole system in Texas will be held on Thursday (March 9) at the Texas Tech University School of Law.

The free seminar will be held in room 109 from 10 a.m.-5 p.m.

Michael Irish, assistant dean and seminar coordinator, said that the course should be of interest to anyone concerned with the parole system.

"The seminar is designed to explain the functions of the Texas State Department of Corrections and Parole and to provide a clearer understanding of how the system works."

The session will be divided into three sections and will cover topics such as: "How Does the Texas State Department of Corrections (TDC) Work?," "A Day in the Life of a TDC Inmate," "Habeas Corpus" and "Shock Probation." Also covered will be administrative law and clemency.

Bill Habern, a practicing attorney in Huntsville, is responsible for planning the seminar. An attorney counselor for TDC inmates for the past three years, he has recognized a need for this program.

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9-3-7-78

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For Immediate Release

CONTACT: Mark Haller

ATTN: Sports Editors

LUBBOCK---The Texas Tech University women's basketball team, following a fourth place finish at the Texas State Tournament, will enter competition in the AIAW Regional Championship Tournament on Wednesday (March 8) at 3 p.m. against Northeastern State of Oklahoma.

The regional contest will be held on the campus of Stephen F. Austin State University in Nacogdoches.

The Red Raiders are seeded seventh in the regional championship tourney, with Louisiana State University seeded first, Wayland second, Louisiana Tech third, The University of Texas at Austin fourth, Stephen F. Austin fifth, Oral Roberts University sixth, Texas Tech seventh and the University of Houston eighth.

As the tournament bracket is designed, the Tech squad will play Northeastern State of Oklahoma on Wednesday and probably face Wayland on Thursday.

The top two teams from the Regional Championship Tournament will advance to the national competition, scheduled for March 22-25 in Los Angeles on the UCLA campus.

The Raiders qualified last weekend at the State Tourney in defeating Sam Houston State University, 101-76. The Techs then

played the University of Houston, defeating them 81-72. Against Sam Houston, Tech shot 52 percent from the field and 82 percent from the free throw line. In the Houston game Tech hit 44 percent from the field and 83 percent from the charity line.

The Houston win left the Raiders undefeated going into the third round of the tournament, which assured the Tech squad of a berth in the regional championship.

In their next two games of the state tournament the Raiders were defeated by Wayland Baptist College, 110-52 in the semi-final round. It was Tech's fourth loss this season to the Flying Queens. In the playoff for third and fourth place the Red Raiders were defeated by Stephen F. Austin State, 79-64. Against Wayland the Techsans only shot 36 percent from the field, compared with Wayland's 62 percent.

In a recent poll of women's basketball teams in Texas, Wayland was ranked first, with The University of Texas at Austin second, Stephen F. Austin third and Tech fourth.

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CONTACT: B. Zeeck

LUBBOCK--Bells---cow bells, camel bell, dinner bell, school bells and more than two dozen others---will go on exhibit at The Museum of Texas Tech University on March 13.

The bells have been collected by Dr. and Mrs. Darrell L. Vines of Lubbock since 1969. The exhibit, called "Collector's Treasure," is sponsored by the West Texas Museum Association.

The collection was started, Vines said, when the vacationing family discovered some sleigh bells at a flea market in New York state.

Before reaching home they had found school bells and, once family and friends discovered their interest, the collection grew.

One of the bells was cast by Vines' father, P. O. Vines, a Crane, Tex., sculptor. The wax mold was designed by the collector.

"I learned one thing," Vines said. "Getting a good tone in a bell is very difficult."

Among the bells going on exhibit is a four-tiered German bell, Canadian "rump bells" worn by a horse when pulling a sleigh, and a large, wooden-handled school bell from upstate New York. The camel bell was owned for many years by Ozona relatives.

Although the family interest in bells is relatively new, Vines said, the collection already has items representing the United States, Canada, Europe, the Mideast, India and the Orient.

cutline-----

BELL EXHIBIT--David Dean, left, assistant preparator at The Museum of Texas Tech University, and Patricia Allgood, supervisor of exhibit design, break the customary quiet of a museum as they unpack a bell collection belonging to Dr. and Mrs. Darrell L. Vines. The bells will go on exhibit at The Musuem March 12. (Tech Photo)

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11-3-7-78

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CONTACT: Dan Tarpley

LUBBOCK--Ashland Oil, Inc., of Ashland, Ky., has presented Texas Tech University's Geosciences Department \$5,000, the first of five yearly awards of that amount to support faculty and student research.

The grant was delivered to the department by Dr. Grover E. Murray, University Professor and Texas Tech. It was accepted for the department by Dr. David K. Davies, chairperson. Dr. Murray is a member of the Ashland board of directors.

The funds came from the Education and Community Support Committee of Ashland Oil.

"The grant is the type which gives the department the needed latitude to enhance its educational and research programs. We are indeed grateful to the company and to Dr. Murray," Davies said.

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12-3-7-78

cutline-----

GRANT FOR TEXAS TECH GEOSCIENCES--Dr. Grover E. Murray, left, president emeritus of Texas Tech Univeristy and a member of the board of directors of Ashland Oil, Inc., presents a \$5,000 grant from the company to Dr. David K. Davies, chairperson of the Department of Geosciences at the university. The grant is the first of five \$5,000 yearly grants to the university's Geosciences Department. (Tech Photo)

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12-3-7-78

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CONTACT: B. Zeeck

LUBBOCK--The historical detectives are at it again. This time they have discovered that the Walpole Windmill at the Ranching Heritage Center of The Museum of Texas Tech University is really an Althouse-Wheeler Raymond windmill made in Waupun, Wis.

Dr. T. Lindsay Baker, who is completing work on a "Field Guide to American Windmills," said his research led him to doubt the designation of the mill as a "Walpole."

"As it turns out," he said, "there is no Walpole windmill. Farmers referred to the Raymond as a 'Waupun' and, in oral transmission, that likely became 'Walpole' when the mill arrived at the Ranching Heritage Center.

Dr. Leslie C. Drew, director of The Museum, announced the discovery of the error.

"Historical research at the Ranching Heritage Center is a continuing process," he explained, "and we will be constantly adding new information as historians uncover the truth of the past.

"In this particular case, we are especially indebted to Dr. Baker and also to Byron Price (formerly coordinator of research at the Ranching Heritage Center). Their doubts and diligent

-more-

research have contributed to the authenticity we are seeking to establish in this unique outdoor exhibit."

The Ranching Heritage Center is a 12-acre outdoor exhibit of authentic ranch structures restored to depict the history of ranching in the American West.

The windmill's official name is "The Pipe Raymond Vaneless," with a catalog description stating "with Cypress Wood Wheel for Straight Towers."

Baker received a copy of the catalog description which read:

"We build this mill in this way so that it will fit right onto all makes of windmill towers without any alteration of the tower whatever.

"Almost all steel windmills have pipe mast turntables and (cq) are fitted for straight towers and as over 50 per cent of our windmills go to replace steel mills which have worn out or blown to pieces, we put out this model.

"See How the Wings Fold and Fool the Cyclones."

Baker said Althouse-Wheeler began manufacturing the Raymond about 1910 and continued until the late 1930s. Made from Louisiana red cypress, the vaneless mills normally withstood high winds better than mills with vanes.

They were more popular in Nebraska and Kansas than in Texas, Baker said, probably because they were mechanically complex and required the kind of constant attention farmers were better prepared to give than were ranchers.

Baker said he went to the Ranching Center recently to observe the windmills there when 60 mph winds were reported.

walpole windmill/add two

"The Raymond appeared to live up to the advertising. It was much more stable than the solid wheel mills," he said.

Baker's copy of the catalog page describing the Raymond came from Australia, although he has since discovered two additional catalogs in the United States. One is in the Garnet Brooks windmill literature collection at the Panhandle Plains Museum of West Texas State University, Canyon, and the other is in Ohio, he said.

Baker's book will be published by the University of Oklahoma Press, probably in 1979, he said. He is associated with the History of Engineering Project at Texas Tech University, where he earned the doctoral degree. Price is curator of history at the Panhandle Plains Museum.

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13-3-8-78

cutline-----

PIPE RAYMOND VANELESS WINDMILL--Historians have discovered that this windmill at the Ranching Heritage Center of The Musuem of Texas Tech University is a Raymond windmill manufactured by Althouse-Wheeler of Waupun, Wis. Farmers called it a "Waupun" and, in oral transmission, that likely became "Walpole," the name given the windmill when it arrived at the Ranching Heritage Center in 1970.

-30-

13-3-7-78

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CONTACT: Marcia Lundy

ATTN: Ag editors, Sports editors

LUBBOCK--The Texas Tech University horse judging team placed first of 12 teams at the recent Texas A & M University-sponsored Southwest Regional Intercollegiate Horse Judging Constest at College Station.

This is the Tech team's second year of competition.

Two Tech teams participated, A and B. The B team took fifth overall.

Other honors garnered by the teams included first in both the performance and reasons sections for the A team and third in reasons and fourth in halter for the B team.

Beverly Marr was the overall high individual, high performance individual and fifth high reasons individual. Dirk Jones was high reasons individual and fourth high performance individual. Sandra Mandel was second in both individual performance and reasons. Blake Shuttlesworth was third in both overall and individual halter.

The members of the A team include, Jones, sophomore, agricultural economics, Tatum, N. M.; Sandy Mandel, freshman, mass communications, Parker, Colo.; Marr, senior, home economics, Dallas; and Jim Taylor, senior, general business, Lubbock.

The B team members are Marilyn Chesser, junior, animal production, Brownwood; Deborah Clay, sophomore, agricultural economics, Flomont; Jan Reed, sophomore, accounting, Lubbock; Shuttlesworth, junior, agricultural sciences, Lubbock; and Donna Swope, freshman, animal science, Llano.

Team advisor is horse specialist Jim Heird.

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CONTACT: B. Zeeck

LUBBOCK--More than 600 participants will start registering at Texas Tech University on Thursday (March 16) for the 81st annual meeting of the Texas Academy of Science (TAS).

The meeting involves three academies, the Junior Academy for approximately 150 high school students, the Collegiate Academy for about the same number, and the Senior Academy whose participants are, in the majority, faculty members of senior colleges in Texas.

Academy sessions will end Saturday at noon. The public may participate for a fee of \$11 and are invited, at no charge, to tour the exhibits of the newest books, instruments and other scientific equipment in the ballroom of the University Center.

A highlight of the exhibit area will be Southwestern Bell's display including explanations of the transistor, which has transformed electronic equipment and of the international direct distance dialing system. The exhibit also is expected to include a picture phone, already in use in some industries.

The major social event of the meeting will be a nonpolitical lecture by U.S. Rep. Robert Krueger at the Academy's banquet at 7:30 p.m. on Friday at KoKo Palace. Krueger, who is a member of the House Science and Technology and Interstate and Foreign Commerce committees, will discuss "The Scientist: National and International Responsibilities."

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tas/add one

Scientifically, one of the most prestigious meetings will be an International Symposium on Super Heavy Elements (SHE) held in conjunction with the TAS.

Attending will be National Science Foundation Director Richard C. Atkinson, the speaker for the symposium banquet at 6:30 p.m., Thursday, at the Lubbock Club. Nobel Laureates participating will be Drs. E. M. McMillan and G. T. Seaborg of the University of California-Berkeley, and Bonner Laureates, Drs. H. Feshbach of the California Institute of Technology, Pasadena, and M. Goldhaber, Brookhaven National Laboratory, Long Island. The Nobel prize is the highest awarded in physics, the Bonner the highest in nuclear physics.

The TAS also will sponsor symposia in the fields of biogeography, chemistry, mathematics, aquatic sciences and computer sciences.

Junior Academy awards will be presented for the best papers in the behavioral and social sciences, engineering, medicine and health sciences, earth and space science, biochemistry and chemistry, mathematics and computers, botany, microbiology, physics and zoology.

TEXAS ACADEMY OF SCIENCE OFFICERS -- Registering for the 81st annual meeting of the Texas Academy of Science at Texas Tech University March 9-11 were, left to right, TAS incoming president, Dr. J. D. McCullough of Stephen F. Austin University; program chairman and president elect, Dr. James L. Poirot, North Texas State University, Denton; and Dr. J. Dalton Tarwater who heads the Department of Mathematics at Texas Tech and who served as chairman of local arrangements. For Poirot and Tarwater it was a reunion as Poirot earned the doctoral degree at Texas Tech. (TECH PHOTO)

cutline-----

TEXAS ACADEMY OF SCIENCE COLLEAGUES--Dr. J. Dalton Tarwater, left, chairperson of the Department of Mathematics at Texas Tech University, visits with Dr. A. D. Stewart, who heads the Department of Mathematics at Prairie View Agricultural and Mechanical College, at the 81st annual meeting of the Texas Academy of Science. The meeting at Texas Tech University drew close to 700 participants, including, at a physics symposium, Dr. Richard C. Atkinson, director of the National Science Foundation and Nobel Laureates E. M. McMillan and G. T. Seaborg.

cutlines....

JUNIOR SCIENTISTS -- Operating an exhibit at the 81st annual meeting of the Texas Academy of Science, March 9-11 at Texas Tech University, were Mission students, left to right, Jerry Hilberry, son of Mr. and Mrs. Donald G. Hilbery, and Willie McMahon, son of Mr. and Mrs. Stanley L. McMahon. The junior high school students participated in the Junior Academy of Science paper presentations. (TECH PHOTO)

cutline-----

TAS VICE PRESIDENT--Newly elected vice president of the Texas Academy of Science is, left, Dr. R. H. Richardson of the zoology faculty at The University of Texas at Austin. He was elected to the office, which automatically succeeds to the presidency, at the TAS 81st annual meeting at Texas Tech University. With him is, center, Dr. Robert M. Sweazy, director, Texas Tech Water Resources Center, and Dr. John R. Hilliard Jr., Department of Life Sciences, Sam Houston State University. Richardson also has served the TAS as vice president and chairman for the Biology Section. (Tech Photo)

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CONTACT: Nita Gilger

LUBBOCK--The South Plains American Chemical Society will feature guest speaker Ernest L. Eliel, researcher and professor of chemistry at the University of North Carolina, Chapel Hill, March 20, 7:30 p.m., room 5, Chemistry Building, Texas Tech University.

Dr. Eliel's topic will be "Symmetry Considerations in Chemistry." Eliel, originally of Germany, taught at the University of Illinois for 24 years and was chairperson of the Chemistry Department.

He is the William Rand Kenan Jr. Professor at the University of North Carolina.

Eliel has published more than 200 original research papers. He is active in the American Chemistry Society and is a member of the National Academy of Science.

The South Plains American Chemical Society will bring another guest speaker to the campus on April 12. Dr. William G. Fateley of the Department of Chemistry at Kansas State University, Manhattan, will speak on "Scientific Hoaxes, Art and Quantum Mechanics."

The sessions will be open to the public at no charge.

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CONTACT: Preston Mitchell

LUBBOCK--Two Texas Tech University senior architecture teams recently won second and third place awards in a national contest for community planning of a small town in Minnesota.

"The contest was sponsored by the City of Camby in an effort to revitalize and restore the beauty of the downtown area," said Robert Chang, associate professor of architecture. The students were members of Chang's Urban Design Studies class.

"The city was a typical small town in the United States and the citizens wanted a plan to help beautify their town," Chang said. "We really enjoyed our time in Camby because of the friendliness of the town's people.

"This was a real opportunity for the students to put their education into practical experience. The students had to compete with professionals, and they did very well."

The City of Camby, a town of about 2,200 residents, will choose the best ideas from the top five proposals, Chang added.

Members of the second place team were: Randy Allen, Lubbock, Wayland Schroeder, Lubbock, Judy Baxter, Carlsbad, N. M., and Rick O'Laughlin, Lubbock.

The third place team members were: Bart McDearm, Midland, Richard King, Dallas, and Andy Zwaicher, Ft. Worth.

cutline-----

TECH ARCHITECTURE STUDENTS WIN COMMUNITY PLANNING AWARD--Texas
Tech University senior architecture students won national
community planning awards for their proposals to revitalize and
restore Camby, Minnesota. Receiving an award is Andy Zwiacher
of 3917 Georgian Dr., Ft. Worth.

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cutline-----

TECH ARCHITECTURE STUDENTS WIN COMMUNITY PLANNING AWARD--Texas
Tech University senior architecture students won national community
planning awards for their proposals to revitalize and restore
Camby, Minnesota. Receiving an award is Judy Baxter of 1012 Birch
Lane, Carlsbad.

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cutline-----

TECH ARCHITECTURE STUDENTS WIN COMMUNITY PLANNING AWARD--Texas
Tech University architecture students won national community
planning awards for their proposals to revitalize and restore
Camby, Minnesota. Receiving an award from Architecture Dean
Larry Garvin are, from left, Richard King, Dallas; Bart McDearn,
Midland; Andy Zwiacher, Ft. Worth, and Robert Chang, associate
professor of architecture.

cutline-----

TECH ARCHITECTURE STUDENTS WIN COMMUNITY PLANNING AWARD--Texas
Tech University senior architecture students won national
community planning awards for their proposals to revitalize
and restore Camby, Minnesota. Receiving an award is Richard
King of 10110 Clearmeadow, Dallas.

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CONTACT: Marcia Lundy

ATTN: Ag Editors

LUBBOCK--By adding niacin in the spring or thiamine in the summer to herbicide treatments of mesquite during certain stages of its growth a rancher can obtain more effective and consistent root kill of the trees.

Dr. Ronald E. Sosebee of Texas Tech University's Department of Range and Wildlife Management has found that the addition of one of these two at certain times will help the herbicide to be more thoroughly translocated to the mesquite root system.

Sosebee began his research by observing natural niacin and thiamine concentrations in mesquite. He found that one or both increase or decrease during such stages of the tree's growth as bud break, flowering, pod drop, root growth, bud set for the next season's growth and dormancy.

He said some deviation from these events was noted and was accounted for by soil temperatures below or above optimum levels for that time.

He found that niacin decreases in the tree when the soil, at a depth of 18 inches, is colder than 75 degrees Fahrenheit. Thiamine decreases in the tree when the soil is warmer than 85 degrees F.

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mesquite research/add one

By adding niacin in May, when the soil is colder, or thiamine in June or July, along with the normal herbicide treatments, Sosebee said better plant kill could be obtained.

The addition of one of the two would raise the cost of herbicide treatments by about one to two cents per acre, he said.

Two problems still to be worked out are the exact amount to add, and where the rancher can easily obtain the two in usable form.

Sosebee said, at present, he believes that from one to 10 parts per million of either niacin or thiamine should be added to the regular herbicide. This range is what he has used in his research, and is the basis for his cost estimate.

Neither is easily available to ranchers now, he said. As a potential develops for their use, Sosebee said, the problem of obtaining them could be worked out.

Sosebee expects to conclude research on their effectiveness and the amount needed later this year. Results will be published in the department's Annual Report.

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CONTACT: Marcia Lundy

ATTN: Ag Editors

LUBBOCK--Negative results of research conducted at Texas Tech University are positive news for swine producers, for a recently concluded experiment showed that feeding methods most used by producers in finishing swine are the most efficient.

The experiment was conducted by Drs. Leland F. Tribble and Donald E. Orr Jr. of Tech's Department of Animal Science.

The study was based on the decreasing protein requirements of pigs as they become older and heavier. Tribble said most producers change the protein level in feed to finishing swine only once or twice.

The Tech professor explained that the idea behind the experiment was that pigs would use feed more efficiently for weight gain if the lysine were reduced according to the decreasing requirements of the pigs. Lysine was used as a balancing measure instead of protein, Tribble said, because if the lysine requirements for pigs are met, then the protein requirements should be met.

Lysine is the amino acid in protein most likely to be deficient in protein for pigs. The pigs obtained lysine in the feed from both soybean meal and grain sorghum, the two main ingredients. The other ingredients were minerals, vitamins and

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protein reduction/add one

antibiotics. The meal was used to increase or decrease the lysine level in the feed. When meal was decreased and sorghum increased, the lysine level was lowered.

In the experiment two sets of pigs were used. The starting weight of both sets was about 40 pounds.

One set was fed normally, started at .72 percent lysine and reduced only once to .57 percent, at a weight of 130 pounds. This was the control group.

The test group was started at .77 percent lysine. When the pigs reached an average of 75 pounds, the lysine level was reduced to .72 percent. Thereafter, the level was reduced .05 percent for each additional 25 pounds of weight gained. The last level for the test pigs was .47 percent, with the swine being fed from an average weight of 200 pounds to the finishing weight of about 215 to 220 pounds.

The end result of the test, Tribble said, showed no difference in overall weight gain performance between the two sets of pigs. Both gained an average of 1.4 pounds per head per day over the total experiment.

"On the basis of this test," Tribble said, "we would recommend feeding one level of lysine from 40 to 130 pounds, then lowering the level until the pigs are finished. This is essentially the way most producers feed."

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CONTACT: Nita Gilger

LUBBOCK--Energy alternatives for West Texas and proposed methods of energy utilization and conservation will be the major topics of the "Energy Outlook '78" symposium at Texas Tech University Center on March 13-15.

Purpose of the symposium is to involve and inform the Texas Tech student body and the public of energy alternatives especially adaptable to the West Texas environment.

Discussion by various professors, researchers and legislators will focus on proposed methods for utilization of present energy sources and federal, state and local activities concerning energy conservation and development.

Keynote speakers include Congressman Bob Krueger of New Braunfels on "Federal Energy Legislation," 7 p.m., Monday (March 13); Dr. John J. McKetta, professor of chemical engineering, The University of Texas at Austin, "Energy Picture Today," 7 p.m., Tuesday (March 14); and Dr. Stephan Riter, professor of electrical engineering, Texas A&M University, "Conservation, What Can the Consumer Do Today?", 7 p.m., Wednesday (March 15).

Krueger now serves on the House Interstate and Foreign Commerce Committee. His subcommittee assignments include Oversight and Investigations and Energy and Power. He also is on the

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on the Committee of Science and Technology and the subcommittee on Energy Research, Development, and Demonstration.

McKetta has served on the Board of Regents of Tri State College of Indiana and is a member of the boards of directors of 11 companies and several national advisory boards. He holds or has held 50 local and national offices in eight professional, educational and technical societies. Among other honors McKetta was named "The Outstanding Engineering Educator in the USA for 1976."

Riter has been appointed assistant director for Urban Technology of the Texas A&M Center for Urban Programs and assistant director of A&M's Center for Energy and Mineral Resources. In 1977, he became director of the Texas Energy Extension Service and was charged with developing methods to effectively spread energy conservation information to the public.

Other speakers for the three-day symposium include Dr. M. Simna of General Atomic, San Diego, Calif.; Marshall Dietrich of NASA; Dr. Harry W. Parker, professor and chairperson of Chemical Engineering; Dr. David K. Davies, professor and chairperson of Geosciences; Dr. Steven R. Beck, professor of chemical engineering; Dr. John D. Reichert, project director of Crosbyton Solar Power Project and professor of electrical engineering; Dr. Marilyn E. Phelan, professor of law; Dr. Ernst W. Kiesling, professor and chairperson of Civil Engineering; and Carl J. Childers, professor of architecture, all of Texas Tech.

Sponsors for the event are the Environmental Law Society, Student Bar Association, American Institute of Chemical Engineers, Engineering Student Council, Center for Energy Research and University Center Programs.

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CONTACT: Dan Tarpley

LUBBOCK--Oak Ridge National Laboratory physicist O. Lewin Keller Jr. cited for more than 100 visiting scientists at Texas Tech University Thursday the scientific advantages that have resulted from the search for super heavy elements (SHE).

Keller delivered the inaugural address at the opening session of the International Symposium on Super Heavy Elements in the Senate Room of the University Center.

"Although super heavy elements had been postulated earlier, the current wave of international interest in these elements began in the latter part of the 1960s as a result of predictions of unusual nuclear stability around element 114," Keller said. "Another island of stability was later postulated around element 164.

"The search for super heavy elements has served as the motivation for the development of several techniques for identifying in a definitive fashion a very small number of the atoms of an element," he said.

"Thus, although to date no super heavy elements have been discovered, the possibilities still appear strong; and the motivation generated by the search is, in any case, resulting in definite advances in the techniques of theory and experiment."

An important immediate result of this new field of endeavor, motivated by the search for super heavy elements, has been a much better understanding of the previously poorly understood fission process, he said.

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she/add one

Texas Tech physics Prof. M. A. K. Lodhi is symposium chairperson and delivered opening remarks. The welcome was by Dr. J. Knox Jones Jr., Texas Tech vice president for Research and Graduate Studies. Dr. W. O. Milligan, director of research, Welch Foundation, presided.

Another highlight of the Thursday program was the dinner meeting of the more than 100 scientists at which Dr. Richard C. Atkinson, director of the National Science Foundation, spoke.

Other Thursday sessions dealt with searches for super heavy elements at accelerators and the quest for SHE in nature.

Friday's sessions will deal with theoretical predictions for SHE and atomic phenomena relevant to SHE. Saturday morning's session is on models and techniques pertaining to super heavy elements and the afternoon is devoted to a final plenary session.

The seven-session symposium will continue through Saturday and is bringing some of the world's most outstanding scientists, including two Nobel Laureates and three Bonner Laureates and the director of the National Science Foundation, Dr. Richard C. Atkinson.

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CONTACT: Nita Gilger

LUBBOCK--Four Texas Tech University students recently were awarded the Evelyn Haraway Barr Earth Science Teaching Award, each receiving \$250 on the basis of academic achievement and other criteria.

Charles Barr, Lubbock gemologist and grain broker, presented the awards to Dee Ann Liles, senior secondary education major of Lubbock, Susan Bittick, senior Spanish major of El Paso; Donna Kay Terral, senior mathematics major of New Boston; and Lois Wilkinson, junior secondary education major of Crane.

Barr established the teaching award in honor of his mother, Evelyn Haraway Barr. All of the recipients plan to be earth science teachers.

Barr is a Texas Tech geology graduate.

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ATTN: News Editors

FOR RELEASE MARCH 10

ENERGY ALTERNATIVES FOR WEST TEXAS AND HOW TO UTILIZE THEM WILL BE THE MAJOR TOPICS OF THE "ENERGY OUTLOOK '78" SYMPOSIUM AT THE TEXAS TECH UNIVERSITY CENTER, MARCH 13TH THROUGH 15TH. PROFESSORS, RESEARCHERS AND LEGISLATORS WILL FOCUS ON PROPOSED METHODS TO PUT ENERGY SOURCES TO WORK. TEXAS CONGRESSMAN BOB KRUEGER WILL KEYNOTE THE SYMPOSIUM AT 7 P.M. ON MONDAY WITH A TALK ON "FEDERAL ENERGY LEGISLATION". KRUEGER SERVES ON THE HOUSE FOREIGN COMMERCE COMMITTEE AND ON THE SUBCOMMITTEE ON ENERGY RESEARCH, DEVELOPMENT AND DEMONSTRATION. THE PURPOSE OF THE ENERGY OUTLOOK SYMPOSIUM IS TO INFORM THE PUBLIC ON HOW TO ADAPT ENERGY RESOURCES TO THE WEST TEXAS AREA.

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CONTACT: Roe Burnett

LUBBOCK--A comedy of manners, "School for Scandal," by Richard Brinsley Sheridan, opened Friday (March 10) at the Texas Tech University Theatre and will be presented nightly at 8:15 through Wednesday (March 15).

The eighteenth century classic was first performed in England in 1777. The comedy tells the story of Lady Sneerwell and an unscrupulous band of gossips who toy with the reputations of others.

Two brothers, Charles and Joseph Surface, pursue Maria, the ward of Sir Peter Teazle.

Charles seeks Maria's love and Joseph her money. The two brothers' motives are uncovered when Uncle Oliver Surface arrives. Joseph is exposed as a two-faced schemer and the Sneerwell clan is unmasked.

Cast for the comedy include: Jane D. Burgess from Lubbock as Lady Sneerwell, Doug Cummins from San Antonio as Joseph Surface, Daved Triplett from Dallas as Sir Harry Bumper, Laura Clay from Dallas as Maria, Toni Cobb from Lubbock as Mrs. Candour, Jim Toland from Lubbock as Sir Oliver Surface and Heather Hollingsworth from Lubbock as Lady Teazle.

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school for scandal/add one

Other cast members are Lynn Mathis from Amarillo as Rowley, Alessandro Carrillo from San Antonio as Moses, Vivian Maxwell from Eastland as Maid to Lady Sneerwell, Tommy Culpepper from Plainview as Careless, William Carter from Lubbock as Charles Surface, James Odom from Graham as Uncle Crabtree, Sam Thompson from Lubbock as Sir Benjamin Backbite, Phil Caffey from Lubbock as Snake, Tom Francis from Lubbock as Sir Peter Teazle and David Graham from Sweetwater as Trip.

Tickets are \$2.50 for adults, \$1 for Texas Tech students with ID and \$1.75 for other students. They may be purchased at the University Theatre Box Office. Persons will not be seated after the house closes.

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CONTACT: B. Zeeck

LUBBOCK--Dr. Richard H. Richardson, associate professor of zoology at The University of Texas at Austin, has been elected vice president of the Texas Academy of Sciences (TAS).

The vice president automatically succeeds to the offices of president-elect and president.

Results of an election by mail were announced at the TAS Executive Council Session starting the March 9-11 81st annual meeting at Texas Tech University.

Newly elected directors include Dr. Ann Benham, The University of Texas at Arlington, and Dr. William Clark, Texas A&M University. They succeed retiring directors William K. Davis, Southwest Texas State University, and Robert Boyer, Austin.

The new president is Dr. J. D. McCullough, Stephen F. Austin University. The president-elect is Dr. James L. Poirot, North Texas State University. Poirot is program chairman for the 1978 meeting.

Dr. James R. Underwood Jr., Kansas State University, Manhattan, is the retiring president and will serve in the position of past president. Re-elected were Secretary-Treasurer Everett D. Wilson, Sam Houston State University; "Texas Journal of Science" Managing

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tas/add one

Editor Michael Carlo, Angelo State University; and Manuscript
Editor Ronald Gerald Vela, North Texas State University, Denton.

Herbert H. Hannan, Southwest Texas State University, is the
retiring past president.

Voted honorary life fellows of the academy were Drs. Underwood
and Fannie Hurst, who served on the biology faculty of Baylor
University until her retirement last year. Underwood has served
the academy as president and Hurst for many years provided leadership
for the Junior Academy of Science in Texas, serving high school
students.

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CONTACT: Nita Gilger

LUBBOCK--Hundreds of Texas Tech University students browsed through the University Center for Career Day, Wednesday (March 8), to ask questions and look for job opportunities.

The Texas Tech Career Planning and Placement Service sponsored the event to provide information about careers, employment outlooks, salaries and the use of the placement services. Students talked to employers and representatives from 25 businesses, industries and government agencies.

"Career Day gives the students a chance to ask important questions about a job without the pressure of an interview," Truman T. Bell, interim director of Career Planning and Placement Service, said.

Bell also said the day was for freshmen through seniors and in some cases the information helps students in choosing a career.

Career Day is a successful way to provide job information and help students in planning for their futures, Bell added.

CONTACT: Dan Tarpley

LUBBOCK--For those non-scientists who have a natural curiosity *about* ~~about what an atom is made of~~ how physicists know what atoms are made of get their chance ~~Monday~~ Tuesday (March 7) night.

Dr. Walter E. Meyerhof, professor of physics and former chairman at Stanford University, will deliver a lecture-demonstration in Room 57, Science Building, ~~at~~ Texas Tech University, 7:30 p.m.

His subject is "How Do Physicists Know What Atoms Are Made of?" *the lecture* and ~~it~~ will be delivered in such a way that laymen can understand it. It is free and the public is invited to attend.

Meyerhof will present three other lectures to physics students and faculty on campus while serving as a visiting professor, then participate in the International Symposium on Super Heavy Elements *b* at Texas Tech ~~Wednesday~~ Tuesday-Saturday (March 8-11).

"I feel that scientists have an obligation to explain to the public what they are doing. We must try to explain, even though we may not always succeed," Dr. Meyerhof said.

Most of the scientific research work is done at the ~~the~~ public expense, he explains, either through tax money, donations or industry support. for those reasons, he said, scientists owe it to the public to try to inform them what they are ~~doing~~ ~~doing~~

doing and why.

Meyerhof said in his demonstrations he will show how collisions of atoms resemble collisions of billiard balls or marbles only on a smaller scale and from those collisions how they determine what *atoms are made of.* ~~actually happens in such atomic collisions.~~

Dr. Meyerhof's popularized lecture has met with wide acceptance and the Lubbock public is expected to find the lecture-demonstration helpful and educational.

During recent years Dr. Meyerhof has turned his attention to neutron producing reactions in order to study threshold effects^{E/} in certain nuclear reactions. He is presently engaged in atomic collision studies to determine the possibility of the innermost electronic shells being filled by emission of positrons rather than x-rays. Along with experimental work, Dr. Meyerhof has made related theoretical calculations.

During his stay on ~~campus~~ campus Prof. Meyerhof will be available for consultation with students and faculty.