

# The Windmill

Back-to-school issue

Vol. VII, No. 1 Sept. 1980

See  
inside

## **There's swimming, jogging, weight lifting, dancing, and more**

by Nita Runnels

UTPB students can improve their bodies or just have a good time with the athletic facilities and programs offered by the student life office.

**Woody Kupper**, director of student life and athletics, says the most popular facility of the campus for students and the community is the gymnasium-pool complex.

The complex has indoor and outdoor tennis and racquetball courts, two basketball floors, and an exercise room with dance bars and mirrors, floor mats for calisthenics lovers and a Universal Gym for weightlifters. The Olympic-size swimming pool opens in March and stays open until inclement weather sets in. Locker rooms and showers are also provided.

**Kupper** says any student can use the athletic facilities merely by presenting a valid student ID card. Families of students can also use the gymnasium and pool by buying spouse or family memberships at \$6 per person or a maximum of \$24 per family.

Student ID's may also be used for reduced or free admission to community theaters in Odessa and Midland and civic concerts in both cities. Students are also admitted free to all Coffeehouse presentations, speaker's series lectures, dances and other UTPB functions.

The student life office also coordinates the intramural sports program. Both team and individual sports are scheduled. **Kupper** notes, "We annually schedule three mile and one mile 'fun runs' for joggers." The events start at the gymnasium and follow the two miles of campus drives and the new 9/10 mile running track beside the gym.

Flag football, trap and skeet shooting, basketball and softball are also slated each year. Clubs and organizations are the main participants in the programs.

For individual competition, **Kupper** and his staff plan tennis, racquetball and badminton tournaments.

**Information** about athletic facilities and the intramural sports program can be obtained by contacting **Kupper** in the student life office in the gymnasium or calling him at 367-2136.



## **Howdy Bar-B-Q, dance, coffeehouse fare slated**

by Debbie Bennett

Students will be welcomed back to campus on the second day of registration by the tempting smell of barbecue, and then will have a chance to taste by coming to the "Howdy Barbecue" scheduled for 8 p.m., Sept. 3 in the UTPB courtyard.

Coordinator of student activities, **Pat Jones**, explained that the barbecue supper is just a way of welcoming new students and returning students back to school for the fall.

"The menu will include barbecued and smoked sausage, corn on the cob, beans, tea, soft drinks, bread and ice cream for dessert," she noted.

"We will be cooking outside all day Tuesday. The savory aroma of the barbecue may get stomachs churning all day during registration, but hopefully that will get everyone to come back to eat at 8 p.m.," she stated.

**Jones** noted another event to be scheduled during the first week of school includes a Country and Western Dance slated for 9-12 p.m. Friday, Sept. 5 in the student lounge. The Sandyland Swing Band from South Plains College in Levelland will be performing.

"During the dance, prizes will be given away for the best dancers and the most appropriately dressed," **Jones** noted.

**Other events** scheduled during September and sponsored by the Student Activities office include a Coffeehouse performance on Saturday, Sept. 13 at 8 p.m., with **Mike Williams** performing.

"Mike's ability to relate to the audience in an easy going manner through his stories and songs makes him one of our best coffeehouse entertainers," **Jones** stated. The entertainment is free of charge to students, faculty and staff and a \$2 for other guests.

On Saturday, Sept. 27, **Lindsey Haisley** will be the guest performer in the Coffeehouse at 8 p.m. **Jones** noted that the singer-story teller accompanies himself on the guitar, the Indian Banjo and the electric autoharp. "An award winner for his performance style and songwriting, **Haisley** has proven himself to be a unique artist," said **Jones**. He has opened shows for such notables as **B. W. Stevenson**, **Doug Kershaw**, **Alvin Crow**, **John Hartford**, **St. Elmo's Fire** and others.

## **Senate election on tap Sept. 18-19**

**Student Senate** elections will also take place in September, she noted. Scheduled for Sept. 18-19, anyone interested in serving as a student senator should pick up an application form in the Student Senate office located near the student activities office in the student lounge.

**Jones** stated that students will have an opportunity to campaign for the senate office. "Students are encouraged to make posters and schedule meetings with students to state their views on serving as a student senator for the university," she noted.

"The clubs and organizations at UTPB can meet almost any area of interest that a student could be looking for," says Woody Kupper, director of student life and athletics.

The clubs and organizations augment and compliment classroom experience and bring students and faculty members closer together for both classwork and fellowship. Kupper says the social environment is just as important as the academic learning environment.

The offices of student activities and student life supervise and coordinate the activities of all the clubs and organizations on campus. Pat Jones, coordinator of student activities, says her job is to help organize the groups, assist them in getting money and make arrangements for special exhibits and speakers.

Kupper explains that the clubs and organizations are formed by students with similar interests. The students, along with a faculty advisor, then go to the student life office for the registration process. There they receive a handbook with the details for becoming an official organization of the university. Once this is done, Kupper says the club can use university equipment and facilities, stage fund-raising activities on campus and receive financial support from the student services budget.

Jones gave a brief summary of the activities and functions of each club. The first organization is the **University Accounting Association**. Sponsored by Prof. Linda Felts, accountancy, this group is probably the largest on campus. Anyone may join, but accounting majors make up the bulk of the club. Job listings, income tax assistance and other projects make the club highly visible on campus.

The **American Chemical Society**, sponsored by Prof. Robert Howard, chemistry, presents guest speakers and lecturers each year. Primarily, earth science and life science majors make up the club.

Anthropology and sociology majors may join the **Anthropology and Sociology Club**. Prof. Gordon Bronitsky, anthropology, takes the group on archaeological digs each year. The organization also presents guest speakers, arranges exhibitions and sponsors a flintmaking lecture.

Art lovers are invited to join the **University Art Association**. Monthly art exhibits and a number of art sales are the main interests of art club members. Prof. Pamela Price, art, sponsors the group.

## Student clubs and organizations have what you're looking for

The **Chinese Students Association** is one of several foreign students clubs. Students and members of the community meet monthly for Chinese food and Chinese movies. Vickie Gomez, admissions, is the faculty advisor.

The **drama club**, also known as "**The Great Pretenders**", is sponsored by Prof. Robert Rothstein, chairman of mass communications. Anyone may participate in the campus productions, Coffee-house presentations and community theatre productions available to members.

The forensic team is composed of mass communications students who compete in dramatic interpretation contests. Team members also judge high school and junior college competitions. Pat Jones, student activities, is one of the coaches for the team.

Rockhounds may be interested in the **Geology Club**. Prof. Pamela Muller, earth science, and the group have traveled to the Guadalupe Mountains and gone on other field trips with the Southwest Association of Student Geological Societies. The club sponsors many guest speakers and makes geological surveys of the West Texas area.

The **Indian Students Association** is another foreign students club. Its members also have social gatherings during which they eat Indian food and watch Indian films.

(cont. on pg. 7)



These youngsters were among the elementary students participating in a special math-science enrichment project in UTPB's lab demonstration school this summer. Some 50 elementary teachers who participated in the project have taken new ideas and materials into their classes this fall as a result of the project, which was funded by the National Science Foundation.

# Research: develops interests of stu

by Debbie Bennett

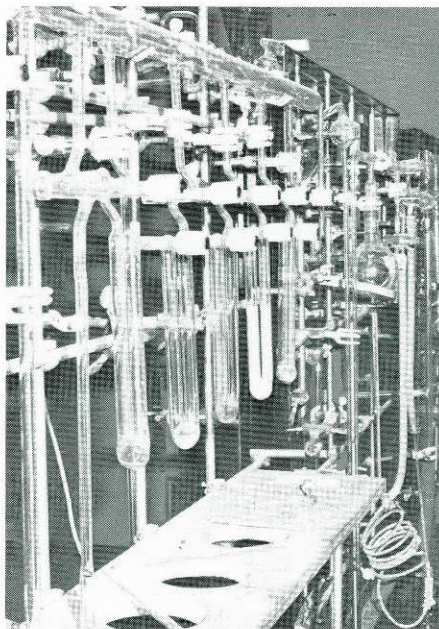
Research is common in educational settings, but at The University of Texas of the Permian Basin, two chemistry professors think that if students are also actively engaged in research, their interest in chemistry will increase.

And according to chemistry professor **Michael Robinson**, since chemistry is a chance to try ideas or discover something new, it's important for the students to have that chance.

Many practical projects are going on now at UTPB under the direction of the two professors. Robinson has several research projects he is working on at the present time. Along with students, Robinson is working on a new way to convert biomass-energy into a conventional liquid fuel; a synthesis method to produce an anti-tumor compound; and a method to assay precious metals and processing raw ore (such as gold) into a refined state.

On the other hand, chemistry professor, **Robert Howard**, is simulating chemical reactions through the use of a computer system, a relatively new field.

Both professors work with chemistry students on the projects-giving the undergraduate and the graduate students experience in research techniques.



**"INVOLVING STUDENTS IN RESEARCH NOT ONLY GIVES THE STUDENT EXPERIENCE, BUT ENHANCES THE PERSON'S INTEREST IN CHEMISTRY," STATED ROBINSON.**

Both professors explained that the research they are doing is highly technical, and because of the low-faculty student ratio, the faculty is able to work closely with the research they would not have the opportunity to do at a larger university even at the graduate level," Howard stated.

Rather than participating in the typical laboratory experiment, where the test results are known, students are able to look for answers to problems that are not always there. "In doing this type of research, students don't know what to expect or what the answer should be or will be. There is no pat answer. Students are discovering new things, and verifying the data they have found," Howard explained.

**Howard stated** that he and his students are using computers to study how energy is released as an atom strikes a molecule. "For example, we can track an atom as it hits a molecule just like we can track a missile as it heads towards its target. By calculating the results of many atom-molecule collisions, we can tell how energy is released. There are many potential energy-related applications with LASERS built using these reactions. But perhaps the greatest application may be an understanding of combustion. It's surprising how little we know even about the chemistry in a candle flame."

The professor explained that another benefit is that it is easier to simulate some reactions than to study them in a lab. He noted that it would be nearly impossible to do experiments to study the chemistry of the protective layers of ozone in the upper atmosphere or of the small molecules in interstellar space.

**Howard explained** that the computer used is connected to a Regional Computer Center in Dallas that serves some of the other UT System schools and health centers. "Students using the computer, as well as conducting other research, bring their skills in math, chemistry, physics and computer science together," he explained.

Robinson is also working on an energy project with a practical application. He said that the primary purpose

of the experiment is to convert a biomass, such as plants or fertilizer, into a burnable gasoline. "The real cost in converting biomass, such as plants and fertilizer, into fuel, is the distillation process, or getting the water out. What we are trying to do is convert sugars directly to hydrocarbons, so the distillation process will not be a problem," he stated.

**Robinson stated** the project is so big it was difficult to get funding without giving the secret formula away. "Fortunately, I was granted partial research appointment so I could put more time and effort into the research," he stated. "Although I have several projects going on, I'm particularly interested in the gas project because it could have such a great impact on the gasoline industry in the future," he explained.

Another research project Robinson is working on involves a new synthesis method. "Unlike the other projects, this research delves into three types of chemistry: organic, synthetic, and medicinal chemistry," he explained, adding that few students get to do research of this type because of the



**James McMinn**, a math-chemistry senior from C for a biomass conversion research project in c conducted in the College of Science and Engineer

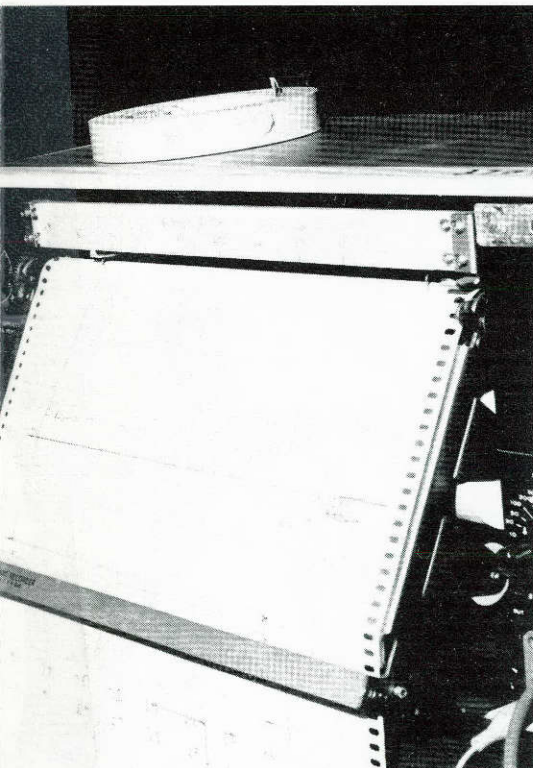
# udent & community

scarcity of medicinal chemistry in most undergraduate programs." Robinson noted that synthesis method involves a pyridine synthesis, hopefully to be developed into an anti tumor compound.

Students are also involved in a research project trying a new assay of precious metals, under Robinson's leadership. "I have received gold ore from several states and countries to use in our research and in turn we let the sender know how precious his gold ore is after its value is determined," he explained.

Both Robinson and Howard have other theories they would like to research, but with their teaching load, little time is left. Since both professors work closely together, each project is an on-going learning experience.

"Although we both hope to develop new ideas through research, the most rewarding part of being a researcher and instructor is knowing through involving students in the research, their interest is keener and they hopefully will continue with research after graduation," Robinson stated.



rand Falls, examines a readout to obtain data chemistry. The project is one of several being ing.

## IN AN AGE OF DEPLETING ENERGY RESOURCES, SCIENTISTS ARE REACHING OUT FOR NEW POWER SOURCES AND TAKING A NEW LOOK AT THE OLD STANDBY'S.

Dr. David Eggleston, professor and chairman of control engineering has long had an interest in alternate energy resources, but his most recent research projects have centered around wind energy. Next to solar energy, it is perhaps the most plentiful source in West Texas— and not likely to be depleted in the near future.

Eggleston is working on two projects, both joint projects of UTPB and Texas Electric Service Company (TESCO). One project involves using wind energy to supplement electrical power, and the other to supplement internal combustion power in automobiles.

The electrical power project, funded by a grant of approximately \$3500 from TESCO, is a year-long study to find out how much power is available in this area, what kind of problems might be encountered with the development of wind power, and how wind power could be used in Texas with existing electrical generating facilities.

"This is entirely a research project. The amount of power gathered will be relatively small. We'll be looking at wind speed and the amount of electrical power that can be obtained from the wind at a TESCO site near Monahans," Eggleston said.

"WE'D LIKE TO FIND OUT IF IT IS ECONOMICALLY FEASIBLE TO GATHER SOME PORTION OF THE ELECTRICAL POWER IN THIS AREA FROM THE WIND," HE CONTINUED.

He said he and several control engineering students will be logging wind data for the coming year. "We hope the project will continue after that," he said.

Bill Griffin, Odessa manager for TESCO, said the new project is one of many in which alternate energy sources are studied both from an economic and operational standpoint.

"We have had studies on the possibility of using solar power to produce steam. We've also looked at ways of using solar power at business and residential sites rather than at the plant. These combine with research on nuclear power, lignite coal and other sources," he said.

Griffin said TESCO likes to use area colleges and universities to conduct research when possible. "We feel this gives us a fresh approach and a great deal of expertise at a reasonable cost," he said. He noted projects have been conducted with UT Austin, UT Arlington, and Odessa College as well as UTPB.

Another UTPB project, made possible by a gift of a 1975 Ford Pinto from TESCO's car fleet, is testing the use of wind to augment the propulsion of an automobile.

Eggleston and his students built a wing, which was attached to the roof of a car to increase the gas mileage.

"Under ideal conditions, a lightweight car might even cruise with the power of wind energy alone," he said.

"Of course that's a small car and a strong tail wind. The larger the car, the smaller the effect," he added. "A 3,000-4,000 pound car will not likely respond well."

He noted several problems are being studied in the project. "Wind gusts can blow the car around, or possibly even tip it over," he said.

He says the car sail is too far out for a car manufacturer to consider right now, but wind energy could be practical for travel in the future. As for wind-powered electrical energy, Eggleston says it may be developed to provide supplemental power to homes by the year 2,000.

### THE WINDMILL

Published monthly when classes are in session by The University of Texas of the Permian Basin News and Information Service, Odessa, Texas 79762. Distributed free to students, staff, faculty, alumni and friends of the university.

Managing Editor . . . . Leland Martin  
Associate Editor . . . . Debbie Bennett  
Typists . . . . . Suzanne Reyes  
Anne Roney  
Photographer . . . . . Linda Sharlow

## **Innovation is 'nothing new' to A & E dean**

Despite the fact that he moved from an urban area larger than Houston, Dallas and Fort Worth combined, it was the similarities between UTPB and Prahran College in Melbourne, Australia that attracted the new dean of arts and education, **William Tanksley**, to Odessa.

Prahran College, with a student population of 6000, is located in a downtown area of Melbourne. Until about 10 years ago Prahran was a technical school. It was in about 1969 (the same year UTPB was authorized by the Texas legislature) that the Australian government came up with a new scheme in education which included the development of colleges of advanced education. These colleges were designed to produce practitioners and stress practical application, whereas the universities would remain more theory and research oriented.

When Prahran became a college for advanced education, there followed a period of development—a period much like the first few years of development at UTPB. "Not only was Prahran involved in a new educational concept, but like UTPB, it took a less traditional approach to that development.

"Other colleges of advanced studies in the area had a tendency to pattern themselves after the established universities and were more cautious, but Prahran became more involved in innovation, particularly in ethnic and community affairs," he said.

"When you favor change or innovation, you risk making mistakes, but I believe it is a risk worth taking. On the balance, it is to your advantage, and to the advantage of the students and to the advantage of the community to take these risks," he said, noting the success of a creative writing program as well as programs in Greek and Jewish studies, which were unique to Prahran.

**Tanksley, who** is excited about Prahran's development, said his decision to move back to the United States was prompted by the opportunities at UTPB.

"I was really lucky. The odds were probably against my moving to a place somewhat like Prahran in terms of development and innovation," he said.

Tanksley has four children who are anxious to return to schools in the United States. In Australia, they felt

on display as Americans, and they found educational opportunities were limited especially for women," he added.

Tanksley, who served as dean of the school of\* general studies at Prahran College for the past two years, played a central role in reorganizing the school along American lines.

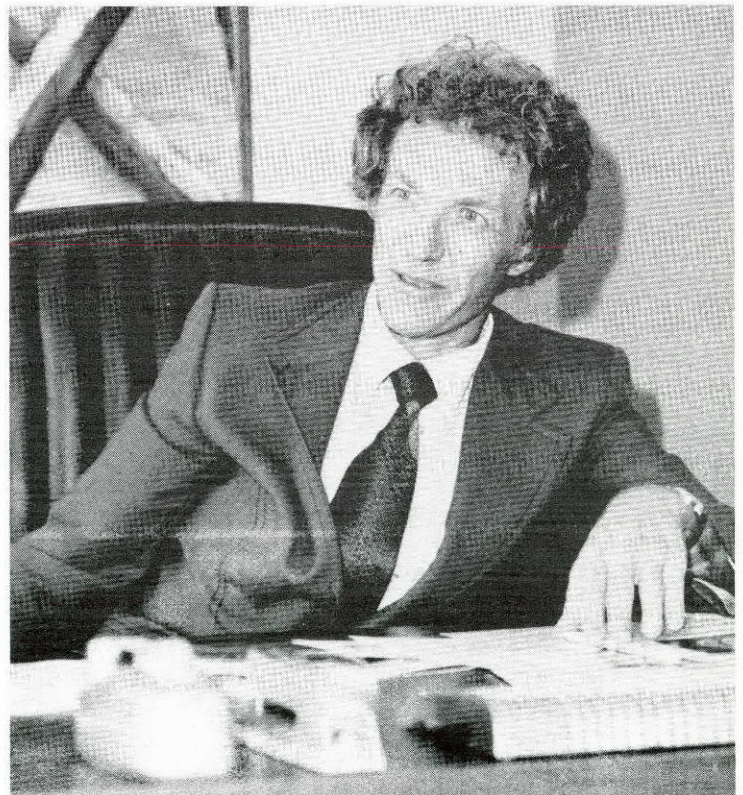
Prior to moving to Australia, he served as associate professor of English at the State University of New York in Brockport, N.Y. from 1974-1978; as assistant professor of English at Idaho State University from 1972-1974; and assistant professor of English at Bemidji State University in Minnesota from 1970-1972.

He received his B. A. from Gonzaga University in 1963; and his M. A. and Ph.D. from the University of Illinois in 1966 and 1969.

**Tanksley replaces** Dick L. Chappell who has been serving as acting dean of the College of Arts and Education since 1977. Chappell will resume duties as Director of Learning Resources and Instructional Services.

**'When you favor change or innovation, you risk making mistakes, but I believe it is a risk worth taking...'**

**Dean William Tanksley**



## Regents appoint Cone, Shafer to Development Board

A doctor and a lawyer from Odessa were recently appointed by the University of Texas System Board of Regents to serve on The University of Texas of the Permian Basin Development Board. The two join 18 other Permian Basin residents on the board.

**Dr. J. D. Cone** has previous experience as a university advisor. He was a member of the Abilene Christian University Board of Advisors. In Odessa, he has been Rotary Club president and a director of the President's Museum, Odessa Christian School and Home Savings and Loan. Cone is an active member of numerous medical societies and associations.

Also appointed to the UTPB Development Board was **W. O. Shafer**, an Odessa lawyer. He has been a justice of the peace, county attorney, district attorney and private attorney in Odessa and Ector county. He was named Odessa's Outstanding Citizen by the American Business Clubs in 1967 and has received several awards for outstanding work in the Chamber of Commerce.

The Development Board advises the UTPB president with respect to community relations, assists in informing the public about the university and its work, and assists the president and his staff in securing gifts and other funds for the university.

Cone and Shafer join the other members of the board which includes **H. Eugene Abbott**, president of Abbott Development Co.; **William B. Blakemore II**, independent oil operator and rancher; **Claude W. Brown**, chairman of the board of Security State Bank in McCamey; **Ignacio Cisneros**, president of Star Adair Insulation Co.; **John A. Currie**, president of State National Bank in Big Spring; **J. Conrad Dunagan**, chairman of the board of Permian Coca-Cola Bottling Co. in Monahans; **Mel Z. Gilbert**, general manager of Snyder Broadcasting Co. in Snyder; **Ray F. Herndon**, vice president and general manager of Midessa Television Co., Inc; **John J. Ingram, Jr.**, business manager of Julian Gold, Inc.

**W. D. Noel**, president of El Paso Products Co.; **Herschel O'Kelley**, president of Rendova Oil Co.; **Charles R. Perry**, president of Perry Gas Companies; **Joe Pickle**, retired editor of the *Big*

*Spring Herald*; **James Roberts**, publisher of the *Andrews County News*; **Louis Rochester**, chairman of the board of Murphy and Rochester, Inc.; **W. F. Roden**, president of HNG Oil Company; **Mrs. Charlotte Slack** of Pecos; and **Mrs. Ingrid Zeeck**, Odessa community leader.

## Appointments, promotions, tenure revealed

When the fall semester begins, UTPB will have one new full-time faculty member and several adjunct professors.

The College of Arts and Education has the only new full-time instructor. **Donna Lee Crabtree**, speech and theatre, comes from California where she has been teaching at Ohlone Community College in Fremont. She has also taught at Red Bluff Union High School and the University of California at Santa Barbara. Crabtree holds a B.A. in English from the University of California at Berkeley and both her M.A. and Ph.D. in dramatic arts from UC Santa Barbara. She has both acted in and directed several productions.

The College of Science and Engineering will have three adjunct professors. **Richard Coons**, manager of exploration technology for Gulf Oil Corporation, will teach a graduate level course in geophysics. He holds a B.S. and Ph.D. from the University of Wisconsin.

**Richard V. Case** is a biological chemist and enzymologist in private business in Midland. He received a B.S. from Lawrence University in Appleton, Wis., and a Ph.D. from Marquette University in Milwaukee.

**Stella Loftis** is a UTPB graduate with a B.S. and M.S. in life science. She will teach classes in microbiology and immunology.

The UT System Board of Regents recently approved promotions for three UTPB faculty members and granted term tenure to nine others.

**Prof. Munro Shintani** was promoted from associate professor to professor of special education. Promoted from assistant to associate professor were **Prof. Donald M. Allen**, life science, and **Prof. Frank N. Samponaro**, history.

Professors receiving seven-year tenure were **Prof. Douglas F. Hale**, mathematics; **Prof. Paul E. Hodges**, economics; **Prof. David M. Eggleston**, engineering;

**Prof. Horace Bledsoe**, physics; **Prof. Stanley E. Marcus**, art; **Prof. James C. Tillapaugh**, history; **Prof. Russell H. Johnson**, pedagogical studies; **Prof. G. Peter Ienatsch**, pedagogical studies; and **Prof. Thomas Dynneson**, pedagogical studies. UTPB's term tenure plan provides that following a period of probationary service, a faculty member gains a seven-year contract.

## Business conference scheduled

Women in business will be the topic of a conference sponsored by the Faculty of Accountancy and Information Systems at UTPB Sept. 12-13.

**Prof. Linda Felts**, accountancy, noted the two-day conference is designed for women involved in business and professional organizations, women entering or returning to business and professional organizations and women concerned with their role in business and professional organizations.

Nine three-member panels composed of professionals in various fields will discuss the role of women in their businesses. Accounting, banking, business education, law, marketing, oil and gas, not-for-profit organizations, personnel management and stock brokerage will be discussed by the panels. Workshops on preparing resumes and interviewing for jobs will also be included in the conference.

Keynote speakers are **Prof. Eugene Nini**, chairman of accountancy at UTPB, and **Dr. Duane Hoover**, associate professor of management and organizational development at Texas Tech University.

Nini has presented programs and seminars on leadership to numerous clubs, organizations and business firms both locally and nationally. He will speak on the leadership capabilities of women.

**Hoover**, who has also coordinated several similar workshops for women, will explore "Strategies and Tactics for Organizational Success: Guidelines for the Working Woman."

The cost of the conference is \$100 per participant, which includes all conference sessions, a catered lunch each day and refreshments throughout the conference. More information is available from Felts at 367-2182.

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Prof. Munro Shintani, pedagogical studies, advises the **Japanese Students Association**. Japanese food and movies are the featured events at the meetings of this new organization.

The **University Marketing and Management Association** meets at the Pizza Hut on University Blvd. Prof. Farrand Hadaway, marketing and management, is the faculty advisor of the group. Members sponsor guest speakers, seminars and programs for job interviewing techniques.

The **Mexican American Student Association's** biggest project is "Tertulia". Every Tuesday at 12:30 p.m. in the Devonian Room, Prof. Genaro Perez, Spanish, and club members meet to help students in speaking Spanish.

The **Pre-Law Society** is for government majors only. Prof. Edwin Stuart, finance and management, sponsors the organization.

Mass communications students are members of the **Press Club**. The organization arranges the annual Press Day for high school and junior college students. Rothstein sponsors the club and the student publications, THE WATERWELL and THE SANDSTORM.

Psychology majors may be invited to join the UTPB chapter of **Psi Chi**, the honor society for psychology students. Only honor students may join the group sponsored by Prof. James Olson, psychology.

Anyone is eligible to join the **Psychology Club**. Prof. Larry Minter, psychology, is the faculty advisor of the club.

The largest organization of the university is the **Student Alumni Association**. Any former student, whether or not he received a degree, is eligible to join the group. Annual dues are \$10 and entitle members to student ID privileges. Alumni sponsor the annual "Night of Celebration" awards banquet and present a \$200 scholarship each year.

The **Student Senate** is the voice of the student body. Fifteen members and two officers are chosen to represent the students in programming activities, allocating student services fees and making policy decisions. Applications for Student Senate positions may be obtained in the office of student activities.

**UTPB's championship tennis team** is the only intercollegiate sports team on campus. Full scholarships are given to all team members. An award winning

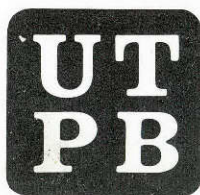
chili team, bake sale and tennis competition keep the team busy.

The last organization is the **United Campus Ministry**. Organized by the religious community, the group brings students together for lunch one day each week to discuss topics of interest. Dr. James L. Caldwell is the minister for both UTPB and Odessa College.

Kupper adds that a computer and processing club and an alumni chapter of Phi Theta Kappa, the national junior college honorary society, are being formed. He requests that anyone interested in joining a club or in forming one contact him at the student life office located in the gymnasium or call him at 367-2136. A complete list of clubs and organizations is available from his office.

## Hon. Jay Gibson to speak on campus

**Jay Gibson**, member, Texas House of Representative for District 73, will speak to the Psychological Association of Greater West Texas at 7:30 p.m., Tuesday, (Sept. 9) in the UTPB student lounge. The topic of discussion will be "The Interaction of Psychology and the Law." The meeting is free and open to the public.



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The University of Texas  
of the Permian Basin  
Odessa, Texas 79762

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U. S. Postage Paid  
Permit No. 20  
Odessa, Texas