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CONTACT: News and Publications

1-6-15-87

LUBBOCK -- More than 1,500 students at Texas Tech University received degrees in spring 1987 commencement exercises.

Degree recipients included:



CONTACT: K. Hopper

2-6-15-87

LUBBOCK--Wayne C. Hobbs, of Western Kentucky University in Bowling Green, has been named chairman of the Department of Music at Texas Tech University.

Hobbs, who will begin his post July 15, replaces Harold Luce who served as Texas Tech Music Department chairman from 1973 through May of this year. Luce accepted a dean's position at the College of Fine Arts at the University of Southern Mississippi in Hattiesburg.

Since 1975 Hobbs served as department chairman and professor of music at Western Kentucky University, and he previously taught at the University of New Orleans and at New Orleans Baptist Theological Seminary. He holds a doctorate in musicology with specialties in early baroque and American music from Tulane University. He received a master's degree in choral conducting and organ from the New Orleans Baptist Theological Seminary and a bachelor's degree in choral music education from Florida State University.

Hobbs has served in various positions with the National Association of Schools of Music. He was president of the Kentucky Arts Administrators from 1984-85 and of the Kentucky Association of College Music Departments from 1980-82.

As a member of the Kentucky Tomorrow Culture and Arts Committee from 1984-86, Hobbs was one of 17 members appointed statewide by the lieutenant governor to plan for the future of Kentucky.

Hobbs has published choral editions, arrangements and reviews, articles and textbook chapters. His current research interests include a project to develop new procedures and materials for teaching music to undergraduate students.

# TexasTech News

## AFTER HOURS CALL:

Joe Sanders, Director, (806) 742-2235  
Preston Lewis, Manager, News Bureau, (806) 745-1718  
Dorothy Power, Manager, Broadcast Bureau, (806) 745-4493

TEXAS TECH UNIVERSITY/TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER  
NEWS AND PUBLICATIONS/P.O. BOX 4640/LUBBOCK, TEXAS 79409/(806) 742-2136

CONTACT: Joe Sanders

3-6-16-87

Robert F. (Bob) Brown of Lamesa has accepted an appointment to the Texas Tech University Athletic Council.

The appointment to the three-year term was made by Tech President Lauro Cavazos.

The nine-member Council advises the board of regents and president of Texas Tech on athletic policy and operation. It reviews enforcement of eligibility rules and matters affecting membership in the Southwest Conference and the National Collegiate Athletic Association (NCAA).

Brown also serves on the board of governors of the Red Raider Club, which raises scholarship funds for the Tech athletic program. He is a 1959 graduate of the university.



CONTACT: Beverly Taylor

6-6-17-87

REQUESTED RELEASE: June 21

LUBBOCK -- Spaces are still available for the first summer session of tutoring at the Texas Tech University Reading Laboratory.

Children, including high school students, can enroll in the program which includes initial diagnosis of reading difficulties and individual tutoring sessions with advanced undergraduate students and graduate students in reading education.

Reading Lab director Lester G. Butler said schedules can be worked out with new clients although the first summer session has already begun. The fee for new clients will be \$120, including \$20 for the initial diagnosis. Most clients will see a tutor three times a week until July 8.

Schedules can also be arranged for individuals to see a tutor only two times a week at a lower cost.

Butler said tutors arrange individualized plans for each client after the nature of the reading problem is determined. The program emphasizes developing reading skills, love for reading and self-confidence.

He said students often improve their reading ability during only a few hours of instruction.

The Reading Lab is located in the Administration/Education Building, Room 233. For more information, call 742-2397.



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CONTACT: Marydawn Webber

7-6-18-87

LUBBOCK -- Federal law officers will benefit from more efficient and effective training and testing techniques due to a technological fine-tuning effort by Texas Tech University scholars.

A "first-of-its-kind" automated testing system for the Federal Law Enforcement Training Center at Glynco, Ga., was completed this month, culminating a year's worth of collaboration between computer science and engineering faculty members and students at the university.

The newly designed system is the first to be totally integrated to provide complete analysis and feedback on course and testing materials for the training center, according to Dr. Kathleen Hennessey, director of the Institute for Studies in Organizational Automation.

Designed into a PC/AT computer under the Xenix operating system using C computer language, the entire system, including software and laser printer, was installed at a cost under \$15,000.

Since the system was designed under a federal government grant, other government agencies will be able to utilize the program.

The totally integrated system allows course planners to change topic modules for individual courses, enter testing questions for each topic and analyze test results.

According to Hennessey, the computer is capable of evaluating the testing and training procedures in three ways: through the performance of the students, performance of instructors and analysis of the questions themselves. Alternative answers to each question are evaluated (distractor analysis) as well as the performance of individual questions on the test as a whole (discriminant analysis).

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Based on information about test performance, course planners can adapt test materials, course topics or teaching techniques, allowing for changes in inadequate areas.

The facility trains 20,000 federal officers of the FBI, U.S. Treasury Department, IRS and state and federal prosecutors each year.

"Most (testing systems) scan and grade tests and sometimes keep a grade book of student records. This is a first of its kind where course planners are automatically included in the feedback loop," Hennessey said.

Previously, all tests were prepared by typists and answer sheets were graded by hand. Class test scores were prepared by hand and analysis of test performance, sometimes called "item tracking," was not done unless specific problems with a question were reported.

The system is based on an original design concept by Carlton Fitzpatrick, director of the FLETC's Computer Fraud and Data Processing Investigations Training Program, augmented by Jim Humphlett, manager of the Testing Services Unit. Work on the system was carried out under the direction of Doug Zwank, FLETC's information services administrator.

Collaborating on the design were Hennessey, Dr. Paul Randolph, who contributed statistical algorithms; David Wilson, a computer science intern; and graduate students Kwang Soo Hahn, computer science, industrial and electrical engineering research associate; Kim You Mau, computer science research assistant; Zulfiqar Rashid, management informational systems research assistant; and Youling Lin, MIS visiting scholar.



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CONTACT: Marydawn Webber

8-6-18-87

LUBBOCK -- Two Texas Tech University professors will be among top academicians in the field of computer research participating in the first International Conference on Neural Networks, June 21-24 in San Diego, Calif.

The conference is touted as the largest world-wide gathering on Neural Networks, the study of artificial intelligence in computer designs. Participants in the inaugural event will include professionals in industry, academia and government.

Dr. Kathleen Hennessey, director of TTU's Institute for Studies in Organizational Automation, and Visiting Professor of Engineering Technology Earl Farley, were invited to present their paper "The Gamma Network as an Interconnection Architecture for Neural Networks."

The strategy is a way of implementing neural network patterns, similar to the brain's neural system, onto electronic networks, according to Hennessey.

Just as the human brain learns and perceives things through a network of patterns fired by neurons, Hennessey said, "Now we find neurons have properties in that they can change the conditions under which they fire. This is very important in Artificial Intelligence."

How do you build something which can change instructions? Hennessey says the key lies in neurons.

"Neurons can. We want to build networks that behave like the neuron system.

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"This is a very rapidly developing area and we're so pleased to be included with leading people in the field," Hennessey said.

Hennessey and Farley are also working on use of neural networks to provide dynamic VLSI (Very Large Scale Integration) process rescheduling facilities for Texas manufacturers.

Their work, in collaboration with professors Milton Smith and Richard Dudek in the Department of Industrial Engineering, involves effective computer chip manufacturing in adapting a scheduling strategy to meet deadlines, keep within cost limits and make effective use of equipment. The study is expected to be complete in August.

Sessions presented at the conference will include Network Architectures, Learning Algorithms, Self-Organization, Cooperative and Competitive Network Dynamics, Knowledge Processing, Speech Recognition and Synthesis, Robotics and Novel Applications.

CONTACT: K. Hopper

9-6-18-87

LUBBOCK -- As legislators battle the budget in special session starting Monday, they may want to consider that a majority of Texans think that balancing the state budget is important, but not by cutting higher education funds or by taking money directly from taxpayers' own pockets.

Nearly 94 percent of the 400 Texans polled by the Institute for Communications Research at Texas Tech University said that balancing the budget is important, very important or extremely important.

Although about 69 percent of the sample said the state should cut overall spending to balance the budget, respondents do not want the cuts to come from the state's colleges and universities. Almost 79 percent oppose further cuts in higher education expenditures in Texas.

Texans also are opposed to tax increases as a budget balancing measure. More than three-fourths of those interviewed disagreed that the state should levy an income tax. Increasing the sales tax finds more support among Texans. Slightly more than 40 percent of the sample said they agreed the sales tax should be increased. However, 53 percent voiced disagreement with that option.

While Texans are generally opposed to solving the state's budget problems directly from their own pockets, they are willing to gamble on the state. More than 68 percent of the sample are in favor of establishing a state lottery. Nearly 60 percent of the sample said they agreed the state should legalize horse or dog race betting.



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By Beverly Taylor

10-6-18-87

Smoking isn't cool any more. That's why many smokers would rather quit than fight or switch. They'd rather walk a mile than <sup>climb on</sup> ~~ride~~ a <sup>one</sup> ~~two~~-humped nicotine high. They want a cigarette to taste bad like a cigarette should.

And after they quit, they want to say to themselves, "You've come a long way, baby." That's why when it comes to quitting smoking, it may be best to go it alone -- with the help of an empathic counselor.

Texas Tech University psychologists are breaking with tradition in helping would-be non-smokers individually rather than in groups like most quit-smoking programs.

Bonnie Spring, director of the Smoking Cessation Clinic in the Psychology Department, said the idea is that people who quit smoking through groups lose a big part of their support when the groups stop meeting. Smokers who quit alone have learned to support themselves.

Dr. Spring and her colleagues are using techniques long proven to help smokers quit lighting up, but they are pioneering a program in which individualized plans are formulated for each smoker they help. Most quit-smoking programs offer the same treatment plan to all the members in a support group.

"The strength of our program is that we tailor-make each individual's cessation plan," Spring said. "People start smoking for different reasons. They are reinforced for it in different ways. Different situations maintain their habits and different things will trip them up when they are working to quit. If all these things are considered, quitting and not starting again may be more successful."

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In support groups, members usually do not gain insight about the unique features of their individual smoking habits, she said.

The cessation clinic evolved out of research involving nicotine addiction, eating disorders and diet. Smokers sought as research subjects now can get help to quit.

Twenty-one people have completed the program. Eighty to 90 percent quit smoking and remained non-smokers during the initial months of follow-up.

The program involves an initial two-hour session with a smoking cessation counselor, a mid-withdrawal assessment and a relapse prevention program. Graduate and undergraduate psychology students are smoking cessation counselors for the clinic.

During the initial session, the smoker commits to announcing to friends and family the decision to quit at a certain time. Nicotine is discussed as an addictive substance from which there will be withdrawal.

"We get them to start visualizing themselves as non-smokers. They start to change their self-image and see themselves in healthier, cleaner states," Borneman said.

The groundwork for quitting and not starting again is laid in this session through talking about smoking and the factors which maintain the habit. Situations in the environment, emotional states and reward systems individuals establish can maintain a smoking habit.

"For many people, smoking is cued by the environment. They want a cigarette when they get in the car, talk on the phone, socialize or write," Spring said. "Emotional states, such as anxiousness or stress, can also cue the desire to smoke. We talk about which emotional states make the individual want a cigarette.



"Smoking can also be a reward when it's associated with pleasant things such as being with friends and completing tasks or when it reinforces fantasies which identify, for example, with the rugged Marlboro man."

The smoker then plans ways to avoid the cues. Spring said if finishing a meal has been a strong cue to smoke, the individual can plan to clear the table immediately after eating or sit in no smoking sections of restaurants and airplanes. Individuals whose cues are based on depression and anxiety can learn relaxation, coping and positive imagery techniques.

Thompson said some people also plan in the first session to make a list of their reasons for quitting and some positive statements. They carry the list with them and refer to it when they are feeling tempted to smoke.

"When a person is having withdrawal symptoms, it's real easy to think negative, irrational thoughts like 'I'm going to kill someone if I don't smoke' or 'I'll always feel this way'," Thompson said. "We help them to plan ahead for these times and have a strategy ready. We want them to go into it well-equipped and with strategies so over-learned that they can catch themselves when they're thinking like this."

Withdrawal symptoms usually last from three to 10 days, with the first three days the hardest. During the first 48 hours of withdrawal, the smoking cessation counselor supports the client through frequent visits and phone calls.

On the third day, a mid-withdrawal assessment is conducted in which the counselor and client study the client's withdrawal for clues about how to prevent smoking relapse.



The client reports changes which they have experienced in mood and ability to concentrate in various environmental situations. Carbon monoxide levels are measured to determine the rate at which the body is being cleared of nicotine.

As part of the overall research and to provide information for the individual's relapse prevention program, the client's ability to concentrate and mood are measured before and after the individual eats various kinds of foods.

"We feed them certain kinds of foods and see if their mood and ability to concentrate get better or worse," Spring said. "The broad question is whether different kinds of foods help people cope with psychological disruptions. The question for the person who's trying to quit smoking is whether their eating habits are helping or hurting them."

In the relapse prevention program, the client and counselor talk about once a month. They discuss how the client will deal with upcoming stressful events, such as a holiday or a major deadline.

"We stress that they will desire to smoke in the future, maybe even years from now and that they have to continue to choose not to smoke," Spring said.

"One of the most difficult things to handle is slips," Borneman said. "It really matters what they make of it. If they say 'I smoked again and so I'm a smoker', they can get discouraged and depressed.

"We tell them just because they smoked, it doesn't mean they are a smoker again. We encourage them to keep their self-image as non-smokers and model positive self-talk for them."

Only smokers selected for research are eligible for the program which is offered free. Spring estimates that the whole program, including a temporary spa membership to help the individual avoid weight gain, would cost at least \$650.



CONTACT: News and Publications

11-6-18-87

Free outdoor activities at Texas Tech University this week include a film showing and a carillon recital.

A carillon recital at 8:15 p.m. Sunday (June 21) will feature Don Cook. Interested persons can bring something to sit on and listen from the lawn across from the west bell tower of the Administration Building on the Texas Tech University campus.

The movie "Close Encounters of the Third Kind" will be shown free at 9:15 p.m. Wednesday (June 24) outside the Agriculture Pavilion on the Texas Tech University campus.

Two free music recitals are scheduled in the Hemmle Recital Hall of the Music Building: Michelle Kilborn, flute, 5:30 p.m. Wednesday (June 24) and Steven Burke, tenor, 3 p.m. Saturday (June 27).

The Hub City Triathlon will begin at 8 a.m. Sunday (June 28) at the Aquatic Center on the Texas Tech campus. The event includes a 900-meter swim, a 20-mile cycle and a 5-mile run. Awards will be made at 1 p.m. Sunday.

Fourth- through 12th-graders can hone their writing skills in a Young Writers' Workshop July 13-30. Registration is open now. The workshop is sponsored by the Caprock Area Writing Project (CAWP) in the College of Education. Cost is \$150. The workshop will meet 9 a.m. to noon Mondays through Thursdays. For more information and to register, contact Shirley Koeller at 742-2368 or Helen Otken at 742-2352.



Story ideas for week of  
June 22-29.  
12-6-18

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# Radio & Television New Service

**NEW HOPE---**Mysteries being unraveled through discovery of a new indocrine system and undocumented hormonal interactions in early pregnancy may someday mean new hope for infertile women and those who have miscarried. Wendell W. Leavitt, Texas Tech University Health Sciences Center professor of biochemistry and obstetrics and gynecology said the complex chemical balance of life and death and growth and change in the uterus governs real life and death situations such as whether a woman can conceive and maintain a pregnancy. For more on the subject, call Dr. Leavitt. 743-2385.

**BASEBALL HAS BEEN GOOD---**Baseball would not have been the same without them, and neither would America. They are the representatives of baseball's "All Significance Team" as selected by Texas Tech history Professors James Harper and Joseph King. The two professors were among the first historians nationally to develop for college credit a course using baseball as a window on American history. For more on what they have come up with, call King at 742-3591.

**A BATTLE WITHIN THEMSELVES---**It is a battle millions of people fight each night and lose. It's the battle within themselves for a good night's sleep. Until some 25 years ago, it was a battle each individual fought alone. But since then, medical science has developed an arsenal of knowledge that has allowed physicians to enter into the fray. For some idea on how they're doing it, call Dr. Gustavo Roman, sleep disorders specialist at TTUHSC. 743-2721.

**STATE PRIORITIES---**As legislators battle the budget in special session starting Monday, they may want to consider that a majority of Texans think that balancing the budget is important, but not by cutting higher education funds or by taking money directly from taxpayer's own pockets. Nearly 94 percent of the 400 Texans polled by the Institute for communications Research at Texas Tech said that balancing the budget is important, very important, or extremely important. For more on the survey, call Steve Swindel. 742-3382.

For assistance on these and other stories, call Dorothy White/Don Vanlandingham. Broadcast Bureau, News and Publications. 742-2136.