

Vol. 2, No. 9 July 1981



NON-CIRCULATING NTSU LIBRARY

Commence the celebration—

Donna Shewach beams after receiving her diploma for the Ph.D. degree from Dr. R. W. Butcher, dean of the Graduate School of Biomedical Sciences. She has temporarily removed her cap so that the doctoral hood can be slipped over her

head. For more photos and names of Health Science Center graduates see page 6. For more about graduation see the next issue of the *HoUTexan*. (Photo by Gary Parker)



Volume 2, Number 9 July 1981



What does bug spray do to you, your pets?

By Ina Fried

An animal is poisoned repeatedly by an insecticide. The animal at first has muscle tremors, nausea, excessive salivation, and slowing of the heart's rhythm. Then, remarkably, instead of dying, the animal recovers. The next time it is exposed to a higher dose of the same insecticide, the animal doesn't get so sick.

Can animals — and humans — develop a tolerance for insecticides? How can this happen? Could it solve the problems of finding safe insecticides?

According to research at The University of Texas Medical School

at Houston, rats and mice do show signs of developing a tolerance for certain insecticides, but the side effects of this tolerance may not be beneficial. Dr. Sheldon D. Murphy, director of the school's Division of Toxicology, reported on the research at the annual meeting of the American Chemical Society in Atlanta.

"One must be cautious in deciding that just because a tolerance develops to a toxic substance that it's a good thing," Murphy said. "It may also affect the body's ability to respond to chemicals that are useful, such as naturally occurring neu-

rotransmitters or similar compounds that are sometimes used in treating neurological disorders."

The studies by Murphy, graduate student Brad Schwab and post-doctoral fellow Dr. Lucio Costa involved organophosphate insecticides, among the most commonly used type of insecticides since the use of chlorinated compounds, such as DDT, was curtailed.

Organophosphates act by inhibiting the enzyme which metabolized acetylcholine to inactive derivatives, Murphy explained. Acetylcholine has important functions in the nervous and muscular systems,

but its accumulation in the body leads to excessive stimulation of muscles and a breakdown of many aspects of nervous system control.

As much as 30 years ago, Murphy said, researchers noticed that animals seemed to recover from signs of poisoning with organophosphates even though they continued to receive the same doses of the insecticides. However, there were no controlled attempts to study this tolerance.

"A few reports suggested that people also become tolerant to the compounds," he said. For example,

(Continued on page 8)

Expert: Knowledge about obesity slender

By Diane Broberg

If you think you gain weight more easily than other people, you may be right. The problem is that no one knows exactly what makes some people gain more easily than others.

Dr. George A. Bray, professor of medicine at the University of California at Los Angeles and associate chief of endocrinology at Harbor General Hospital there, is an expert on obesity. He spoke at the Medical School May 28 during a forum sponsored by the Houston Interinstitutional Nutritional Research Seminar Series, which is made up of the Health Science Center, Baylor College of Medicine and the University of Houston.

He began by showing a slide of a stone carving of an obese person. The carving was found in Malta and believed to be from the Stone Ages. "Even then, people were having problems with fat," he said.

Bray centers discussions of obesity on how calories are stored and used up rather than on how many are consumed, because "when studying humans, caloric measures aren't exact; the U.S. Department of Agriculture's estimates are inaccurate because we throw away a lot of fat on meats and don't eat a lot of what we buy," he said.

He cited two possibilities that may account for the difference between "easy gainers" and "hard gainers": one is the way the brown adipose tissue ("brown fat") in our bodies is converted to heat. Another is in the process by which sodium and potassium are stored and handled by the cells. Some studies suggest that these processes differ from person to person, he said.

One way to make losing weight

easier on yourself is not to gain large amounts of weight in the first place, he said. If you gain a little, your fat cells will increase in size, but not in number. If you gain a lot, however, they will start to increase in number and probably never decrease in number again, he said.

"It is easier to maintain a weight loss if you keep your fat cell

number down," Bray said. "If you have too many fat cells, you'll regain weight faster," he added.

He pointed out that obesity may contribute to the development of medical problems like diabetes and gallstones; however, losing weight may help reverse the processes that lead to these problems.

If the calories you consume are

fewer than those you burn up, you will lose weight no matter how many meals you eat or what you eat, Bray said.

He closed by quoting a favorite saying of his about obesity, "Obesity is a condition which proves that the Lord does not help those who help themselves, and help themselves, and help themselves."

UT



SUMMERTIME, AND . . . Kim Huffstetler (center), office of the vice president for administration and finance, awaits a hot dog fresh off the grill. David Kusnerik, contracts and grants, and Bea Dobyhan, ambulatory program, are among those sharing the cooking at the hot dog sale sponsored by the Health Science Center-General Employee Relations Committee. Kusnerik is chairman and the other two are

members of the committee. On this page you can read about what happens when you eat too much at those summer cookouts and some research on the effects of insecticides you might be using to protect against some unwelcome warm-weather visitors. (Photo by Gary Parker)

Thomas heads new division

(From a report by Ann Singh, Internal Medicine)

Dr. James C. Thomas, associate professor and vice chairman for professional affairs of the Department of Internal Medicine at the Medical School, has been appointed director of the Division of General Internal Medicine.

The appointment to head the newly organized division was announced by Dr. Thomas E. Andreoli, chairman of the Department of Internal Medicine.

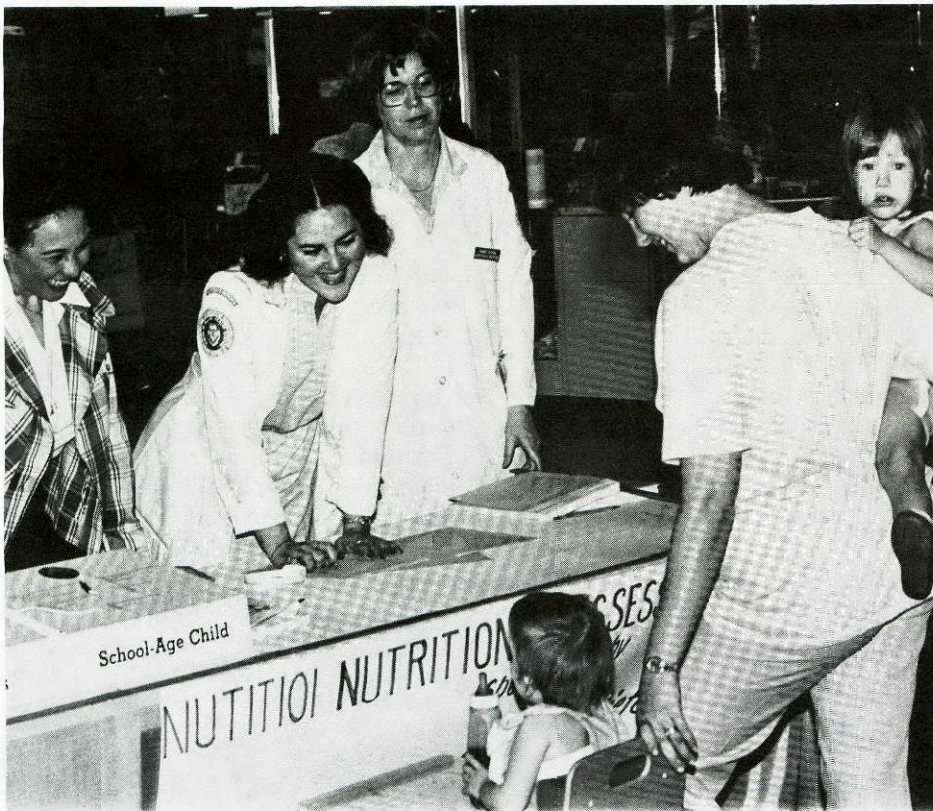
The division administers the internal medicine ambulatory care facilities and provides a major part of the teaching service to house staff and students. It also is responsible for an inpatient and outpatient consultation service and is involved in clinical research, including computerized systems in health care delivery.

Thomas has been on the faculty at the Medical School since 1973. He received his bachelor's degree from the University of Georgia and his M.D. degree from the Medical College of Georgia.



DON'T YOU BELIEVE IN TOOTH FAIRIES? Seita Feighny, clinic coordinator for the School of Dental Hygiene at the Dental Branch, ran into a few skeptics at the Healthy Baby Fair at Northline Mall. Spon-

sored by the March of Dimes, B'nai B'rith Women and the Harris County Medical Society, the event was billed as "a chance to find out more about preparing for and having a baby." (Photos by Gary Parker)



BABY TALK — Above left, a booth sponsored by the School of Allied Health Sciences made nutritional assessments of small children at the Healthy Baby Fair and offered quizzes on nutrition for mothers. Clinic instructor Ennedy Estrella (left) is aided by nutrition and dietetics



students Susie Croes (center) and Bonnie Horton. Above right, representatives from the School of Nursing Ann Lucia (left) and Ann Norris talk to a mother about "well baby care."

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Editor: **Ina Fried**
Assistant Director of Public Affairs

Assistant Editor: **Diane Broberg**

Staff: **Tish Figures**, secretary; **Wendy Goodridge**, writer; **David Moore**, writer; **Belinda Parker**, business and distribution; **Gary Parker**, photographer; **Barbara Short**, writer; **Debby Weiss**, production.

Office of Public Affairs
The University of Texas
Health Science Center at Houston
Box 20036
Houston, Texas 77025

1100 Holcombe Blvd., Room 1117
(713) 792-4266

Council gives nod to Continuing Ed

The Division of Continuing Education has been recertified by the Accreditation Council for Continuing Medical Education (ACCME) to continue delivering updated medical information to doctors, nurses, residents and students through a lecture series and special programs broadcast by HSC-TV.

Besides sponsoring various continuing education programs throughout the year, the department also is certified to accredit similar programs offered at other institutions.

Many of these activities meet the requirements of the Physician's Recognition Award of the American Medical Association.

The Health Science Center pro-

gram was reaccredited for six years by the ACCME board, which is comprised of representatives from the American Board of Medical Specialties, the American Hospital Association, the American Medical Association, The Association for

Hospital Medical Education, the Association of American Medical Colleges, the Council of Medical Specialty Societies and the Federation of State Medical Boards of the U.S., Inc.

List of parenting books free

The Children and Youth Services Division of the Texas Department of Community Affairs has published a series of annotated bibliographies on topics of interest to parents and professionals.

Called "In the Interest of Children," the bibliographies list books

and pamphlets on 22 topics related to parenting and child care.

Copies of the bibliographies are available free from the Children and Youth Services Division, Texas Department of Community Affairs, P.O. Box 13166, Capitol Station, Austin, Texas 73711.

Streaking through the stars to . . . life

By Barbara Short

Imagine minute seeds of life hurtling through the infinite blackness of space.

Imagine life arising spontaneously from the slime of the river Nile.

Imagine . . . that we are not alone.

These and other compelling thoughts were voiced by Dr. Richard S. Young during a star-blazing trek through the universe. Young recently presented the first Distinguished Lecturer Series seminar sponsored by the Dental Branch Postgraduate School of Dentistry.

Young, vice president of Rockefeller University, was formerly director of Planetary Biology for the National Aeronautics and Space Administration and chief scientist for Viking, the Mars lander.

The seminar on "The Origins of Life and Planetary Biology" catapulted the participants from the primordial fireball of the Earth to the most sophisticated creatures known — ourselves.

The concept of life, its beginning and evolution, has changed dramatically, Young said. "The Egyptians believed in spontaneous generation; still other societies believed in panspermia, or interstellar travel of seed."

The building blocks of life, amino acids and nucleotides, can be created in the laboratory. "It is possible to recreate the atmosphere of

the primitive Earth. It consisted of hydrogen, water, ammonia, methane and hydrogen sulfide," Young said.

When the mixture is charged with electricity (lightning) or exposed to ultraviolet light (sun's rays), a thick brown tar-like substance results. The tar contains amino acids and nucleotides, Young continued, the very beginnings of life.

"If the time-span from the creation of the Earth to the present is condensed to a year, the origin of life starts at the end of January," Young said. Animal colonization begins in November, dinosaurs appear on Dec. 15, mammals appear at dawn on Christmas Day, primates evolve in the early hours on New Year's Eve, man is born at 8 p.m. and recorded history begins the last eight seconds of the year.

The events over the ages may be more fathomable when related to a period of time people experience once every 365 days. But, these events actually take millions and billions of years to occur. They happen so slowly they are imperceptible during the lifetime of a single human.

For instance, the death of our sun.

"Our sun is middle-aged, with about six billion years left of its life," Young said. "The sun may then become a red giant."

During this stage of the solar sequence the sun's exterior will



expand and cool. After enveloping the surrounding planets (which will probably include the Earth), the dying sun will expand and contract every few thousand years. The exposed solar core will eventually become a small hot star or white dwarf.

The density of such a star will be more than a ton for each teaspoonful. Finally, billions of years from now, the sun will degenerate to a dead black dwarf, Young said.

"Jupiter is almost a sun," Young said. "It is larger than the rest of our solar system's planets put together. It also emits more energy than it absorbs from the sun."

From data gathered during the Voyager and Pioneer missions, Young said Jupiter is probably all atmosphere. "The part we see is the outer atmosphere, which is very col-

orful. There are also 13 satellites.

"The giant red spot is larger than the Earth and is visible from the Earth," Young continued. "It is a cold, high plateau with cyclonic activity of atmospheric gases. There are wind velocities of 250-300 miles per hour."

Young feels the lunar program was discontinued prematurely. "I believe in a balanced program. We should conduct explorations focusing on certain aspects of the solar system," he said.

Citing expense as a major factor, Young said the United States will probably participate in more international space adventures reminiscent of the Apollo-Soyuz mission. Young also anticipates more cooperative unmanned missions. **UT**

New med school dean elected to Academy of Arts, Sciences

Dr. Ernst Knobil, newly appointed dean of the Medical School, has been elected a fellow of the American Academy of Arts and Sciences.

He is one of 75 leading scholars, scientists, public figures and artists elected to membership in the academy at its 201st annual meeting. The academy was founded in 1780 by John Adams and other intellectual leaders of early America. Its present-day membership of 2,300 includes representatives from the mathematical, physical and biological sciences as well as law, administration, public affairs, theology, fine arts and the humanities.

Knobil has been the Richard Beatty Mellon Professor of Physiology and Chairman of the Department of Physiology at the University of Pittsburgh School of Medicine for the past 20 years. Since 1974 he also has served as director of the Center for Research in Primate Reproduction at the school.

Currently editor-in-chief of the *American Journal of Physiology: Endocrinology and Metabolism*, Knobil served as consultant to the Human Reproduction Unit of the World Health Organization. He is past president of the American Physiological Society, the Endocrine Society and the Association of Chairmen of Departments of Physiology and has served on several national advisory committees. He has been a member of the executive

council of the Association of American Medical Colleges.

He will begin serving as dean-elect of the Medical School on July 1 and will begin devoting full time to the deanship no later than Jan. 1.

Grades go down, when costs go up

Doctors-to-be are penalized at the University of Minnesota Medical School for ordering more medical tests than necessary.

That's the way it is in a course structured by Dr. Patrick Ward and

two other professors at the university, who teach students to become cost-effective doctors.

Although most cases are hypothetical ones, points are subtracted from the students' overall grades

when a diagnosis isn't made within a limited number of tests, according to Ward, who recently described the program to staff and faculty members here.

The main objective of this course is to help students arrive at a conclusion with the least number of tests, he said.

The course enables students to learn how to save patients money, time and any unpleasant side effects the tests may cause them.

The course is a popular one, said Ward, adding that students try to enter the program even after registration.

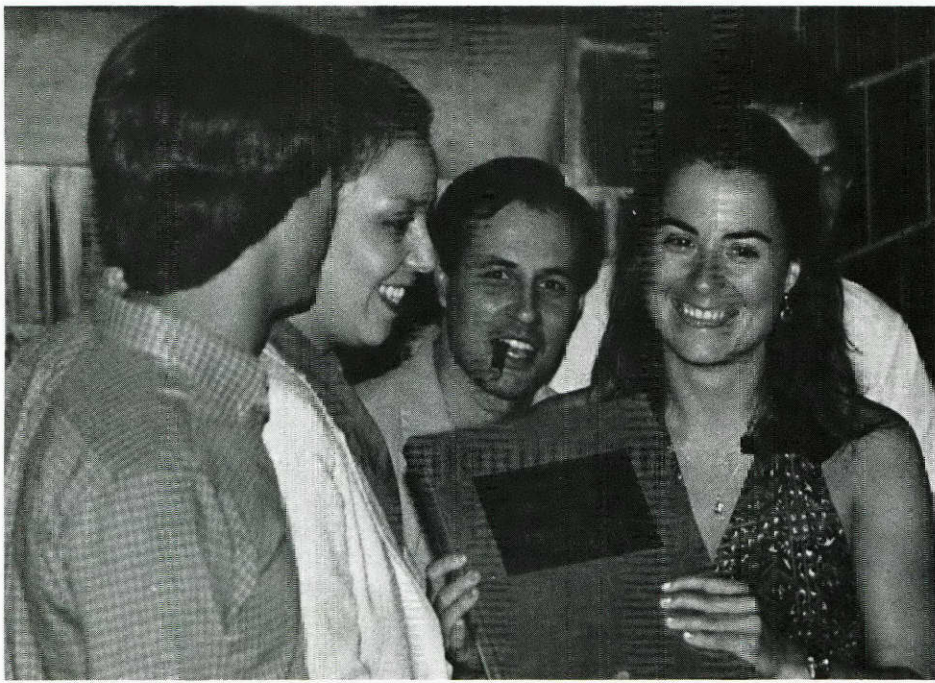
He emphasized class participation and effective audio visuals. He noted, however, that guest lecturers are usually a disaster.

Ward, professor of laboratory medicine and pathology, was invited to speak here by the UT Task Force.

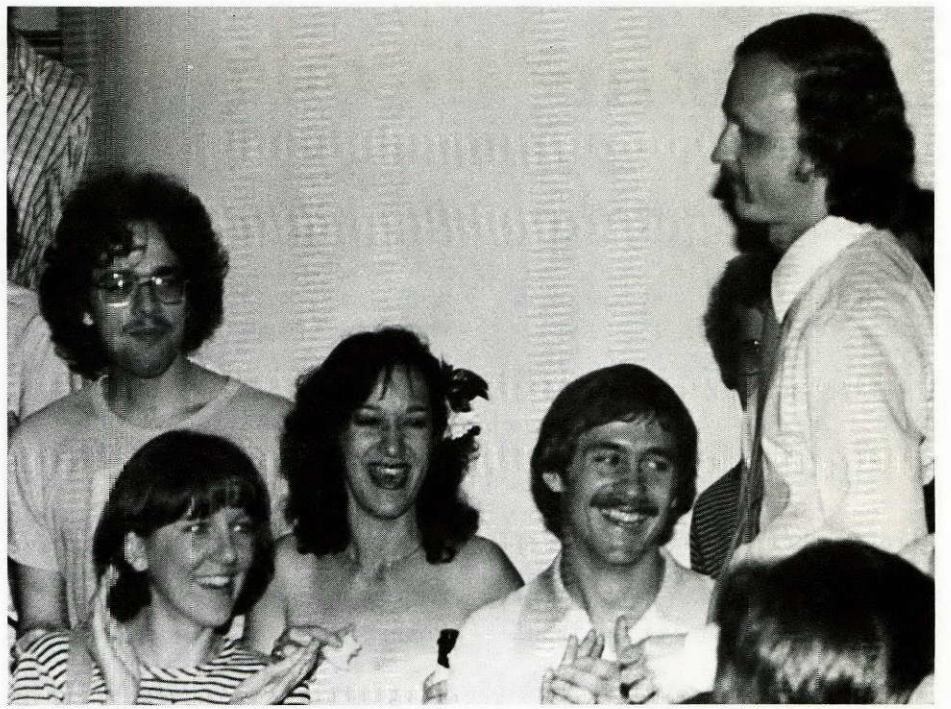
The Task Force was organized last year by President Bulger to investigate cost-effective health care.



SAVING MONEY, TIME and unpleasant side effects for patients are the goals of a course Dr. Patrick Ward describes to Mary Guillory (left), staff person from the president's office to the Health Science Center Task Force on Cost-Effectiveness, and Dr. Doris Ross, co-chairperson of the task force and associate dean of the School of Allied Health Sciences. (Photo by Gary Parker)



EVERYONE WANTS A SET, BUT SHE GOT ONE FREE — A smiling Susan Dobbs (right) receives one volume of the nine-volume set, *CIBA Collection of Medical Illustrations* from CIBA representative Cynthia Hurd as well-wishers congratulate her on the award. (Photos by Gary Parker)



DOUBLE POPULARITY — Dr. Frank Booth, assistant professor of physiology, was voted "Best Teacher" by the second-year medical students, while his class, "Respiratory Physiology" won the award for "Best Class."

Sophomores give and receive awards

Everyone wants a set, but there are only two ways to get them free: one is by being a medical school library, and the other is by being chosen the "Outstanding Sophomore Medical Student."

Susan Dobbs was the student recipient of this year's set of atlases from the CIBA Pharmaceutical Company. Nominated by her class for outstanding community service, she was chosen from other nominees by a committee made up of students and Dr. Ruby Isom, acting chairman of the community medicine department.

"Another half a dozen people could have been nominated, but Susan is a good representative of such an altruistic group," Isom said.

Mark Payne, sophomore class president, said that Dobbs' award was important because "most medical students don't have time to get out in the community at large, and she found time."

"Among other things, Susan was instrumental in starting a pelvic examination training program for the students," Payne said. The

program involved training models and teaching students how to do pelvic examinations on the models before doing them on the patients, he said.

The sophomore award ceremony was held after exams on May 22 during an informal party in the fifth floor lounge. Cynthia Hurd of CIBA Company presented Dobbs with one volume of the nine volume set, *CIBA Collection of Medical Illustrations*.

The books can be most cheaply ordered directly from CIBA or through the UT bookstore for about \$288, according to Hurd.

They are presently being revised, and Dr. Joe Wood, chairman of the Department of Neurobiology and Anatomy said he is re-editing and writing some new sections for the 1982 edition of *Volume I, The Nervous System*.

Awards for excellence in teaching also were announced at the party. Voted "Best Teacher" and "Best Class" were Dr. Frank Booth, assistant professor of physiology and his class, "Respiratory Physiology."

"It is unusual for the best class

and best teacher to coincide like that," Payne said. Booth's name will be inscribed on a plaque in the Student Affairs Office.

Other teachers chosen by popular ballot for certificates were Dr. Herbert DuPont, director of the Program in Infectious Diseases and Clinical Microbiology, and Dr. Keith Smith, professor of Reproductive Medicine and Biology.

Receiving honorable mention

from the students were Dr. Richard Conklin, pathology; Dr. Roy Culpepper, nephrology; Dr. Peter Ostrow, pathology; Dr. Ron Philo, neurobiology and anatomy; and Dr. Larry Pickering and Dr. Terry Satterwhite, infectious disease.

A special appreciation award went to Dr. Patti Jane Ross, obstetrics and gynecology, the sponsor for the pelvic examination training program.

Two Dental AV productions garner honors at convention

By Melody McSparran
Dental Branch

The Dental Branch was honored recently when two of its audiovisual efforts received awards at the Health Education Media Association's (HEMA) convention in Philadelphia.

"Free Gingival Graft," a videotape produced last year by UTDB-TV and Dr. Richard B. Walhalter, won second place in the general competition. This videotape shows an explicit demonstration of gum grafting. The taping and editing were done by Hank McDonnell, director of instructional television at the Dental Branch.

A special student recognition award was given to the Zeb F. Poindexter Chapter of the Student National Dental Association (SNDA) for its slide show which gives an overview of Houston, Texas Medical Center and the Dental Branch. The SNDA is a student minority organization whose goals include promotion of minority enrollment in dental schools and improvement of dental health care delivery to disadvantaged people. This slide presentation also was produced by UTDB-TV and directed by Shawn Stewart, television specialist at the Dental Branch.

The awards were accepted by Dr. Horace Hartsell, director of instructional development at the

Dental Branch and past-president of HEMA, on behalf of the Dental Branch.

20 of UTSN to national list

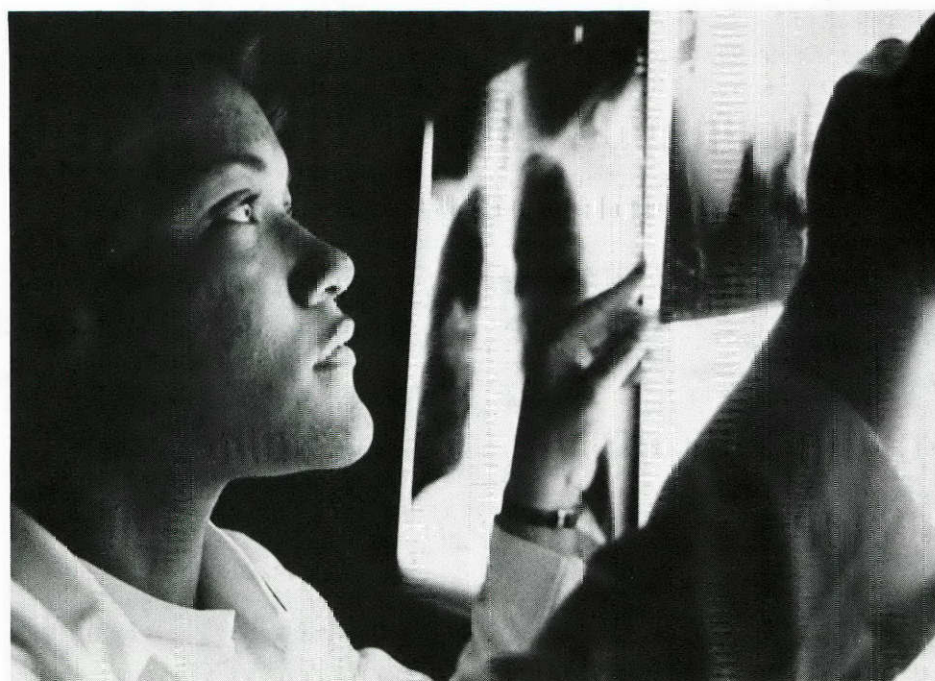
Twenty nursing students were nominated to the "National Dean's List" by Dr. Arlowayne Swort, dean of the School of Nursing, because of their being in the top 10 percent of their class during the fall quarter of 1980.

Ann Seiler Lindsey and Marlene Zaker Lindstrom, who received bachelor's degrees in nursing during graduation exercises June 13, were among those selected.

Also honored were Diane Mazeikas Edwards, Laura Wakefield Kaufman, Colleen Ann Lathem and Mary Anne Page, all of whom will receive bachelor's degrees in nursing in September.

Nancy Williams Johnson, who will graduate in December, also was elected by Dean Swort. Honorees who will graduate in March 1982 include Tami Anne Morella, Sandra Louise Morrow, Raeann Matson Scheuerman, Melinda Louise Wesner and Joy Lynn Wolff.

Other dean's list members are Patricia Duffin, Patricia Krupa, Joyce LaRue, Kelle Ries, Molly Skalnik, Susan Dickerson, Constance Hudson and Carol Saunders.



EXAMINING X-RAYS CAN be fun... and profitable. Denise Hadnot, a sophomore student in the School of Allied Health Sciences' Program in Radiologic Technology can attest to that. Hadnot won third place and a \$50 cash award for identifying unusual radiographic film artifacts at the 51st annual meeting of the Texas Society of Radiologic Technologists recently. Several hundred technologists entered the competition; awards were presented by R.P. Kinchloe Company. From a report by Rose Kunik. (Photo by Gary Parker)

Biblical characters get a free diagnosis

By Barbara Short

Jim and Joan tried for years to have a child. Last year, as a last hope to fulfill their dream, they adopted a child. Six months later, Joan became pregnant.

How often have you heard a similar story?

This phenomenon is not only a modern-day occurrence. It has biblical roots, according to Dr. Robert B. Greenblatt, professor emeritus of endocrinology at The Medical College of Georgia.

Greenblatt gave the annual Aaron Brown Lecture sponsored by Phi Delta Epsilon, the Medical School fraternity. The subject of the lecture was that of Greenblatt's book *Search the Scriptures: Modern Medicine and Biblical Personages*.

The biblical story of Rachel and the mandrake is an example of anxieties inhibiting a woman's fertility, Greenblatt said.

Jacob married his first cousins, Rachel and Leah, who were sisters. Leah could conceive, but Rachel could not. "Rachel was so anxiety-ridden about her infertility she exclaimed, 'Give me child, or I'll die,'" Greenblatt continued.

Leah's son, Reuben, had mandrake, an herb used for its tranquilizing effects. Rachel wanted the mandrake, so she struck a deal with Jacob for Reuben's mandrake. The bargain kept, Rachel eventually conceived.

"This story stresses the importance of tranquility and lack of self-reproach in maintaining a normal, healthy body," Greenblatt said.

We all know the story of David and Goliath. Or do we? Did you ever wonder why Goliath was a giant and how David slew him so easily?

"From reading the physical description and movements of Goliath in the scriptures, it is evident he had a pituitary tumor," Greenblatt said.

Giantism frequently is caused by such a tumor. As the tumor grows it presses on the optic nerves causing lateral blindness or "tunnel vision," Greenblatt continued.

"After watching Goliath's movements, David suspected Goliath had a vision problem. When they confronted each other, David was able to step to the side, dropping out of Goliath's field of vision and causing him to turn his head from side to side," Greenblatt said.

In the meantime, David took aim with his slingshot and struck Goliath in the only unprotected spot — between the eyes.

"This spot was especially vulnerable because the bones of these giants tend to be soft," Greenblatt said.

Greenblatt related the account of Saul of Tarsus' journey from Jerusalem to Damascus.

As Saul was traveling in the midday sun, he began to hear voices and see visions. He fainted and con-

vulsed, Greenblatt said.

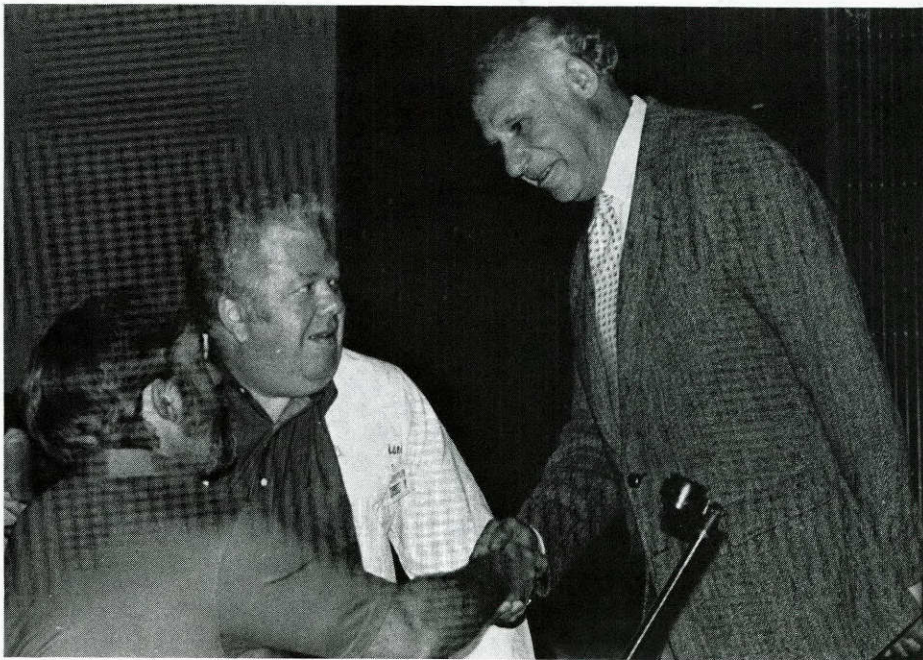
"Saul was the tormentor of Jews who accepted Jesus as their Messiah," Greenblatt said. "Because of his 'heavenly vision' in the desert, Saul converted to Christianity and later became the Apostle Paul."

Saul actually suffered from salt depletion syndrome, Greenblatt continued. "He exhibited the classic symptoms of heat stroke: muscular weakness, headache, loss of appe-

tite, nausea, vomiting, mental confusion and delusion. Saul was in a stupor for three days and without eyesight. He neither ate nor drank."

Greenblatt feels this story is a good example of how the physiological situation of one person changed the course of history.

Saul's heat stroke, which he perceived as a heavenly sign, "helped Christianity along," Greenblatt said, by converting an antagonist of Christianity to an advocate.



THAT'S INCREDIBLE — Dr. Robert B. Greenblatt greets acquaintances before his delivery of the annual Aaron Brown Lecture sponsored by the Medical School's fraternity, Phi Delta Epsilon. Greenblatt discussed biblical phenomena from a medical perspective. (Photo by Gary Parker)

Alcohol/drug abuse are health hazards

By Diane Broberg

The use of legal and illegal drugs in this country is a "public health problem" that affects even nonusers because those who do use them are driving, carrying guns and doing things that can ultimately affect everyone's safety.

Dr. Louis A. Faillace, professor and chairman of the Department of Psychiatry at the Medical School,

spoke at the final Associates' Lecture with frightening statistics about drug usage in this country, especially the abuse of marijuana and alcohol. The lectures were sponsored by the HSC Development Office.

"Pot is more potent now than it was in the 1960s," Faillace said, comparing the four percent level of THC in today's marijuana to that of .25 percent in the 1960s. THC, the

major ingredient in marijuana, stores itself for days in the fatty tissues of cells, especially in the brain and gonads, Faillace said.

"Some doctors used to say it was a harmless drug, but they aren't saying that any more, both because of new discoveries and because of the stronger form that is on the streets now," Faillace said. He also believes pot is worse for the lungs than cigarette smoking and will probably be shown to cause lung cancer.

Faillace believes that in addition to parents becoming educated, the only way to control drug usage in adolescence is for parents to talk to children openly beginning at an early age.

"And the worst thing you can do is talk from a lack of knowledge," he said. "If kids know more than you do, they won't listen. Also, the 1950s films they show to kids in school are so outdated that they are laughed at and the message is lost."

Many parents use denial, saying, "My child doesn't take drugs and I don't want to get involved." Instead, they should say, "My child doesn't take drugs but I DO want to get involved," Faillace said. If a child's associates use or push drugs, it indirectly affects them, he explained.

Faillace believes stronger laws against pushers are necessary to beat the drug problem. Quoting statistics that said drugs were a \$50-\$60 billion dollar a year indus-

try, he also noted that the drug paraphernalia business (items freely sold in record stores and head shops to enhance the use of drugs) is a \$3 billion a year legal industry.

The use of marijuana is frequently combined with the use of alcohol, in itself a larger problem than marijuana, Faillace said.

Use of alcohol is a major public health problem. More than 40 percent of all medical and surgical inpatients have alcohol-related health problems.

"You are at a greater risk of addiction to alcohol if someone in your family has had the problem," he said, citing some recent Scandinavian research.

The best thing to do when drinking socially is to follow the "one drink per hour" rule, Faillace said. For a 150-pound person, it usually takes about an hour or so for one drink to clear the system, so "be sure to quit drinking long enough before you drive home, and remind your friends to do the same," he said.

For those who weigh more than 150 pounds, slightly less time may be required; if they weigh less, they should allow more time.

"Don't drink if you are pregnant, or at most have two drinks per day," he warned. Fetal alcohol syndrome is a preventable problem; it is believed that excessive alcohol consumption probably causes fetal malformation, he said.

Nutrition research honored by national orthopedic group

Researchers at the Medical School have won a prestigious award for a paper entitled, "Nutritional Assessment of Orthopedic Patients Undergoing Total Hip Replacement Surgery."

Dr. Jack E. Jensen, chief resident in the Division of Orthopedic Surgery, and Dr. Taylor K. Smith, professor and chief of orthopedic surgery, presented their paper at a recent annual meeting of the Hip Society in Las Vegas.

Other authors of the paper were Dr. Stanley J. Dudrick and Terri Jensen, both members of the Department of Surgery; Dr. James E. Butler, clinical professor of orthopedic surgery; and Dr. Dennis A. Johnston, a bio-statistician.

The paper won the Frank Stinchfield Prize, named after the

society's founder. The 13-year-old group met for a day as part of a larger meeting of the American Academy of Orthopedic Surgeons. Hip Society members are Orthopedic Surgeons interested in improving methods of treating hip joint diseases, Smith said.

While making nutritional assessments of patients before and after surgery, they found that more than a quarter of the patients studied were malnourished before going into surgery, causing them to have complications more often than other patients.

Because of studies like this one that relate nutrition to infectious complications doctors are learning to pay increased attention to nutrition, Jensen said.



EVERYBODY'S SOMEBODY'S BABY — Just like thousands of other parents at graduations all over the country, these two want a photographic memento of their son's recognition for those years of study. Mom aims the camera while

Dad poses with the new graduate after the School of Public Health commencement ceremony. (Photo by Gary Parker)



A ROSE AND A DIPLOMA — Carol Rice (left), associate professor of nursing, presented each graduate with a red rose at the School of Nursing's commencement exercises. This graduate is Susan Dickerson, who received a Bachelor of Science Nursing degree with nursing honors, honors and academic highest honors. (Photo by Dave Boothby)

More than 600 graduates receive degrees

School of Allied Health Sciences

Certificate in Biomedical Communications

E. Lynn Baldwin, Michael Friedman, Letteria F. Ingalls, Carol Lynette Adams Means, John E. O'Black, Alexander Obiajulu Okoli, Cheryl Thayer Tryon, David R. Villasana and Efrain Zuniga.

Certificate in Blood Bank Technology

Anne C. Miller

Certificate in Cytotechnology

Bakula Dhurandhar, Carol Jane Keiner, Elaine Jo Maloy, Larry Caddell Phillips II and Susan Z. Veane-tukalathil.

Certificate in Emergency Medical Services

Michael David Akeroyd, David Ross Almaguer, David D. Bargasos, George G. Beutell, Arlen Eolenbaucher, G. Scott Burlin, Darrell J. Chaison, John M. Crochetti, Frank R. Currie Jr., Philip E. Daley Jr. and Jared Lionel Davidson.

Leroy M. Deans, Michael F. Dries, Richard Craig Dujay, David A. Fletcher, William E. Gandy, James R. Hemphill, Steven W. Hill, Robert Wesley Kemp, June B. Mahalita, Gary M. Matsumoto and R. D. Merrywell.

William Joseph Murrell, Erett A. Nichols, Richard E. Poirier Jr., Karl Michael Schafner, Konrad William Spurling, Richard S. Storie, Ricky W. Swanson, Frank W. Taylor, Malcolm B. White and James A. Wisnoski.

Certificate in Medical Technology

Barbara Lynn Farzuchowski

Degree of Bachelor of Science in Medical Technology

Cynthia Marie Darteo, Anna Marie Galiano, Jerry T. Holubec, Linda Diane Howarth, Zia Ul Islam, Patricia Ann Kersey and Sandra Jean Kveton.

Paul A. Mabry, Mohammad Yousof Parupia, Lisa Gaye Peters, Norberto G. Pizarro, Marcia Denise Singleton, Pnh Sae Un and Cathleen Ruth Whaley.

Certificate in Nurse Anesthesia

Richard M. Allen, Ruth Ann Burdett, David Wayne Burns, Bryan Chappuis, Marianne Conner, Christine Edera, Dorothy Harlow, Gary L. Hobbs and Kenneth N. Wenke.

Degree of Bachelor of Science in

Nutrition and Dietetics

Jacquelyn R. Braisted, Hillary R. Helper Morris, Patricia Claffey Pillow, Linda Susan Reaves, Karen Siegel, Mary Ellen Stumpf, Carissa L. Sugg and Shohreh Taed-Rassekh.

Certificate in Radiologic Technology

Steven Michael Blackburn, Candace Lynn Graham, Delise Delaine Hancock, Linda Neil Hoessel, Leslie Louise Schwabandland, Erenda Elaine Sterling and Elizabeth Aileen Willows

Degree of Bachelor of Science in Respiratory Therapy

Betty Cecelia Wyble.

Dental Branch

Degree of Doctor of Dental Surgery

September 3, 1980: Edmond Jacques DeCoux III, Francis Eugene Dunlap Jr., Jay Edward Elliott, Richard Roger Garay, William George Heczko, Katherine Reten Hogan and Paul Francis LaRoche III.

September 19, 1980: Willis Jerome Pumphrey Jr. and John Evans Savoy II.

December 19, 1980: Charles Eugene Sutherland and Gary Franklin Wesson.

June 13, 1981: Terri Lee Alani, Martin Luther Anderson III, Valencia Ann Augben, Paul Vernon Bahlinger, Hoyt Harry Bailey, John Wade Baker, Ronald Beutsch, Tommy Michael Beene, Scott Gerald Bergh, David Jackson Eadie and Joe Lynn Bennet.

Charles Cummings Brown Jr., Sammy Ray Bryan, Bobby Lynn Burk, Ronald Clay de Lyra Butler, Dana Edward Caledonia, Sandra Kay Willis Carrier, Roger Greg Carroll, Deborah Jean Caughron, Charles Watson Cline, Charles Cray Coleman and Coolidge Cleman Jr.

Diana Rebecca Compton, Bruce Tyre Cooper, Joseph Philip Davis Jr., Jewel Ellen Rush Day, Gene Thomas DeWitt, Joyce Carolyn Thompson Digges, Charles Samuel Dillon III, Virginia Kayron Dube, Angela Donohue Earhman, Brian Mack Ellis and Dennis James Ellison.

Ronnie Elmore, Mark Edwin Falke, Gordon Eradley Garrett, Neal Frank Gronich, Thomas Farnior Hall, Glenn Eugene Hansen,

James Edward Harris, Gregory Erron Harrison, Janet Ann Leeper Harrison and Nancy Elizabeth Weber Heerssen.

Gary Anthony Hilsher, Phyllis Louise Holleman, Randall Wayne Hollenberg, Carlton Vincent Horbelt, Bruce Edwin Howell, Daniel Ollie Howes, Thomas Wayne Hysler, Gary Dale Keller, John Niel Kirk and Timothy Scott Knight.

Eddi Margaret Lee, John Christopher Lee, Nils Olaf Lelky, John Bradley Loeffelholz, John Richard Lyon, Richardo Marquez, Peggy Ruth Martin, Carol Ann McDonald, Raymond Allen McLendon and Leslie Kirk McMains.

Marcus Lue McRoberts III, Yolanda Ramirez Minnitti, Jimmy Joe Moon, Gregory Stephen Murdock, Gary Lee Nakovic, Allyn Ray Noblitt, Harry George Palmer, Ronald Alan Peters, Barbara Ann Pickering and Thomas Howell Pinson Jr.

John Emmett Pitts, Brant Lloyd Powell, Eddie Clay Pruitt, Paul Davidson Reagan, Charles Cook Richter Jr., Merrick Goodwin Roach, Allen John Robinson, John Steven Rubin, Mark Lowell Sauer and Michael Frederick Schwinn.

Barbara Jean Scott, Susan Virginia Seybold, Timothy Patrick Shannon, Johnette Joy Shelley, Myra Lynn Gochnour Shirley, Andrew Henry Smith Jr., George Arthur Smith, Doyle Sam Spence, Roderick Charles Stewart and Vincent Dwayne Straley.

Donald Joseph Thompson, Anh Hoang Truong, Leticia Turullols, John Robert Tuthill, John Anthony Valenza, Enrique Daniel Venegas, Yvette Gloria Vernor, Jesse Garner Welch, Martha Howell Wilson, Lawrence Keith Zarker and Milford Kirk Zuch.

Degree of Master of Science

Loy Morgan Arnold, Brian Wallace Beck, David Charles Collins, John E. Freeman, Stephen Clay Dwyer, Francisco M. Granda, Garrett Eugene Hartman, Charles E. Hartsfield Jr., Harry Nolan Joyner, Edward Stanton Key and Surasith Kiatpongson.

Michael Anthony Mansueto, Jack W. Martin, Trudy Jo Munson, John Thomas Panzek, David Michael Phillips, John Willard Rapley, Stephen Paul Rayburn, Charles James Robinson III, William Gordon Schindler and Erwin Weichel.

Certificate in Dental Assisting

Carrie Lynn Craton, Martha Marie Donaldson, Robyn Kathryn Gass, Rachel

Anne Juett, Karen Fay Kerns, Ana Elizabeth Matlock, Marla Rosa Remedios, Wanda Denean Thomas and Mary Ann Walichowski.

Diplomas in Dental Hygiene

Keppel Virginia Alexander, Donna Lynn Anderson, Laura Louise Ardoin, Victoria Arredondo, Melbe Marie Benavides, Leah Louise Norcross Berry, Gina Hopper Blanchard, Brenda Marie Bollom, Mary Elizabeth Fritzler Bosworth, Donni Blair Klein Brownstone and Clara FuSuen Chow.

Mary Anne Coles, Terri Lynn Crain, Christina Kay Crawford, Marjorie Ann Decker, Deborah Ann Doughty, Mary Anne Jones Fay, Susannah Feagin, Debra Lynne Field, Catherine Gloria Nolte Foster, Jeri Lynn Gardner and Violet Elizabeth Hart.

Gloria Ann Glauser, Cynthia LaFond Ghorrmley Glover, Margaret Lynn Kasmirodki, Katherine Sue Knippa, Julie Eileen Moore, Lynn Marie Moreau, Tami Lynn Neal, Jane Ellen Nelson, Sandra Kay Jagers Olden, Nancy Anne Perry and Janice Reid.

Beverly Dee Rohrer Schellenberg, Dory Elizabeth Scott Bryson, Kimra Lyn Stokes, Susan Marie Thigpen, Diane Thomas, Melani Ruth Topping, Sally Jo Secor Turner, Gwendolyn Sue Westbrook and Cynthia Diane Wicmandy.

Graduate School of Biomedical Sciences

Degree of Doctor of Philosophy

Marc Steven Abel, Soni Jo Anderson, Peter Eugene Barker, Daniel B. Burnham, Helen Laura Drwina, Nehama Bernstein Dubravsky, James Raymond Cum Jr., John Robert Harper Jr., Bruce Alan Harris, Sheila Nancy Marcks and Beth Lynn Maxwell.

Carol Ann McNeill, Valerie Len Ng, Paul D. Schweinsberg, Donna Sue Shewach, Cynthia J. Tift and Deidre Diane Vechter.

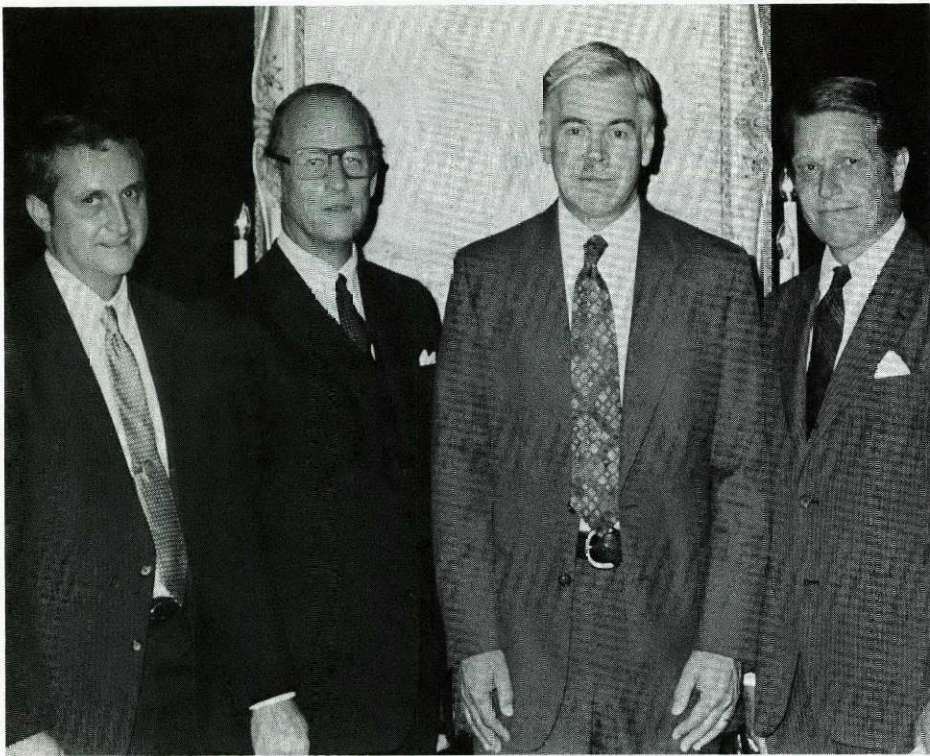
Degree of Master of Science

Nasreen A'cul-Ela, Lois Read Baker, Michael Friedman, Elaine Mann, David Lewis Mitchell, Rick D. Neumeister and Kanayo Eugene Ubesie.

Medical School

Degree of Doctor of Medicine

Carl Warren Adams, James Floyd Allen, Brett Ian Applebaum, James Ray Bartay, Bradley Austin Beard, John David Beerbower, Dalton Michael Henson, Gary Michael Ber-



"AS PHYSICIAN-CITIZENS, we have the responsibility to foster a balanced search for knowledge," Dr. Donald S. Fredrickson, director of the National Institutes of Health, told graduates of the Medical School. After the ceremony (from left to right) President Bulger, Fredrickson, Dr. Robert L. Tuttle and Dr. Ernst Knobil talked together. Tuttle is retiring dean and Knobil is dean-elect of the Medical School. (Photo by Nancy McMullen, Medical Media Services)

resford, Jimmie Gene Biles Jr., Winetta Carol Billings and William Michael Bond.

Gregory Harris Borg, Linda Diane Burke, Larry Ray Butcher, William E. Caras, Thomas Yoder Chandler, Peter Chang, Edson Hoi-Kam Cheung, Landon Armstrong Colquitt IV, Allan Odell Cook Jr., David Ignatius Corbut Jr. and James Eeds Crozier Jr.

Laurie Dawson, John Robert Delk II, John Charles Dell Jr., Robert Jay Dimand, Antonio DiSclafani II, Robert James Donachie Jr., Charles William Doubleday, Gary Woodrow Duncan, Joel Sullivan Dunnington, Clint Luval and Thomas Lane Dykes Jr.

Edward Eades, Edward A. Eichler Jr., Richard M. Elledge, Norman Duane Ervin, Gregory McBee Fabian, Ralph E. Fairchild III, Margaret Elizabeth Phelan Farmer, Kelly Winston Fife, Craig Monroe Floyd, Clyde Donald Ford Jr. and Preston Furn Foster.

Robert Wilson Frenck Jr., Claude Severn Frey, James Stanley Garrett, Robert Meredith Christ, Isaac (Itzhak) Meir Goldberg, Edwin Gullede Grafton Jr., David Dillard Grayson Jr., William Douglas Gurley, Neil Forrest Haddock, Michael Peter Hagen and James Weldon Hampton.

Michael William Hanson, Grant William Farrer, Kerry A. Harthcock, Robert F. Haynsworth Jr., Lorre Timothy Henderson, Ann Marit Hilmo, John Steven Hoerster, Todd Read Holman, Peter Forrest Holmes, Robert Harold Honea and Alan Gary Horovitz.

Alan Lee Hubbard, Susan Jeanne Hubbard, Hal David Huffman, James M. Hull, Robert Wayne Hurst, Karen Scott Jacobson, Leslie Desmond Jennings, Susan Rose Johnson, Ronald Kapp, Robert Hart Kelly and Gerald Lewis Kiel.

William Thomas Kittleman, John Marshall Knox II, Scott Koenig, Donald Ray Koester, Stephen Louis Kopecky, Kurtis Ray Krueger, Paul David Kyte, Robert Cyril Lali-barte Jr., Joel Parker Laughlin, Lewis A. Leavitt III and Patricia C. Lee.

Margaret Anne Lemak, Michael David Lessem, Barry Leshin, June Sanders Mabry, Chris Edward Malone, Chi C. Mao, Tomas Dittto Martin, Gynette Carol Master, Curtis Duane Maynard, Kerry D. McCarroll and Jeffrey Varyck Mendell.

Sara Michie, Gordon George Mitchell, David Monyak, Catherine Dianne Moore, Donald Cade Nelms, George Edward Ogdee, Eugene David Pampe, Ricardo Rafael Pardo, Fandy Lynn Park, Gregg Matthew Paul and William Raymond Pfeiffer.

Susan Smith Pinero, Alton P. Prihoda, James G. Randolph, Joe Hundley Rankin, Jane Carol Reed, Dan Craddock Rice, Wade Ronald Rosenberg, Patricia Denise Salvato, Jerome Mark Sampson, Lucy Hannah Sauer and Mary Katharine Scepanzky.

Mary Cathleen Schanzer, Peter Dennis Scholl, Edward Allen Seidel, Eric Lindsay Shepard, Charles Edward Smith, Stephen Craig Spain, Theresa Lynne Stecker, James Byron Stone, Vernon David Theis Jr., Robert Ladd Thompson and Carla Underhill.

Gordon Glenn Uretsky, Andrew Gabor Verady, Ronald W. Varns, Richard Martell Vigness, James Michael Vollers, Daniel Richard Walker, Vernon Ray Walling II and Michael George Watkins.

School of Nursing

Degree of Master of Science in Nursing

December 1980: Joanna Barnes, Dorothy Elizabeth Brozek, Patricia Lat. Grueneberg, Mary Louise Long, Georganna Mansour, Mary Ann McLoughlin, Sue Ellen Milfelt, Joar Bryan Morris, Faye Beth Landolt Palmer, Margaret Regina Prydun, Deborah Jolyn West Scheirman, Elizabeth Tamplet Ulrich, Marsha Nadine Glickman Wezman and Cecelia Frances Yokubaitis.

March 1981: Sally Miller Heinz, Jo Ann Rao Johnson and Margaret Agnes Wilson.

June 1981: Susan Beth Priest.

Degree of Bachelor of Science in Nursing

December 1980. Nanette Abt, Tracey Lee Abt, Barbara Lynn Bowers, Anne Elizabeth Child Burgess, Susan Bonnie Cohen, Carolyn Cole, Christine Elizabeth Sankey Darbonne, Marianne Debell, Joray Delacruz, Lillian Maria Devarona and Sherry Dillenburger.

Ree Ann Drennan, Laura Del Socorro Rosales Duncan, Mary Frances Duncan, Katherine Jane Eakin, Jane Aden Emmert, Sandra Kay Eppink, Karen L. Ferguson, Denise Foster, Cynthia Kluge Fullbright, Sheila Ann Greak and Marlene Mary Stonesfer Grivon.

Terri L. Hannah, Christine Marie Harju, Georganne Hattton, Beverly Carol Kay Henderson, Cindy Wallis Henning, Kim Womack Hervey, Patricia Marie Cappadonna Hightower, Karen Marie Holmes, Christine Hosek, Brenda Ann Hurley and Jetske Insinger.

Sheryl Lynn McLaughlin Kellam, Sally Sponsel Kerr, Lisa Anne Gifford Koch, Nancy Karen Viaclovsky Kolafa, Jeanine Edyth Kunkel, Teri Marie Lester, Ann Lavon Maris, Linda Dianne Mauney, Mary Ellen Maupin and Cynthia Maher McKee.

Ofelía Mendez, Martha Jean Moore, Patricia Ann Barker Moore, Donna Ann Moran, Gloria Jean Morrow, Deary Elizabeth Brown Panek, Susan Marie Paplanus, Vicki Sheryl Parker, Linda Payton and Lisa Ann Peterson.

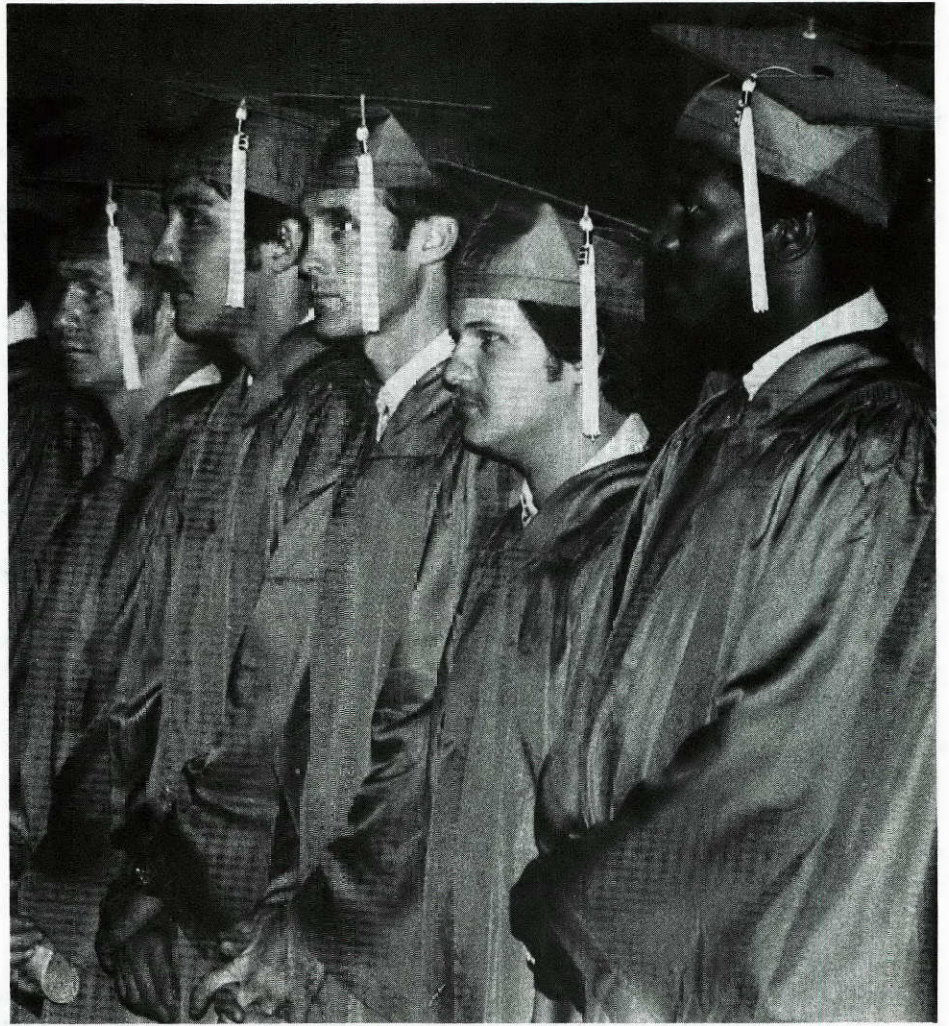
Randolph James Potts, Nancy Trimble Ramp, Marc J. Rosenthal, Anna Laurie Skaw, Sylvia Abundis Sims, Connie Cheshier Skidmore, Mercedes Joann Thomas, Nancy Jane Weber, Florence Worchesik and Susan Patricia Wright.

March 1981: Eileen Walker Mundorff.

June 1981: Clara Josephine Altenbern, Nancy Jane Anderson, Patricia Ann Anderson, Mary Debra Bench, Deborah Benson Brooks, Elaine Fleming Bischof, Rhonda Lin Branch, Renee Broussard, Carol Lynn Brown, Mary Susan Burst and Nancy Elizabeth Carlisle.

Debra Faye Charles, Cindy Duke Cobaa, Kathleen Patricia Colvig, Jeannette Lilliar Compton, Nancy Ann Dean, Myra Sybil Delaplair, Susan Coan Dickerson, Barbara Sue Duren, Brenda Smith Ford, Donna Lynn Getty and Melodyanne Faith Gigl.

Cynthia Ruth Goldberg, Rcsalinda Guzman, Michael Graves, Carol Graham Hart, Heike Renate Hartmann, Lydia Hernandez, Mary Elizabeth Higgins, Barbara Ann Hilburn, Constance Conley Hudson, Rosario Guzman Kaiser and Catherine Dolores Beckwith Kaus.



NEW HEALTH PROFESSIONALS — These graduates of the School of Allied Health Sciences are among more than 600 Health Science Center students who were recognized at commencement ceremonies June 12 and 13. (Photo by Gary Parker)

Kimberlie Rae King, Janet Gay Kohutek, Carol Ann LaMonica, Susan Beasley Landry, Leona Mae Lee, Leslie Jean Leeder, Wanda Kay Lewis, Ruth Christine Lindblade, Ann Marie Lindsey and Marlene Zaker Lindstrom.

Linda Marie Mabry-Meyer, Virginia Ruth Manning, Mary Lydia Martin, Catherine A. Mezick, Ann Christine Mommessin, Karen Ann Moore, Donna Queyrouze Neai, Mary Margaret Newman, Peggy Dean Niece and Margaret Orwudiegwu.

Toni Petrey, Glenda Gail Popp, Jane Marie Rohan, Carol Jan Saunders, Elizabeth Ann Salf, Esther Simmons, D. D. White-Skaug, Ruth M. Smith, Vicki Williams Smuts and Daniel George Stefan.

Joan Marie Stokes, Carrie Chapple Taylor, Patricia Anne Thiele, Catherine Ruth Thompson, Tamora Ann Tidwell, Patty Tindell Walker, Linda Warren, Jamie King Wilding, Doris M. Bradshaw Zale and Mary Caroline Zolt-Walker.

School of Public Health

Degree of Master of Science

June 1981: Melissa L. Brady, Charles E. Ford, Lynley C.B. Harris, I-Ping Jennie Hsu, Susan Rea, Michael L. Reid, Harry Sokolow and Paul A. Waddell.

March 1981: Walter F. Euschütz and John R. Walton.

December 1980: Jone-Ing Lin, Robert K. Roulston, David Voelte and Cathy A. Way.

September 1980: Anna E. Baran, Ernest K. Borcen, Peter B. Conroy, Robert R. Reschke and Susen A. Reyes

Degree of Master of Public Health

June 1981: Valerie I. Andrew, Khleber V. Atitwell, Debra A. Balsaver, Deborah Lynne Barr, Carol M. Breslauer, Alan F. Carr, Debra Kathleen Carroll, Barbara D. Cole, Philip J. Corbin, Judith L. Craver, Geraldine S. Crow and Joni T. Cunningham.

Barbara A. Calle-Molle, Kenneth C. Dozier, Gery M. DuParc, June E. Eichner, Leann G. Eldridge, Linda Sterrett Eling, Robert J. Falbey, Thomas F. Flaherty, Gordon Fint, Manuel Fresno-Villegas, Judith Barrios y Arios Fersnedo and Rosemar, A. Fuerst.

Leonard G. Gallia, Kathryn Ycst Gardner, Ana Garza, Clara A. Gonzalez, Robert E. Hain, Beverly Harper, Kathryn R. Herzler, James L. Hilburn, Patricia Hogan, Wen-Ying Huang, Elaine A. Jenkins, Viero Tellervc Johnson and Sandra K. Joos.

Doris C. Kalmans, John M. Knox II, Mary M. Kutka, James Allen Landry, Hor-Chang Lee, Jewelleen S. Mangaroo, Ricardo A. Martinez, Jose L. Maymi-Rivera, Nancy Marie McLean, Eloy Medina, Ezequiel Meddieta Jr., Marilee A. Mitchell and James Folk Morris III.

Ralph D. Morris, Punam Myer, Thomas J.

Nicholson, Narun Nessa, Sharon M. Owens, Allen J. Parmet, Hsin Peng, Luther C. Pettigrew Jr., Lesa J. Raschke, Elvia Rios, Mahendra Roychowdhury, Saint J. Xavier Sosa and Margaret R. Spitz.

Lois C. Steinfeldt, Mark J. Stine, Angela Tseng, Jeffrey P. Wagner, Anna P. Wheeler, Londa V. Wilson, Madelyn Claire Winterholler, Melanie J. Wolf, Verneeta E. Yepp and Annette Mazur Zinn.

March 1981: Nancy A. Brandenburg, James M. Bromley-Diaz, Lisa D. Collis, Cathy C. Courtney, Tina T. Fields, Leonard W. Gopp, John J. Kalosis, David H. McLellan, Cynthia C. McNeil, Jadhav Ramakanth, Andrea L. Smesny, Patricia A. Spicer, Susan H. Tilton, Nancy J. Young and Gh. Reza M. Zadeii.

December 1980: Andrea I. Brauer, Sangsook A. Cho, Kathryn L. Cortes, Mary L. Curran, Eve E. France, Brenda E. Hannon, Claudia A. Heath, James G. Horton, Bonnie J. Johnson, Palmira M. Lacour, Julie B. Lefever and Nancy L. MacNaughton.

Laura J. Mathew, Heidi L. McMillan, Catherine M. Roberts, Susan G. Sampson, Joan M. Silvers, James M. Slevin, Jeffery W. Tenny, Tia F. Tucker, James M. Vanderploeg, Jane L. Whitney, Deborah K. Worsham and Karen M. Young.

September 1980: Bethany J. Banks, Maria N. Campbell, Diane B. Carr, Carl W. Clark, Patricia C. Clark, Clifford C. Dacso, Moshira M. El-Shaffie, Kathleen N. Keppler, Man-King M. Lam, Alan C. McNeil, Norma J. Miller and Keith H. Morgenlander.

William E. Petty, Ellen B. Roecker, Tresa M. Saxton, Maija L. Selby, Sandra E. Swackhamer, Ryoji Takahara, Hoo Tan and Rachel C. Wood.

Degree of Doctor of Philosophy

June 1981: Nita Lorene Lewis, Betsy E. Dutary, Talmage M. Holmes, Winston C. Liao and Barbara C. Tilley.

March 1981: Curtis R. Bartz.

December 1980: James Earl D'Eramo, Mary A. Murphy, Dorothy Nelson Snyder and Rowland Norman Wilkinson.

September 1980: Ure A. Anugwelem, Robert H. Bigelow and Dexter L. (Tony) Morris.

Degree of Doctor of Public Health

June 1981: Vincent U. Agu, Carmen M. Allende de Rivera, Anita B. Bennetts, Gregory F. Bogdan, Steven C. DeAlmeida, Patrick O. Emeharole, Anna L. Haine, Kirk C. Harlow, Ingrid M. Hernandez Matheson, Okechukwu C. Nwanyanwu and Jay Wolfson.

March 1981: Judy E. Perkin.

December 1980: Yi-Chang Lin and Ann H. Rose

September 1980: Mary V. Fenton, Robert S. Gold and Samuel O. Osueke.

By Diane Broberg

Those wonderful summer cookouts and evenings for enjoying outdoors — the one time of day when the temperature is bearable — can be ruined in Houston by bugs.

We have more than our share of mosquitoes this time of year, so cover up well at night. According to Dr. Claude Frazier in *Woman's Day* magazine, you should stuff your pants legs into your socks, wear long-sleeved shirts with the collar buttoned, tuck your hair into a scarf and use repellents that contain N-diethyl-toluamide (such as Cutter's brand.)

All this may keep you from getting bitten, but is also guaranteed to get you some negative glances if you're going swimming with your friends. Frazier further advises avoiding bright colors, floppy clothes, sweet scents and flailing your arms, all of which draw bugs closer.

Ever try playing tennis without flailing your arms? Dr. W. Paul Biggers of the University of North Carolina School of Medicine warns in their institution's newspaper to avoid "tennis mouth" this summer. While everyone knows that improperly swinging the racket can cause "tennis elbow," "tennis mouth" is caused by improperly

criticizing one's partner.

If you are bitten (by bugs, not by your tennis partner), you can treat most bites yourself by washing the affected area with soap and water, then applying alcohol, witch hazel, or a soothing ointment. An ice cube wrapped in a handkerchief can relieve swelling, the *Woman's Day* article said.

Some people are bothered by itching caused by prickly heat, allergy or nerves and have tried everything from meat tenderizer to baking soda for relief. Try one more. Dr. Jonathan Zizmor, a dermatologist, suggests that you fill a quart bottle with equal parts of ice and milk, add two tablespoons of salt, dip a cloth in the mixture and apply to the itchy area for 20 minutes three to four times a day.

For chronic itching, many doctors recommend antihistamines, but some of them can cause allergies themselves. This information is all from the *Woman's Day* article, but applies to men as well.

If you're one of those allergic types, you may not want to soothe your itches by drinking wine at a friend's house — especially if the friend has a cat.

The reason for avoiding such an activity is that a person allergic to cats may react only when "triggered" by a mold-based beverage like wine or beer, the *Houston Chronicle* said. Apparently a Penn State English professor and an allergist have written a book on the subject of unsuspected situations that could cause allergies.

Besides allergies and itching, another summer pain is sunburn. But the next time you're red, think of the Kentucky "Blue People," who have the blues all the time.

It's true. Several generations of inbreeding are what cause this group to have blue skin. They are missing an enzyme in their red blood cells, according to the *Chronicle's* report of a hematologist's research along the banks of Troublesome Creek, Ky.

The hematologist, from the University of Kentucky at Lexington, has found a quick and easy cure for the blueness: an inexpensive urinary antiseptic called methylene blue that has to be taken daily.

It changes these folks' skin color, and they are "tickled pink" about it, the hematologist said.

Wonder if they turn purple when they sunburn?

Animals, people may develop tolerance to pesticides

(Continued from page 1)

when individuals were treated with similar compounds for myasthenia gravis, a disorder marked by progressive muscular paralysis, they seemed to need increasingly large doses to achieve the same effect.

"We wondered, 'Is this tolerance only a phenomenon of acute toxicity?' If it depends on acute exposure, tolerance would be unlikely to develop among people," he said. "Regulations are fairly successful in protecting the general population from hazardous concentrations of insecticides in food and water. The people most likely to be exposed to insecticides are those working in areas such as pest control, where they receive repeated small doses instead of large single doses."

The UT researchers introduced an organophosphate insecticide into the diet of two groups of rats. One group received a large dose, showed

signs of poisoning, recovered and developed a tolerance to future doses. The other group received smaller doses and did not show signs of poisoning. Another control group did not receive insecticide.

"The people most likely to be exposed to insecticides are those working in areas such as pest control, where they receive repeated small doses instead of large single doses."

All three groups of rats were then challenged with carbachol, a compound which acts on the same sites in the nervous system (or receptors) as acetylcholine, which accumulates after exposure to the insecticide. In both insecticide-treated groups carbachol had a reduced effect in comparison to the control group, Murphy said. This indicated

that tolerance could develop even when there were no outward signs of acute poisoning.

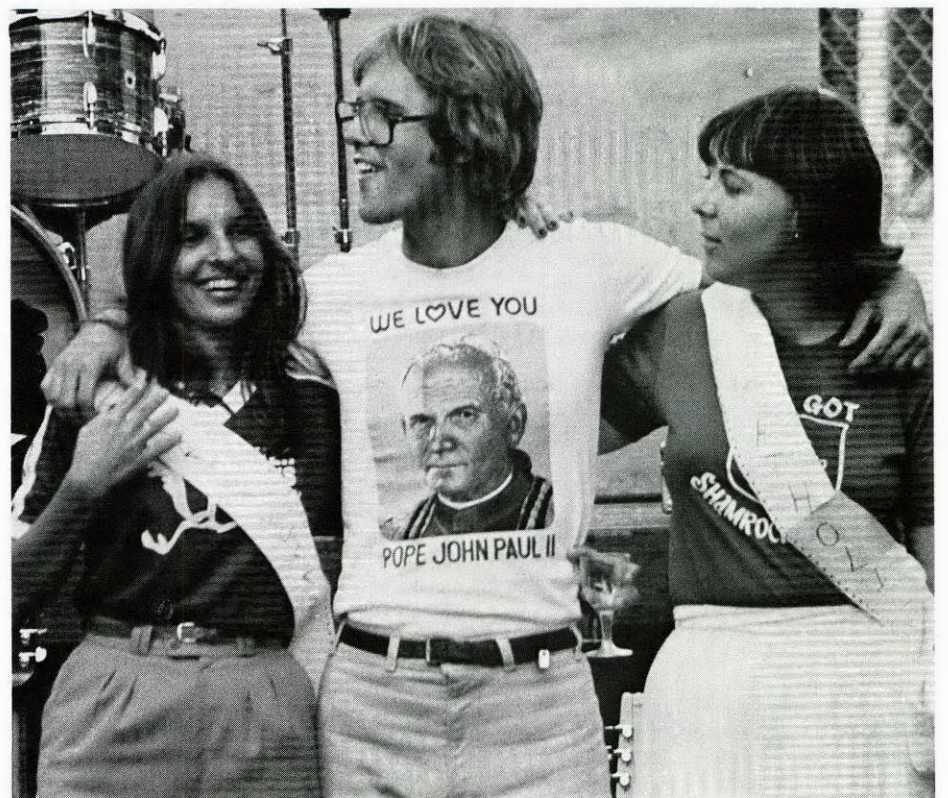
In collaboration with Dr. S.J. Enna, professor of neurobiology and anatomy and of pharmacology, the research group adapted a method for labeling the receptors with a radioactive compound and measuring its concentration at the receptors. In a series of experiments with this labeled compound, they found evidence which suggests that the amount of acetylcholine bound to the receptors was reduced after repeated exposure to the insecticides. In fact, there seemed to be a decrease in the number of

receptors.

In both rats and mice the onset of tolerance and the reversal to a normal susceptibility to poisoning corresponded to the decrease and recovery in the number of receptors, Murphy said, suggesting that the decrease in the number of receptors was the mechanism for the development of tolerance to these compounds.

Work is continuing in Murphy's laboratory to determine the mechanism of tolerance to related compounds and the differences in the reactions of different animal species.

UT



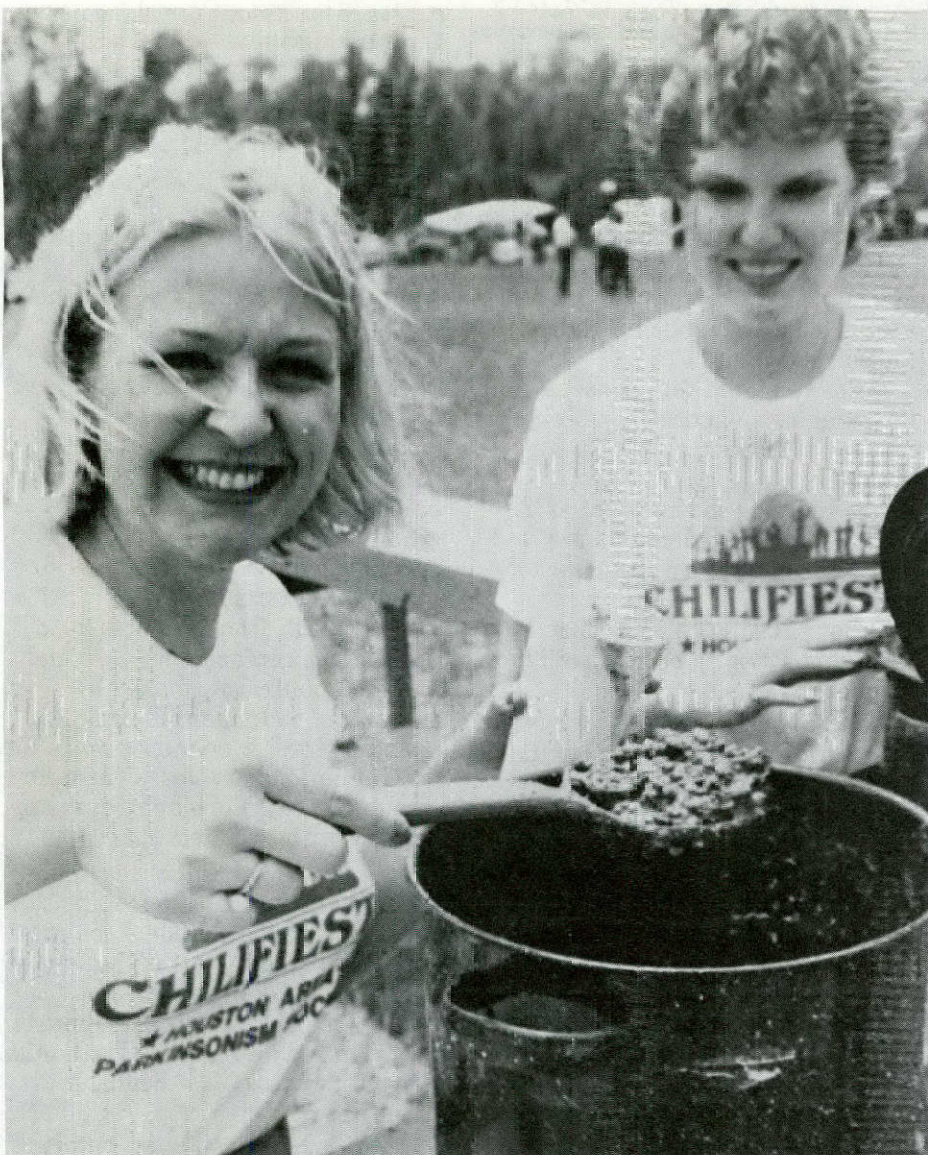
LUCK O' THE IRISH — First-place winners in the "group effort" category at the T-shirt Party were (left to right) Annette Zinn, Mike Colopy and Nancy McLean, MPH students at the School of Public Health. Their theme was "The Bobby Sands Memorial." The other categories and their first-place winners were: farthest away — Melissa Bondy, School of Public Health June graduate, with a T-shirt from Shanghai, China; most risqué — Kathy Gravink, girlfriend of medical student, Ed Lewis, with a questionable T-shirt from Terlingua; Texas theme — Ed Lewis, first-year medical student, with another T-shirt from Terlingua; most bizarre — Debbie Barr, MPH student at the School of Public Health, with a T-shirt that said, "have you been buffed today?" All first-place winners received a case of Lone Star Longnecks, while the second-place winners received a certificate for a free T-shirt from the HSC Bookstore.

THE TRIUMVIRATE — The second annual T-shirt Party sponsored by the HSC Student Union featured good-spirited judges John Porretto, vice president for administration and finance; Bob Bowman, director of auxiliary enterprises; and Dr. Valerie Knotts, associate director of academic affairs. (Photos by Gary Parker)



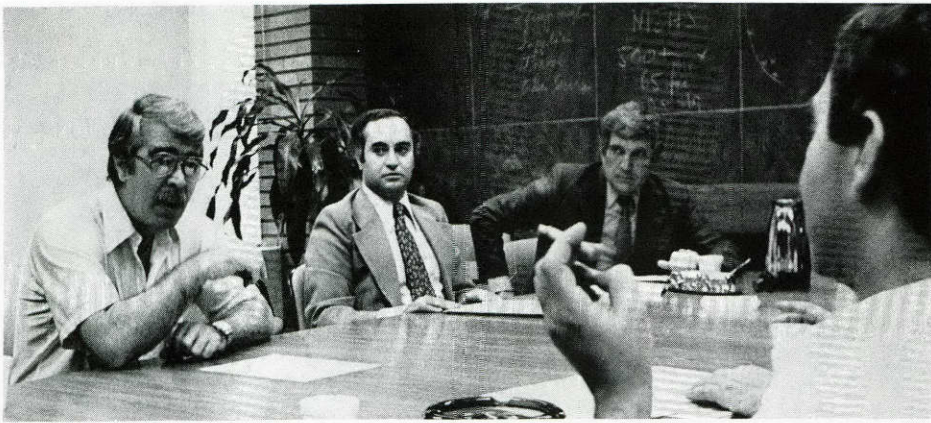
TOP WINNERS — At left, Raggedy Ann's Ragtime Chili captured the hearts of the judges at the Chilifiesta. The twins, Harriet Deutsch and Helen Hansard, took home top honors in showmanship. Always ready to cover colorful news in the making is HSC-TV photographer David Kolosta, who taped the day's activities for Channel 10's "Midday" program. Below, John Musgrave proves that Medical School students soar to great heights. A second-year student, Musgrave has been skydiving for six years and has more than 200 jumps in his log book. High winds prevented his planned jump at the Chilifiesta, but Texas passports, music, an egg toss and other activities provided fun for the crowd of more than 1,000 people. (Photos by Gary Parker)

CHILIFIESTA



TASTIN' TIME — What's more tempting to the tastebuds than a steaming pot of Texas chili? Barbara Sunderland, executive director of the Houston Area Parkinsonism Society (HAPS), stirs up a spoonful. The Chilifiesta was co-sponsored by the Health Science Center to benefit HAPS. HAPS is a non-profit organization offering occupational therapy, speech therapy, recreation therapy, a crisis hot line and counseling services for individuals and their families coping with the debilitating symptoms of Parkinson Disease. Dr. Joe Wood, professor and chairman of the Department of Neurobiology and Anatomy, was chairman of the planning committee.





HEY, LOOK US OVER — Dr. George Walker (left), associate professor of health services administration at the School of Public Health, is one of the Health Science Center representatives to meet with Syrian government and educational representatives on a recent visit to the United States. They visited a number of institutions attended by Syrian students who were selected by the government for scholarships to obtain specific educational training in return for service to their country. With Walker are Subhi Ajalyakeen (center), a student in the School of Public Health; the translator; and Dr. Abdel Majid Cheikh Hussein (back to camera), president of Al Baath University. (Photo by Gary Parker)



VISITORS AND VISAS — Paul O'Neill (far right), district director of the U.S. Immigration and Naturalization Service, talks with foreign student advisors from area colleges and universities in a recent meeting at the Health Science Center. From left to right are Ron Thompson, University of Houston; Dr. James Lee, Texas Southern University; and Mary Helen Barajas, HSC director of international affairs. With his back to the camera is LeVonne Harrell, Texas Southern. (Photo by Gary Parker)

Newsmakers

Dr. John P. McGovern, who is on the faculties of the Graduate School of Biomedical Sciences and the schools of medicine, public health and allied health sciences, was honored with a book titled *Appreciations, Reminiscences and Tributes Honoring John P. McGovern* during the American College of Allergists annual congress in Washington, D.C., April 5. McGovern founded the McGovern Allergy Clinic in Houston in 1956. He also holds appointments at Baylor College of Medicine and M.D. Anderson Hospital and Tumor Institute.

HSC General

Richard S. Johnston, special assistant to the president for development, was named to an advisory committee which will review programs in advanced life support systems development for the National Aeronautics and Space Administration. Johnston previously worked at NASA for more than 20 years. The committee will make recommendations for research to improve life support systems.

School of Allied Health Sciences

Barbara Smith Michael, instructor and educational resources coordinator for the program in medical technology, and her husband jointly received the "Keystonian of the Year" award from the alumni association of Keystone Junior College in Scranton, Pa.

They are the first couple to receive the award, given for their "significant contributions" in medical technology and research, and their work with students. Barbara's husband, Dr. Lloyd H. Michael, is assistant professor in the cardiovascular section of the Department of Medicine and Physiology at Baylor College of Medicine.

Kathy Pitre, program director for radiologic technology education, presented a paper titled "The Face, the Head... An Everyday Occurrence" during the 51st annual meeting of the Texas Society of Radiologic Technologists at the Shamrock-Hilton Hotel, April 29-May 2.

Medical School

Dr. William S. Fields, professor and chairman of the neurology, was named a Life Member of the Board of Governors for the Center for the Retarded in Houston. Fields has served on the board of the agency since its beginnings and most recently chaired the Professional Advisory Committee. Fields was honored at a recent board meeting where he was presented with a desk set manufactured in the sheltered workshop.

Dr. Edward M. Copeland III, professor of surgery, has been elected to a fellowship in the American Surgical Association. The organization has 350 active members, including 33 from Texas and 12 from Houston. Copeland's election to membership was announced at the group's annual meeting in Chicago, April 22-24.

Dr. McKim Peterson, assistant professor of family practice, and **Dr. Linda Peterson**, assistant professor of psychiatry, made a presentation titled "Use of

Patient Education about Medication in a Day Treatment Setting" during the Adult Psychiatry Day of the fifth Multidisciplinary National Forum in St. Paul, Minn., during April.

Dr. Harold M. Jesurun, professor of obstetrics and gynecology, discussed early signs of cancer, its prevention and management in females, during a panel discussion moderated by Luis Zuniga on radio station KEYH.

Dr. Patti Jayne Ross, assistant professor of obstetrics and gynecology, discussed teenage pregnancy on KTRK-TV, channel 13, on April 26, and teenage contraception on KPRC-TV, channel 2, on April 27.

Dental Science Institute

Dr. Barnet M. Levy, professor of pathology and director of the institute, spoke on "Dental Research and Dental Public Health" during the 1981 annual session of the Association of State and Territorial Dental Directors in San Antonio, April 13-14.

Anesthetists strive to prevent mishaps

By Susan Fox

(From a report by Myrna Walker, Nurse Anesthesia)

Feeling carefree and frivolous,

the nurse anesthesia student quickly wheels his cart down the hospital corridor.

The cart rattles, causing the

machine on top to vibrate. Quickening his pace, the student heads for the corner.

Rounding the corner is easy. But the machine's vaporizer, attached only by suction cups, falls to the ground.

Dismissing the accident as a trivial one, the student picks up the vaporizer and returns it to the machine.

He parks the cart and machine in a room, where a patient waits for an operation.

In this incident nearly 20 years ago, the student didn't realize that the accident with the vaporizer would cause the 22-year-old patient to inhale unusually large amounts of halothane (an anesthetic) and suffer a heart attack, recalled Hershel Bradshaw, program director of the nurse anesthesia program at the School of Allied Health Sciences.

"When the vaporizer tilted, liquid anesthesia spilled into the delivery tubing," Bradshaw explained, adding that the patient, who recovered, received about 10 times the normal amount of halothane.

After this particular incident was investigated, manufacturers began permanently attaching the vaporizer to the anesthesia machine.

According to Bradshaw, who

recently addressed nurse anesthetists in El Paso at their 45th state meeting, the machinery and practice of anesthesiology are improved only through trial and error, and discussion.

Several anesthetists in various parts of the country comprise a group which meets periodically with manufacturers to discuss ideas to improve the machines.

Currently, the group hopes to persuade manufacturers here and in other countries to make all anesthesia machines uniform. For example, foreign countries make the control buttons in colors contradictory to those on the machines made here, Bradshaw noted.

About 38 percent of the accidents related to anesthesiology occur during the middle of the procedure, according to a recent study conducted in four hospitals.

It's important that anesthetists be organized and pay close attention to what they're doing, Bradshaw stressed.

All nurse anesthetists entering the program at UT are registered nurses who have one year of experience. The two-year program includes about 470 class hours and more than 1,000 clinical hours. **UT**



GOODWILL DONATION — Kappa Alpha Theta Alums recently donated \$9,500 to the dental clinic at Goodwill Industries. The clinic, run in cooperation with the Dental Branch, serves any handicapped person and those disadvantaged individuals living within a seven-mile radius of the facility. The donation was made possible by funds raised at the annual Theta Charity Antique Show. From left to right are Sherrill Hoffman, chairman of the 1980 Charity Show; Joan Dodge; Bill Lufburrow, president of Goodwill; and Dr. Frank Collura, director of the dental clinic.

Meeting needs — goal of effective manager

By Ina Fried

Men and women need the same management skills, but they face different obstacles because of their own attitudes and the attitudes of those they work with, according to Dr. Carol Cossum a psychologist and Houston area instructor for effectiveness training.

"We're all sexist" because of the way we were reared, Cossum said in a one-day seminar on "Women in Management," sponsored by the Personnel Department Training Program.

Leadership is the influence that gets needs met: my subordinate's needs, my needs as a manager and the needs of the organization, she said.

"Women are trained to serve others," she said, but it's especially important in a business situation not to take on everyone else's problems. It's more effective to help people solve their own problems.

While it may seem helpful, giving advice implies that the person with the problem is too stupid to figure it out.

Cossum listed skills that a manager can use to help a subordinate

solve his or her own problems:

1. Attending — squarely facing the person with an open and relaxed body posture, leaning forward and maintaining eye contact but not staring the person down.

2. Silence — listening with interest and concern.

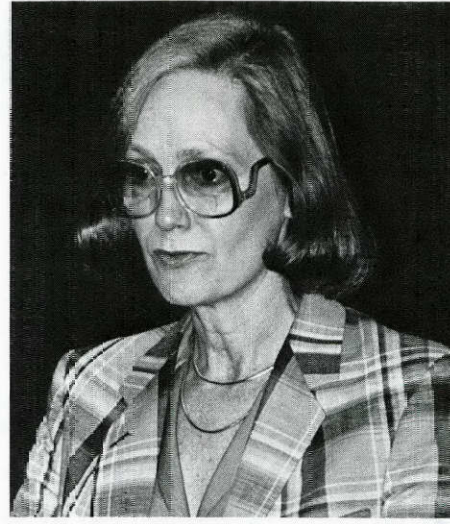
3. Acknowledgement — nodding the head or saying something noncommittal, such as, "I see," to express acceptance and empathy.

4. Door openers — inviting the person to continue, such as, "Would you like to talk about it?"

5. Active listening — helping the other person understand both the thoughts and feelings being expressed, such as, "You're not pleased with the way your report is coming."

Active listening makes sense when the other person has a problem in which you are not emotionally involved and when you both have time, Cossum said. After active listening, you may move into problem solving.

In problem solving, first define the needs, next help the person generate alternatives (brainstorm), then evaluate the alternatives, let the



ONE OF THE PAYOFFS for involving people in the solution of a conflict is that they'll have more of a stake in carrying out the solution, says Dr. Carol Cossum, who conducted a one-day seminar on "Women in Management." (Photo by Gary Parker)

person decide on one and implement the solution, and finally follow up on results.

These same problem solving skills can be used effectively when there is a conflict of needs, she said. If both people (or groups of people) have influence into the solution of

the conflict, no one "loses," and there is not likely to be the resentment or loss of respect that result from imposing an authoritarian solution or letting yourself be "Walked on."

"One of the payoffs for involving people in the solution of a conflict is that they'll have more of a stake in carrying out the solution," she added.

When the manager has an unmet need, she should use a method of confrontation that produces change without lowering the other person's self-esteem and without damaging the relationship, Cossum said.

"No one like to be confronted," she said, but added that a confrontive "I-message" can be effective. The confrontive "I-message" includes a description of the specific behavior causing you problem, an expression of your feelings and a statement about the concrete effects the behavior has on you. For example, "When you come to work at 8:30 and leave at 4 o'clock, I get really worried because I have three annual reports that must be done on time."

UT

Etc.

School of Allied Health Sciences — Cytotechnology

Meredith Fox, clinical instructor, resigned effective June 30. She and her husband moved to San Diego where he will be an assistant hospital administrator with American Medical International.

Reporter: **Becky Starkey**

Congratulations to Glenn and **Becky Starkey** on the adoption of Richard and Timothy Starkey on May 26. Becky is the administrative secretary for the blood bank technology, cytotechnology and histotechnology programs.

School of Allied Health Sciences — Emergency Medical Services

Lois Bradley recently joined the program as a senior secretary. She previously worked in the nursing school.

Reporter: **Rebecca J. Brady**

School of Allied Health Sciences — Nurse Anesthesia

Myrna Walker is now the perma-

nent administrative secretary for the program. Diane Cartwright resigned as administrative secretary to work at home.

Reporter: **Rebecca J. Brady**

School of Allied Health Sciences — Nutrition and Dietetics

Brenda Sessions, who recently became the senior secretary for the program and respiratory therapy, married Larry Sessions on May 9.

Reporter: **Rebecca J. Brady**

School of Allied Health Sciences — Radiologic Technology

Joe Foley recently transferred to the Department of Radiology in the Medical School. He is working with **Dr. Sharad Amtey** and specializing in radiation health physics. Foley joined radiologic technology in 1975.

Reporter: **Rose Kunik**

Dental Branch — Curriculum Office

Best Wishes and congratulations to **Marilyn Hepola**, of the curriculum off-

ice, and **Gary Keller** on the occasion of their marriage, June 13. Another congratulations is in order for Keller, who graduated from the dental school the same day.

Reporter: **Eugenie Holman**

HSC General — Printing Services

Ed Metoyer, manager, resigned effective May 22 to take a position with a Houston printing firm. Metoyer worked at the HSC for four years.

Reporter: **Cheri Spitzenberger**

Medical School — Family Practice

Dr. and Mrs. Russell Thomas are the proud parents of a baby boy born May 18. Thomas is a first-year resident.

Reporter: **Sandra Wadley**

Speech and Hearing Institute — Clinical Services

Julia Bowman is the new coordinator for clinical services. She was previously a communications specialist and diagnostician for the institute.

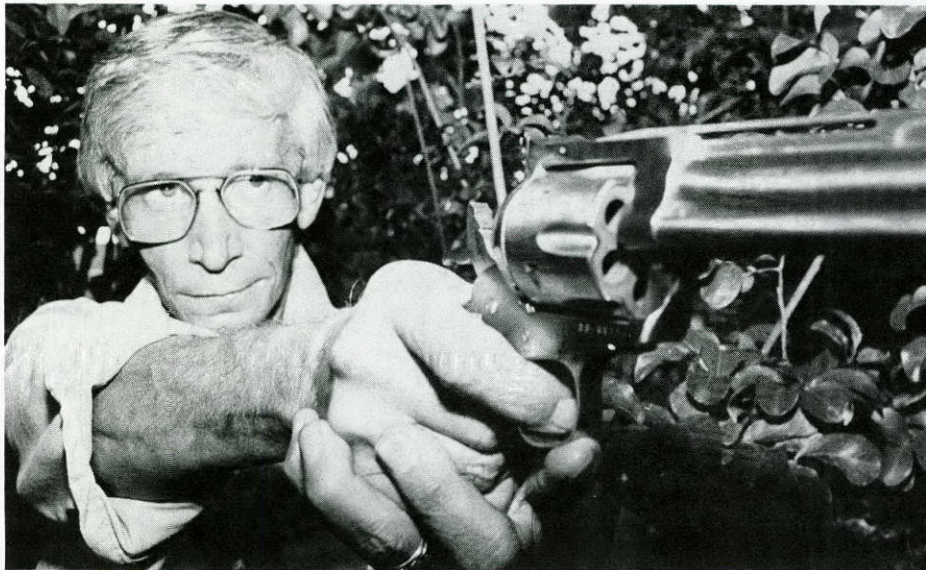
An Oct. 3 wedding is planned for

Jean Hebert, communications specialist, and **Ed Fisher**, marketing consultant for Southwestern Bell.

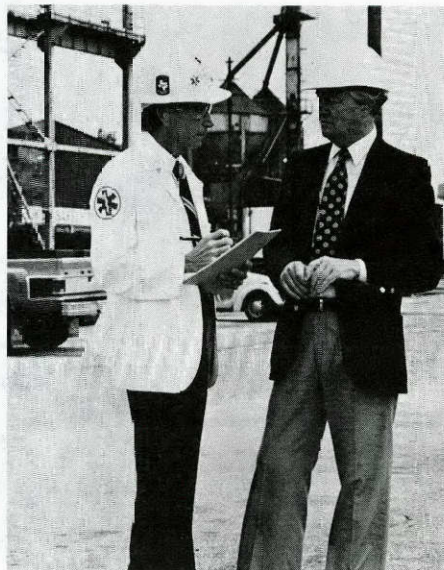
Reporter: **Ruth Haberkorn Halm**

Sportathon correction

In the tennis competition, the women's winners were listed incorrectly in the June *HoUTexas*. Carolyn Moore and Kathleen McBride won first place in the Women's Championship Bracket. Cheryl Chance and Delma Cardona won first in the Women's Consolation Bracket. We regret the error.



THE BETTER TO HEAR YOU WITH — Above left, Ray Lanbright takes aim at a noisy hobby, fastdraw competition. On a normal Saturday he may fire off 3,000 rounds of ammunition practicing to maintain his position as one of the top guns in Texas. Center, he describes his work as compensation officer in the medical department of the employee relations office at ARMCO Steel to Dr. T. Walter Carlin, former director of the Speech and Hearing Institute. Many people who have worked for a long time in noisy areas of plants like ARMCO have a hearing loss



of high frequency sound. Without ear protection, more exposure to noise causes additional hearing damage. Right, Lanbright shows the custom-fit, prescription industrial amplifier that Carlin helped develop. Turning off the knob in the center makes the device into one of the best hearing protectors available. It is also more comfortable than protective earmuffs or round earplugs. When he needs to hear, Lanbright simply turns the device on for amplification of the specific tones he needs. (Photos by Gary Parker)



Calendar

This calendar lists events open to Health Science Center faculty, staff and students. Notices of events for the August issue can be accepted at Public Affairs, Room 1117, Houston Main Building, or 792-4266, no later than July 2.

Wednesday, July 1

The Catholic Student Center, 1703 Bolsover, offers the Liturgy of The Eucharist each weekday at 5 p.m. The Liturgy of The Eucharist also is offered at The Institute of Religion (TMC) each weekday at 12:10 p.m. For information call 526-3809.

The gym at the HSC Recreation Center is reserved for volleyball every Wednesday during the summer from 6-8 p.m. For more information call Doug Franklin at 792-5885.

Friday, July 3

HSC holiday honoring America's Independence Day.

Deadline for submitting research proposals to be reviewed by the Committee for the Protection of Human Subjects. For information call 792-5048.

Saturday, July 4

The Catholic Student Center, 1703 Bolsover, offers the Liturgy of The Eucharist every Saturday at 5 p.m. and every Sunday at 9 and 11 a.m. The Sacrament of Reconciliation also is offered each Saturday, from 3:30 to 4:30 p.m. or by appointment. For information call 526-3809.

Monday, July 6

Deadline to register for Guadalupe River Trip, Aug. 7-9. For information call Employee Relations, 792-4911.

Thursday, July 9

6 p.m. Meeting of National Association of Hispanic Nurses, basement seminar room, Ben Taub Hospital. Speaker: State Rep. Al Luna. For information call Alice Cook, 791-7364.

Saturday, July 11

9 a.m. "Your Rights and Role as a Patient," Houston Area Women's Center seminar. School of Public Health Auditorium. Continues till 1 p.m. For information call 792-4403.

Friday, July 17

Meeting of the Committee for the Protection of Human Subjects. For information call 792-5048.

Friday, August 7

HSC Holiday.

Deadline for submitting research proposals to be reviewed by the Committee for the Protection of Human Subjects. For information call 792-5048.



PADDLE YOUR OWN CANOE — or raft, as these students do on a spring trip to the Guadalupe River sponsored by the Health Science Center Student Union. The Employee Relations Program will sponsor a similar adventure for faculty, staff

and students, and their families and friends, Aug. 7-9. For information call 792-4911. (Photo courtesy of Cindy Johnston, Student Union)

The University of Texas
Health Science Center at Houston
P.O. Box 20036
Houston, Texas 77025

Room 1117
1100 Holcombe Blvd.

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