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THE UNIVERSITY OF TEXAS HEALTH CENTER AT TYLER

capsule



**Biomedical research comes to East Texas
with opening of new facility.**

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SUMMER/FALL '87

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capsule

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In this issue:

Dedication of the \$9 million Biomedical Research Building culminates a decade of planning. UT System Board of Regents, headed by chairman Jess Hay, officially accepted the building. Lt. Gov. Bill Hobby was guest speaker. Coverage of the event begins on page 4.

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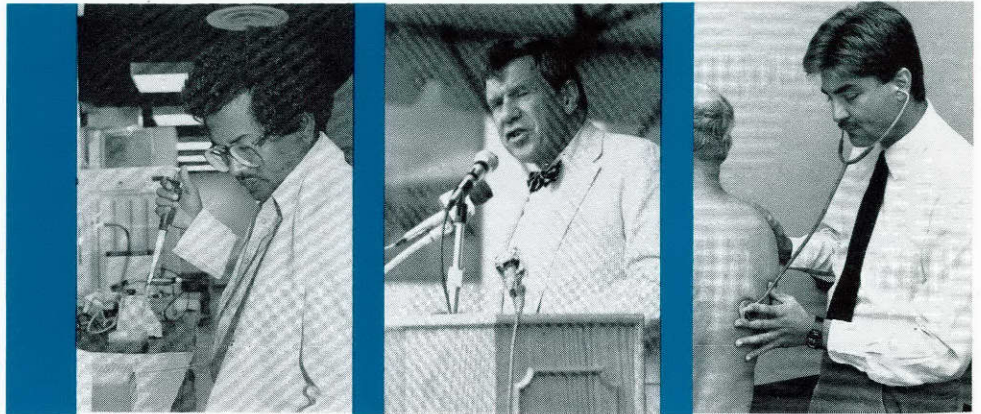
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For inquiries about admission write to:
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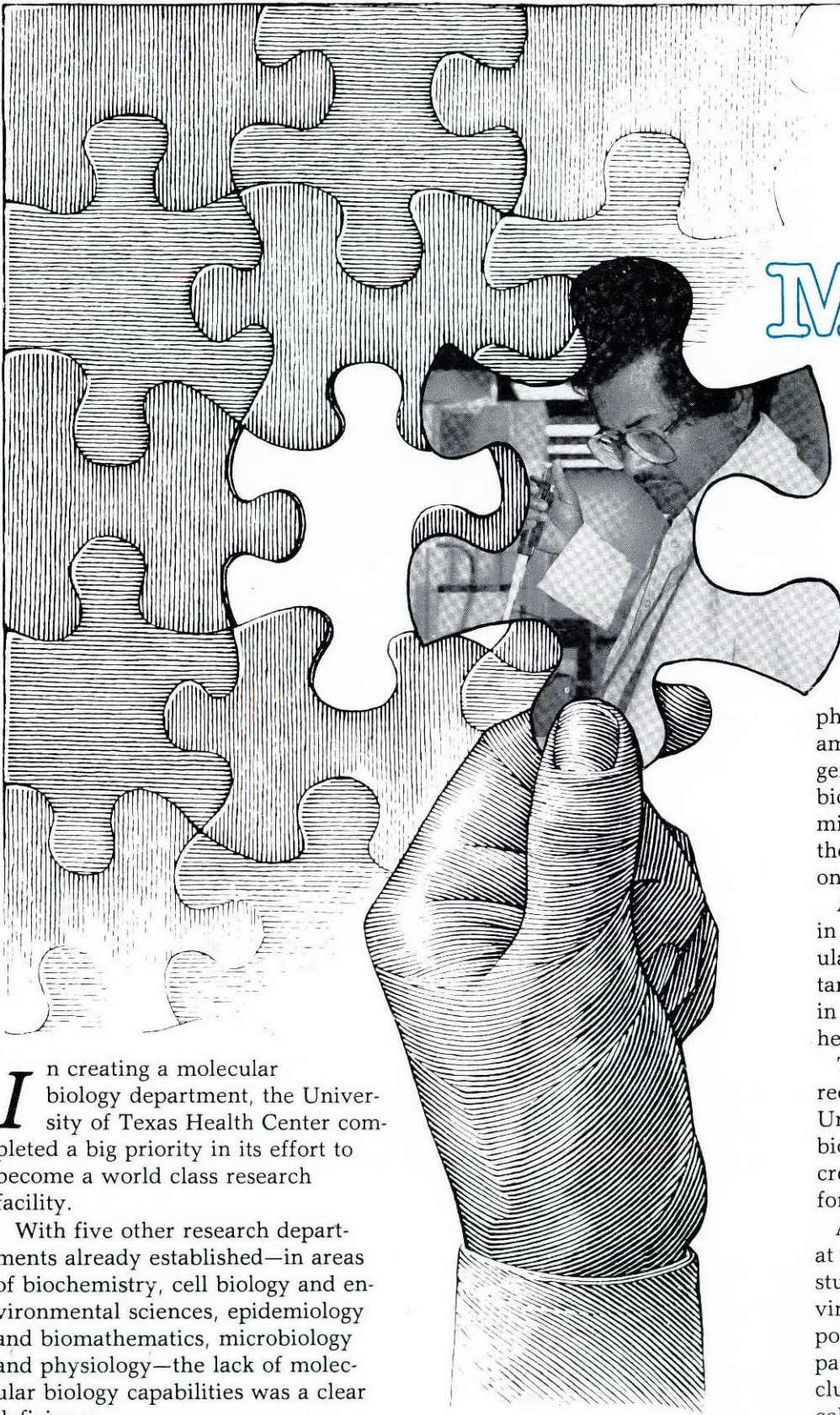
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The University of Texas Health Center at Tyler is a state referral hospital and research center for cardiopulmonary diseases. It is accredited by the Joint Commission for Hospital Accreditation and is a member of the American Hospital Association and the Texas Hospital Association.

The Missing Piece



In creating a molecular biology department, the University of Texas Health Center completed a big priority in its effort to become a world class research facility.

With five other research departments already established—in areas of biochemistry, cell biology and environmental sciences, epidemiology and biomathematics, microbiology and physiology—the lack of molecular biology capabilities was a clear deficiency.

The Tyler research program involves scientists who can—through their own research projects as well as team efforts—address the chemical, biochemical and biological mechanisms by which tissues become in-

jured at the cellular and subcellular level.

"Many diseases have their origin in genetic abnormalities," said Dr. Ronald F. Dodson, associate director for research. He cited asthma, em-

physema and cystic fibrosis as examples of diseases with proven genetic components. "Molecular biology provides a means of determining how genes function and how the proteins they produce are turned on and off," he said.

As a research center that specializes in cardiopulmonary diseases, molecular biology had become an important area that needed to be included in research being conducted at the health center, Dodson said.

Therefore, the health center recruited Dr. Gokul Das, formerly a University of Missouri-Kansas City biologist, to help develop the newly created research area. (See page 18 for more information).

At the health center Das, who trained at the National Institutes of Health, is studying oncogenes, hypothetical viral genetic material carrying the potential of cancer and passed from parent to offspring. Every gene, including the cancer-causing viral and cellular oncogenes, has its own regulatory switches, Das said. Different cellular and viral proteins bind to these switches to turn the gene on and off, he said. Das is especially interested in how the oncogene product, once it is made, plays a major

role in the regulatory process.

Through molecular biology or genetic engineering, great strides are being made in the study of emphysema, a destructive lung disease affecting hundreds of thousands of Americans, and in the search of the cause of cystic fibrosis, a progressive metabolic disease that strikes the lungs and digestive systems of children, Dodson noted.

One form of emphysema being

Many diseases such as cystic fibrosis, asthma and emphysema have their origin in genetic abnormalities.

studied in Tyler laboratories is known to be caused by a genetic abnormality called alpha-1-antitrypsin deficiency. Patients who have this abnormal gene secrete less alpha-1-antitrypsin, a protein which defends the lungs against destruction.

But now the abnormal gene has been identified, cloned and sequenced, Dodson said. Through additional studies, it is hoped this kind of emphysema—which occurs in emphysema patients who have this genetic deficiency—can be prevented.

Molecular biologists have also identified the segment of an abnormal gene found in cystic fibrosis patients. Final identification of the gene could lead researchers to identification of the abnormal gene product or protein which causes the disease, Dodson said.

There is particular interest in these findings because the health center is a regional cystic fibrosis satellite center.

Advances in molecular biology have had a tremendous impact on modern medicine within the past decade, Dodson said. Gene cloning has created a variety of new drugs and spawned a host of new diagnostic procedures. These include human insulin, growth hormone, interferon and many other drugs, hormones and reagents used in clinical testing.

—Rita Nute

Special Donations Establish Visiting Professorship



Dr. John Chapman (left) receives plaque from Dr. George Hurst.

An endowed visiting professorship to honor the research physician who helped establish biomedical research at the University of Texas Health Center has been created at the Tyler facility.

The John S. Chapman Visiting Professorship, the health center's first endowed professorship, is named in honor of the retired Dallas physician and UT Southwestern Medical School professor.

Chapman was a consultant to the health center and helped establish biomedical research here in the early 1970s when he needed to relocate his microbiology and immunology lab equipment. That lab was the beginning of a research program here. In June the health center opened a \$9 million Biomedical Research Building which will house five of six departments.

The endowment, funded by donations from friends and former medical students, will be used by the health center to attract outstanding physicians and medical researchers for seminars, conferences and special projects.

"We are honored that Dr. Chapman allowed us to use his name for this purpose," said health center director Dr. George A. Hurst, who is one of Chapman's former students. "We hope to eventually increase the funds so that it will support a full professorship."

At a luncheon in his honor Chapman encouraged a continued strive for excellence at the Tyler facility.

When the health center became a part of the University of Texas System, it became an academic institution as well as a patient care facility, Chapman noted in his acceptance remarks.

UTHC should aim for that condition people speak of as world class. Such an aim is not too high.

—John S. Chapman, M.D.

"Because of this the health center must share in the general purpose of a university which is aspiring to excellence," he said.

"This health center must become outstanding. It is not too much to say that it should aim for that condition people speak of as world class. Such an aim is not too high," Chapman said.

"To the degree that this named professorship may contribute to this lofty purpose, the people who have honored me will have brought great honor to themselves," Chapman said.

DEDICATION OF A DREAM



"This building is one significant measurement that the state's mandate has not only been successfully achieved but successfully enlarged."

—Lt. Gov. William Hobby



Flanked by regents, Hobby, Bishop Herzig and Hay (center) cut dedication ribbon.

The University of Texas Health Center's new \$9 million Biomedical Research Building was formally dedicated June 11 before an estimated crowd of 500.

"This event signals the emergence of research as a strong and growing force in East Texas for the benefit of mankind and for the health economically of our state," noted UT Health Center Director Dr. George A. Hurst at the ceremony.

Dedication speaker Lt. Gov. William P. Hobby stressed how research to be conducted there "will lead to the savings of millions of dollars and to the alleviation of untold suffering."

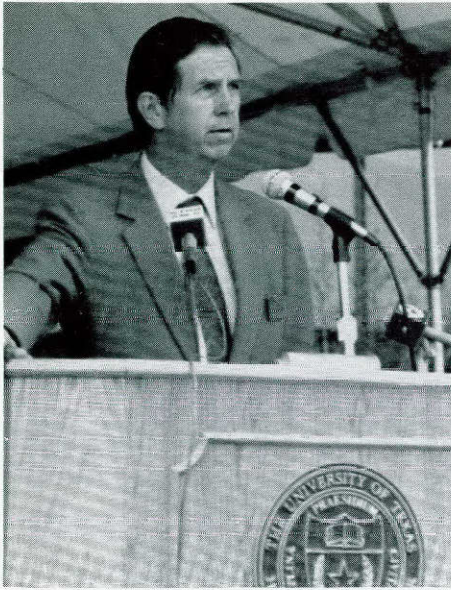
The UT System Board of Regents officially dedicated the new facility prior to their regularly scheduled meeting on UT Tyler's campus. Board chairman Jess Hay officially accepted the building.

"In no small measure, this facility is also dedicated to the benefit of those thousands of patients whose medical care and treatment will be enhanced by the multidisciplinary cooperative research programs staffed by the talented and dedicated researchers who will work in this building," Hay said before unveiling a plaque to be placed on the structure.

Five of the UT Health Center's six research departments will be housed in the new 70,000 square-foot facility.

The UT System Board of Regents attending the outdoor ceremony included Jack S. Blanton, Houston, who was elected chairman during the Tyler meeting; Shannon Ratliff, Austin; Sam Barshop, San Antonio; Louis A. Beecherl Jr., Dallas; Robert B. Baldwin III, Austin; W.A. "Tex" Moncrief Jr., Fort Worth; Bill Roden, Midland; and Mario Yzaguirre of Brownsville.



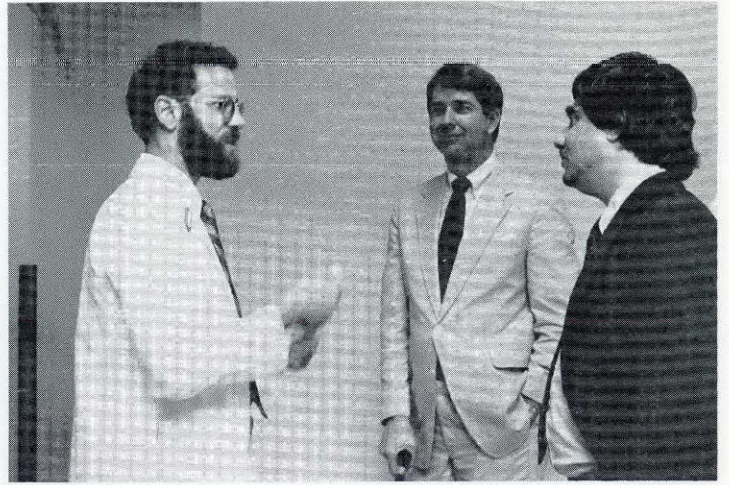


(Top) Dr. Hurst conducts outdoor ceremony before crowd of 500. Attending were Peyton McKnight and Judge Bill Bass, above, and Bishop Herzig and Eloise Davidson, right. Music was provided by East Texas Brass Ensemble of Longview.

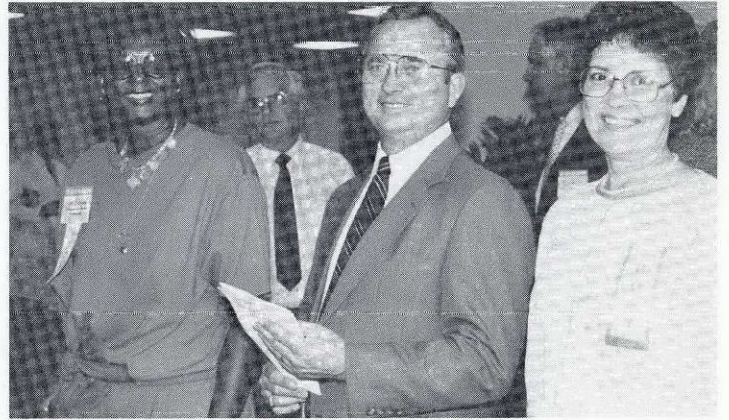
Other dignitaries present included UT System chancellor Hans Mark, executive vice chancellor for health affairs Dr. Charles B. Mullins, executive vice chancellor for academic affairs Dr. James Duncan, executive vice chancellor for asset management Michael Patrick, and state representatives David Hudson of Tyler, Jerry Yost of Longview and Jim McWilliams of Hallsville.

Former state senator Peyton McKnight, Development Board chairman Isadore Roosth, vice chairman A.W. Riter and other Development Board members also attended. The Most Rev. Charles E. Herzig, bishop of the Diocese of Tyler, gave the invocation.





Attending the reception following the dedication were state representatives, development board members and guests from Tyler, Longview and surrounding area.



Hobby: The work that will go on here is of utmost importance to the State of Texas.

When the East Texas Chest Hospital became part of the University of Texas System in 1977, there existed a few dedicated scientists, a small hard-working staff, an effective treatment program in pulmonary disease, and a mandate to become the primary institution in the state of Texas in providing patient care, research and education concerning heart and lung diseases.

East Texans. The health center has and increasingly will bring research monies into the state. In 1978 it attracted some \$980,000 in research support. By 1984, the year ground was broken for this facility, that figure was \$1,591,000; in 1986 it had grown to \$3,462,917.

The value of medical research is as clear as it is dramatic. For example, last year 1,000 patients were admit-

These remarks by lieutenant governor William P. Hobby and UT regent Jess Hay were edited to meet space requirements.

This building is one very significant measurement that the state's mandate has been not only successfully achieved but successfully enlarged.

This handsome, 70,000 square-foot structure with equipment second to none represents the coming into reality of a vision. Twenty-five distinguished scientists now comprise the health center's research faculty.

These scientists will in turn attract still others, and together they will one day lead us to a triumph over such diseases as pulmonary emphysema, muscular dystrophy and various forms of heart disease and breast cancer.

The work that will go on here is of utmost importance to the state of Texas. It has and will create jobs for

ted to the health center suffering from a form of chronic respiratory disease; that is, \$3,500,000 was spent last year treating CRD patients. Each of these patients, given the nature of their chronic disease, can be expected to be hospitalized 10 times. That is, treating these 1,000 patients over their lifetime will cost \$35,000,000. That figure does not include the expense of disability pay or of insurance. And it certainly does not include the human cost in suffering, both for the patient and for his or her family.

In this building the research will be done that will lead to the savings of millions of dollars and to the alleviation of untold and untellable suffering.



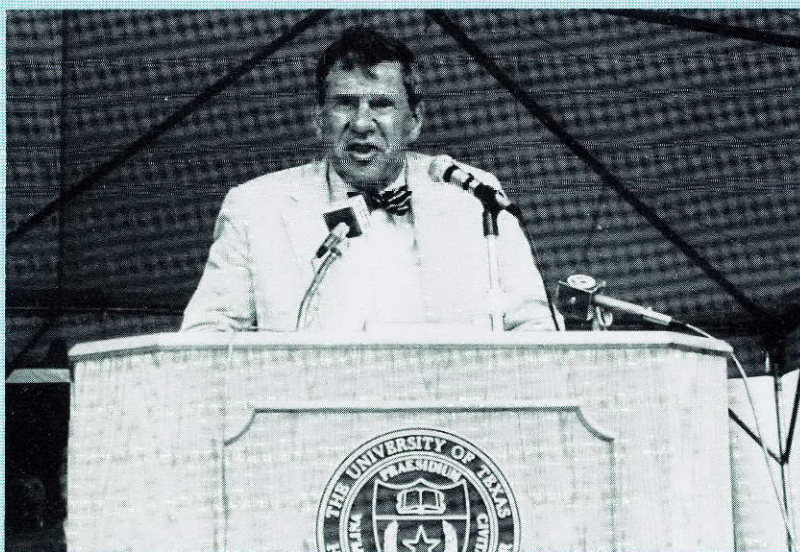
Hay: New facility makes contribution to center's mission.

This impressive facility marks an important contribution to the basic missions of the University of Texas Health Center's commitment to provide quality patient care and to pursue basic and clinical research of the diseases that plague mankind.

The Biomedical Research Building we dedicate today will provide a new dimension to the efforts of those dedicated and effective scientists. The Tyler health center has progressed far beyond its original focus on pulmonary diseases to a highly respected acute care, referral hospital.

The board is proud of the leadership of Dr. Hurst and his dedicated staff and we appreciate the opportunity to be of service to the East Texas physician community.

On behalf of the Board of Regents, I am pleased and proud to dedicate the Biomedical Research Building to the use and benefit of the faculty, students and staff of the University of Texas Health Center at Tyler and to the enrichment of their spirit of honest and scientific inquiry. In no small measure, this facility is also dedicated to the benefit of those thousands of patients whose medical care and treatment will be enhanced by the multidisciplinary and cooperative research programs staffed by the talented and dedicated researchers who will work in this building.



Research Facility Four Years in Making

The opening of the new Biomedical Research Building culminated a decade of planning for the \$9 million structure.

Development of the first preliminary plans for a research facility in Tyler began as early as 1977 when the health center became a part of the UT System.

As chief administrator since 1970, health center director Dr. George A. Hurst led the institution from a long-term care hospital to an acute-care referral center with research and educational missions. He also saw the need for a research building.

"We began to assemble a critical mass of investigators before proceeding to the stage of applying for funding and approval to develop the present project," said Dr. Ronald F. Dodson, associate director for research and chairman of the cell biology and environmental sciences department.

For executive associate director Dr. Allen B. Cohen, recruited in the summer of 1983 from Temple University at Philadelphia to head the health center's clinical educational and research programs, developing the research area along with designing and building a new research laboratory facility was a chance of a lifetime.

Cohen and his research staff were temporarily housed in renovated barracks for their biochemistry laboratory. The three existing research departments also were cramped in modular units and 40-year old barracks, remains of a World War II Army training facility which the state acquired in 1948.

The health center was committed to building its first permanent research facility. Staff members visited other research facilities around the country, including Scripps Institute in California from where several new scientists eventually were recruited.

From these visits preliminary plans were drawn by consultant Hillman O. McKenzie and Tyler architectural firm Simons & Clark Associates and



Hillman O. McKenzie studies architectural plans for research facility.

later approved by the UT System Board of Regents. Funding the 71,265 square foot structure was eventually approved and supported by local legislators David Hudson, Bill Hollowell and Jerry Yost; state

senator Ted Lyon and Lt. Gov. William P. Hobby. House Speaker Gib Lewis joined the area legislators in September 1985 for ground breaking ceremonies which launched construction.

Building Layout Enhances Communication

The Biomedical Research Building has three wings, each with 14,055 square feet; a central core area of 19,210 square feet; and a finished basement area of 11,890 square feet. It is designed to easily add a fourth wing.

The one-story brick veneer structure features two large skylights that give the central area an open, airy atmosphere. The central core consists of a reception area, an auditorium, four small conference rooms, a lounge area with vending machines and a glass washing room. The central area is partly designed to enhance communications and interactions among scientists and staff who work in the three wings. The central

core also houses the research computer and the Department of Epidemiology and Biomathematics.

The Department of Biochemistry occupies one whole wing and a section of another, sharing with molecular biology. Each wing consists of 14,055 square feet containing eight labs.

The Department of Cell Biology and Environmental Sciences and the Department of Physiology are located in the third wing. It has only four labs but also houses the health center's electron microscopes.

The building was constructed on five acres and has a 40-space parking lot.

Texas Chest Foundation & UTHC Development Board

Fund-raising plan aimed at increasing gifts

Emphasizing a return to the basic principles of development, the University of Texas Health Center development office is establishing a strong annual giving program as a goal for 1988.

"Annual giving programs are the foundation for all other fund-raising efforts," says John Anderson, the health center's director of development since last May. "And the health center needs and deserves a strong annual giving program."

The plan, which is scheduled to be in full force in 1988, will include a proposed direct mail schedule to friends and previous donors.

"Also addressed in the plan is the need to expand giving from other areas of the state," Anderson said. "We want to increase the number of donors and the average size of the gift and to increase the number of gifts being received from corporations and foundations."

The proposed plan, formally accepted at the October Development Board meeting, was drafted using input from Development Board members, health center medical and research faculty, and others.

"During the past few months a great deal of time and effort has been expended to ascertain the priority of need within the health center and to try to match those needs with potential sources of funds in the private sector.

"This plan will need the full support of the board, the faculty and staff to be programmed for success. I am optimistic that the goals set within the plan will be exceeded



Development director John Anderson and assistant director Bettie Beckworth study direct mail schedule to UTHC friends and donors.

Faulk retires as smoking program counselor

For six years as counselor for Texas Chest Foundation's smoking cessation program, Grady Faulk helped hundreds of people quit the habit.

This fall, he retired from the program he created and developed. But he will continue his responsibilities as TCF's executive director in its new location at the UT Health Center's main complex.

A smoker for 36 years, Faulk knew first-hand that anyone could quit smoking if they truly wanted to. He helped hundreds of people stop smoking.

"Every person going through the program was very important to me," Faulk said. "This work has been most rewarding." The success of the smoking cessation program culminated in a reception for long-time quitters. Many people returned just to say thank you.

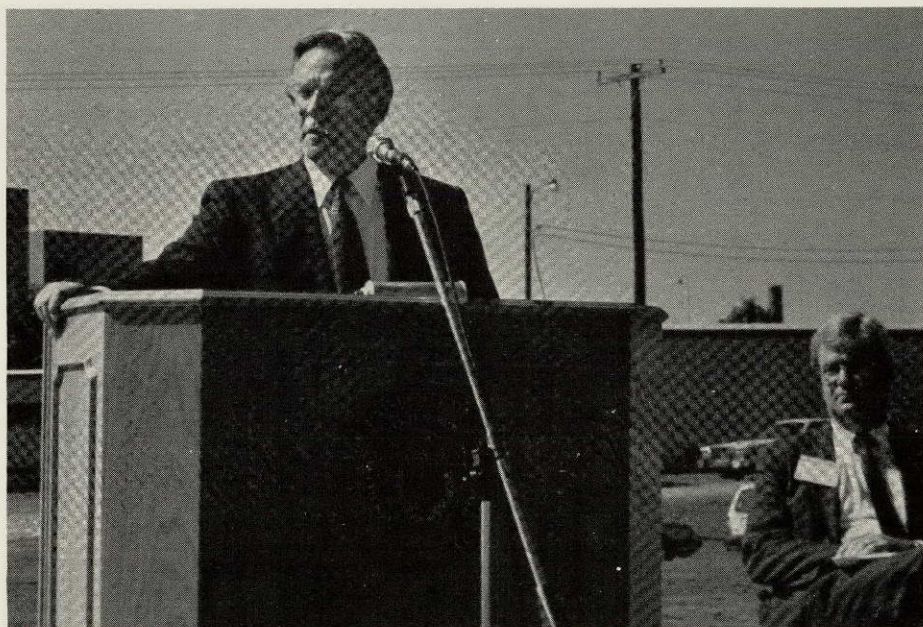
Faulk said he's now looking forward to concentrating his total efforts on the Foundation's other work, providing benefits to the UT Health Center. In January 1988, the TCF's offices will move from its Broadway Street location to the health center's development office.

"We have the same board of directors and trustees. One group compliments the other," Faulk said.

See **Fund-raising plan**— page 11

Texas Chest Foundation

Contributors recognized at Medical Resident Center dedication



Dr. Wilbur Avery delivers dedication remarks.

Contributors who made construction of the privately funded Medical Resident Center possible at the UT Health Center were recognized Oct. 1 at a brief dedication ceremony in the housing project courtyard.

"The need was there and had to be met," said Dr. Wilbur G. Avery,

associate director for medical education, who delivered the dedication remarks.

Avery said the facility was needed to provide quarters for family practice resident physicians, medical students coming to Tyler for brief training, post-doctoral fellows and

others needing special housing.

Development Board chairman Isadore Roosth, who presented a symbolic key of the facility to health center director Dr. George A. Hurst, said the \$750,000 complex was only the first phase of a planned larger project. He said because of the economic downturn the larger project was not "doable" at the time.

UT System development director Paul Youngdale of Austin said the housing units graphically illustrate a commitment the health center has made in fulfilling its educational mission and also recognizes a commitment made by the people of East Texas in supporting the Tyler facility.

Also recognized were members of the Development Board's fund-raising drive steering committee led by George Oge, who succeeded the late Baker Lucas as chairman. Other committee members were Roosth, Royce Wisenbaker, Bill Hartley, Wilton Fair, Bill Ross, A.W. Riter, Henry Bell Jr. and Charles Childers.

Contributions ranged from \$10 to \$100,000 from individuals and foundations.

Fourth Golf Tourney Benefits General Fund

Texas Chest Foundation held its fourth annual benefit golf tournament at Hollytree Country Club Aug. 17 to raise money for the Foundation's general fund, announced tournament chairman Gene Meier.

Merchants and TCF friends provided tournament prizes for golfers entering the six-man team scramble.

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Contributing Players

Jim Acker, John Anderson, Marlin Askew, David Bibby, Buck Buchanan, Rusty Bundy, Jim Butcher, Dean Cagle, Joe Cavender, Gaylon Daughtry, Jim Daughtry, Bill Delong, Jim Drake, Robin Farrell, Robin Doyle Farrell, Grady Faulk, Bubba Ferrell, Burt Ford, Toby Fuller, Skip Garcia, Jim

Gillen, Tommy Hade, Larry Harris, Rayond Hedge, David Houser, Cliff Hughes, H.T. Hyde, Gene Jeffers, Tim Johnson, Huey Keeney, Jack King, Lee Loftis, Jerry Malone, Mack McClain, Gene Meier, Gene Molloy, George Oge, Bill Oswalt, Gerald Pabst, Keith Pafford, Bill Pilkington, Bill Pirtle, Dean Pritchard, Randy Reeves, Randy Roberts, Otho Rosseau, Clinton Roxburgh, Mark Shuttlesworth, Warren Simmons, Fred Snyder, Don Thedford, John Townsend, Lonny Uzzell, Ben Tom Watson, Ken Whitt, Steve Wolf, James Wood.

& UTHC Development Board

Gilmer couple staunch supporters of health center

A Gilmer couple attending the dedication ceremony for the opening of the UT Health Center's new biomedical research facility in June had a special reason for attending: they wanted to make another donation and to see where their money was going.

C.H. and Gladys Robinson have been consistent donors to the health center's development fund since she was a patient three years ago.

Mrs. Robinson was referred to the Tyler health center following diagnosis of a lung disorder while in a Temple hospital. Initially the couple chose the UT Health Center for medical care because they wanted treatment close to home. But now Mrs. Robinson, who had visited friends who were patients at the health center before her illness, said she could not have chosen a better place to get medical care.

"Hospital buildings don't help you. People do. I received fine care there, and everyone saw that I had plenty of everything," she said. Mrs. Robinson is an outpatient under the care of Dr. Ben Bridges.

After attending the research building dedication, the Robinsons had an opportunity to tour the facilities.



C.H. and Gladys Robinson of Gilmer are consistent donors.

"I believe that the research programs there at the health center are so very important," Mrs. Robinson said. "I've had so many friends say they were concerned about what their charitable contributions were actually being used for. We give to the science program, and we know the science programs are getting our money."

UTHC development director John Anderson said the health center is grateful for the Robinson's contributions. "The money will be put to good use since our research program is still in its developing stage. There are many ways the research departments can use private contributions, especially since state and federal dollars are becoming more scarce," Anderson said.

Fund-raising plan—(continued from page 9)

and set the pattern for all future giving programs at the health center," Anderson said.

To help develop programs of support for the health center and to assist in fund-raising efforts, Bettie Beckworth of Longview has been appointed assistant director of development.

"I am pleased to welcome Bettie as a part of the newly reorganized development effort," Anderson said.

"Bettie's background in public relations in the East Texas area is a vital part of our plans to expand the overall development program."

Beckworth is a 1970 graduate of UT Austin with a bachelor's degree in journalism, public relations and advertising. She also completed bank marketing studies at Southern Methodist University.

She has served as assistant to the president of Enloe Co., Inc., and as

marketing officer for Texas National Bank of Longview. She concurrently coordinated marketing for First National Bank of Jacksonville and First National Bank of Whitehouse. Prior to her association with Texas National Bank, she was marketing and public relations officer for Allied Citizens Bank of Kilgore.

She and her husband Carter, a Longview attorney, have two sons.

Texas Chest Foundation & UTHC Development Board

Memorial Gifts

In memory of Joe W. Allen—
Mr. and Mrs. Lloyd Wayne Allen
In memory of Paul Arrington—
Mrs. Paul Arrington
In memory of Fred Beauchamp—
Roosth & Genecov Production Co.
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Sol Roosth & Associates
In memory of Elizabeth Gugenheim—
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In memory of Oliver Taylor—
Dale Long

Honor Gifts

In honor of Isadore Roosth—
The Rudman Foundation

Footnote:
UT Health Center Development Fund gifts are reported separately in *Developments*, a newsletter published semi-annually. Gifts reported here are contributions to Texas Chest Foundation only.

Foundation Gifts

Jud Adams, Dr. John E. Adcock, John Anderson, James W. Arnold, Mrs. George Barta, Alex Beall, Henry M. Bell Jr., Henry M. Bell III, Nolan Borel, Mr. and Mrs. Everest Brodnax, Mrs. David E. Bunting, Caldwell Schools Inc., Center Chemical and Service, Mrs. Louise Chapin, Mr. and Mrs. Charles L. Childers, Dr. P. LeMon Clark III, Mr. and Mrs. Calvin Clyde Jr., Thomas W. Clyde, Dr. Wylie L. Clyde, Dr. Charles Max Cole, Mrs. Maureen G. Coleman, Mr. and Mrs. Robert J. Coleman, Mr. and Mrs. George Dear, Charles K. Devall, James W. Fair, Wood Fair, Margaret Farley, Mr. and Mrs. Glenn Flinn, A.S. Genecov Foundation, Mrs. D.R. Glass, Gail Graham, Mr. and Mrs. B.G. Hartley, Mr. and Mrs. Bob Herd, Mary Elizabeth Herrin, Donald C. Hill, Mrs. I.T. Hunter, Mr. and Mrs. R.B. Irwin, Dr. and Mrs. Earl C. Kinzie, Mr. and Mrs. R.M. Kirby, Randall Klein, Nancy Lake, Robert Lake, J.M. Lewis, William Knight, H.J. Magnes, Cathey Marsh, Bumpy and Bobbie McCarty, LaVirle McCary, Judge and Mrs. Connally McKay, Harold McKenzie, Mrs. Vida C. Melton, Mr. and Mrs. Randy Lee Nicks, Marty Nunn, Christiana Osuagwu, Darla Perry, Harry S. Phillips, W. Connally Powell, Blanche Prejean, Judy Rahuba, Mr. and Mrs. Edwin Rasco, Roosth & Genecov Production Co. Employees, Hyman Roosth, Isadore Roosth, Dr. Wiley Roosth, Bill Ross, Mr. and Mrs. M.B. Rubin, David Samford, Norman Shtofman, Mr. and Mrs. Ralph Spence, Elwood B. Stetson, John E. Stoker, Mr. and Mrs. Ben E. Sutton, Louise Tippett, Ricky Todd, Mr. and Mrs. William Turley, Dr. John C. Turner Jr., Vaughn Foundation, Debbie Waldrop, Mr. and Mrs. D.H. Walkup, John Warner, Mr. and Mrs. Bill Whitworth, Marilyn Wilson, Mrs. Wilbur Windsor, Royce Wisenbaker and James Wynne, Jr.

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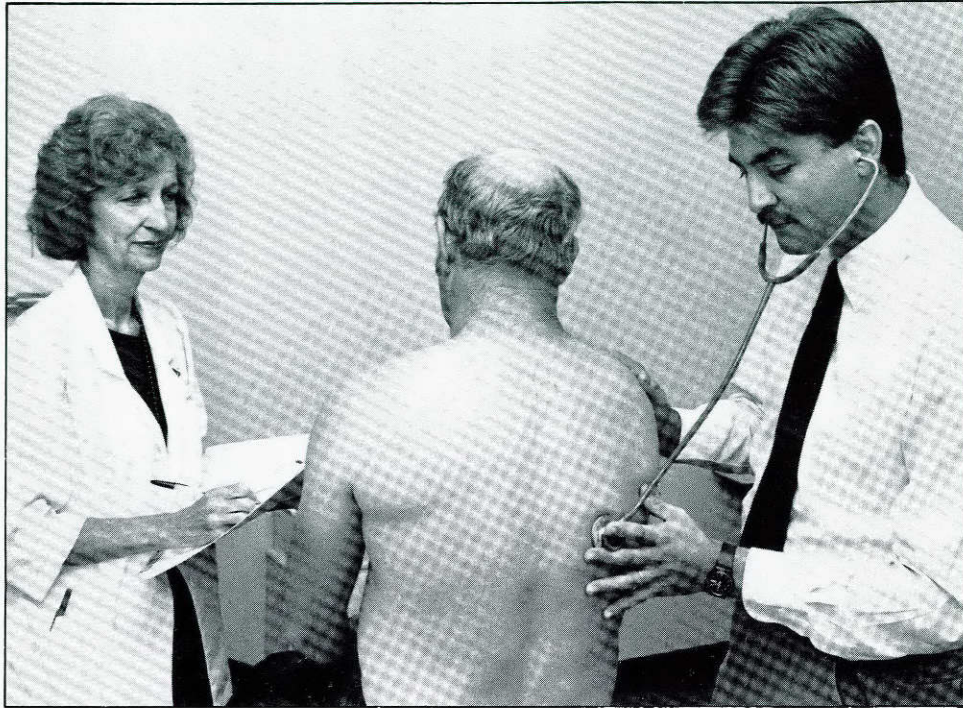
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B.G. Hartley, Tyler
Bob L. Herd, Tyler

Earl C. Kinzie, D.O., Lindale
Will A. Knight, Tyler
Richard P. Lane, M.D., Wills Point
H.J. McKenzie, Tyler
Peyton McKnight, Tyler
B.H. McVicker, M.D., Lufkin
George Oge Sr., Tyler
Harry Phillips, Tyler
Blanche Prejean, Ph.D., Tyler
Tom B. Ramey Jr., Tyler
Edwin Rasco, Tyler
Richard L. Ray, Tyler
A.W. Riter, Jr., Tyler, vice president
and vice chairman
Robert M. Rogers, Tyler

Isadore Roosth, Tyler, president
and chairman
Bill Ross, Tyler
C. Fagg Sanford, M.D., Tyler
Norman Shtofman, Tyler
Tom E. Smith, M.D., Dallas
Ralph Spence, Tyler
John C. Turner, M.D., Tyler
James M. Vaughn, M.D., Tyler
Dayton Walkup, Kilgore
John Warner, Tyler
Watson Wise, Tyler
Royce E. Wisenbaker, Tyler
Sam Wolf, Tyler
James C. Wynne Jr., Tyler

OCCUPATIONAL HAZARDS



Nurse Barbara Pruitt assists Dr. Joe Garcia in examining patient.

Workmen seek medical evaluation at special UTHC clinic

Almost 400 patients occupationally exposed to airborne inhalants such as asbestos, chlorine, silica and other harmful substances have sought medical help through the University of Texas Health Center's occupational lung disease clinic in Tyler.

The clinic which began operation last fall provides independent medical evaluation and treatment for patients with occupational and environmental pulmonary problems, according to the clinic's medical director and pulmonologist, Dr. Joe G.N. Garcia.

Among patients who may have been occupationally exposed to harmful dust-like particles are construction workers, insulators, coal miners and shipyard workers. Many have been

referred to the clinic by attorneys involved in disability or compensation cases one Houston attorney referred 170 patients from the Palestine area. Others are self-referrals or physician-referrals who want to know if the pulmonary condition is environmentally related, Garcia said.

Medical evaluations include a complete medical history and physical examination and sophisticated lung function testing.

The latest state-of-the-art diagnostic techniques are used in the medical evaluations, said Dr. Ronald F. Dodson, associate director for research and chairman of the cell biology and environmental sciences department. His department uses the electron microscope and dispersive

energy X-ray analysis to study toxic substances found in living tissue which may lead to the onset of chest diseases such as lung cancer or asbestosis, a condition characterized by progressive scarring in the lung.

Precise definition and identification of these toxic substances require ranges of magnification and resolution that are possible only with the use of the electron microscope and related equipment, Dodson said. The UT Health Center is one of only a few facilities in Texas which has the special equipment.

Garcia explained that these harmful substances can affect the delicate alveolar sacs, the lung structures

(continued on next page)

Airborne inhalants, such as asbestos, can affect lung function

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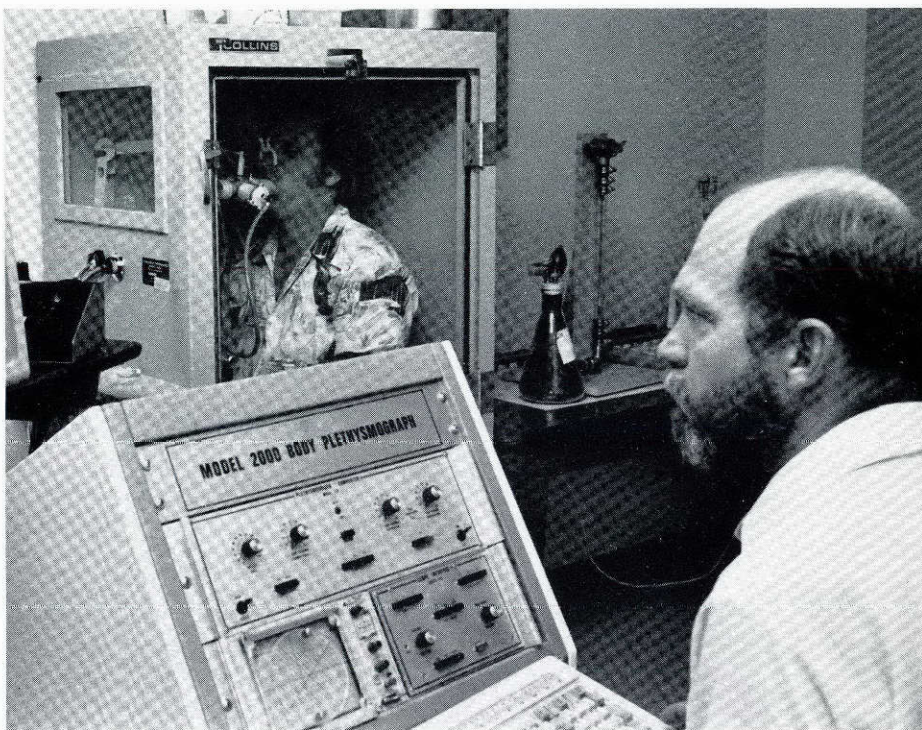
through which oxygen exchange with carbon dioxide in capillary blood takes place. Scarring of these alveoli caused by such foreign particles as asbestos, a known carcinogen, can result in severe lung dysfunction.

Five other staff physicians assist Garcia in the clinic. Two health center radiologists are certified by the National Institute of Occupational Safety and Health (NIOSH) to read X-rays of workers occupationally ex-

The latest state-of-the-art diagnostic techniques are used to determine severity of lung dysfunction.

posed to harmful dust particles. The NIOSH course and certification examination are designed to standardize the way X-rays are read, resulting in a better prognosis of lung diseases.

As more asbestos-removal projects continue, including some court-mandated removals in public schools, more referrals to the lung disease clinic are expected.



Medical evaluations include lung function testing.

For more information about the Tyler lung disease clinic, contact nurse coordinator Barbara Pruitt at 877-7930. Pruitt said there is current-

ly a backlog of appointments with another 240 examinations waiting to be scheduled.

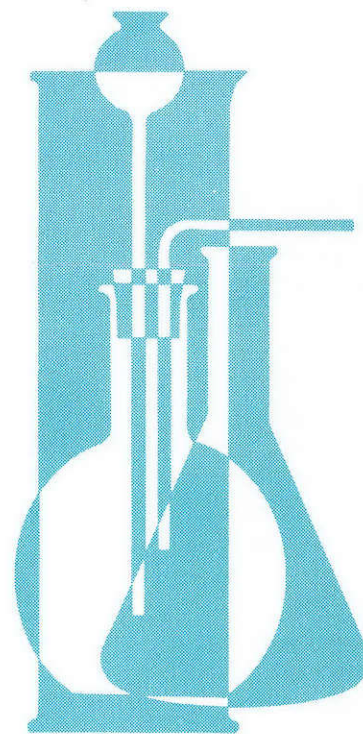
UT Health Center Awarded \$1.4 Million in Grants

The UT Health Center has received grants totaling more than \$1.4 million from the National Institutes of Health, the National Cancer Institute, the Muscular Dystrophy Association and a private foundation for three cardiopulmonary research projects and to support several ongoing studies.

NIH awarded Dr. Daryl S. Fair, associate professor of biochemistry, a five-year \$551,694 grant, and Dr. Barry Peterson, associate professor of physiology, will receive \$345,000 over three years. Dr. Gokul Das, associate professor of molecular biology, was awarded a \$325,249 five-year grant from the NCI, and Dr. Allen Cohen, executive associate director, received \$141,000 over three years from the private Oklahoma-based Noble Foundation. Also the Muscular Dystrophy Association awarded a \$49,308 grant, the first MDA funding ever awarded for research being conducted in East Texas. NIH awarded a \$49,680 one-year basic research support grant to be divided among five health center researchers and the national agency awarded the health center a \$13,018 grant to purchase a gamma counter.

Fair's project involves the study of basic molecular interactions responsible for initiating and controlling blood clotting, and Peterson is using radioactively labeled molecules to determine how excess fluids and proteins leak into the lungs during lung edema. Das is studying gene regulation in tumor viruses.

Cohen is studying the cause of pulmonary emphysema and is testing a drug to treat the disease, and the MDA award recipient, biochemist Dr. Donald K. Blumenthal, is studying an enzyme that regulates carbohydrate metabolism in muscle tissue to better understand muscle function at the molecular level.



Newsbriefs

Family practice opens Tyler, Gilmer clinics

The UT Health Center has been awarded a \$360,000 grant from the Texas Department of Health's primary health care services act to open clinics for the needy in Tyler and Gilmer, beginning Nov. 1.

The clinics will be operated by the health center's family practice residency program, providing these young physicians special training in family medicine.

The clinic sites are the Tyler-Smith County Health Department building and the Upshur County Social Services building in Gilmer. The clinics will be open Tuesday and Thursday in Tyler and Wednesday in Gilmer.

"This is an excellent opportunity for our resident physicians to examine and treat different kinds of patients," said health center director Dr. George A. Hurst. "These clinics will also provide a valuable service to the state and to these counties in the treatment of needy patients."

The health care team serving the clinics will include a health center faculty member, one or more resident physicians, a nurse and a clerk who will screen patients to determine their eligibility and to handle paper work.

Dr. James E. Crutcher, chairman of the health center's family practice department who applied for the grant with assistance from a consulting firm, InfoMed, Inc. of Houston, said the health center's application was one of four new programs approved. The state began funding these programs two years ago. Currently, the state has funded clinics in 27 other locations, but these will be the only ones in East Texas.

"These clinics will provide our residents a greater variety of patient mix," Crutcher said. He also noted the primary health care services act guidelines do not mean all patients will be totally indigent. The clinics will help unemployed Texans who are down on their luck.



Physical therapy intern works in one of three treatment rooms in remodeled department facility.

Service units move to renovated space

Several UT Health Center ancillary service units and departments completed moves this summer to new locations.

To place expanding cardiology services in a single location, cardiology offices, testing labs and outpatient examination rooms all have been placed in a renovated area of Unit B's second floor, says cardiology lab director Sharon Verash. Offices for the cardiologists also were moved to the same area. A new catheterization lab was installed in the same southwest wing where the entire clinic staff is now located. Currently the cardiology lab is averaging 50 catheterizations a month.

The physical therapy department, relocated next door to Hudnall Auditorium, now has space saving features and a better layout which

make the department more functional, according to department director Judy Robinson.

The purchasing department moved from the main building complex to Residence 3, formerly used as a child care center, and patient account's outpatient billing completed its move to Residence 2, next door to purchasing.

UT Health Center ranks 15th in state research

According to figures compiled by the Texas College and University System Coordinating Board, the UT Health Center ranked 15th among state institutions in amount of research being conducted in 1986.

The Tyler facility accounts for \$3,462,917 in research expenditures. It is the only East Texas institution listed in the top 20.

Newsbriefs

Health center sponsors lung cancer symposium

More than 30 area physicians attended the UT Health Center's special lung cancer symposium last summer to receive information on the latest diagnostic techniques and treatments available.

Lung cancer is the leading cause of cancer deaths in the United States, accounting for more than 125,000 deaths annually, says UT Health Center's associate director for education Dr. Wilbur Avery. Almost 7,000 lung cancer deaths occur annually in Texas.

Speakers included UT Health Center oncologists Dr. Ragene Rivera, who serves on the Legislative Task Force on Cancer, and Dr. Ronald Yanagihara; radiologist Dr. Andrew Dale; and pulmonologist Dr. James Stocks. A panel discussion of the pros and cons of radiotherapy was moderated by Dr. Mitchell Anderson, a radiation oncologist at Tyler's East Texas Cancer Center.

Additional programs on breast, skin, gastrointestinal, prostate and other forms of cancer were held this fall.

New residents join family practice staff

Six new resident physicians have entered the three-year family practice training program at the UT Health Center. Now in its third year, the program is preparing young physicians who hope to soon settle in the East Texas region which needs more family physicians.

The new group of first-year residents includes Dr. Daniel Baber and Dr. Sergio Figueroa, graduates of UT Medical Branch at Galveston; Dr. Paula Bessonett, UT Health Science Center at San Antonio; and Dr. Fredrick Kersh, Texas College of Osteopathic Medicine.

Joining the program as second-year

residents are Dr. Rebecca Driskell, UT Health Science Center at San Antonio; and Dr. James Morgan, Baylor College of Medicine.

Three other physicians will begin their third year of training, and four others have completed their first year. The total number of residents in the program is now 15. Assisting with the program are Medical Center Hospital and Mother Frances Hospital where the residents are assigned for certain specialty training such as emergency medicine and obstetrics.

Dr. Richard M. Viken, formerly associate director of the family practice training program at Merced Community Medical Center in Merced, Calif., was appointed associate professor of family medicine and director of the residency training program. (See Appointments, page 18).

Staff participates in statewide screening

The UT Health Center's breast diagnostic center was one of several facilities participating in the American Cancer Society's statewide breast cancer awareness project. During the five-day period, more than 300 women sought examinations at the center.

Special announcements were broadcast by the local media to encourage women age 35 and over, who are asymptomatic, to contact project phonebanks and arrange mammograms at affordable fees.

The health center joined the cancer society in its commitment to encourage women to add low-dose mammograms—which is 85 to 95 percent effective in early cancer detection—to their annual physicals.

New appointments, promotions announced

The UT Health Center announced new appointments and promotions in accounting, computer resources, facilities management and medical records.

Dan Kuck, director of the health center's internal audit staff since 1981, was appointed director of accounting. Prior to joining the health center staff, Kuck was an internal auditor for Sears, Roebuck and Co. in Dallas. He is a 1979 graduate of Stephen F. Austin University with a degree in business administration.

Ronald Hall, health center programmer analyst since 1984, was selected the new director of computer resources. Hall, a 1973 graduate of the University of Missouri at Rolla where he received a B.S. degree in applied mathematics, will direct 28 employees, who assist other departments with their computer needs. Computer resources staff also operate the health center's IBM 4381 mainframe computer.

Bobby Huston, formerly a mechanical engineer for the UT System's office of facilities planning and construction in Austin, was appointed the new director of facilities management. He is a 1958 graduate of UT Austin where he received a B.S. degree in mechanical engineering.

Katherine Maddox, transcription supervisor in medical records since 1986, was promoted to director of that department. She was formerly medical records director at hospitals in Henderson and Houston.

UTHC physician named to national committee

Dr. Richard Wallace Jr., chairman of the UT Health Center's microbiology department, was recently elected chairman-elect of the American Thoracic Society's Assembly of Microbiology, Tuberculosis and Pulmonary Infections at its annual meeting in New Orleans.

As the organization's chairman-elect, Wallace will undergo a year's apprenticeship before assuming the chairmanship in 1988-89.

Radiology now using high-speed x-ray film

While modern X-ray techniques expose patients to less radiation than they would receive from environmental sources, radiology always follows the rule of thumb that the less radiation the better.

To reduce exposure, UT Health Center's radiology department now uses high-speed film, a technological breakthrough in tabular grains which results in clear picture.

"This has a direct benefit to our patients in that the amount of radiation is dramatically reduced, perhaps as much as fourfold," says radiology chairman Dr. Robert Shepherd.

Letter praises center programs

To Dr. George Hurst, Director:

Please know of the appreciation of the Tyler Independent School District for the tremendous program provided Aug. 26 for the science, health and physical education personnel. All of the topics discussed were pertinent and certainly well received. A special vote of appreciation and thanks go to Betty Tiley (medical education coordinator).

It is a tremendous resource to the Tyler ISD to be able to capitalize on the UT Health Center. Certainly we will look forward to a continued working relationship with your office.

Tom Gregory,
Director of
Secondary Instruction
Tyler ISD



Special Rooms Help Special Patients Cope

The UT Health Center now offers two special rooms for pediatric and cancer patients who may have extended hospital stays. The Happy Room for cancer patients was donated by Tyler resident Mrs. Stanley Smith, and the pediatric playroom was donated by the health center's volunteer council.

Health center cancer patients who find five days of nonstop chemotherapy confining and isolating will soon be able to find respite in the specially-designed Happy Room.

"This special garden room may be just what the doctor ordered to help cancer patients tolerate time-consuming chemotherapy," says health center oncology unit's head nurse Margaret Roe.

Total furnishing and remodeling of a semi-private room on oncology's fourth floor is being donated by Mrs. Smith whose husband died four years ago here. The room will be named in his honor, and a plaque will be placed in the room.

"This will be a happy and relaxed room for our patients' use," Roe said. "There are several areas in which cancer patients can derive therapy. One very important area is the rapport and empathy they find with each other. That's why cancer support groups are so important. It's good for them to get together. They'll have a chance to share with each other here," she added.

"The atmosphere in a hospital room is sometimes confining and dismal. This will be different," she said.

The room will contain patio furniture, a chaise lounge, a television and video recorder, stereo, beverage warmers and a small refrigerator. "And lots and lots of plants," Roe added.

The volunteer council decided earlier this year to make pediatric patients' hospital stays more comfortable by providing a furnished game and playroom.

"We are so pleased to get a playroom on the third floor for our hospitalized children," says director of volunteer services Betty Williamson. "They have not had any place to go outside their rooms. Sometimes they are hospitalized for two or three weeks or longer," she said.

Ambulatory pediatric patients can now enjoy a playroom with dolls, indoor basketball goal, pinball machine and much more. The room and its contents meet all safety and fire regulations, Williamson said.

The volunteer council has underwritten the entire costs of the project, and completion of the playroom coincided with National Volunteer Week, April 26-May 2.

Last year UT Health Center volunteers donated more than 17,485 hours of their time to the hospital.

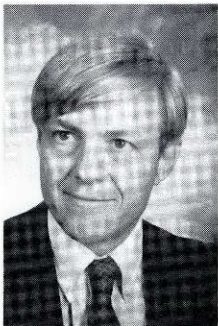
Appointments

The UT Health Center recruited several new physicians and researchers for medical and research staff positions during the summer, announced health center director Dr. George A. Hurst.

The new appointees include a director of the family practice residency program, a fourth cardiologist to handle increased patient referrals, an oncologist and pathologist to fill two vacancies and four scientists for the research departments.

Dr. Richard M. Viken, formerly associate director of the family practice training program at Merced Community Medical Center in Merced, Calif., has been appointed associate professor of family medicine and director of the family practice residency training program.

As part of an expansion of the family medicine department in July, Viken assumed the position formerly



Viken

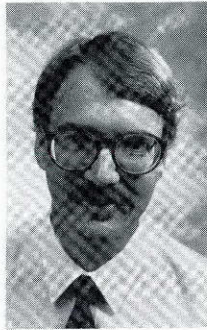


Brockie

assigned to the chairman of family medicine, Dr. James Crutcher, who remains the department chairman.

A Stanford University graduate, Viken received his M.D. degree from the University of Oregon Medical School. He completed his internship and residency at the University of Arizona Medical Center.

Cardiologist Dr. Robert E. Brockie, who completed a fellowship at the UT Health Science Center at Houston, joined the staff as an assistant professor of medicine. A 1977 Southern Methodist University



Ruud



Fagan

graduate with a B.S. degree in electrical engineering, Brockie completed one year of graduate studies in electrical and biomedical engineering at SMU. He is a 1982 graduate of UT Southwestern Medical School and completed his internship and residency in internal medicine at the UT Health Science Center at Houston.

Dr. Christopher Ruud, appointed an assistant professor of oncology, completed fellowships in hematology, oncology research and medical oncology at the Mayo Clinic in Rochester, Minn.

He received his B.A. degree from UT Austin and his M.D. degree from Baylor College of Medicine in Houston. He completed his residency in internal medicine at Baylor affiliated hospitals.

Dr. Marian Frances Fagan, formerly a pathologist at the AMI-National Park Medical Center in Hot Springs, Ark., has been appointed assistant professor of clinical and anatomical pathology at the health center.

A 1976 graduate of St. Mary's University in San Antonio, she received an M.D. degree from the UT Medical Branch at Galveston in 1982. She completed a residency at the UT Health Science Center at San Antonio.

Molecular biologist, Dr. Gokul Das has been appointed associate professor of molecular biology; Dr. Martha L. Aiken, an assistant professor of biochemistry; Dr. Mark A. Atkinson, an associate professor of biochemistry; and Dr. David Holiday,

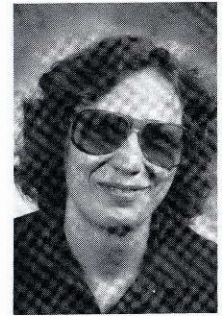
an assistant professor of epidemiology and biomathematics.

Das has a B.S. degree in physics and M.S. and Ph.D. degrees in biophysics from Calcutta University. He completed a postdoctoral fellowship at the Institut de Biologie in Strasbourg, France in 1977 and another at the Oak Ridge National Laboratory in Tennessee in 1980.

From 1980 to 1985, he was a visiting scientist at the National Institutes of Health in Bethesda, Md., working in the biology of viruses laboratory at the National Institute of Allergy and Infectious Diseases, and later assigned to the molecular and developmental biology laboratories in the National Eye Institute. At UMKC,



Das



Aiken

Das was an assistant professor of basic life sciences in the molecular biology and biophysics division. His research interest include the molecular biology of early development and genetic disease in human and animal models.

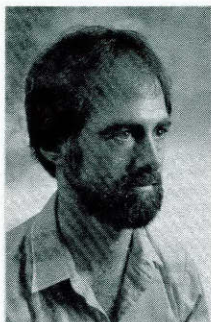
Aiken is formerly a postdoctoral research fellow at the Research Institute of Scripps Clinic in LaJolla, Calif., where she worked in the immunology department.

She received a B.A. degree in biology from Keene State College in New Hampshire and a Ph.D. in physiology and a minor in biochemistry from Wayne State University School of Medicine in Detroit, Mich. She was a physiology instructor at the medical school there prior to joining the Scripps staff. Her research interest includes protein structure and

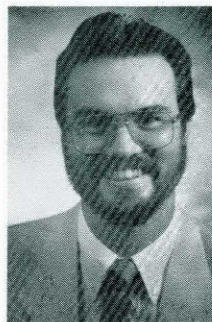
function relationships and induction of cell surface receptor systems.

Atkinson is formerly a visiting associate at the National Institutes of Health in Bethesda, Md., where he worked in the cell biology laboratory at the National Heart, Lung and Blood Institute. Prior to joining the NIH research team in 1982, he was a postdoctoral fellow at Yale University School of Medicine.

The London native received a B.A. degree in biochemistry, an M.A. degree in microbiology and a Ph.D. in cell biology from the University of Oxford in England. He is investigating the structure and function of the proteins involved in motility of a non-muscle cell implicated in a wide



Atkinson



Holiday

range of basic immunological processes.

A statistician, Holiday is formerly a visiting assistant professor in the statistics department at Texas A&M University where he also received his

Ph.D. in statistics in 1986. Holiday also holds B.A. and M.A. degrees in mathematics from Stephen F. Austin University. He was a 1975 distinguished graduate of Panola College in Carthage.

His current research interest is non-parametric function estimations and he is the principle author of two technical reports on regression functions based upon research funded by grants from the Office of Naval Research. He is a member of the American Statistical Association and the Institute of Mathematical Statistics.

Published Research

The following are recently published or to be published research papers written by research and clinical faculty at The University of Texas Health Center at Tyler. Health Center authors are in bold.

American Journal of Physiology, "Cultured coronary artery endothelial cells synthesize monohydroxyicosatetraenoic acids and prostacyclin" by Revtyak GE, Johnson AR, Campbell WB.

American Review of Respiratory Disease, "Characterization of beta-lactamases in *Mycobacterium fortuitum* including a role in Beta-lactam resistance and evidence of partial inducibility" by Nash DR, Wallace RJ Jr, Steingrube VA, Udou T, Steele LC, Murphy DT.

American Review of Respiratory Disease, "Sulfonamide containing regimens for disease caused by rifampin resistant *Mycobacterium kansasii*" by Ahn CH, Wallace RJ Jr, Steele LC, Murphy DT.

American Review of Respiratory Disease, "Effect of lung inflation and lung injury on clearance of ^{99m}Tc-labeled albumin from airspaces of anesthetized sheep" by Peterson BT, Dickerson KD, Idell S.

American Review of Respiratory Disease, "State of the Art: Pulmonary microcirculatory actions of the leukotrienes" by Garcia JGN, Jubiz W, Malik AB.

American Review of Respiratory Disease, "Lower respiratory tract abnormalities in rheumatoid interstitial lung disease. Role of neutrophils in lung injury and repair" by Garcia JGN, James H, Zinkgraf S, Perlman MB, Keogh BA.

Annual Review of Biochemistry, "Protein serine and threonine kinases" by Edelman AM, Blumenthal DK, Krebs EG.

Archives Dermatology, "Recent clinical advances in knowledge of the non-leprosy environmental mycobacteria responsible for cutaneous disease" by Wallace RJ Jr.

American Thoracic Society, "Effect of platelet activating factor on leukocyte-endothelial cell interactions and endothelial cell permeability" by Garcia JGN, Azghani A, Callahan KS, Johnson AR.

American Thoracic Society, "Amosite asbestos is toxic to vascular endothelium and induces alterations in endothelial cell function" by Garcia JGN, Callahan KS, Gray LD, Azghani A, Johnson AR, Dodson RF.

American Thoracic Society Meeting, "Fibrinopeptide A-reactive peptides and tissue factor-factor VII procoagulant activity in bronchoalveolar lavage: relationship to rheumatoid interstitial lung disease" by Idell S, Garcia JGN, Gonzalez K, McLarty J, Fair DS.

American Thoracic Society, "Mepacrine attenuates oxidant-induced lysis of cultured endothelial cells" by Callahan KS, Harlan JM.

American Thoracic Society, "Preliminary data on the safety and efficacy of drug regimens containing ofloxacin in the therapy of multiple drug resistant mycobacterial infections" by Stocks JS, Wallace RJ Jr, the Tuberculosis Study Group at UTHCT.

American Thoracic Society, "Amosite asbestos is toxic to vascular endothelium and induces alterations in endothelial cell function" by Garcia JGN, Callahan KS, Gray LD, Azghani A, Johnson AR, Dodson RF.

American Thoracic Society, "Effect of platelet activating factor on leukocyte-endothelial cell interactions and endothelial cell permeability" by Garcia JGN, Azghani A, Callahan KS, Johnson AR.

American Thoracic Society, "Asbestos and kaolin cause red cell hemolysis by acting as fenton reagents" by Kennedy TP, Ky H, Rao NV, Hopkins C, Tolley E, Dodson RF, Hoidal JR.

American Review of Respiratory Disease, "Procoagulant activity in bronchoalveolar lavage in the adult respiratory distress syndrome: Contribution of tissue factor associated with factor VII" by Idell SI, Gonzalez K, Maunder R, Martin TK, Fair DS.

American Review of Respiratory Disease, "Fibrinopeptide A-reactive peptides and tissue factor-factor VII procoagulant activity in bronchoalveolar lavage: Relationship to rheumatoid interstitial lung disease" by Idell SI, Garcia JGN, Gonzalez K, McLarty J, Fair DS.

American Federation for Clinical Research, "Amosite asbestos injures endothelial cell monolayers via H₂O₂ dependent mechanisms" by Garcia JGN, Callahan KS.

American Society for Clinical Oncology, "Characteristics of subjects with high and low serum beta-carotene (sbc): Implications for lung cancer risk" by McLarty JW, Yanagihara R, Riley L.

American Society for Clinical Oncology, "The predictive value of sputum bronchial atypia in subjects at risk for lung cancer" by Yanagihara R, McLarty JW, Hieger LR, Hurst G, Greenberg DS, Mabry L, Farley M.

American Society for Microbiology, "Human Disease Due to *Mycobacterium smegmatis*" by Wallace RJ Jr, Nash DR, Tsukamura M, Silcox VA.

American Society for Microbiology, "Evaluation of the quadFERMTM strip with the addition of a test for NSase and three commercial beta-lactamase assay systems for *Branhamella catarrhalis*" by Luman JI, Wilson RW, Nash DR, Wallace RJ Jr.

American Society for Microbiology, "In vitro synergistic activity of several antibacterial agents against *Mycobacterium chelonae* and *Mycobacterium fortuitum*" by Stockman L, DeYoung DR, Wallace RJ Jr, Roberts GD.

Chest, "Activation of human umbilical vein endothelium following phagocytosis of asbestos and fiberglass particles" by Garcia JGN, Callahan K, Davis L, Johnson AR, Corn C, Dodson R.

Clinical Research, "Neutrophil collagenase in rheumatoid lung disease" by Weiland J, Garcia J, Davis BE, Gadek J.

Clinical Research, "Multiple forms of the alveolar macrophage enzyme releasing peptide in bronchoalveolar lavage fluids from patients with ARDS" by Cohen AB, McArthur C, Miller E, Idell S, Griffith DE, McLarty JA, Maunder R, Martin T.

Clinical Research, "Amosite asbestos injures endothelial cell monolayers via H₂O₂ dependent mechanisms" by Garcia JGN, Callahan KS.

Clinical Research, "Multiple forms of the alveolar macrophage enzyme releasing peptide in bronchoalveolar lavage fluids from patients with ARDS" by Cohen AB, McArthur C, Miller EJ, Idell S, Griffith DE, McLarty JW.

Federation Proceedings, "Oleic acid-induced pulmonary edema increases the lung lymphatic concentration of inhaled ^{99m}Tc-albumin in sheep" by Peterson BT, Dickerson KD, Idell S.

International Academy of Pathology, "A comparison of light and electron microscopy techniques for defining occupational exposure to asbestos" by Dodson RF, Hurst G, Williams M, Corn C, Greenberg S.

Markfield Symposium on Idiopathic Pulmonary Fibrosis, "Factor VII-tissue factor complexes are present in BAL: Role in fibrotic lung disease" by Idell S, Garcia JGN.

Texas Thoracic Society, "Procoagulant activity in bronchoalveolar lavage in the adult respiratory distress syndrome" by Idell S, Gonzalez K, Maunder R, Martin TK, Fair DS.

Biochemistry, "Amino acid sequence of rabbit skeletal muscle myosin light chain kinase" by Takio K, Blumenthal DK, Walsh KA, Titani K, Krebs EG.

Biochemistry, "Properties of a monoclonal antibody raised to the calmodulin-binding domain of myosin light chain kinase" by Nunnally MH, Stull JT, Blumenthal DK, Krebs EG.

Biochimica et Biophysica Acta, "Molecular interactions of the intrinsic activation complex-binding of native and activated human factors IX and X to defined phospholipid vesicles" by Burri BJ, Edington TS, Fair DS.

Biochimica et Biophysica Acta, "Specific deposition of complement protein C3b on abnormal PNH erythrocytes permits their separation by partitioning. Possible general approach for isolation of specific cell populations" by Pangburn MK, Walter H.

Blood, "Steady state levels of factor X mRNA in liver and Hep G2 cells" by Bahnak BR, Howk R, Morrissey JH, Ricca GA, Edington TS, Jaye MC, Drohan WW, Fair DS.

Chest, "In honor of Dr. Sarah Branham, A Star is Born: The realization of *Branhamella catarrhalis* as a lower respiratory tract pathogen" by Wallace RJ Jr, Musher DM.

Chest, "Baseline data analysis of serum beta-carotene in a randomized clinical trial: The Tyler Cancer Prevention Program" by McLarty JW, Yanagihara R, James H, Riley L, Kummert T, Smith K.

Circulation Research, "Substance P induces pulmonary vasoconstriction in the isolated-perfused guinea pig lung" by Selig WM, Burhop KE, Garcia JGN, Malik AB.

Clinical Research, "Kaolin catalyzes hydroxyl radical generation from hydrogen peroxide" by Kennedy TP, Dodson RF, Rawlings W, Hoidal JR.

Connective Tissue Research, "Isolation and characterization of a pentameric amonio acid from elastin" by Starcher B, Cook G, Gallop P, Hensen E, Shoulders B.

Environmental Research, "Comparative efficiency of nucleopore filters of various pore sizes as used in digestion studies of tissue" by O'Sullivan MF, Corn CJ, Dodson RF.

Hospital Medicine, "Bacterial pneumonia in the adult: Diagnosis and therapy" by Griffith DE and Wallace RJ Jr.

IRB Journal, "The number of subjects required for study: An important ethical question" by McLarty JW.

Infectious Disease Clinics of North America, "Nontuberculous mycobacteria and water-A love affair with increasing clinical importance" by Wallace RJ Jr.

Journal of American Academy of Dermatology, "Colloid bands of the forearm: An unusual clinical presentation of solar elastosis" by Raimer SS, Sanchez RL, Hubler WR, Dodson RF.

Journal of Applied Physiology, "Platelet activating factor increases lung vascular permeability to protein" by Burhop KE, Garcia JGN, Selig WM, Van der Zee H, Kaplan JE, Malik AB.

Journal of Applied Physiology, "Neutrophil collagenase in rheumatoid interstitial lung disease" by Weiland JE, Garcia JGN, Davis WB, Gadek JE.

Journal of Applied Physiology, "Pulmonary lymphatic clearance of ^{99m}Tc-DTPA from the airspaces during lung inflation and lung injury" by Peterson BT, Gray LD.

Journal of Applied Physiology, "Measurement of albumin permeability across endothelial monolayers in vitro" by Cooper JA, Del Vecchio P, Burhop KE, Selig WM, Garcia JGN, Malik AB.

Journal of Biological Chemistry, "Rabbit skeletal muscle myosin light chain kinase: the calmodulin-binding domain as a potential inhibitory domain" by Kennelly PJ, Adelman AM, Beumenthal DK, Krebs EG.

Journal of Biological Chemistry, "Cooperative interaction between factor VII and cell surface expressed tissue factor" by Fair DS, MacDonald MJ.

Journal of Biological Chemistry, "A heterodimeric form of tissue factor" by Morrissey JH, Fair DS, Edington TS.

Journal of Biological Chemistry, "Initiation of the extrinsic pathway of coagulation. Association of factor VIIa with a cell line expressing tissue factor" by Ploplis VA, Edington TS, Fair DS.

Journal of Clinical Microbiology, "Ability of ciprofloxacin but not pipemidic acid to differentiate all three biovariants of *Mycobacterium fortuitum* from *Mycobacterium chelonae*" by Steele LC and Wallace RJ Jr.

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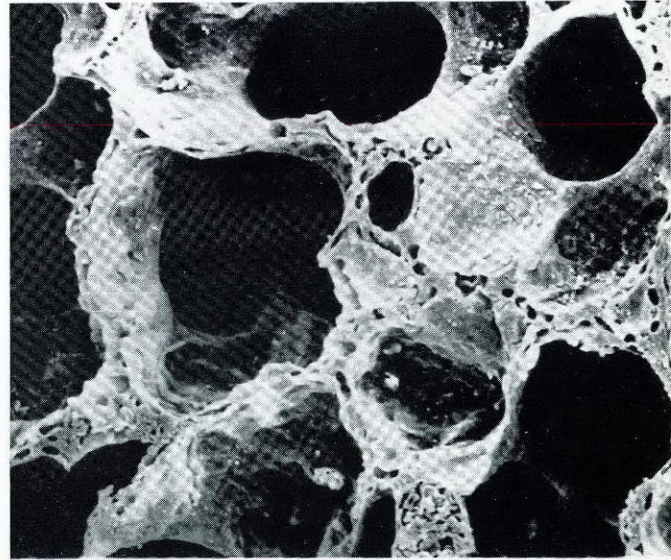
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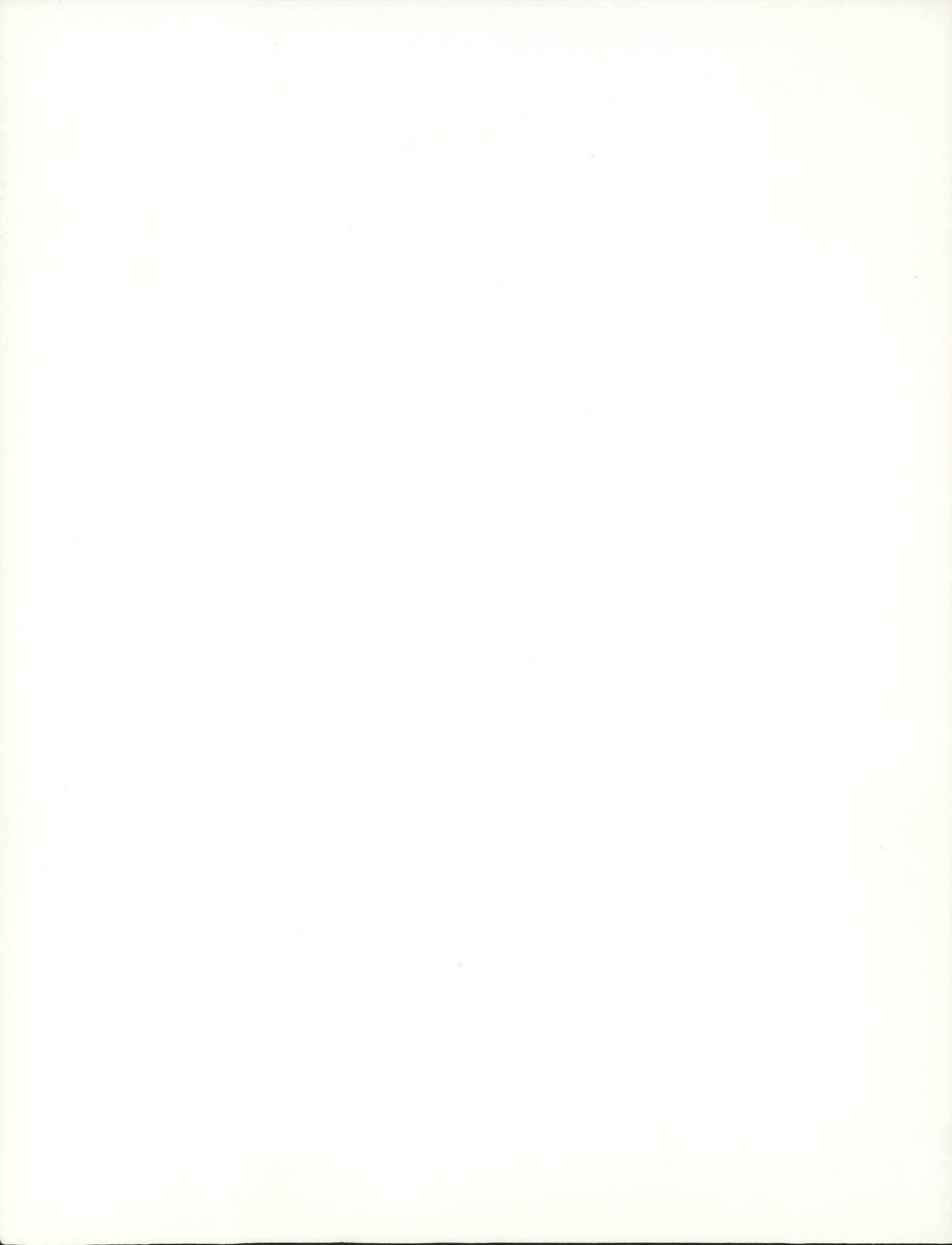
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UT Health Center research scientists, involved in various cardiopulmonary projects, often study cross-sections of diseased lungs as shown here.



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