
**THE
PRESIDENT'S
ANNUAL
REPORT
1983-1984**

ON THE ROAD
TO RECOVERY

1983-84 ANNUAL REPORT OF EDWARD J. BOLING, PRESIDENT, THE UNIVERSITY OF TENNESSEE
TO THE BOARD OF TRUSTEES, JUNE 21, 1984

THE UNIVERSITY OF TENNESSEE RECORD



UT BOARD OF TRUSTEES



Members of the University of Tennessee Board of Trustees pictured at the 1983 June meeting are, front row, left to right: Tom Elam, Ann Baker Furrow, UT President Edward J. Boling, Elaine McReynolds, Paul J. Kinser; second row: R. Lee Winchester, Marcia A. Echols, A.B. Long Jr., Buford Goldstein, Jan Petri, student trustee for 1982-83, William H. Walker III, commissioner of agriculture; third row: William M. Johnson, Ben S. Kimbrough, James A. Haslam II, Turner O. Lashlee, vice chairman, Dr. Wayne Brown, executive director, Tennessee Higher Education Commission, Jack J. Craddock, Scott Probasco Jr., James F. Harrison, and Sam Cooper. Not pictured: Gov. Lamar Alexander, chairman, Charlotte Parish, Robert L. McElrath, commissioner of education, and John W. Craig, student trustee, 1983-84.

From Congressional Districts

Buford Goldstein, Elizabethton, First District
A.B. Long Jr., Knoxville, Second District
Scott L. Probasco Jr., Lookout Mountain, Third District
William M. Johnson, Sparta, Fourth District
Marcia Echols, Nashville, Fifth District
Ben S. Kimbrough, Clarksville, Sixth District
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Lee Winchester, Memphis, Ninth District

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UT Knoxville

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Edward J. Boling, President of the University
Wayne Brown, Executive Director,
Tennessee Higher Education Commission

On the Road to Recovery

This year marks the beginning of a trend which, if sustained, could lead to the finest era in the state's long educational history. Although we hold no dreams of an academic Utopia, the state's recently enacted Comprehensive Education Reform Act—commonly known as the "Better Schools Program"—and the tax increases required to fund it, represent an encouraging start along the road to better times.

This prospect is especially welcome because we are completing the darkest year in the leanest financial period in recent history. For the University of Tennessee, 1983-84 meant no appropriations for pay raises, no new equipment, and a budget barely sufficient to maintain ongoing operations.

Based on the prospect of recovery promised by the Better Schools Program—with its 10 percent salary increase for 1984-85, \$1.7 million in new money for equipment, funds for improved operating expenses, \$24 million for a badly needed library addition at Knoxville, \$5.6 million for Centers of Excellence and a newly funded endowment for Chairs of Excellence—the coming year should produce positive changes of dramatic proportions. In order for our progress along the road to recovery to continue, however, two conditions must prevail:

- State tax reform, which will replace educational funds that will be lost when the state sales tax on food is removed by 1988; and
- Inflation control, which is necessary if appropriations are to retain their value.

Either the loss of taxes needed to support better schools or the return of double-digit inflation could undermine any progress made. A combination of the two would be devastating.

Responsible leadership on Capitol Hill at Nashville, the efforts of UT trustees, the interest of educational administrators, faculty, and students, and the help of thousands of concerned parents, alumni, and friends of



UT President Edward J. Boling

public education at all levels accounted for the passage of the Better Schools Program. Indeed, this year's legislative action will take its place among earlier milestones on Tennessee's road of educational progress. It is comparable to the 1909 General Education Law, which provided a sound tax base for public schools and established teachers' colleges in the three Grand Divisions of Tennessee. And it ranks with the legislature of 1947, which voted the first sales tax for the support of public schools and instituted a retirement system for teachers, and with the many acts in behalf of education during the Clement administrations of the 1950s and 1960s. In fact, Tennessee's recent legislative action is viewed across the nation as an example for other states to follow in upgrading and rejuvenating public education. This is a proud moment for Tennessee and all who

contributed to the bill's passage; and it is imperative that the momentum thus generated be continued in the years ahead.

A great deal of effort was expended by the University and its supporters this year in behalf of the Better Schools Program, a movement ably led by Gov. Lamar Alexander and based on the knowledge that the state's progress depends to a large degree upon its schools, kindergarten through college. It is important that all levels of public education be raised by the same bootstrap, for they are mutually dependent. Teachers of students in kindergarten through high school come from the state's teacher-education colleges; and the students in today's lower schools are tomorrow's college students.

Although the year now ending has been one of financial stringency, it has brought progress of an unusual sort. Hard times tend to unite people, and this natural phenomenon occurred in the University community this year. Progress was spurred by a keen anticipation of better times ahead, because the promise of the Better Schools Program was with us throughout the year. We owe our gratitude to a dedicated and capable faculty and staff for not allowing the quality of education to sink as low as the institution's funding.

As in every year of stringent budgets, the support of private donors proved invaluable in 1983-84. In many instances quality was maintained because an essential piece of equipment was given to the University or a professor was retained because he or she occupied a privately supported teaching chair. The value of private contributions is most evident in such years.

Evidence of the positive attitude on the part of faculty and staff and proof of the progress made during the year, as well as needs and problems, may be found in the reports of campuses and units that follow.



Research at UT Knoxville and Oak Ridge National Laboratory led to the development of the molten salt battery, held by a graduate student in chemistry. The Science Alliance, top priority in Tennessee's Centers of Excellence Program, makes possible even closer cooperation between UTK and ORNL.

Knoxville

"The major test of a modern American university," says educator Clark Kerr, "is how wisely and how quickly it adjusts to important new possibilities."

Although the lack of new state funding for 1983-84 presented problems for the University of Tennessee, Knoxville, faculty and staff members worked to maintain quality and take full advantage of several significant opportunities for improvement.

The Planning and Budgeting Coordinating Committee adopted goals and objectives to help the Knoxville campus implement the revised mission statement approved in 1983 by the Faculty Senate and Board of Trustees. Dr. George Wheeler, former dean of arts and sciences at Temple University, became UTK's first provost, with responsibility for research as well as graduate and undergraduate education.

The 1984 edition of *The College Money Book* rated UT Knoxville the state's "best buy" for students, based on "high quality education at an economical cost." UTK's use of information from student tests and surveys to improve teaching and service to stu-

dents earned the institution the only national award presented this year by the National Council for Measurement in Education.

UTK continued to expand linkages with area research institutions. The "Science Alliance" between UT Knoxville and Oak Ridge National Laboratory, selected as the top priority in the state's new Centers of Excellence program, will receive \$3.4 million to advance instructional and research activities. The Tennessee Higher Education Commission's staff report said the project "appears to have the most chance of any Center of Excellence to bring national recognition to the State of Tennessee."

To enhance cooperation in scientific programs and technology transfer, a Research Opportunities Consortium was formed by UTK, ORNL, the Tennessee Valley Authority, and the Oak Ridge Operations Office of the U.S. Department of Energy (DOE). Martin Marietta Energy Systems, new contractor for DOE facilities in Oak Ridge, signed a multi-year contract with UTK for cooperative biotechnology research and endorsed the Distinguished Scientist Program, de-

signed to attract some of the world's foremost researchers to ORNL and the University.

The first two appointments in the Distinguished Scientist Program were introduced to Washington officials in June by U.S. Senate Majority Leader Howard Baker. They are Dr. George F. Bertsch, a theoretical physicist formerly at Michigan State University, and Dr. Gerald D. Mahan, former distinguished professor of physics and director of Indiana University's Materials Research Laboratory.

Academic Quality Enhanced

UT Knoxville's colleges and schools managed to enhance academic quality despite the funding problems of 1983-84 through curriculum revision, strategic planning, improved advising, expanded exchange programs, and increased private support.

The College of Liberal Arts adopted a new curriculum strengthening general liberal education requirements. The revised College of Business Administration curriculum will emphasize computer technology, strategic planning, and communications skills.



Signing a multi-year biotechnology research agreement are, left to right, Kenneth Jarmolow, Martin Marietta Energy Systems president, UTK Chancellor Jack Reese; Dr. Leaf Huang, professor of biochemistry; and Dr. Karen Hughes, botany professor.

In the College of Education, admissions standards and student teaching requirements will be raised. The College of Engineering will reduce its student-faculty ratio while continuing cooperative programs with industry, such as the program in measurement and controls engineering and a computer-aided design consortium. The School of Architecture established an exchange program with the Royal Melbourne Institute of Technology in Australia.

A reduction in the number of undergraduate options offered in the College of Home Economics has focused resources on programs which have the highest employment potential or support priority graduate programs. The College of Communications began a change in emphasis in broadcasting instruction, focusing on corporate/industrial communications and electronic news gathering and production.

The College of Law offered a special program of distinguished visiting speakers, including former U.S. Secretary of State Dean Rusk.

Private Gifts Enrich Programs

Gifts from individuals, corporations, and foundations provided generous support for UTK programs.

A campaign to provide accounting scholarships and faculty development awards passed the \$1 million mark, and the College of Nursing received a \$307,500, four-year grant from the W.K.Kellogg Foundation to improve associate degree nursing education.

Two transportation alumni gave the University \$250,000 to establish a professorship in honor of their father, while the ALCOA Foundation gave \$200,000 to support computer integrated manufacturing programs in engineering and industrial productivity programs in business administration.

A \$200,000 gift from Shelby Williams Industries to home economics established a computer-aided design laboratory, and a campaign to raise funds for faculty research, equipment, and recruitment of outstanding nuclear engineering students surpassed its \$100,000 goal.

The College of Liberal Arts successfully completed a three-year effort to secure \$3 million in private funds to be matched with a \$1 million challenge grant from the National Endowment for the Humanities.

Students, Faculty Earn Honors

Students and faculty at the University of Tennessee, Knoxville attained national prominence in a variety of fields in 1983-84.

A student **accounting** team bested teams from 150 universities to win a national com-



Departmental exhibits attracted current and prospective students and community members at a "Showcase of Academic Excellence" sponsored by the Undergraduate Academic Council.

petition sponsored by Beta Alpha Psi accounting honor society.

Dr. Fran Trusty, professor of educational leadership, won the Outstanding Teacher Award of the National Academy for School Executives, and Dr. Lee Riedinger, professor of physics, was named science advisor to U.S. Senate Majority Leader Howard Baker.

Dr. William Bass, professor and head of the anthropology department, was one of 25 finalists for the national Professor of the Year Award presented by the Council for Advancement and Support of Education.

Dr. Ken Kenney, professor of planning, received one of 10 national awards from the Freedoms Foundation for excellence in private enterprise education.

Keith Davis, College Scholar and history major, won one of 117 Mellon Fellowships in the Humanities awarded nationwide.

Dr. Joseph Goddard, dean of continuing education, became the first person ever to receive the top leadership awards from the nation's two major continuing education organizations.

Baldwin Lee, assistant professor of art, won a Guggenheim Fellowship. Two works by UTK art professor Leonard Koscianski were acquired by the Metropolitan Museum of Art in New York.

Pat Head Summitt coached the Lady Vols basketball team to second place in the NCAA and was selected head coach of the U.S. team in the 1984 Olympics.

Research Funding Up

UT Knoxville received more than \$21 million in **research grants and contracts** in the

past fiscal year—a 4 percent increase over the previous year. Industrial support for research was up 15 percent.

Martin Marietta Corp. will provide \$250,000 annually for at least three years to support UT Knoxville biotechnology research.

A UTK microbiologist received an \$844,000 contract from Allied Corp. to support research on how plants produce their own nitrogen fertilizer. Another microbiologist received a \$100,000 National Science Foundation grant to study how genes become activated in biological development.

A team of College of Education researchers tracked changes in Tennessee's Career Ladder program for teachers, compiling information for review by government officials and educators throughout the nation.

A Morbid Curiosity Symposium sponsored by the College of Communications and the Gannett Foundation attracted international news coverage of researchers' studies on reasons for public interest in bad news.

UTK **psychologists'** experiments provided the first confirmation that exercise training can prevent development of high blood pressure associated with stress.

Minority students from area high schools took part in an apprentice program in biomedical research sponsored by UT Knoxville and the National Institutes of Health.

"Initiatives for Inquiry," a publication providing information about UTK science and technology programs, was funded through private gifts and sent to opinion leaders throughout Tennessee. The publication, which won a national award from the Council for **Advancement and Support of Educa-**

tion, is being used in state efforts to attract more high-technology employers to Tennessee.

Personnel, Programs Serve the Public

The School of Architecture helped the city of Oak Ridge develop a master plan, while the English department initiated the Smoky Mountain Writing Project to help teachers improve student writing.

The success of the Tennessee Executive Development Program led to a second annual offering of this College of Business Administration program.

The College of Education appointed its first Board of Visitors and expanded partnerships with local schools to work on mandates for increased achievement in schools. College of Law students coached a high school team to the state championship in the 1984 Street Law Mock Trial Competition.

Dr. Jack Reese, UTK chancellor, was named a Tennessee representative to the Education Commission of the States.

Representatives of UTK and ORNL joined the Tennessee Technology Foundation in hosting a Biotechnology Fair to call attention to techniques and products developed from Tennessee basic research programs.

During the second year of the James R. Stokely Institute for Liberal Arts Education, 30 gifted high school seniors were selected to take part in the Stokely Scholars Program of pre-collegiate enrichment activities.

Students of the Undergraduate Academic Council sponsored a week-long "Showcase of Academic Excellence," featuring exhibits, tours, and faculty presentations. In other communications initiatives, the UTK Office of Public Relations began producing "On Campus," a weekly calendar and feature program broadcast by WSJK-TV, and publishing "Context," a faculty-staff tabloid newspaper.

High Quality Students Enroll

Fall quarter headcount enrollment totaled 27,018 students, near target projections to bring enrollment in line with financial resources. Enrollment should stabilize at between 26,000 and 26,500 students.

The average entering student at UT Knoxville has a 3.0 high school GPA and a 21.4 score on the ACT test. UTK this year attracted the largest number of National Merit Scholars enrolled at any college or university in Tennessee.

UTK's Engineering Scholarship Program for Minority Students has emerged as a national leader in preparing black students for engineering careers during the past 10 years. A Pre-Medical Enrichment Program sponsored by the College of Liberal Arts is increasing the number of physicians from



Tennessee House Speaker Ned Ray McWhorter, left, and Gov. Lamar Alexander examine a model of UT Knoxville's expanded library, which will be one of America's most advanced facilities for scholarly research.

minority or low-income background who will practice in Tennessee. The Department of Forestry, Wildlife and Fisheries received one of three federal grants awarded nationally to educate minority students in forestry.

Work for Better Schools

UT Knoxville's students, faculty, staff, alumni, and friends worked actively to support more adequate funding for education through the Better Schools Program.

About 100 "Student Ambassadors" from throughout Tennessee volunteered their time to work for the program, as did members of

the Faculty Senate and Employee Relations Council. Members of the Chancellor's Associates, a support group of business and community leaders, also were instrumental in promoting passage of the program.

Work began in late summer on the 250,000-square-foot addition to the Hodges Library, which will provide a consolidated general library collection in the heart of the campus by 1986-87. The advanced facility will relieve study space shortages and provide computerized resource sharing with other research libraries worldwide.

The current Undergraduate Library building will remain closed during construction. Non-print and reserve services moved to Dunford Hall, and books, periodical collections, and reference services moved to the Humanities and Social Sciences Building.

Plans for the Coming Year

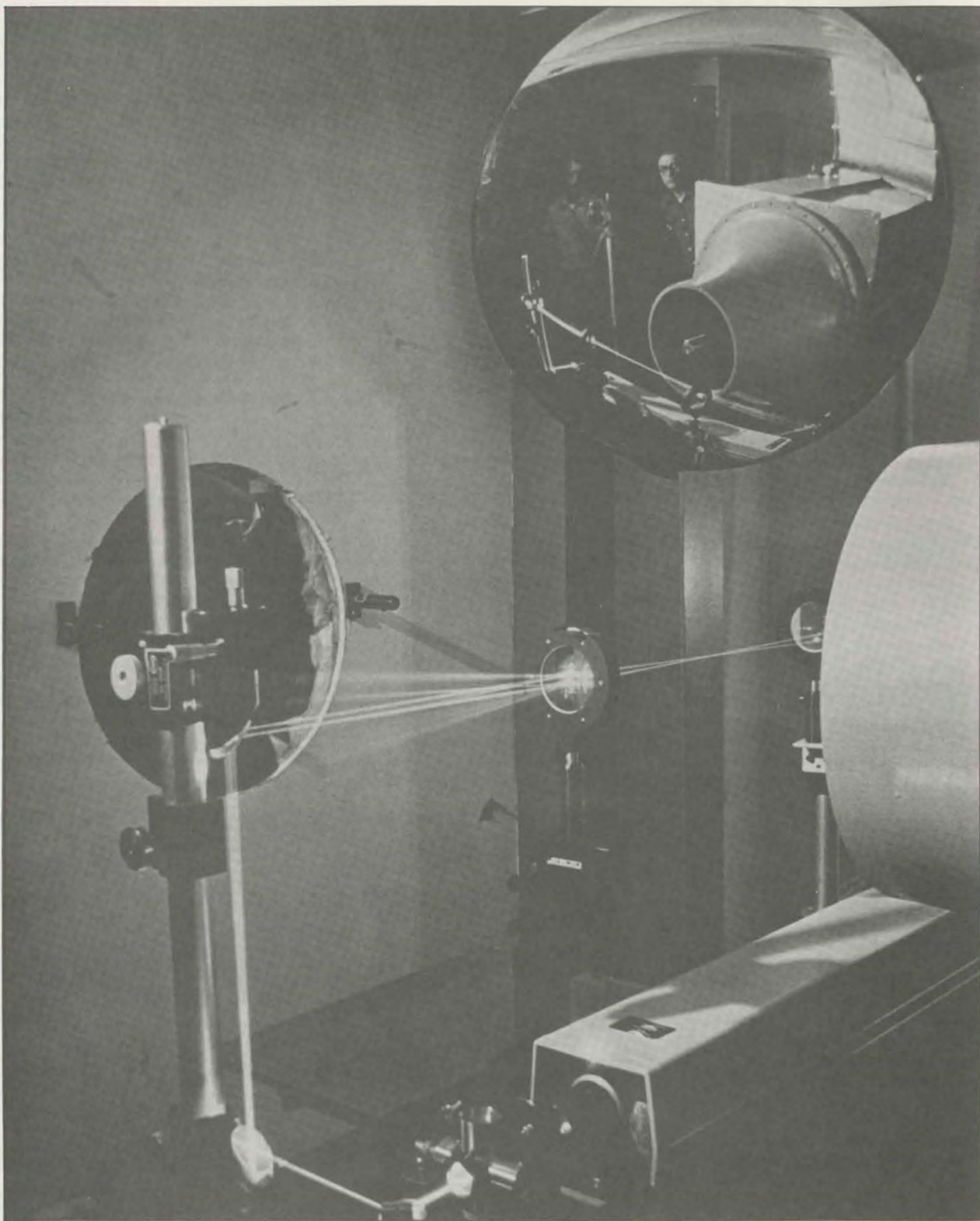
Passage of the Better Schools Program and the revenue required to fund it means substantial improvements for UT Knoxville. Salary increases will be considerably above the minimum figures established by the General Assembly.

Many colleges plan more attention to student recruitment and retention. Integration of computer technology in instruction will be a continuing priority.

After the Faculty Senate recommended that UTK alter its academic calendar from quarter to semester, Chancellor Reese appointed a faculty-staff committee to study issues and recommend action to be taken if the campus were to adopt a semester calendar. The Chancellor will evaluate that report and discussion will continue into the fall quarter.



Dr. William Bass, head, Department of Anthropology, was one of 25 finalists for the National Professor of the Year Award presented by the Council for the Advancement and Support of Education.



The Center for Laser Applications has state-of-the-art lasers and computer equipment. Here, the laser beam is focused to a point in front of the small jet combustor shown in the circular housing in the mirror. The beam will help researchers understand the efficiency of combustors.

Space Institute

The University of Tennessee Space Institute has responded to a difficult budget year with continued progress toward excellence in graduate education and research in engineering and the physical and mathematical sciences. This has resulted in a productive year and an optimistic view of the future.

Laser Program Is Center of Excellence

A major achievement of the year was UTSI's selection as a Center of Excellence for laser applications. Building on an established research base, the center will attract nationally recognized scientists and engineers for teaching and research as well as potential industrial and government users of advanced laser technology.

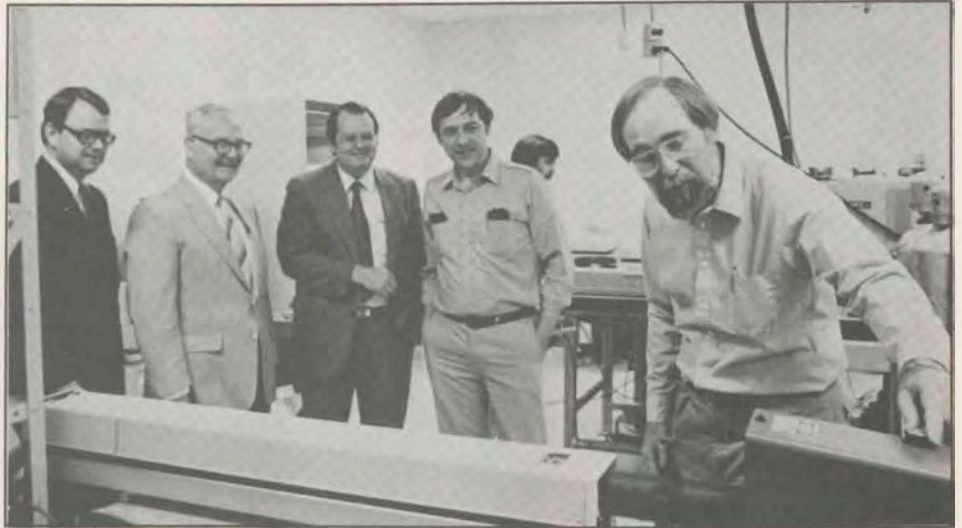
Research is the heart of UTSI programs and, despite the funding restrictions on research equipment, the faculty won contract and grant awards totaling \$8,275,800 for 33 research projects. Included in those awards was a \$92,000 Department of Defense grant for image processing equipment, which has led to significant research in x-ray image analysis by Dr. Dennis Keefer. New funds are needed, however, as seed money for high technology education and research and for advanced instrumentation and research equipment. Additional laboratory space is critically needed to house the laser research, electro-optics, gas dynamics, and aeropropulsion laboratories.

The institute expanded its research and educational interaction with the nearby Air Force Arnold Engineering Development Center, a major testing center for aerospace vehicles and components. Despite reduced national funding for energy research and development, UTSI's MHD research project continues as one of the most successful in the nation.

Record Enrollment Posted

A record 400 students enrolled at the Institute last fall quarter. One hundred of these are in the new engineering management program, which is offered by videotape. Despite funding restrictions, the program was expanded to Teledyne Lewisburg during spring quarter.

The institute is developing a new program



Dr. Dennis Keefer, right, UTSI professor, explains the operation of an experimental laser application to Walter Wood, of Congressman Jim Cooper's staff, left, Dr. Auzville Jackson, Tennessee Technology Foundation, UTSI Dean Kenneth Harwell, and Dr. J.W.L. Lewis, UTSI professor.

in knowledge engineering based on course work and research in artificial intelligence, expert systems, and basic computer science.

Students, Faculty Garner Honors

UTSI students and faculty earned honors in a variety of fields in 1983-84. Dr. Susan Wu and Tracy L. Prewitt were named Women of Achievement by the University. Dr. Wu, head of energy research programs, received the Mary Rose Gram recognition for significant publications. Ms. Prewitt, an engineering graduate student, received the Jessie Harris recognition for exceptional performance as a graduate student.

Dr. Robert L. Young, UTSI professor of mechanical and aerospace engineering, received joint awards from the American Institute of Aeronautics and Astronautics and the American Society for Engineering Education for his contributions to aerospace education. Keith Anspach was awarded the B.H. Goethert Graduate Studies Scholarship for the second year and is using it to complete his M.S. degree in computer science. The scholarship recognized Dr. Goethert's service to UTSI and the aerospace community. NASA certificates of recognition were awarded to

Dr. Basil Antar and to Dr. Al Pujol for their research at the NASA Marshall Space Flight Center. Dr. Boris Kupershmidt was invited to present a course on Modern Hamiltonian Formalism in Amsterdam and to lecture on super-integrable systems in Katata, Japan.

More than \$80,000 has been raised for the B.H. Goethert professorship in aerospace engineering. The money will be placed in an endowment and the interest used to recognize outstanding faculty performance. The fund recognizes Goethert, UTSI dean emeritus.

An Anniversary Year

This year, the 20th anniversary of the institute, will be dedicated as "The Year of Academic Excellence." The year will be marked by evaluation, planning and improvement in academic programs and celebrated by special events during October.

Additional state funding will allow the institute to increase its educational and research capability in 1984-85 by bringing in new faculty in computer science, physics, engineering science and mechanics, materials engineering, and atmospheric science. Laboratory instrumentation and computer facilities will be upgraded.

Center for the Health Sciences

The Center for the Health Sciences, notwithstanding severe **budgetary** constraints, has **continued** to provide quality **educational** programs and patient care **services** and to **expand** research efforts.

Minority Recruitment Emphasized

The **recruitment** of minority and disadvantaged students has been a priority at UTCHS. Last August, the **presidents** of the 13 Memphis **colleges** and universities endorsed a **Tennessee** Minority Health Careers Program at UTCHS. The **eight-week** summer enrichment experience will help minority high schoolers **prepare** for health science careers. Funding is from the city of Memphis, Shelby County, and the state.

A new position, **executive** director of the minority health careers program, was filled by Robert Netherland, formerly associate director of the minority engineering program at UT Knoxville. In the new position, he coordinates activities emphasizing health professional and biomedical science educational opportunities for minority students.

Also, a UTCHS proposal for a Tennessee Minority Health Educational Loan and Scholarship Program was funded by the state, providing nine grants for medical students and **three** grants for dental students entering the University in September.

Center Turns 20

The Clinical Research Center in the University's William F. Bowld Hospital this year celebrated its 20th anniversary. Dr. Abbas Kitabchi directs the center, which is involved in projects such as a nationwide study to evaluate methods of controlling blood sugar in diabetes and studies of hypertension, sexual **dysfunction** and hyperandrogenism.

Private Giving Aids Programs

The College of Dentistry has **received** more than **\$500,000** toward its \$1 million fund-raising campaign. The **college** also received its largest single gift **ever**, properly valued at more than **\$100,000** from Dr. Harold Clogman of Knoxville. Proceeds from the gift will be used to **establish** an **endowed** research award.

New Perspective, the College of Medicine endowment **campaign**, will focus on raising \$1 million for each of five projects: the Alumni Merit **Scholars Fund**, the F. June Montgomery Medical **Student Loan Fund**, the Harwell Wilson Alumni **Professorship** in Surgery, the O.W. Hyman Alumni **Professorship** in Micro-

biology and Immunology, and a **named** alumni professorship in medicine. **Already**, a **\$100,000** commitment has been made in memory of Dr. Louis Killeffer of Harriman.

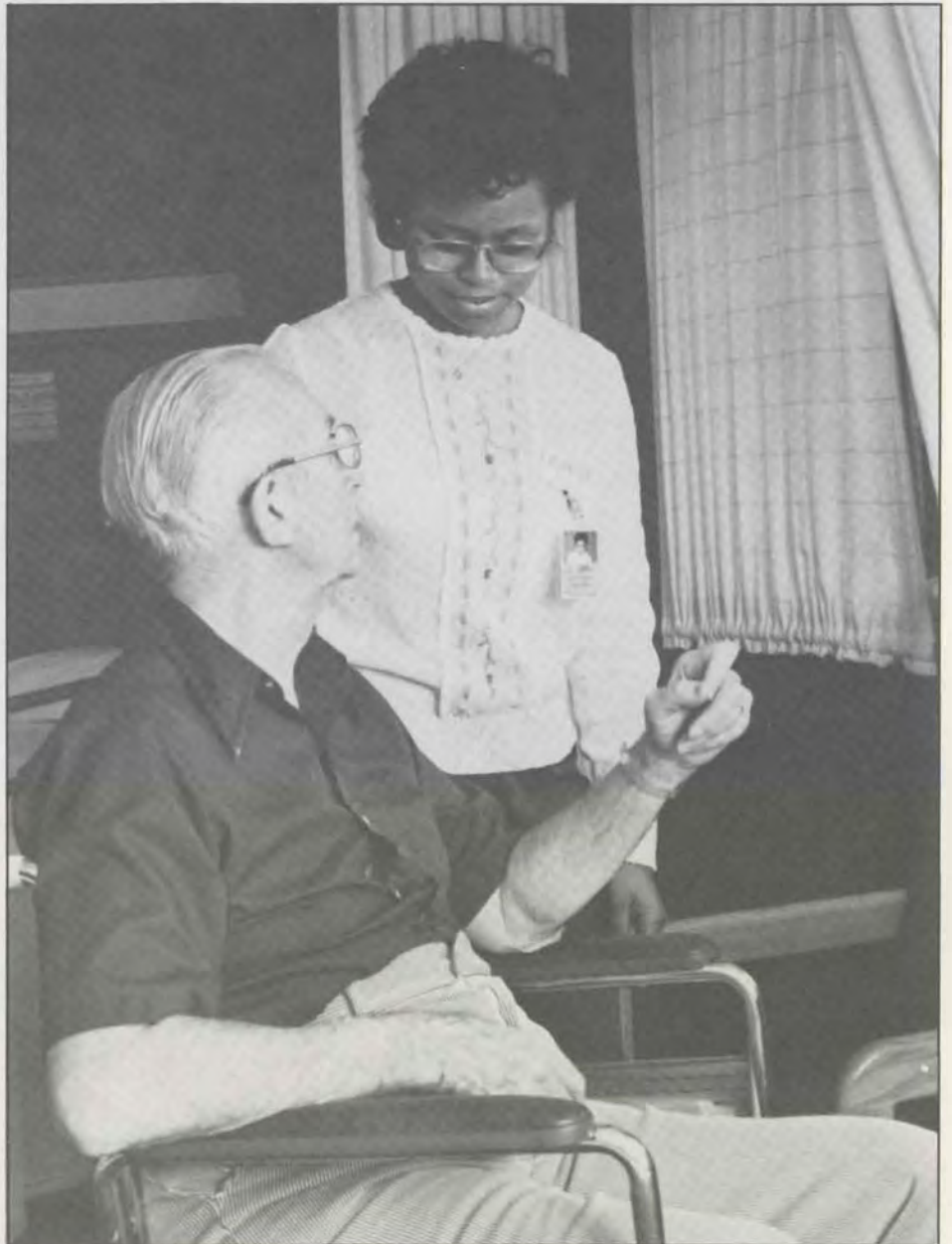
Two new organ transplant surgery suites were dedicated this **year**, more than doubling Bowld Hospital's capacity for organ transplant operations. The suites were made **possible** by more than **\$500,000** in private gifts from the late William Bowld and Mrs. Kay Bowld, the late Charles E. Humphreys and Mrs. Helen Humphreys, the late John G. Hoyt, Jr., Dr. and Mrs. B.G. Mitchell, Mr.

and Mrs. Ira A. Lipman, and Guardsmark, Inc.

Honor Code, Education Division Begun

In other developments, a campus-wide honor code was **approved**, with students responsible for its operation. Each college or school has or will establish an honor council to function under the rules delineated in the code.

In the Graduate School, the Division of Education has begun offering courses and seminars for both students and faculty to



Roslyn Malone, a high school senior from Gallatin, Tenn., talks with a patient at Veterans Administration Medical Center in Memphis as part of the UTCHS Tennessee Minority Health Careers Program.

strengthen educational skills. A Division of Biostatistics and Epidemiology and a Division of Computer Sciences also have been established.

The Southern Association of Colleges and Schools accredited UTCHS last December, and several individual programs were accredited by professional agencies. All educational programs and colleges at UTCHS that are subject to accreditation by outside agencies now are accredited.

A University-wide committee on cancer education was formed this year, under Dr. Alvin Mauer. The committee will study and make proposals to strengthen undergraduate health professional curricula in cancer.

Alumni, faculty and students were active in working for passage of the Better Schools Program. The executive councils of the medicine, dentistry and pharmacy alumni associations passed resolutions supporting the measure, as did the Faculty Senate.

Some Enrollments Reduced

For many years, the demand for health professionals in all disciplines exceeded the supply; now in some areas the demand has been met. UTCHS reduced its medical school enrollment from 204 to 180 in 1982. Enrollment in the College of Dentistry also has been reduced. The number of available jobs in nursing is expected to decline, but there will be an increased need for those with advanced degrees. UTCHS expects to expand training of nurses at the master's and doctoral level.

There is a shortage of pharmacists and allied health practitioners, but, because of funding shortages, pharmacy enrollments will be reduced temporarily.

Money Problems Affect Programs

All the colleges at UTCHS have felt financial constraints this year. Particularly hard hit has been faculty and staff recruitment. Economic constraints also have slowed development of new programs. A major concern is that funds have not been appropriated to complete the Library-Nursing Building or to build the South Campus Animal Facility. Because of the inadequacy of current animal facilities, faculty are unable to receive certain federal research grants.

Despite limited funding, UTCHS has enhanced the quality of many programs. The Graduate School of Medical Sciences, the College of Dentistry and the College of Pharmacy have undergone major reorganizations. There are new programs in several colleges—a Division of Pulmonary Medicine and a Division of Hematology and Oncology in the College of Medicine and a continuing education program and a faculty practice



A fund-raising campaign to establish a clinical research endowment in the College of Dentistry passed the halfway mark to its million-dollar goal.

program in the College of Nursing.

Research also has grown. In the College of Pharmacy, biopharmaceutics and pharmacokinetics were emphasized, and the Department of Pharmaceutics attracted \$745,000 for research. Dr. Mustafa Dabbous was appointed to the new position of assistant dean for research in the College of Dentistry.

In an effort to maintain quality education programs with reduced faculty numbers, class sizes reductions have been implemented or are anticipated in the Colleges of Community and Allied Health Professions, Dentistry, and Pharmacy.

Student recruitment in the College of Medicine has been enhanced by the availability of four endowed scholarships which make it possible to compete for outstanding applicants. Stipends for students in the Graduate School of Medical Sciences have been in-

creased from \$5,000 to \$8,000 annually.

With improved state funding next year, UTCHS expects to improve faculty and staff salaries and replace antiquated equipment. Money for program improvements are available only to the College of Medicine and the Graduate School of Medical Sciences. The Graduate School will continue development of the Division of Education and the new divisions of biostatistics and epidemiology, and computer science; the College of Dentistry will expand efforts in clinical services and clinical teaching. A high priority of the College of Medicine is the continued development of the departments of biochemistry and of microbiology and immunology through the recruitment of new chairmen, renovation of space and acquisition of modern equipment. Increased funding will help the College of Nursing meet the demand for additional graduate programs.

Martin

The 1983-84 academic year may well be remembered as the year in which The University of Tennessee at Martin came into its own, rising to national prominence with its model science and mathematics teacher education program and providing high-quality academic, cultural, and recreational programs for its varied constituencies.

UT Martin weathered the adversity that has affected all of public higher education in recent years, with its reputation for quality intact. The best faculty and staff have remained committed and, unlike many other institutions, UT Martin has not had to resort to personnel layoffs, terminations, program reductions, or enrollment limitations. The enrollment remains strong at more than 5,600 students, and the budget remains balanced.

The Martin campus' first priority for 1983-84 was to work with Gov. Alexander, House Speaker McWhorter, UT officials, and others to pass a Better Schools Program. Chancellor Charles E. Smith aided the process, serving as one of 50 charter members of Tennesseans for Better Schools, chairing the West Tennessee Jobs Conference, which unanimously endorsed the concept early in 1983, and explaining the program at alumni chapter meetings.

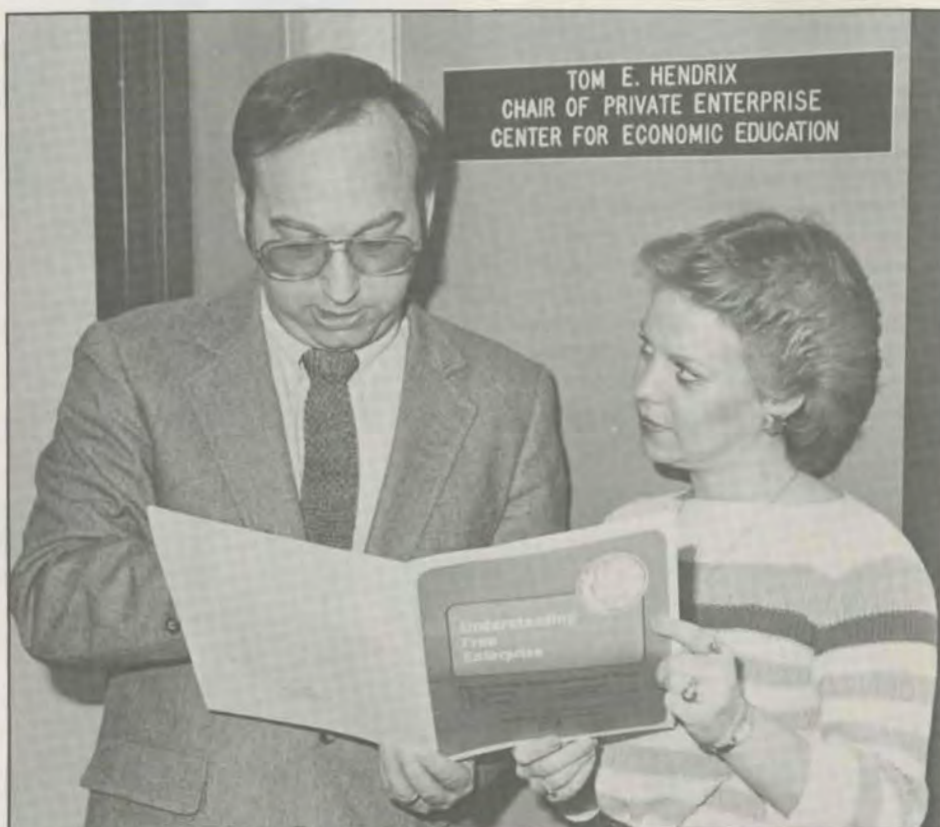
The Tennessee Valley Authority-funded science and mathematics enrichment program enrolled 60 Northwest Tennessee public school teachers in graduate-level courses. The program gained national attention, receiving American Association of Colleges for Teacher Education recognition, earning a \$25,000 grant from a major corporate foundation, and becoming one of 14 state Centers of Excellence.

Chancellor Smith spearheaded a public awareness campaign to "Make Teachers Proud Again." The campaign to restore dignity to the teaching profession was formally endorsed by the West Tennessee Jobs Conference board of directors and the West Tennessee Mayors Association. The initiative continues to receive enthusiastic support from local school boards, civic clubs, and community groups.

Academic Programs Scrutinized

The faculty has examined academic program content and delivery, with emphasis on a common core curriculum. The Academic Senate continues its study of the academic advising system.

The new Center for Economic Education completed its first year of operation under



Dr. Gary Young, director of the UTM Center for Economic Education and holder of the Tom E. Hendrix Chair of Private Enterprise, discusses an economic problem with Marsha Ridley, a UTM student.

the direction of Dr. Gary F. Young, who also holds the Tom E. Hendrix Chair of Private Enterprise at UTM. With funds provided by the Chair, School of Business Administration, Tennessee Department of Economic Education and other sources, the Center provided in-service education, workshops, symposiums, and resource materials to West Tennessee public school teachers and students. Activities will continue in 1984-85.

UT Martin continued to attract academically superior students. Scholarship support was fully funded and distributed. In September, UTM registered 50 students with ACTs of 28 or above in the University Scholars program. The Leaders-in-Residence program continued to attract record numbers of the state's high school salutatorians and presidents of student councils, senior classes, and Beta Clubs. Twenty-three high school valedictorians enrolled in the 1983 freshman class on UT National Alumni Association scholarships.

UTM students were successful in gaining admission to professional schools, and their performance again was well above the national average. The percentage of UTM busi-

ness graduates who passed the national CPA examination also exceeded the national average.

International ties were expanded. In December, Chancellor Smith and Dean John Eisterhold signed an agreement in Tokyo extending UT Martin's academic enrichment program with Nihon University's College of Industrial Technology. The new agreement insures the continuation of the program on the Martin campus, providing more money for UTM's academic programs and contributing to the cultural enrichment of UTM and Northwest Tennessee. The Japanese government and Japanese student fees support the program; no state tax dollars are involved. The future promises additional cultural, educational, and financial benefits, with broadened student exchange possibilities and formal faculty exchanges.

Cultural Offerings Thrive

Progress also was made in campus cultural life. For the third consecutive year, internationally acclaimed speakers—including Nobel Laureate in economics Frederick von Hayek—lectured on campus under the aus-

pices of the Academic Speakers Program. The UT Martin Arts Council sponsored a concert series, and Vanguard Theatre performances were sellouts. UTM's Museum/Archives program enjoyed a successful year of exhibits and demonstrations. And, WLJT-TV, the West Tennessee Public Broadcasting Service station, continued to broadcast UT Martin public affairs programs, fine and performing arts productions, and intercollegiate athletics events.

In May, the West Tennessee Agricultural Pavilion was dedicated at UTM. Chancellor Smith predicted the 2,900-seat facility would be to Northwest Tennessee what civic centers are to metropolitan areas.

In intercollegiate athletics, UTM continued to set Gulf South Conference attendance records in basketball. Pacer and Lady Pacer teams were competitive in seven men's and four women's sports. Private giving to the Pacer Club, UTM's athletics gifts organization, remained strong; and gate receipts climbed for the third consecutive year.

UT Martin's first major independent campaign to secure private dollars for distinguished professorships, faculty development, scholarships, library book purchases, and other academic needs was well ahead of its goal in late spring. The three-year "Campaign for Quality" is designed to raise \$2 million in new and continuing funds.

UT Martin's future looks bright. The Better Schools Program will provide badly needed funding, and that initiative will be supplemented by a capital gifts campaign. In 1984-85, salaries will improve, and operating increases will equal or exceed those of the last six years for many departments.

The main priority once again will be quality. A successful capital gifts campaign will provide the extras—professorships, scholarships, arts programs, library resources—that make a great university. UTM enters the 1984-85 academic year more confident, more content, and more able to continue to serve as the region's number one asset.



Cultural enrichment is typified by the UT Martin Symphonic Band.

Chattanooga

UT Chattanooga, along with all other public institutions in Tennessee, experienced a lean budget year. Nevertheless, there were qualitative advances, mostly accomplished through private fund support and through grants and contracts.

Two major projects with campus-wide impact were made possible by external funding. The library completed its automated circulation system and on-line catalog with the help of Lyndhurst Foundation funding. By having entered all of its holdings, UTC's library became one of the most advanced integrated systems in the Southeast.

An expanded co-op program has been funded by a grant from the U.S. Department of Education. Using grant funds, staff will develop co-op opportunities with a goal of placing 500 students in the program in five years.

During 1983-84, UTC made significant efforts to help improve public schools in the

surrounding area. The College of Arts and Sciences, working closely with the Hamilton County School system, provided courses for elementary school teachers in science, mathematics, speech, and English composition. The college also provided 78 gifted high school students with instruction in linear algebra, science, fiction, and introductory Russian language.

The School of Education was host this year to a professional educator's development program which was attended by 1,800 public and private school teachers from Southeast Tennessee. The program consisted of 300 sessions, many using UTC faculty as resource persons. The education school received two significant grants—one for a community outreach program in early childhood education and the other for rural education for exceptional teachers. Faculty of the School of Education were active in the statewide movement to improve public edu-

cation, with the school's dean, Dr. Roy Stinnett, chairing the subcommittee for revising teacher endorsements of the Advisory Council for Teacher Education and Certification.

Computer Center Recognized

Early in the year UTC was designated as the state clearinghouse for computer software in the public domain. This event was a precursor to one of the year's most significant achievements—approval for funding of a Center of Excellence in Computer Applications at UTC.

The entire area of academic computing received intense attention throughout the year. The School of Engineering received a \$500,000 grant to enhance its capabilities in computer-aided design and manufacture. The Center of Excellence proposal built on the grant, proposing more computer resources in business administration, education, engineering and computer science.

The University of Chattanooga Foundation approved an interest free loan/payroll deduction/purchase arrangement that permitted 80 UTC faculty to buy personal computers. The UC Foundation also agreed to support a two-year project to develop microcomputer laboratories on the campus. The first phase of the project provided for a general microcomputer laboratory open to all departments. The second phase is an advanced laboratory with equipment to support research and instruction in computer systems. The Tonya Foundation also has helped enhance UTC's computing capacities.

Academic Advancements Made

In its continuing effort to enhance quality, the College of Arts and Sciences initiated a regular cycle of program reviews. This year, self studies and off-campus expert peer reviews were completed in the departments of chemistry, geosciences, history, and psychology. The English Department hosted the Southern Humanities Conference, and the Department of Philosophy and Religion was host to the Southeastern Regional



Associate Professor Constance Mellon demonstrates UTC's new computerized circulation system for Director of Libraries Joseph Jackson and student Karen Kauthren, center.

Research **Conference** in Philosophy.

The arts and **sciences** college received a grant from the **American** Association of Retired Persons to study the impact of the availability of health information on market behavior of both providers and consumers.

The coal **geology** program received a grant from the U.S. Geological Survey to survey and predict coal **reserves** in South-east Tennessee.

The graduate and undergraduate degree programs in music were reaccredited by the National Association of Schools of Music. A three-year UC Foundation grant will be used to add equipment and faculty to facilitate accreditation of the communications program. The School of Engineering's programs were recommended for reaccreditation by the Accreditation Board for Engineering and Technology.

Private funds also provided for recognition of UTC faculty. Two new professorships were established in the School of Business Administration—the George C. Clark Professorship in Management Policy, with Professor Thomas E. Geraghty named to the chair, and the Arthur G. Vieth Professorship in Business and Finance, with Dr. John Fulmer, new head of the Department of Accounting and Finance, filling the position. Dr. Irvin Reid, new dean of the School of Business Administration, was named John C. Stagmeier Professor. In the School of Nursing, Professor Joan Seaborg was selected from among 860 applicants as one of 43 Kellogg Foundation Fellows.

The regional visibility of UTC's highly regarded Brock Scholars program was enhanced by the success of its graduates. The most recent graduates who chose to go to graduate and professional schools received an average of \$9,000 in fellowship assistance for further study.

Gifts Enhance Quality

Private gifts provided laboratory enhancements and faculty and student development funds. A Mueller Company gift allowed the School of Business Administration to establish a microprocessor laboratory. Harry Bradley provided funds to equip the learning laboratory in the School of Nursing with **carrels**, audio and video cassettes, computers, software, and patient models. The Kayo Oil Company made a grant for faculty and student development in business administration.

Contracts with external agencies continued to be a major source of research funding. A large TVA contract with the School of Engineering assisted in the school's reaccreditation. Engineering faculty were involved in research ranging from power systems to coal gasification, while the

school's **center** for applied engineering and technology enhanced **economic** development in the region.

UTC's Institute of Archaeology continued to help with **environmental** impact **statements** through **contracts** with the United States **Navy** and the **National Park Service**. The faculty research **funded** by these contracts also benefits students, who become involved in field experiences and applied research.

The development and grant offices redoubled their efforts to help coordinate the increases in external funding. The Annual Fund Campaign, led by Raymond Witt, UC Foundation trustee, surpassed its **goal** of a 50 percent increase and added some **200** donors.

State funding was **provided** for much

needed capital improvements. The **\$3.1** million **addition** to the **University Center** was completed, adding **meeting** and **conference** facilities and office **space** for student activities. New heating and cooling **systems** and roof replacements **also** were **completed**. This summer, Phase II of the Oak Street Housing Project will begin, **adding** another 200 beds for students, **and** **design** work should be completed on the **\$5** million addition to the central energy facility.

Despite low state funding levels, UTC continued its pursuit of excellence with vigor and **creativity**. The campus looks forward to the coming years when the Better Schools Program will provide a more solid base for even greater productivity.



Nick Honerkamp, left, director of UTC's Institute of Archaeology and assistant professor of sociology and anthropology, works on a project with lab assistant Lynda Lancaster.

Institute of Agriculture

Despite severe budget constraints, there was little erosion in the quality of programs in the Institute of Agriculture during 1983-84. Faculty and staff morale remained surprisingly high, largely because of the promise of improved state funding for next year. Optimism also was generated by plans for a private fund raising campaign to improve quality in all institute programs.

Pre-planning for the campaign began in April with the designation of a planning coordinator, Dr. Monty Montgomery, professor of animal science. The campaign should be launched during 1984-85.

College to Emphasize Recruiting

Enrollment in the College of Agriculture continued to decline in 1983-84, but plans for intensified recruitment are being made. Current and former students won many state and national honors, attesting to the continued high quality of instruction. The college established a new microcomputer teaching laboratory which serves all departments.

Major needs of the college continue to be: (1) improvement of faculty salaries; (2) funds to meet the increased cost of field laboratory activities; (3) administrative support for student recruitment, counseling, and financial aid; and (4) teaching equipment.

Enrollment Patterns Change at Martin

Enrollment declined slightly in the School of Agriculture and Home Economics at Martin in 1983-84, while the percentage of females and students from non-farm backgrounds increased. Curriculum changes, such as adding more experiential learning activities, are under study, and development of a computer laboratory was begun.

Agricultural programs at Martin received a tremendous boost with the completion of the Agricultural Pavilion, which was formally dedicated May 18. However, funds are needed for instructional equipment and supplies, student field trips, and laboratory modernization.

Veterinary Faculty Numbers Low

The College of Veterinary Medicine continued to operate with 29 percent fewer faculty than required by the national accrediting agency. As a result, development of research and graduate programs continued at a slow pace. There were, nevertheless, some notable achievements in 1983-84.

The veterinary teaching hospital served more than 37,000 patients. The first student to complete the graduate program in comparative and experimental medicine received the Ph.D. degree in March. Four faculty members received awards for distinguished service. The new veterinary class admitted in September 1983 consisted of 53 Tennesseans and seven out-of-state students.

A formula for future funding of the college, developed by the Tennessee Higher Education Commission, should make possible the orderly budgeting of equipment and building maintenance costs.

The college was one of five UT units ap-



The Veterinary Medicine Center of Excellence will conduct research in animal diseases that also afflict humans, as well as diseases causing losses in livestock.

proved for funding of a Centers of Excellence program. The center will deal with research on livestock diseases and their relationship to human health.

Research Projects Continue

The 98 scientists in the Agricultural Experiment Station pursued 202 research projects and published 313 reports, including 154 articles in scientific journals. Important findings included: (1) the relationships of genetics and of broiler house lighting to the deposition of fat in chicken carcasses; (2) use of double-cropping to decrease by up to 90 percent the number of soybean cyst nematodes; (3) improved rations for channel catfish; (4) the reduction of economic losses of cattle grazing on fungus-infected tall fescue pasture; (5) an improved instrument for assessing wood quality; and (6) improved protective clothing for pesticide applicators.

Experiment Station programs continued to suffer from declining program support, resulting in critical personnel losses, inadequate

operating funds, and deteriorating equipment. The improved funding promised by the Better Schools Program should help to resolve some of these problems.

Extension Adds Computers

Despite continued understaffing (45 vacant professional positions), the Agricultural Extension Service can report significant achievements in 1983-84.

Using grant and other restricted-use funds, 18 microcomputers were purchased to upgrade the delivery of programs across the state. Microcomputers also were installed at 4-H Training Centers so that 12,000 youngsters attending camps this year can have hands-on experience. The Extension Service trained more than 3,000 farmers and agribusiness firms in computer use.

Some progress was made in repair and maintenance of training center facilities.

To help producers improve their incomes, the Extension Service accelerated its management, marketing, and conservation pro-

grams. A total of 142 resource management conservation demonstration farms have been established in 20 West Tennessee counties to show how current technology can reduce soil erosion.

More than 81,000 Tennessee homemakers attended workshops on consumer education, housing and home repairs, clothing, health, and nutrition. The federally funded Expanded Food and Nutrition Program extended training in foods and nutrition to thousands of limited income families.

For the fifth consecutive year, Tennessee produced more national 4-H winners than any other state.

Improved funding through the Better Schools Program will greatly enhance the Extension Service's effectiveness by making salaries more competitive, filling some critical positions, and accelerating activities in areas of importance to the state's economy.



Dr. Larry Parks demonstrates the effect of irrigation on vegetable crop yields to area farmers at the Fruit and Vegetable Irrigation Field Day at the West Tennessee Agricultural Experiment Station in Jackson. The event was one of 10 field days conducted throughout the state in 1984 to demonstrate up-to-date research and technology to farmers.

Institute for Public Service

The 1983-84 fiscal year witnessed a major milestone in the delivery of more integrated technical assistance and training to officials of Tennessee's 334 cities and 95 counties.

Historically, the two local government technical assistance agencies of the UT Institute for Public Service (IPS) have worked "one-on-one," with specialists from the County Technical Assistance Service (CTAS) and Municipal Technical Advisory Service (MTAS) taking their services directly to the county courthouse or city hall.

But last year, mayors, county executives, city managers and local governing bodies had new responsibilities transferred to them from federal and state government. They needed more assistance from a UT public service staff which had been hit by staffing cutbacks.

To meet the increased demands, CTAS and MTAS were forced to consolidate delivery of some services. To do this, the agencies committed more personnel to developing and delivering programs through the Center for Government Training (CGT), another IPS agency. This method of delivering traditional technical assistance to several recipients at a time minimized staff time and multiplied impact.

As a result of the collective efforts of CTAS, MTAS, and CGT, more than 3,700 local government officials and employees have participated in one of four multi-session certificate programs initiated in 1983. The programs are:

- County Officials Certificate Training Program, a 115-hour, three-level series in which more than 100 persons have received first-tier certificates. Separate training tracks are offered for county executives, highway officials, county commissioners, county clerks, trustees, state court clerks, registers of deeds, assessors of property, and sheriffs.

- Municipal Officials Certificate Training Program, a 108-hour, three-level series involving separate sections for mayors and governing bodies, city managers, city recorders and finance officers, and other department heads. This series began in early 1984.

- Public Supervisor Certificate Training



Don Ownby, right, MTAS ordinance codification consultant, reviews the recently completed Farragut, Tenn., Code of Ordinances with Jack Hamlett, Farragut administrator. Maintaining codes for cities and revising the documents are two of the most popular services provided by MTAS.

Program, a 36-hour series for any city or county supervisor. More than 1,100 persons have attended these courses.

- Public Secretary Certificate Training Program, a six-topic series in which more than 200 persons have completed minimum requirements.

The response to the programs indicates this is a sound method of delivering selected services. Even more significant is the fact that productivity per staff member has been increased about 50 percent in the past three years through more innovative use of time.

Computerization Impacts Governments

The microcomputer revolution has caused problems for some local governments and a challenge for CTAS and MTAS.

In responding to the diverse needs for data processing assistance, the two IPS agencies now have eight staff persons with experience in computer needs assessment; hardware and software acquisition; and utilization of microcomputers in areas such as police dispatching, general ledger accounting, word processing, budgeting, and fixed asset inventory.

Grants Fund Training

Despite the significant reduction in federal programs, two IPS agencies are administering Emergency Medical Services programs under contract with the Tennessee Department of Transportation.

CGT is operating two programs, with most of the effort directed toward training ambulance service employees in the proper techniques of driving a vehicle in emergency situations.

Another IPS agency, the Critical Care Education Center, is conducting its final 668-hour Paramedic Training for Emergency Medical Technicians from Middle Tennessee. Test data for previous classes at five different institutions show that CCEC students ranked highest in overall average among 104 graduates.

Programs Attract National Visibility

UT's public service programs continue to generate national visibility for the institution.

A general session of the June 1984 annual conference of the International Association of Clerks, Records, Election Officials and Treasurers was devoted to the technical assistance and training activities of the Institute for Public Service.

In late 1983, the MTAS services in the area of data processing were the subject of a session at a regional meeting of the American Society of Public Administration in Oklahoma City.

CGT received in late 1983 the National Safety Council's "Best Performance by an Educational Institution" award for its role in coordinating the agency's Defensive Driving Course in Tennessee.

In-Plant Training Request Fulfilled

A major high technology firm in Tennessee asked UT's Center for Industrial Services (CIS), another IPS agency, to design and deliver a multi-session supervisory training program in its facility.

Although CIS has de-emphasized in-plant training recently, the firm asked for the program because of prior work with the center and its staff. The effort was launched in mid-1984.

Continuing Education

Requests for the services of the Division of Continuing Education increased dramatically last year. In most instances, the services were provided, but, operating on practically the same budget as the year before, the division in some instances had to say "no."

Correspondence Courses Examined

The Center for Extended Learning (CEL), which administers correspondence and videotape courses offered by the four UT campuses, last year joined with academic departments to review correspondence offerings. CEL and each department which originates a correspondence course reviewed the courses to insure quality and adherence to departmental standards. All departments approved the continuation of their correspondence courses with only minor changes.

English 1010 and Chemistry 1110-20 again were offered by videotape to college-bound high school seniors. The students observed the lecture tapes in their schools, and the chemistry students came to UT Knoxville for laboratory work. UTK staff visited the English students at their schools for conferences. There were 160 students from 11 high schools in these programs.

English 1010 also was offered to a hospital nursing class, and the center plans to make the course available to other employee groups.

A new non-credit course, the "One- and Two-Family Dwelling Inspector," was developed with the Southern Building Code Congress International. The course prepares students for a Southern Building Code Congress International certification examination.

Independent study enrollments for 1983-84 were expected to total about 3,900. Students from 90 of Tennessee's 95 counties, all 50 states, and 20 foreign nations participated.

The Center for Extended Learning offers 165 college, 81 high school, and 53 non-credit courses. Funds were approved to increase instructor payments in 1984-85, and this should stimulate course development and enrollments.

Antenna Damage Silences WUOT

The Department of Radio Services has passed through a turbulent year. The University's radio station, WUOT, suddenly went

silent last summer due to a damaged antenna. The antenna and several sections of transmission line had to be replaced.

While the department was struggling to restore operation, an audit revealed that National Public Radio was facing imminent bankruptcy. Member stations, including WUOT, were asked to help in such ways as loaning a portion of the station Community Service Grant monies to NPR. The crisis is past, and the source of much of the national programming broadcast by WUOT seems secure.

UT Chattanooga employed a station manager for WUTC, which now is equipped and staffed to originate local programming.

The two stations contracted with the publishers of *Ovation* arts magazine to include a monthly program schedule in each issue. This method of distributing the program guide has proved popular with the audience.

The department has increased the number of locally produced news segments used in National Public Radio's "All Things Considered" and "Morning Edition."

It had been feared that recent changes in Federal Communications Commission regulations might decrease usage of the educational and informational programming distributed by the department. Actually, demand for such programming has increased.

Television Services Has New Equipment

The acquisition of one-inch and three-quarter-inch videotape editing facilities enables Television Services to deliver video programs with broadcast quality technical standards.

The department this year produced a new program, "Tennessee Tonight," which provided cable television exposure to sports other than football and basketball. The program featured women's basketball, wrestling, swimming, track, tennis, and baseball. Another new program, "On Campus," is produced in cooperation with the Knoxville campus Office of Public Relations for broadcast over a local station. The program promotes the University to the community.

A video training tape, "The Rules of Volleyball," was completed, approved by the U.S. Volleyball Association, and copyrighted for marketing nationally.

Television Services continues to videotape and distribute credit instruction over the Knoxville campus closed circuit television system, distribute videotaped materials for class enrichment, coordinate teleconferencing, and provide videotaped credit courses to off-campus students through the Center for Extended Learning, UTK Continuing Education, and the UTK College of Engineering.



The television services department produced a new program, "Tennessee Tonight," which gave minor sports cable TV exposure.

University-wide Developments

University-wide enrollment was up slightly in 1983-84, with the Chattanooga and Martin campuses accounting for the increase. Because there was no increase in state appropriations last year, there were no fee increases. However, the appropriations will increase next year; and, in line with the 70-30 ratio which recommends that students pay 30 percent of the cost of their education, a 12 to 20 percent increase in fees takes effect this summer.

The increased state appropriations also will bring pay increases averaging 10 percent for faculty and staff. Most University personnel received no raises last year.

More Building Money

Capital outlay appropriations for the past year were limited—\$400,000 for pre-planning of the UT Knoxville library addition and some \$2.9 million for capital maintenance projects. For 1984-85, \$33 million has been allotted to UT capital projects, including \$24 million for the UTK library expansion. A \$5 million central energy facility at UT Chattanooga also is included in the 1984-85 capital outlay appropriations.

More than \$10 million worth of construction was completed this year throughout the statewide University. Those projects include the University Center addition at UT Chattanooga, the home team dressing room and training facilities at UT Knoxville, the West Tennessee Agricultural Pavilion at UT Martin, and phase two of the renovation of the Crowe Building at the Center for the Health Sciences in Memphis.

UT has awarded nearly \$24.9 million in construction contracts since July 1, 1983, and the total value of projects under construction is almost \$94.5 million. Two projects account for most of that total—the \$44 million addition to UT Hospital in Knoxville and the \$30 million assembly center and arena on the UTK campus.

The hospital addition will provide 335,000 square feet for 300 new in-patient rooms, 30 special care beds, an intensive care newborn center, a new radiology department and a new major surgery suite. It is the largest single project in the history of the University. The assembly center and arena will seat 25,000 spectators.

Projects in the design phases total \$51 million and include the library addition at UT Knoxville, phase two of the Oak Street Single

Fall quarter enrollments for 1982 and 1983 for UT's four campuses were as follows:

Campus	1982	1983
Knoxville	27,041	27,018
Center for the Health Sciences	2,026	1,988
Martin	5,525	5,670
Chattanooga	7,543	7,839
Total	42,135	42,515

(Source: Office of Institutional Research)

Student Housing at UT Chattanooga, an office building and parking garage and a boiler addition at UT Memorial Research Center and Hospital, and multipurpose building at the Clyde York 4-H Training Center.

Money Management Practices Enhanced

As part of a continuing effort to maximize returns on available cash balances, the University conducted an evaluation of its cash management program. Based on the report recommendations, new cash management techniques were implemented. As a result, the University expects to realize an additional \$700,000 annually.

The University also has changed its investment of endowment funds to maximize the effectiveness of contributions. Most endowments are managed through the University's investment pool, which achieved a record 40.8 percent return during 1982-83.

According to a survey by the National Association of College and University Business Officers, UT for the second consecutive year ranks first among all public universities in the nation in market value of life income trust funds. Life income trusts are gifts the University invests, with income going to the donors during their lifetimes. After the death of the donors, the funds go to the University for uses specified by the donors. The UT Treasurer's Office administers more than \$13 million in life income funds.

Congressional Actions Affect UT

The attack on student aid programs has lessened this year, but only temporarily. In the spring of 1985, Congress will consider reauthorization of all programs under the

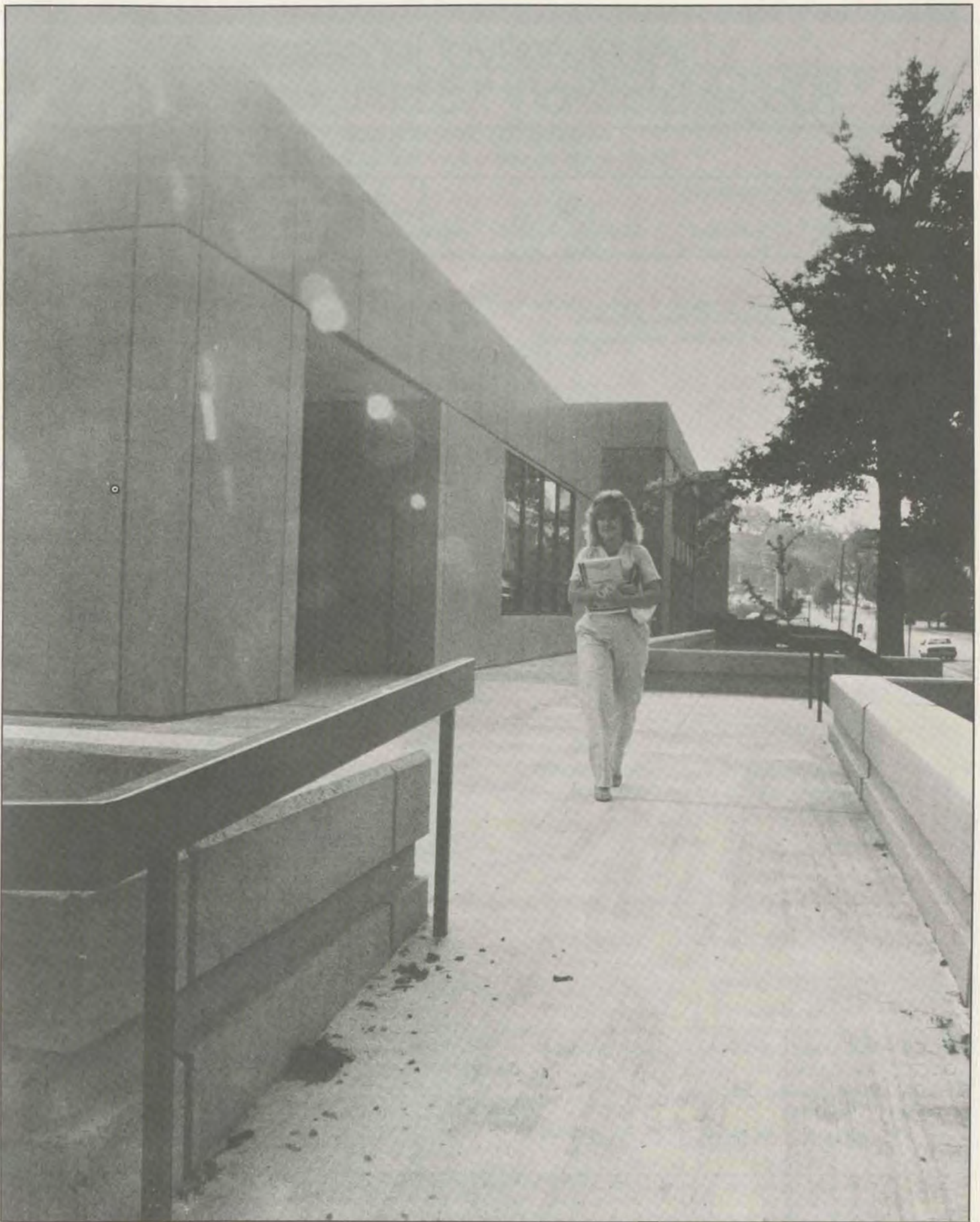
Higher Education Act, including student aid. The Office of Management and Budget already has announced that student aid will be a major target for cuts. If this effort succeeds, thousands of UT students will be adversely affected.

Last year students at all campuses of UT received nearly \$12 million in aid under the Pell Grant, Supplemental Educational Opportunity Grant, National Direct Student Loan, and College Work Study programs. Another \$19 million was borrowed from lending institutions through the federal Guaranteed Student Loan program.

Protection of the charitable deduction and other tax provisions important to the UT private giving program continues to be of major concern. The next Congress is expected to attempt a complete rewriting of the tax law.

Research support continues to be the bright spot at the federal level. There has been good support for research from the National Science Foundation, the Department of Energy, and the Department of Defense.

Much time was spent last year keeping members of the Tennessee Congressional delegation and staff of the Department of Energy informed of the University's interests in the selection of a contractor for DOE's Oak Ridge Operations. Because of strong support from Senator Baker, Senator Sasser, and Representatives Lloyd, Gore, and Boner, DOE made clear that strong relationships with the University would be a part of the evaluation for the contract. The relationship with Martin Marietta Corporation, which won the contract, has been good from the beginning and is already proving beneficial.



An addition to the University Center on the Chattanooga campus is a recently completed building project.

The University of Tennessee

Budget Summary 1983-84 and 1984-85

UNRESTRICTED CURRENT FUNDS*
(FY 1984-85 Budget Adopted at Board Meeting, June 21, 1984)

	Actual Expenditures and Transfers FY 1983-84	Proposed Budget FY 1984-85
Chattanooga	\$ 26,769,379	\$ 33,883,876
Knoxville (including Knoxville Campus, Evening School, School of Social Work and Testing Bureau)	142,533,875	170,629,717
Martin	22,972,575	28,613,348
Space Institute	3,925,813	5,276,253
Center for the Health Sciences (including Memphis Campus, College of Medicine, Memorial Research Center at Knoxville, Clinical Centers at Knoxville and Chattanooga, Family Medicine Clinics at Memphis, Jackson, Knoxville, and Chattanooga)	54,212,438	67,008,220
Agricultural Experiment Station	13,142,025	16,548,194
Agricultural Extension Service	16,406,179	19,533,584
Veterinary Medicine	6,203,959	7,877,408
Municipal Technical Advisory Service	1,028,069	1,358,731
County Technical Assistance Service	798,260	1,227,008
State-wide Programs (including Continuing Education, Institute for Public Service and University-wide Administration and Services)	11,010,537	13,840,168
TOTAL	<u>\$299,003,109</u>	<u>\$365,796,507 **</u>
ESTIMATED REVENUE 1984-85		
Student Fees	\$ 57,347,258	
State Appropriations	204,485,000	
Federal Appropriations	11,486,141	
Gifts, Grants and Contracts	9,703,402	
Sales of Educational Activities	12,778,337	
Sales of Auxiliary Enterprises	58,360,112	
Other Sources	11,636,257	
TOTAL	<u>\$365,796,507 **</u>	

* Includes all entities except hospitals

** Includes \$33,248,000 appropriated to meet the University's share of Social Security and retirement costs. From FY 1978-79 through FY 1983-84, the State allocations for these costs were appropriated to the State Treasurer's Office

Analysis of State Operating Appropriations

	Actual Appropriations FY 1983-84	THEC Recommendations FY 1984-85	Appropriated by Legislature	
			Operating FY 1984-85	Centers of Excellence FY 1984-85
A. Formula Units				
UT Chattanooga	\$ 15,212,500	\$ 18,975,000	\$ 18,136,300	\$ 664,295
UT Knoxville	73,403,700	91,668,000	87,186,300	3,435,153
UT Martin	12,294,200	15,233,000	14,575,300	249,556
Sub-Total	\$100,910,400	\$125,876,000	\$119,897,900	\$ 4,349,004
B. Non-Formula Units				
UT Center for the Health Sciences				
UTCHS Units	\$ 23,324,700	\$ 28,375,000	\$ 26,937,300	
College of Medicine	16,023,400	20,159,000	19,084,300	
Family Medicine Units	2,168,100	2,333,000	2,232,000	
UT Space Institute	2,024,900	2,820,000	2,675,000	\$ 1,025,921
Agriculture				
Agricultural Experiment Station	7,390,000	9,650,000	9,146,300	
Agricultural Extension Service	9,695,700	12,166,000	11,574,300	
Veterinary Medicine	5,450,400	6,797,000	6,422,300	254,221
Public Service				
Institute for Public Service	1,402,300	1,667,000	1,588,700	
Municipal Technical Adv. Svc.	588,700	718,000	690,300	
County Technical Asst. Svc.	444,800	543,000	520,000	
Continuing Education	865,100	1,118,000	1,044,700	
University-wide Administration	2,445,400	2,741,000	2,673,300	
Sub-Total	\$ 71,823,500	\$ 89,087,000	\$ 84,588,500	\$ 1,280,142
GRAND TOTAL	\$172,733,900*	\$214,963,000	\$204,486,400	\$ 5,629,146

*For comparability purposes, this figure has been adjusted to include retirement and Social Security funds.

Where UT's Money Comes from...

Resources Budgeted FY 1984-85*

State Appropriations—Centers of Excellence	5,629,146	1.0%
Gifts, Grants and Contracts	69,779,403	12.7%
State Appropriations—Direct	\$204,485,000**	37.2%
Sales and Services of Educ. Activities	116,288,316	21.1%
Auxiliary Enterprises	58,410,112	10.6%
Student Fees	57,347,258	10.4%
Endowment Income and Other Sources	26,963,134	4.9%
Federal Appropriations	11,486,141	2.1%
TOTAL	\$550,388,510	100.0%

...and Where it Goes

Uses of Budgeted Resources FY 1984-85*

Institutional Support, Student Services and Staff Benefits	92,613,553**	16.8%
Auxiliary Enterprises	57,793,588	10.5%
Instructional Programs and Related Activities of Academic Departments	\$264,311,280	48.0%
Research	51,853,185	9.4%
Public Service	35,876,156	6.5%
Operation and Maintenance of Plant	27,850,066	5.1%
Scholarships and Fellowships	18,424,478	3.4%
Other	1,666,204	.3%
TOTAL	\$550,388,510	100.0%

* Includes Unrestricted, Restricted and Hospital Funds.

** Includes \$33,248,000 appropriated to meet the University's share of Social Security and retirement costs. From FY 1978-79 through FY 1983-84, the State allocations for these costs were appropriated to the State Treasurer's Office.

Development

Private gifts from individuals, corporations and foundations continue to provide The University of Tennessee with the resources to enhance the quality of many programs on all the University's campuses. The \$11.6 million in gifts received in 1982-83 pushed the grand total of private giving to UT since the establishment of the development program in 1955 to more than \$134 million. Projections for the 1983-84 fiscal year indicate that an additional \$10-12 million will be added to the totals.

While some donors have specialized areas of interest, most designate their gifts for student scholarships or for faculty assistance.

During the 1982-83 academic year, private gifts provided directly or through endowment income \$2.08 million in financial aid for UT students. This figure represents a continuing commitment by alumni and friends to help the University provide opportunities for deserving students and, more importantly, to recruit the top high school graduates from Tennessee, the Southeast, and the nation.

Gifts Provide Momentum

There are several fund-raising campaigns in progress at each campus and unit, and

these programs are providing the momentum that will result in another outstanding year of private gifts for the University.

UT Martin will receive in excess of \$250,000 for an endowment for academic scholarships from the estate of Dr. Virginia P. Smith. Dr. Smith established a charitable remainder trust for the University, and at her death last spring, that trust and two subsequent trusts passed to the University. The recently announced UTM "Campaign for Quality" has received commitments of more than \$800,000 toward its \$2 million goal, including \$100,000 from faculty and staff in a family fund effort.

UT Knoxville received a commitment of \$150,000 from the Alcoa Foundation for the computer-integrated manufacturing systems curriculum in the College of Engineering and for the College of Business Administration Institute for Productivity through Quality. Shelby Williams Corporation established a \$200,000 fund for excellence in the College of Home Economics. Martin Marietta Corporation has committed \$250,000 a year for three years to support biotechnology research.

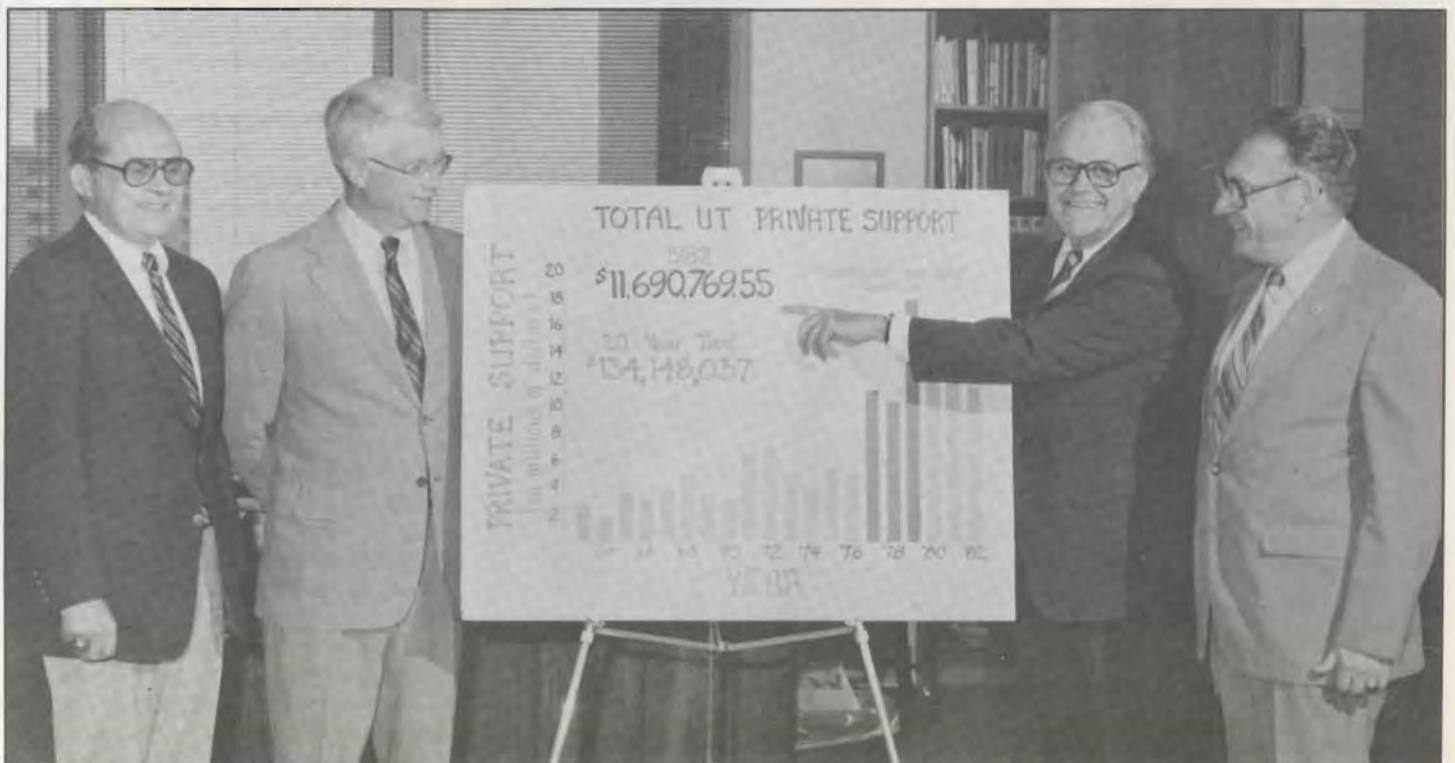
UT Chattanooga has received additional gifts from the Tonya Foundation for the

Center for Economic Education, bringing Tonya's total support for the program to \$1 million. Tonya also committed \$500,000 to the UTC School of Engineering for its Center for Computer Applications.

The UT Center for the Health Sciences received significant private support for the renovation of the transplantation surgery suites at the William F. Bowld Hospital. In addition, the campaign to initiate a clinical research endowment in the College of Dentistry passed the halfway point of its efforts to raise \$1 million. Dr. Harold Clogman of Knoxville transferred land valued at more than \$100,000 to the University for this campaign.

The UT Institute of Agriculture continues to receive outstanding annual support for its scholarship programs. Mrs. Dorothy Wright Gentry made additional gifts to the Jack Wright Memorial Scholarship Fund, bringing her total gifts in memory of her husband to \$57,000.

These examples, along with the outstanding alumni annual giving fund, show that the University has programs capable of attracting significant private support.



Frank Norfleet, chairman, UT Development Council, points to the year's private giving total. Observing are Dr. Joseph E. Johnson, left, UT's vice president for development, Tom W. Wade, Jr., national chairman of annual giving, and President Boling.

Alumni Affairs & Annual Giving

For the second consecutive year, annual giving in 1983-84 exceeded the two million-dollar mark. Total giving stood at \$2,674,786, a record increase of \$351,691 over last year's amount. The number of contributors fell slightly, however, with 27,022 making gifts, 114 fewer than in 1982-83.

Approximately \$800,000 of the 1983-84 total will be undesignated, and this amount will be allocated by the National Alumni Association Board of Governors to all University campuses to enhance academic programs. From undesignated gifts, the National Alumni Association will fund approximately 500 scholarships at a cost of \$525,000, provide 18 distinguished professorships with an annual salary supplement of \$3,000, recognize eight other faculty members with \$1,000 Alumni Outstanding Teacher Awards for their work in the classroom, give two \$500 Public Service Awards to deserving faculty and staff, and make grants to the campuses for their libraries, student singing groups and other projects.

The designated gifts that come to UT enrich department, school and college pro-

grams in ways not possible through normal sources of revenue. The University welcomes all contributions regardless of size or restriction and is committed to managing these resources in a prudent manner.

In addition to annual giving, approximately 1,212 alumni contributors were responsible for directing more than \$236,460 to the University from their employers in the form of corporate matching gifts. This source of revenue is a key part of the University's overall corporate giving program.

The National Alumni Association's Public Affairs Committee (PAC) was active throughout the year in support of the Better Schools Program, which the Tennessee General Assembly considered in special session in January and February. The PAC implemen-

ted an educational program among in-state alumni following the unanimous endorsement of the Better Schools Program by the National Alumni Association Board of Governors in June 1983. Passage of the Better Schools Program and the tax package required to fund it means that appropriations for all of higher education, including UT, will increase more than 50 percent over the next three years. Members of the Public Affairs Committee and key alumni throughout the state worked hard to contact their elected representatives with regard to the Better Schools Program, and their actions were effective.

Women's Committee Offers Programs

Since its founding in 1971, the Women's Activities Committee of the National Alumni Association has provided continuing education programs for more than 5,000 female graduates and other friends. During the past year more than 600 women attended programs in Memphis, Martin, Nashville, Chattanooga, Knoxville and Tri-Cities. Peggy Adicks of Knoxville chairs the committee.

Finally, the UT alumni program continues to be ranked among the best at the nation's public universities. In annual giving, UT has remained the leader in the South in the number of annual contributors and is in the top five nationally. Gifts from alumni and other friends during the past year assure UT's continued ranking among the top 10 public universities in America.

All of which means alumni and other friends of the University continue to be impressed with the institution's commitment to instruction, research and public service. By their gifts, contributors are endorsing the policies and programs of the University, its Board of Trustees, and administration. There is no reason to expect the trend to change. The National Alumni Association Board of Governors is looking to the time in the near future when the \$3 million plateau in annual giving will be achieved. And when it is, people within the University—students and faculty—will benefit from this new level of generosity of its former students.

	1982-83	1983-84	Net Change
Number of Contributors	27,136	27,022	-114
Dollar Total	\$2,323,095	\$2,674,786	+\$351,691
Average Gift	\$85.61	\$98.98	+\$13.37



Dr. Lew Dougherty, Jr., left, national chairman of annual giving, President Boling, and Dr. Joseph E. Johnson, vice president for development, announce the record annual giving total of \$2,674,786 for the year.

A Look Ahead

Based on the potential for progress promised by the Better Schools Program, the University of Tennessee looks to the future with optimism. We have the prospect of three years of continued support for the program, including the Centers of Excellence concept, which we hope will be carried forward by future state administrations. If a needed tax reform is effected and inflation remains in check, the future of public education in Tennessee appears bright.

The people of Tennessee will be the ultimate beneficiaries of the new Centers of Excellence, these areas of teaching and research already standing on the threshold of national prominence which may be projected into the limelight by added state support. It is anticipated that these centers will attract new industries, new people, and new dollars to Tennessee—all of which will help elevate the state's economic, social, and cultural status.

In a like manner, the newly endowed **Chairs of Excellence**, established by the General Assembly, will assure the acquisition and retention of superior professors, a requisite for quality higher education.

This is not to say the University of Tennessee's every need is being filled or will be filled. Although the great building boom is long past, there will be a need for an occasional new building; and a great need for the renovation and maintenance of existing buildings. Buildings for some purposes—student housing, athletics, etc.—of course do not depend on tax dollars, but are paid for with users' fees or gate receipts. But an occasional academic building, which does depend on tax dollars, will be necessary.

There always will be a need for the margin of enrichment which private giving can supply. And if the University is to take a meaningful step forward among the great universities of America, it is essential that the support of alumni and friends be continued.

Every cake needs its icing, and this added enrichment comes to UT mainly through private donations.

The coming year brings another increase in student fees, and questions continually arise concerning the need for a rise in fees when more state funds are becoming avail-

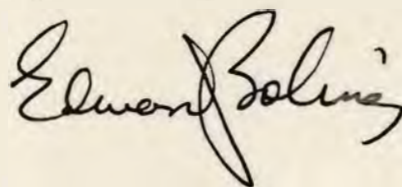
able. Compared with many similar undergraduate institutions, UT's maintenance fees and tuition are modest, which is desirable. In fact, a recent national publication identified UT as one of the country's "best buys" in higher education, because of our modest fees. We are concerned, however, about our professional schools fees, some of which are among the highest in the Southeast. Our medical school and veterinary medicine fees, for instance, are approaching the highest in the region, and we must guard against becoming non-competitive when compared with other professional schools. In recent years fees have been linked to state appropriations by the 30-70 percent rule. These state guidelines assume that 30 percent of the cost of educating a student should be borne by the student, with the remaining 70 percent coming from the state. This seems to be a sensible and equitable sharing of costs. Therefore, when the state significantly increases its appropriations to the University, as it is doing for 1984-85, the institution is obliged to raise its fees to maintain the recommended ratio. For the year now ending, when state appropriations rose only fractionally over those of 1982-83, fees were not raised.

The revamping of admissions standards has been one result of the need to limit enrollments in some areas, especially at the Knoxville campus. This refining of standards means not only an increase in the number of more capable students, but it more clearly defines the requirements that must be met in order to enroll at UT. We view this more as a means of helping the students assess their chances for success at the University. Some students who are ill prepared for college now may attend community colleges, where they may profitably spend their underclass years before moving into the UT classroom. Furthermore, the upgrading of the lower schools, as is expected through the Better Schools Program, should mean a better-prepared college freshman—one who can meet higher standards—and consequently, a better-educated graduate at the end of four years.

The coming year will be a year of challenge to UT administrators, faculty, and

staff. With the healthy boost in resources comes the great responsibility to use the peoples' tax dollars to the best advantage. Progress in classroom teaching, in laboratory research, and in services to the public must follow the progressive step taken by the Governor and the General Assembly.

Words cannot adequately express the gratitude of the University community to the many individuals and groups that worked long and diligently for the Better Schools bill. Governor Alexander must be commended for taking the initiative to lift Tennessee's public schools to a new level of support and effectiveness. Lieut.-Gov. John Wilder, House Speaker Ned Ray McWherter, and the Tennessee Higher Education Commission deserve untold credit for their contributions to the bill's passage. The General Assembly, which believed in the value of public education and had the courage to vote its conviction, has the gratitude of the entire institution. This Board of Trustees, which approved the Better Schools concept at its annual meeting last year, led the way for total University support of the bill. The work of UT support groups—the National Alumni Association, Development Council, faculty and students—was critical to the bill's success. And to the faculty, staff, and students must go credit for enduring with spartan patience another lean year and for keeping the quality of education from declining.



Edward J. Boling
President

As required by law, the President's Annual Report is published each year for members of the Tennessee General Assembly and state officials as a review of progress of The University of Tennessee. The report also is shared with selected University contributors and gift club and gift society members.

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