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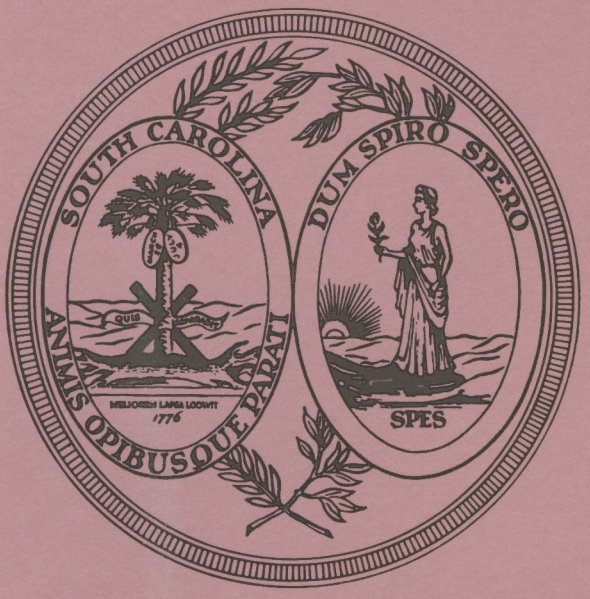
MEDICAL UNIVERSITY OF SOUTH CAROLINA



ANNUAL REPORT 1989-1990

Printed Under The Direction Of The
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Dear Governor Campbell and Members of the General Assembly:

Because of an uninvited visitor named Hugo, this past year's achievements are all the more spectacular. The hard work, dedication, and sacrifice by our faculty and staff was truly monumental. For perspective, consider the approximately twelve million dollars of property damages and lost income sustained by the University.

In general, the past year could be summarized as a period of continued growth of the University at a significant pace while consolidating the planning which will support that growth in the foreseeable future. We continue to develop subspeciality clinical programs which are unique and much needed in South Carolina. Research programs are expanding and well respected, and we expect the growth to accelerate through the development of centers of Oncology, Aging and Environmental Health Sciences, as well as activities within our colleges. The student body numbers have grown in Nursing and Health Related Professions and we continue to offer off campus and off hours education to non-traditional students.

While all of our accomplishments this past year are important, I am particularly proud of the following University-wide activities:

* Never fully closing clinical facilities during and after the hurricane, and conducting a full schedule of classes within two weeks of the storm.

* The upgrade of student services and the beginning of Phase II of the Student Life Center.

* The recruitment and appointment of the Vice President for Medical Affairs and the Dean of the College of Medicine.

* Finalization of agreements and preliminary design regarding the $11.5 million research facility.

* The expansion of our organ transplant programs with the initiation of liver and pancreas transplant programs.

* Approval of Certificate of Need for 20 additional beds in the Institute of Psychiatry.

I sense a renewed effort of cooperation and open communication throughout our University family. This sense of trust is mandatory for future progress and excellence.

James B. Edwards, D.M.D.
President

TABLE OF CONTENTS

Officers of Administration..... 3

Board of Trustees..... 5

Board of Visitors..... 6

College of Graduate Studies..... 7

College of Medicine..... 7

College of Dental Medicine..... 8

College of Pharmacy..... 8

College of Nursing..... 9

College of Health Related Professions..... 9

Office of Educational Services..... 10

Libraries and Learning Resource Centers..... 11

Academic Information Management..... 11

Office of Registrar and Admissions..... 12

Student Life Center..... 13

Vice President for Research..... 14

MUSC Medical Center..... 15

S.C. Area Health Education Consortium..... 16

Vice President for Finance and Administration..... 17

Office of Affirmative Action/Minority Affairs..... 18

University Relations..... 19

Office of Public Relations..... 20

Employee Health Services..... 21

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COLLEGE OF GRADUATE STUDIES

Qualifications of incoming students remain high. Of the 15 students awarded Doctorates of Philosophy, 8 were in the Molecular and Cellular Biology and Pathobiology Program, 3 in Biometry, 3 in Pharmaceutical Sciences, and 1 in Biochemistry. The Medical Scientist Training Program currently has 18 students enrolled.

Travel support was provided for 31 students for the purpose of presentation of posters or papers at national meetings. Eleven (11) outside seminar speakers were supported by the College.

Eleven (11) postdoctoral trainees were sponsored through funds provided by the Vice President for Research, 4 of whom were clinical postdoctoral fellows.

Thirteen (13) students will participate in the Summer Undergraduate Research Program. In this year's Summer Health Professionals Program, of the 12 students participating, 10 are enrolled in the College of Medicine, and 1 in the College of Pharmacy. The College was pleased to have received a highly competitive training grant for 5 years from the NIH for support of this program.

COLLEGE OF MEDICINE

An intensive search culminated in the appointment of a Vice President for Medical Affairs and Dean of the College of Medicine effective July 1, 1990. The College received full accreditation from the Liaison Committee on Medical Education. Additionally, two basic science chairmanships were awarded in Pharmacology and Pathology & Laboratory Medicine.

Faculty continued to perform in outstanding fashion in teaching, research, and service. Many were elected to scientific organizations; many served in leadership roles nationally and internationally.

New construction/renovation of the Hospital providing an improved clinical environment. The Charleston Memorial Hospital began construction to provide facilities for obstetrics and gynecology and expanded ambulatory care. New research space development is under way for the Hollings Cancer Center, Research Building in the new Research Park and VA/MUSC Research Facility.

Private research funding increased 59%. Federal research funding increased only 2% due to a progressive reduction of federal support for training grants. Overall, the College's research efforts continued to flourish.

Faculty achievements deserving of special note were the Governor's Distinguished Professor Award, VA Middleton Award, Diploma of Honor American Association of Clinical Scientists and the Presidential Award (White House) for work on behalf of crime victims.

Faculty publications consisted of scientific articles in 1,483 journals, 193 book chapters and 18 books.

The MUSC Trauma Program expanded with the appointment of new faculty expertise. Planning also began for the development of liver and pancreas transplantation.

Class size is now stable at 125 students per year with 1,440 total applications. All 132 graduates obtained appropriate residencies; 51 will remain in South Carolina.

COLLEGE OF DENTAL MEDICINE

A freshman class of 50 students was selected from 341 applications to the 1990 entering class. The applicant pool and quality of students remained high.

Service in the area of continuing education to the dental profession expanded. Dental Continuing Education presented 131 courses to 3,104 attendees.

The Dental Clinics continued to be productive. The Oral Diagnosis Clinic screened 1,635 new patients and performed 28,234 procedures on 6,298 patients.

A total of 44 articles were published by faculty in scientific and professional journals.

External funding to the College substantially increased through research monies and alumni giving.

COLLEGE OF PHARMACY

The Dean of the College completed his 25th year.

The quality of applicants to the various programs increased along with an increase in the number of applicants. This interaction also helped the College to recruit outstanding clinicians in a number of areas.

Course work was offered leading to two degrees awarded through the College and a third through the College of Graduate Studies. Fourteen (14) residents (1 year programs) were precepted by the clinical faculty. The College taught 84 credit hours of

course work in the B.S. program, 86 hours in the Pharm.D. program and 52 credit hours in the Ph.D. program.

The faculty published 52 articles, 40 abstracts, 2 textbooks and 6 newsletters. Four (4) video-tapes and an extern manual were also prepared for use at various AHEC sites and preceptors.

The clinical portion of the B.S., Pharm.D. and residency program continued to be a recognized strength. Because of the close working relationship between the College of Pharmacy faculty and various departments in the College of Medicine, meaningful practice sites have developed.

The faculty of the College continue to serve on a number of boards in the community such as the Boy Scouts, Salvation Army, Charles Webb Center, Interfaith Crisis Mission and numerous religious organizations. Numerous talks were presented to civic groups on drug and alcohol abuse, proper drug utilization, home health monitoring, and the pharmacist role on the health care team. With Continuing Education becoming mandatory for relicensure during 1989, the request for professional talks increased significantly.

The College is in the process of developing a plan for a selfstudy in preparation for an 1991 accreditation visit.

COLLEGE OF NURSING

The College of Nursing received continued accreditation from the National League for Nursing until 1997.

The College graduated 64 Master of Science in Nursing students; the largest number since the start of the Master in Nursing (MSN) program. External funding of $1,039,000 was awarded, including increased research funding and awarding of NIH "First Award." The Licensed Practical Nurse (LPN) program was initiated in the Bachelor of Science in Nursing (BSN) track.

The College of Nursing will continue to develop a doctoral (Ph.D.) program in nursing, as well as developing and implementing a comprehensive plan for the total college evaluation. The College also plans to facilitate the generation of additional research and other scholarly products.

COLLEGE OF HEALTH RELATED PROFESSIONS

The College educated 600 students at bachelor, master and advanced certificate levels; of this total 449 were undergraduates and 151 were graduate students. For working adults seeking advancement during evening hours, formal coursework leading to

degree credentialling also occurred at off-campus sites in Columbia, Greenville, Florence, Rock Hill and North Augusta/Aiken.

The College also continued to rotate many of its Charleston-based professional students into clinical sites across the State, regionally and nationally. During this reporting period, 139 undergraduate and 49 graduate level students were awarded degrees or certificates while a small number of non-degree students received advanced certificates.

All programs carrying specialized professional accreditation continued to meet required standards and, in general, the College offerings were judged strong and in good academic order, which reflected in the general strong showings of the graduates in their licensure, registry or certification-type national exams.

A small environmental health program continued to train hundreds of individuals from governmental agencies, private businesses, schools, et cetera, in asbestos abatement procedures.

In general, the College had a good year. More than 700 applicants requested admission to programs. The College addressed its primary teaching mission, increased its creative and scholarly productivity and expanded its service/extension activities. It graduated its largest upper division/graduate level group of students in its history and these graduates were aggressively recruited by hospitals and clinics and other delivery system units in South Carolina, regionally, and nationally.

OFFICE OF EDUCATIONAL SERVICES

Division of Instructional Support Services

The strength of the Division continues to be personal interaction/consultation with faculty in support of instructional programs. The Office of Educational Services also conducted formal teaching improvement programs in the Colleges of Medicine, Dental Medicine, Pharmacy, Health Related Professions and Nursing, for approximately one-hundred faculty. In addition, faculty helped to develop mediated instructional materials for 7 courses.

Evaluation Services

The Education Testing Center processed 636 exams and 41 separate surveys/evaluations. The Division administered the Department Chairperson Assessment Program (DCAP). Use of the Educational Computer Laboratory increased.

Television Production/Health Communications Network

In addition to engineering support for several new installations in the University, the Television Section produced 158 new programs in 1989-90. The Health Communications Network added 4 new members and 28 viewing sites to the Network, 158 new

programs were added to video cassette catalogue. Attendance reports indicated that more than 26,000 healthcare workers in South Carolina were served. The Division also provided Classroom Support Services for the University.

Audiovisual Production

The Division has continued to upgrade its ability to provide computer-generated graphic materials. A program is underway to expand this service to outlying centers.

LIBRARY

The Library's collection numbered 196,408 volumes. While considerably more monies were used for collection development, fewer volumes were actually added compared to the last two fiscal years, due to inflation in the books and journals trade, and the decline of the value of the dollar in foreign markets.

End-user searching is on the rise, and more micro-computer based information systems were introduced. Current awareness, communication, and evaluation efforts were expanded, as were involvement in out-reach and preservation efforts.

The Library was involved in University-wide planning efforts for information systems and resources. Proposals regarding management of the microcomputer labs and planning for academic computing efforts were presented.

Consultants visited the Library in April. The visit resulted in a comprehensive status report and plan, and the statement that the "basic library foundation... is very strong."

ACADEMIC INFORMATION MANAGEMENT

A committee, whose purpose is to define the University's academic research needs, has been established. Programs to introduce medical, dental, graduate and nursing students to the use of the computer have been expanded and are going well. Grants were obtained to expand networking in the micro lab and to support the training of faculty in the use of computers. Demand for continuing education programs continued throughout the state and the southeast. The Office continued to assist all of the colleges in the utilization of computer resources in individual areas of need.

OFFICE OF THE UNIVERSITY REGISTRAR AND DIRECTOR OF ADMISSIONS

APPLICATION/ADMISSIONS STATISTICS

	Baccalaurate	Graduate	Professional
Health Related Professions	523	167	
Nursing	233	139	
Pharmacy	195		52
Dental Medicine			341
Graduate Studies		341	
Medicine			1447
Subtotals	951	647	1840
GRAND TOTAL			**3438**

ENROLLMENT SUMMARY

Post Doctoral Fellows	84
MUSC Residents and Interns	394
Subtotal	478
Graduate Studies	116
Medicine	572
Dental Medicine	197
Pharmacy	226
Nursing	428
Health Related Professions	600
Non-Degree Program (Unclassified)	55
Subtotal Colleges	2,194
GRAND TOTAL	**2,672**

DEGREES AND/OR CERTIFICATES CONFERRED

July 1, 1989 - June 30, 1990

Graduate Studies	15	
Doctor of Philosophy	2	
TOTAL		17
Medicine		
Doctor of Medicine		140
Dental Medicine		
Doctor of Dental Medicine		57
Pharmacy		
Doctor of Pharmacy	16	
Bachelor of Science	68	
TOTAL		84
Nursing		
Master of Science in Nursing	47	
Bachelor of Science in Nursing	110	
TOTAL		157
Health Related Professions		
Cytotechnology	7	
Extracorporeal Circulation Tech.	8	
Health Information Administration	11	
Bachelor of Health Sciences	24	
Medical Technology	27	
Occupational Therapy	20	
Physical Therapy	39	
Radiation Therapy	5	
Master in Health Sciences	17	
Master in Health Serviecs Admin.	38	
Anesthesia for Nurses (Certificate)	7	
Orthoptics (Certificate)	0	
TOTAL		203
GRAND TOTAL		**658**

STUDENT LIFE CENTER

The Student Life Center helps provide for the non-academic needs of students and is comprised of: Student Programs, Student Health Service, Student Financial Aid and Job Placement, Counseling and Psychological Services, Student Wellness Center,

Human Performance Laboratory and Division of Biotechnology, the Dormatory and the Housing Office.

1,601 students received over $11,648,700 in financial aid assistance. Student Health Insurance was provided to 834 students. MUSC was once again rated as having one of the lowest student loan default rates in the country. Student Health Services had 6,259 student visits. Approximately 200 students attended 6 workshops addressing test-taking skills, study skills and test anxiety. A new publication "Vital Signs" was developed and widely applauded by students and faculty.

Counseling and Psychological Services (CAPS) entered its second year of a substance abuse prevention grant and completed a study on substance abuse patterns among faculty and students and also sponsored a week-long series of seminars and programs for students and faculty during Alcohol Awareness Week. CAPS also compiled a study on the psychological impact of Hurricane Hugo on students and faculty.

The Student Wellness Center and the Human Performance Laboratory offered wellness classes to MUSC personnel and students with many members of the community participating. A smoking cessation program taught by CAPS was well received. The Student Wellness Center assisted in the 1990 Cooper River Bridge Run.

Construction began on Phase II of the Student Wellness Center.

VICE PRESIDENT FOR RESEARCH

A preliminary plan for a corporate Outreach Program was developed to enhance external relations and technology transfer opportunities.

There was a 7% growth in extramural funding.

A strong competing renewal application was submitted for 5 more years of NIH support for the General Clinical Research Center, including 22 research protocols involving over 60 investigators from 14 departments.

A search for the Hollings Oncology Center Director was initiated.

A major prevention, outreach and epidemiological efforts were initiated with cooperation of local and regional tri-county tumor registry.

A MUSC Mammography Screening Facility was planned and developed to be opened in late Summer 1990.

An Environmental Health Sciences Steering Committee was organized to help develop an interdisciplinary research center.

MUSC MEDICAL CENTER

RENOVATION

- Private room units were completed to accommodate General Surgery and Orthopaedic Surgery patients.
- Space was provided to consolidate all ambulatory surgery functions within an attractive, easily accessible unit.
- A new, expanded Chemotherapy Unit opened.
- Renovation was completed to expand the area for Hospital Dentistry.
- Renovations were completed on the first two floors of the Storm Eye Institute for outpatient processing.

PATIENT CARE SERVICES

- Implementation of a total case management nursing system continued.
- A Progressive Care Unit and a Transitional Care Unit were developed.
- There was significant improvement in the Human Resource area to include: a) upgrading of LPNs; b) establishment of the Patient Care Assistant role; c) upgrading of unit secretaries; d) increased salary levels of RNs; and e) increases in the recruitment of staff, to include the hiring of a high percentage of the MUSC College of Nursing Class of 1990.

CLINICAL ACTIVITIES

- The Medical Center cooperated with the Department of Anesthesia in the development of a Pain Management Program.
- Planning is ongoing for pancreas and liver transplants.

SUPPORT SERVICES

- A new beeper paging system fully integrated radio paging and information system as implemented.

- An experienced administrator was recruited and hired for Ambulatory Care.

- Steps were taken to reduce barriers to access to the Medicaid Program for MUSC patients which resulted in significant reductions in indigent patient care.

- Patient registration information (inpatient and outpatient) was integrated with Medical Records and Patient Accounting billing information which resulted in: a) readily available patient information in all areas of hospital operations; b) increased cash revenues as a result of speedy and accurate transmission of claims; and c) improved patient flow with automated registration process.

- The Clinical Equipment Support Department expanded its biomedical repair coverage to Charleston Memorial Hospital. In addition, the Department participated in designing a technical assessment review process in order to better identify and prioritize equipment requirements.

FINANCIAL

- Despite Hugo, the MUSC Medical Center admitted 23,046 inpatients during fiscal year 1989-90. This compares favorably with 1988-89. Gross revenues were $203 million with operating expenses of $172 million.

SOUTH CAROLINA AREA HEALTH EDUCATION CONSORTIUM (AHEC)

The AHEC system provided community-based rotations for 76 MUSC and 9 USC medical students, and provided community-based rotations for 42 dental students, 13 medical technology students, 26 physical therapy students, 25 pharmacy students, and the summer Student Health Coalition with 24 medical, 2 dental and 1 nursing student.

The residency programs provided training for 172 Family Practice residents and 188 residents in other specialties. Additionally, the AHEC program sponsored practice management training for 114 residents from across the state. A significant achievement was the retention in South Carolina of 57% of the Family Practice graduates. One-third of these graduates now practice in areas of less than 10,000 population.

The AHEC system has continued to provide high quality continuing education for health professionals. The statewide network provided over 1,200 continuing education programs for allied health professionals, 75 programs for dentists, 780 programs for nurses, and 98 programs for pharmacists.

New interest in research activity has developed. The Greenville programs developed new ties with science departments at Clemson as well as at MUSC and USC in order to provide more state-of-the-art knowledge for the training of residents and to directly involve hospital-based faculty in research projects. The major teaching hospitals also increased their research interests. The statewide system agreed to collaborate in the research of the new Hollings Oncology Center.

The AHEC recruitment programs are an important service for South Carolina. Through these programs 11 physicians participated in a federal loan forgiveness program to practice in a rural community, 18 physicians have received incentive grants to practice in 15 rural South Carolina communities. Four (4) graduating medical students have received scholarships for their commitment to practice in a rural area.

The Practice Opportunities Fair, sponsored by AHEC, included over 100 medical residents who contacted 90 communities in search of physicians. A "How to Recruit" Seminar for 40 community representatives was presented.

The AHEC system, through state support, initiated a community-based interdisciplinary primary care center in Hampton County with plans underway for three more centers where students and residents can learn about rural practice in a model environment.

At the request of Governor Campbell, the AHEC program completed the first comprehensive statewide allied health manpower supply and demand survey.

The minority development programs expanded to include all areas of the state for the first time. Student development and recruitment programs were maintained through the year in 95 South Carolina high schools, and 6 middle schools and regularly involved over 1,300 minority students. The first Biennial Statewide Health Careers Fair was conducted for 500 students with 57 exhibitors. Summer enrichment programs for 100 middle school and 105 high school students were conducted in 5 sites to enhance minority students interest in, and preparation for, health professions training.

VICE PRESIDENT FOR FINANCE & ADMINISTRATION

Physical Plant prepared for and weathered Hurricane Hugo and facilitated reconstruction. Beginning construction on Phase II of the Student Life Center and the design for reconstruction of St. Luke's Chapel was proposed.

The Finance Division filled the Director of Procurement

position and filled the Director of Budget position. Also, MUSC received an unqualified opinion on the fiscal year 1989 audit.

The Finance Division successfully handled the impact of Hurricane Hugo.

The Procurement Department successfully procured all goods and services needed to repair and rebuild the University following the hurricane without any notable delay in the normal service level for the University's departments.

CSX National Systems completed the implementation of the Hospital Information System along with several ancillary systems, thereby making major strides in becoming the type of resource needed to support the University's mission of quality education and health-care.

The Department of Human Resources Management kicked off the MUSC Idea Factory. This program augments the State Employee Suggestion Program. Over 700 employees participated in staff development and training workshops. Particular emphasis was placed upon supervisory training. Thirty-five seminars were held to brief employees on the new state health insurance plan and to educate employees on planning for retirement. Over 144,000 pieces of benefits-related information were mailed to employees and all 5,200 regular employees were re-enrolled for State benefits under the new health insurance plan.

The Director of the Administrative Services Group served as the coordinating and negotiating point for the recovery of damages from the Insurance Reserve Fund after Hurricane Hugo. Implementation of new safety policies and the implementation of an accident review board have reduced accidents by 50%. The Annual Permanent Improvement Plan was completed with a total of 28 projects.

MINORITY AFFAIRS

The overall purpose of the student recruitment program is to increase the minority student application pool, and admissions in all MUSC programs.

The office gave leadership to the creation of a Pre-Health Consortium which consists of representatives from the historically black colleges within the state. Funding was provided by the Commission on Higher Education.

The 4th year minority medical students from South Carolina or with South Carolina ties were specifically recruited to participate in a newly created rotation program developed and coordinated by AHEC and the Minority Affairs office.

The Office hosted groups of college and high school students from throughout the state and also visited out-of-state colleges and universities for the purpose of recruiting minority students.

The office sponsored an Annual SAT Workshop.

Summer Programs included a Health Careers Opportunity Program (HCOP) which facilitated entry to medical and health care training programs; a Summer Apprenticeship Program provided research for minority high school students; and a College Summer Work Program which provided 8 jobs to minority college students who expressed interest in the Health Care Profession of Bio-Medical Research.

Minority student admissions is at a record high for the next academic year throughout all programs at the University, with medicine offering admissions to ten black students for 1990/91.

Student Retention activities included a University-wide tutorial program for all students regardless of race, and a student evaluation and testing program which included assisting students in preparation of National and State Board examinations. The Visiting Scientist Program allowed minority scientists/practitioners to interact with faculty, staff and minority students.

The Office assumed responsibility for International Student Programs and the coordination of off-campus housing for minority and international students.

Minority faculty recruitment for all colleges continues to be one of MUSC's and the Office of Minority Affairs greatest challenges. MUSC has received approval for its Affirmative Action Plan for 1989/90, without notations or provisions.

A comprehensive internal audit of Affirmative Action procedures for monitoring, referrals, hires, promotions and terminations was accepted.

UNIVERSITY RELATIONS

Membership in the Society of 1824 continued to increase. The Student Wellness Center campaign raised over $1/2 million for this priority need. Solicitation continued for the Gazes Cardiac Research Institute.

The Fall 1989 issue of Auctus, an alumni and development magazine, received a gold "Addy" (first place) award from the Advertising Federation of Charleston in recognition of excellence in print media.

Participation in the alumni association continued to grow. Within the individual college alumni groups, the Medical Alumni Association achieved 50% active membership and the Dental Medicine and Pharmacy Alumni Associations increased their percentage rate by 9% from the previous year.

The Medical Student Alumni Council, which was formally established in 1986, assumed a greater leadership role by helping to create better communication between medical students and the administration and faculty of the University. The Nursing Pal Program enjoyed its second year as local alumni met with junior students interested in their nursing specialty. Several of the college alumni associations awarded scholarships to current or incoming students, including two incentive scholarships and a joint alumni association scholarship. Successful reunions were held for the Colleges of Medicine, Pharmacy, Dental Medicine and Nursing for graduating classes from years ending in "0" and "5."

Alumni newsletters or magazines for each of the six colleges were established and maintained to create an effective communication system between the University and its graduates.

The Medical University Press produced over 12 million impressions, including booklets, brochures, forms, stationery, etc.

The Office Technology (Copy) Center now produces over a million copies per month at reduced cost. Fax service was also made available to the University Campus.

OFFICE OF PUBLIC RELATIONS

The Office of Public Relations continued to focus on building statewide awareness of institutional accomplishments. The staff produced more than 200 news releases, distributed six TV news reports, completed a slide-tape program on the new MUSC suggestion system, planned and held some 30 special events, published 24 issues of the Catalyst campus newspaper, conducted over 80 campus tours for 1,500 visitors, responded to more than 900 queries on patients from statwide news media, produced 20 speeches, coordinated production of 22 Health Matters TV shows and two special video projects for Medical Center marketing, and edited some 50 weekly weight-loss columns for the local Sunday daily paper.

EMPLOYEE HEALTH SERVICES

MUSC's Employee Health Services continues to provide quality medical care for employees injured or ill on the job. This strictly medical role is coupled with a constant effort to communicate activity with supervisors and department heads in order to minimize resulting lost work time and productivity.