



2003

State of the Medical Center Address

Presented by

THOMAS BOAT, MD

INTERIM PROVOST FOR HEALTH AFFAIRS

and

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ACTING SENIOR VICE PRESIDENT AND
DEAN OF THE COLLEGE OF MEDICINE

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University of Cincinnati
State of the Medical Center Report

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Research

Sponsored Program Activity

Researchers throughout the Medical Center, including the College of Medicine (UC COM) and Children's Hospital Research Foundation (CHRF) had another spectacular year for sponsored program activity. The trend of the past ten years has shown research productivity and funding in a continual incline; in 2002 we saw a substantial increase over that achieved during the past few years. Legislation continued to support significant increases for federal funding of biomedical research and this continued to build enthusiasm for future research efforts. This report provides a brief summary of sponsored program activity; more detailed information can be obtained from the Office of the Associate Dean for Research and Graduate Education in the College of Medicine.

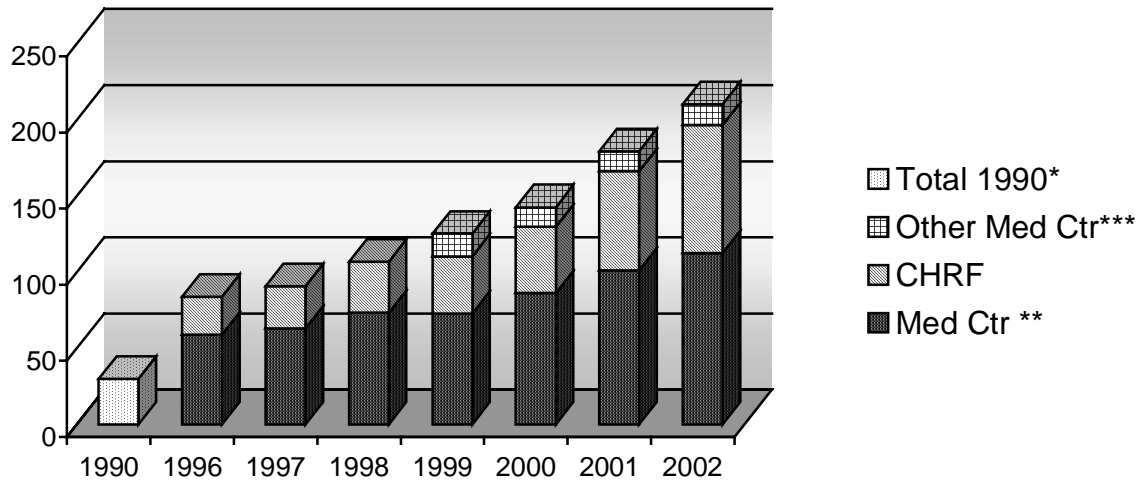
Overall rankings from the National Institutes of Health (NIH) for FY01¹ placed UC COM 19th nationally among public medical colleges and 43rd among all medical schools for sponsored program awards.

Total sponsored program holdings for UC COM totaled \$104.9M in FY02, an increase of 8.9% over last year's total (96.4M). The breakdown for FY02 shows that Research (98.14M) increased by 8.8%, Instruction (6.2M) increased by 21%, and Public Service (.56M) decreased by 44%. When totals from the Colleges of Pharmacy (1.7M), Nursing (.76M) and Allied Health (.79M); the Hoxworth Blood Center (.13M), and the Barrett Cancer Center (.08M), are added in, the total for the Medical Center comes to \$108.36M, an increase of 7.5% over FY01 (100.71M). CHRF holdings totaled \$84.4M, an increase of nearly 30% over FY 01 (65.1M). Other affiliates brought in 13.3M, bringing combined sponsored program holdings for the UC Medical Center and CHRF to \$192.71M, which is a 16.2% increase over FY01 (165.8M). As shown in Figure 1, our success over the past few years demonstrates the impressive growth of our research enterprise compared to total awards of about \$30M in 1990.

¹ NIH rankings for 2001 were published in April 2002; 2002 rankings will be available in April 2003

Figure 1

**Sponsored Program Awards ^{a, b}
(1990, 1996-2001)**



^a Awards in millions

^b Direct plus indirect costs

* Data for 1990 not separated out for UC Medical Center and CHRF

** Med Center includes COM, Nursing, Allied Health, Pharmacy, Hoxworth, Barrett Center, and Med Center Library

*** Other Med Ctr includes VA, Shriners and Clinical Trials (for 1999-2002)

Also included in Figure 1 for FY99-02, are grants and contracts at other affiliated institutions (see “Other Med Ctr”), which are staffed by UC faculty, such as the VA Medical Center (3.7M), the Shriners Hospital for Children (2.8M), as well as funds from sponsored research conducted in clinical trials (6.8M). When these amounts are factored in, the total research-related activity in the entire UC Medical Complex for 2002 is over \$206M.

UC COM received a very prestigious award in 2000, which was successfully renewed for 2002, from the Howard Hughes Medical Institute (\$2M for 4 years) as part of this agency’s Research Resources for Medical Schools competition. This grant and significant investments from the COM and CHRF have established new core facilities for genomics/gene array, proteomics, and bioinformatics. The COM continues improvements in its research infrastructure, including world-class facilities for the production of unique animal models of human disease, DNA sequencing, mouse phenotyping, biostatistical support, gene targeting and structural biology. Another noteworthy achievement this past year was that the American Cancer Society sponsored about \$8M in research grants in Ohio in 2002, and the UC Medical Center received \$2.9M, more than any other institution in the state.

Academic

College of Allied Health Sciences

Dean Elizabeth King

Interim Dean Andrea Lindell (Before June 2002)

Office of the Dean

- Provided overall leadership and management for the College's four Departments, computer services, alumni, and community activities and relations.
- Facilitated and supported the name change of the program in the Department of Analytical and Diagnostic Sciences from Medical Technology Program to Clinical Laboratory Science Program that became effective October 24, 2001.
- Facilitated and supported the name change of the Department of Health Sciences to the Department of Nutritional Sciences, effective November 1, 2001.
- Facilitated and supported the undergraduate Certificate in Dietetics in the Department of Nutritional Sciences to be implemented in the fall of 2002.
- Facilitated and supported the Internship in Dietetics proposal with potential offering in the fall of 2003 once approved by the American Dietetic Association.
- Facilitated and supported the proposal for a Professional Doctor of Audiology to begin in 2003 pending approval from the Ohio Board of Regents.
- Facilitated and supported the certificate options approval for nuclear medicine technology, magnetic resonance imaging, and sonography.
- Proposed and directed efforts with the Office of Student Affairs to establish a Dean's Student Ambassador Program for the College to begin 2002-2003 academic year.
- Facilitated the completion of the revised College By-Laws.
- Allocated "seed" money to the College to encourage extramural research.
- Continued to monitor and maintain current and projected budget for the College.
- Continued to secure necessary financial resources for the enhancement of programmatic needs.
- Continued to facilitate and encourage interdisciplinary research activities through joint seminars and faculty programs.
- Continued to work with College department faculty for curriculum revision and modification in respective programs.
- Transitioned the College to the leadership of the new Dean, Dr. Elizabeth King, effective June 1, 2002.

Associate Dean's Office

- Provided leadership in the redesign and upgrade of the College's Web site.
- Participated in the facilitation and development of a joint effort compact disc (CD) of College programs offered at the UC Medical Center.
- Visited Raymond Walters College and Cincinnati State Technical and Community College to familiarize their faculty and students with our College programs and the

seamless transition to our College employed through the articulation agreements and the 2+2 arrangements with both.

- Presented seminar to faculty and students of Thomas More College and the College of Mount St. Joseph in an effort to inform them of our graduate programs.
- Represented the College on numerous committees, teams, and task forces, including the Distributive Learning Collaboratory, IT Partnership, Graduate Council, the Millennium Committee, Entrepreneurial Task Force, and IAIMS.

Academic Coordinator, Office of Student Affairs

- Admitted 50 first-time college students, admitted and transferred credits for 45 external transfer students, and admitted 17 on-campus transfer students to the College.
- Taught Freshman Seminar course to first-time students in the College of Allied Health Sciences.
- Planned the college-wide reception for College of Allied Health Sciences Cincinnati Scholars and served as an assessor in the Cincinnati VI Scholarship Competition.

Director of Business Operations

- Continued to oversee the annual budget process and the day-to-day financial, personnel, and facilities areas of the College.

Department of Analytical and Diagnostic Sciences

Advanced Medical Imaging Technology Program

- Graduating seniors heavily recruited for both nuclear medicine technology and magnetic resonance imaging positions since their junior year with all offered full-time positions prior to graduation.
- Overall program enrollment has increased by 154%; freshman and sophomore enrollment has increased by 164%.
- Two certificate options have been approved for nuclear medicine technology, magnetic resonance imaging, and sonography.
- Two articulation agreements have been signed with Raymond Waters College in addition to obtaining three more clinical affiliations with the groundwork laid to bring in five or six other affiliates over summer of 2002.

Blood Transfusion Medicine Program

- Moved the Blood Transfusion Medicine Program from the College of Medicine to the College of Allied Health Sciences on August 1, 2001 with the Program to begin in the College, September 2002.
- Completed the transfer of courses from the College of Medicine to the College of Allied Health Sciences and completed and submitted course approval forms for 16 existing courses and one new course.
- Accepted two students into the Program, the current Program's capacity, for the 2002-2003 academic year.

- To fulfill the requirements for SBB program reaccreditation through the American Association of Blood Banks and the Commission on Accreditation of Allied Health Education Programs (CAAHEP), completed a comprehensive document describing every aspect of the Blood Transfusion Medicine Program.
- Faculty has two funded grants.

Clinical Laboratory Science Program

- NAACLS Five Year Reaccreditation granted in October 2001 with the Program's final report due October 2002.
- Completed final phase of total curriculum revision including restructure of clinical education, update of course content, and revised course sequence.
- Initiated development of fast track BS program designed for individuals holding associate's degree in Clinical Laboratory Science and continued to focus efforts on the addition of a Histotechnology Program.
- Passage rate of graduates on the Board of Registry Examination was above the national average at 87%.
- Finalized articulation agreements with the Clinical Laboratory Technician Program at Cincinnati State Technical and Community College and Raymond Walters College.

Genetic Counseling Program

- Pilot projects underway to explore need for doctoral training in genetic counseling.
- Recruitment statistics remained consistently excellent with 95 applications received, 27 applicants interviewed, and 8 new students accepted into the Program.
- Majority of June and August 2002 graduates secured counseling jobs.
- Reviewed/updated the learning objective for each clinic, created database for student use to track their cases and requirements for certification, and approved 17 ad-hoc clinical training sites for 6-week summer internships.
- Faculty received one new grant with continued funding on three.

Department of Communication Sciences and Disorders

- The Doctoral of Audiology proposal will begin in 2003, pending approval from the Ohio Board of Regents.
- Numbers of graduates from Programs were: PhD (7), MA (58), and BS (9).
- Three faculty members were funded externally including the National Institutes of Health R01 grant awarded to S. Boyce in the amount of \$1.25 million with continued funding of two USDOE grants.
- Graduate students – 5 publications, 8 peer-reviewed presentations, 1 invited presentation, and received 7 grant awards; submitted 4 grants.
- Established collaboration with Easter Seals of Cincinnati to offer a speech and language treatment program using our clinic space, supervision, and students to serve 18 children over a six-week period.

Department of Nutritional Sciences

- Implemented new Master of Science in Nutrition in the fall of 2001.
- Developed an undergraduate program Certificate in Dietetics for non-traditional students with implementation in fall of 2002 and continuing progress on the Internship in Dietetics proposal with the intention of offering it in the fall of 2003.
- The Program's five-year pass rate on the national registration examination of 90% was above the national average.
- Enrolled 96 undergraduates and 14 graduates for the 2001-2002 academic year.
- Continued placement of graduate students in competitive dietetic internships at a rate above the national average.
- Faculty involved in 11 grants and awards.

Department of Rehabilitation Sciences

- 100% of graduating Physical Therapy and Physical Therapy Assisting students successfully passed the state licensing examination on their first attempt; graduates reported 100% job placement within three months of licensing.
- Implemented the Bachelor of Sciences in Health Sciences in fall of 2001.
- Charter class of the Master of Physical Therapy Program graduated in December 2001; the final class of students enrolled in the Bachelor of Physical Therapy Program also graduated ending the transition of entry-level physical therapy education from the baccalaureate level to the master's level.
- Students presented their research both at the state and local levels with graduates for the first time presenting the results of their master's projects at the National American Physical Therapy Association Conference in June 2002.
- Faculty submitted two grants and co-investigators on four other grants.

College of Medicine

Dean William J. Martin, II

Office of Medical Education

The Education Coordinating Committee (ECC) and the curriculum committees continue discussing possibilities to further enhance the learning opportunities for medical students. A review of the approach to teaching the physical examination and physical diagnosis has been instituted. The ECC has approved a dynamic and measurable set of goals and objectives for the educational program. Curricular changes will be developed based on these goals and objectives.

The ECC has also established a series of subcommittees and task forces to design, implement and monitor longitudinal curricula in selected areas. This approach has been successful in strengthening education in Women's Health and Gender-specific Medicine, Genetics, Geriatrics, and Nutrition.

The Center for Competency Development and Assessment (CCDA) provided learning and evaluation activities in all four years of the medical school curriculum. Standardized Patients (SPs) participated in the Medical Interview component of Introduction to Clinical Practice I, ICP-II, the third-year Internal Medicine core clerkship, and the Family Medicine clerkship's program in Geriatrics. In addition, all members of the Class of 2003 completed the first administration of the Clinical Competency Examination (CCX). This internally developed exam includes the use of standardized patients and inter-station exercises; and successfully passing the CCX is a requirement for graduation. The CCX provides a mechanism for review of certain aspects of the curriculum. Results of aggregate student performance on each case are shared with the appropriate course directors and clerkships responsible for teaching particular content or skills.

The CCDA provided the opportunity for residents in Neurology to participate in a simulated final neurology board certification examination. Nurse practitioner students from the College of Nursing also benefited from the CCDA facility and the use of SPs, completing an exam in Physical Exam skills.

Staff of the CCDA have been involved in a number of national presentations including the Association of Standardized Patient Examiners, the American Neurological Association, and the Society of Teachings in Family Medicine. Future presentations in 2003 are pending at the Central Group on Educational Affairs spring conference, the Society of General Internal Medicine meeting, and the Innovations in Medical Education conference.

During 2002 the CCDA has hosted a number of visitors from several academic health centers interested in our facility, and several other institutions are planning to visit in 2003. These visits have served to enhance the reputation and growth of the CCDA and the University of Cincinnati College of Medicine as an emerging leader in the field of competency assessment for undergraduate, graduate and continuing medical education.

The Clinical Skills Lab is now utilized by almost every major clinical clerkship. Anesthesia, Family Medicine (including Geriatrics), Neurology, Obstetrics and Gynecology, Pediatrics, and Surgery have used the lab to introduce skills and procedures that relate to their respective clerkships. Special curricula workshops have also been offered for Year I and Year II students. Third-year students were exposed to general skills that would be useful to them as they entered the clinical biennium during the 2-day workshop, Orientation to Year III.

Special interest groups such as Dual Admissions, Summer Pre-Matriculation, and Gifted High School programs have booked the lab for special events. The Division of Trauma has organized a training program for the U.S. Air Force utilizing the human patient simulator. The Department of Emergency Medicine has offered a bioterrorism seminar to paraprofessionals in addition to sponsoring special workshops for various medical student organizations. Hospital groups including respiratory therapists and nurse practitioners have all benefited from the Clinical Skills Lab.

Future plans for the lab include the use of PDAs to track the completion of skills as specified by the Clinical Biennium Curriculum Committee; the integration of skills and/or procedures into the Clinical Competency Exam for all Year IV students; and the development of specific curricular cases for the human patient simulator.

Medical students continue with their excellent academic performance. The pass rate on the U.S. medical licensure exam (USMLE) continues to exceed the national norm: 99% pass rate for Part 1 and 98% for Part 2. In addition, medical students remain competitive in the NRMP matching process, and nearly half of the 2002 graduating class matched in the state of Ohio.

In 2002-03, The Office of Medical Education continued the development of a medical humanities program by adding a fourth-year elective, Art and Medicine, to join its first offering, Medicine and Literature.

The Teaching Effectiveness and Mentoring (TEAM) program entered its second year, promoting and enhancing the teaching skills of faculty. Faculty completing the year-long program were: Robert Banks, Ph.D., Physiology; Rama Kasturi, Ph.D., Pharmacology; Corrine Lehmann, M.D., Internal Medicine; Wan Lim, Ph.D., Cell Biology; and Charles Webster, M.D., Family Medicine.

The following faculty were recognized by the medical students for excellence in teaching:

	<u>Golden Apple</u>	<u>Silver Apple</u>
Basic Science	Bruce Giffin, PhD Cell Biology Gregory Balko, MD Pathology	Edmund Choi, PhD Molecular Genetics Bruce Giffin, PhD DJ Lowrie, PhD Chantal Prewitt, PhD Cell Biology

	<u>Golden Apple</u>	<u>Silver Apple</u>
Clinical Science	Richard Stevenson, MD Surgery	Brad Mathis, MD Internal Medicine LeAnn Coberly, MD Internal Medicine

Office of Student Affairs and Admissions

Admissions

- In the 2002 entering class, there were 157 excellent students selected from 2,105 applicants. The mean Biological Science MCAT score was 10.4. The Grade Point Averages for the class were 3.56 (Science) and 3.63 (cumulative).
- The number of women matriculating increased from 32% to 45% in 2002
- The class represented a total of 58 colleges and universities-(17 Ohio and 41 Non Ohio)

Dual Admissions Program

The number and quality of applicants to the Dual Admissions Program continues to increase. For the 2002 College of Medicine entering class, 19 students matriculated from this program. Both the MCAT scores and the grade point averages were above those matriculating from the traditionally accepted students. We continue to accept superior students into the program.

Recruitment Programs for Minority and Disadvantaged Students (Pathways Programs)

In reviewing the six programs, we are pleased to report the following:

- 68 students participated in programs for middle and high school students.
- Of the students who have participated in our high school programs since 1995, over 95% have entered college.

In 2002, 61 students participated in programs for college students. Most of these students are still in college and have not yet applied to medical school. In the past years, 49% of the students have applied to medical school. Other students have applied to graduate programs. These programs continue to provide national exposure for the College of Medicine.

General Recruitment

This year, the College of Medicine supported the undergraduate campus in recruiting students by having a reception for Cincinnati Scholars and their families. The Cincinnati competition includes academically superior students the University hopes to matriculate. We look forward to expanding and increasing our efforts to support the undergraduate campus in their recruitment efforts.

Financial Aid

- \$1,491,204 in scholarships the University of Cincinnati funds were distributed to 179 academically strong and/or financially needy medical students.
- \$17,244,927 in financial aid was processed for 549 medical students.

Medical Student information

In 2002, 97% of our students passed Step I of the USMLE on the first attempt.

The fourth year students did very well in the Match program for residency placements. 44% will remain in Ohio while 56% will travel out of state. Placements included 6 students in Orthopedic Surgery, 9 in Radiology, 11 in Emergency Medicine and 4 in Ophthalmology. Placements included Duke University, Emory, Massachusetts General, Johns Hopkins and many other excellent programs.

Office of Research and Graduate Education

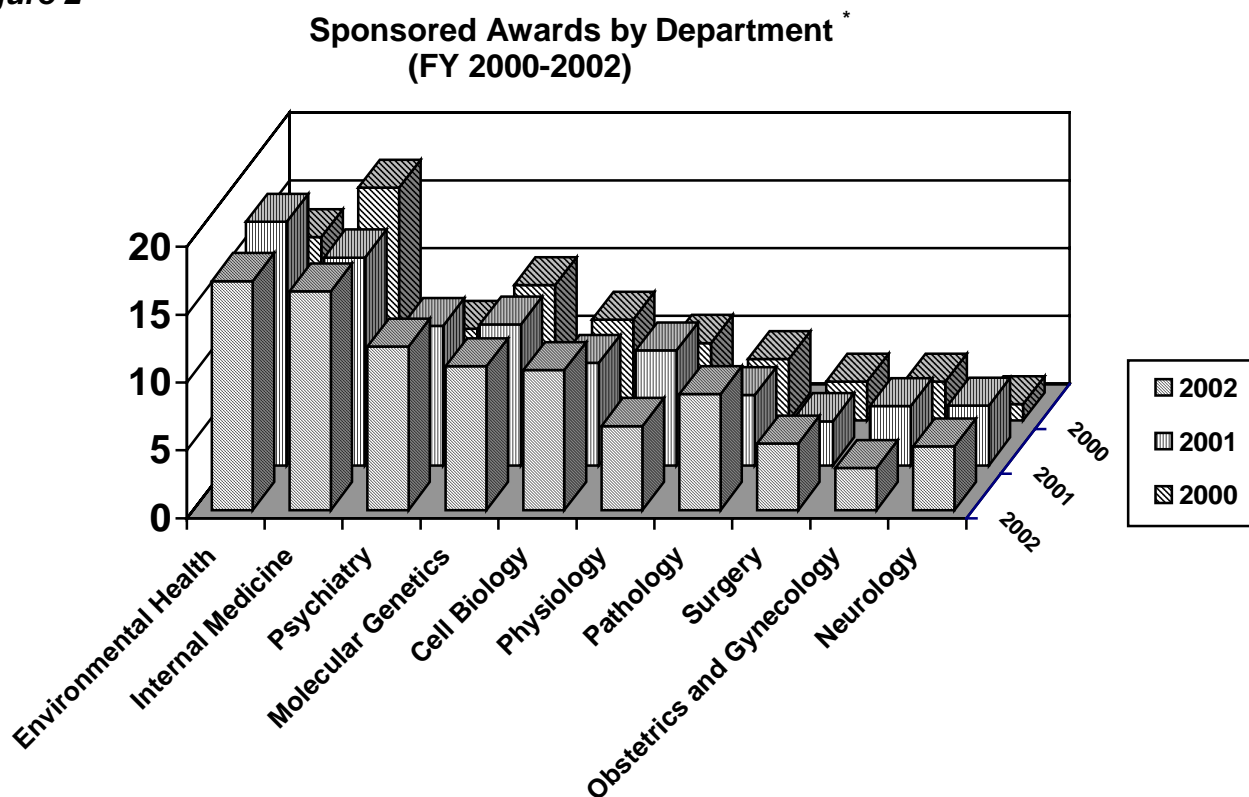
Research and graduate education in the College of Medicine remain strong and competitive. The productivity of our departments, programs, students, faculty and staff, as well as their parent committees, have contributed to the tremendous growth of our academic and research programs. Institutional investments made in support of graduate students, postdoctoral scholars and new faculty, combined with a cutting-edge infrastructure, continue to pay dividends. Continued planning, strategic investments, and the bright funding picture from federal agencies should enhance our ability to achieve ever-increasing levels of excellence in our research and training enterprises.

Departmental Rankings

The basic science departments at the COM continue to be very strong and, as a group, continue to rank near the top 10% in the nation for sponsored program support per faculty member. The clinical departments also continue to hold onto the spot they earned last year, ranking in the top 25% for grant support per FTE. Updated departmental rankings for sponsored program support per FTE can be found in the AAMC's publication, *IPS Basic and Clinical Departments Data Report* for the University of Cincinnati College of Medicine, when released in spring 2003.

Most recent data indicate six departments ranked in the top 20 of their peer groups. Environmental Health ranked 5th (out of 53); Molecular Genetics, Biochemistry and Microbiology ranked 12th (out of 43); Ob/Gyn ranked 13th (out of 77); Cell Biology ranked 15th (out of 87); Physiology ranked 17th (out of 99); and Dermatology ranked 19th (out of 35). The top 10 research intensive departments at UC COM in terms of NIH grant support (respectively) are Environmental Health, Internal Medicine, Psychiatry, Molecular Genetics, Cell Biology, Physiology, Pathology, Surgery, Ob/Gyn and Neurology (See Figure 2). Research intensive departments (>\$500K in funding) showing the greatest improvement in terms of national rankings with NIH support are Ophthalmology, Dermatology, Pathology, Environmental Health, Neurology, Physiology, Surgery, and Cell Biology.

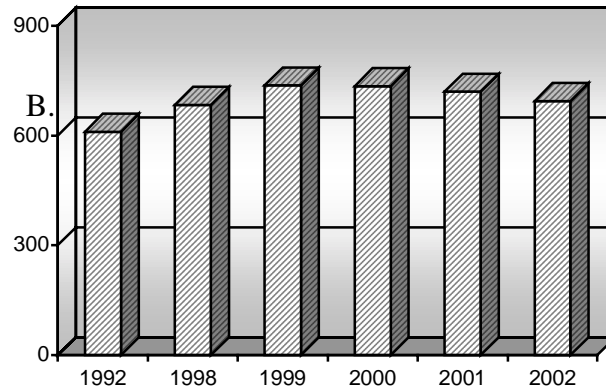
Figure 2



*Awards in millions

Examples of other noteworthy research accomplishments achieved in FY02 are the establishment of a new Center for Genome Information, the formation of the Genome Research Institute (GRI), completion of the Research Plan for the Millennium, the receipt of two Ohio Eminent Scholar Awards, a \$9M award from the Ohio Biomedical Research Technology Transfer (BRTT) program, for the GRI, as well as continued success with Procter & Gamble initiatives in cardiovascular sciences, obesity, bioinformatics and genomics.

Another important index of research productivity is the publication of research findings in peer-reviewed journals. Literature searching and citation analysis reveals that publication rates have remained strong after showing significant growth in this index over the past several years (See Figure 3). In 2002, researchers at UC COM contributed 694 senior-authored research manuscripts to a selected group of outstanding biomedical journals (*Science, Nature, J. Clin. Inves., PNAS, J. Biol. Chem., etc.*). Clearly, our basic and clinical scientists are translating knowledge gained from the laboratory and bedside into useful information.

Figure 3**UC COM Publications
(1992, 1998-2002)****Internal Nominees for Extramural Awards**

The Office of Research and Graduate Education administers numerous internal competitions for many prestigious national awards. The following summarizes the nominees selected for the past year:

- Dr. Allison Weiss (Dept. of Molecular Genetics): Ellison Medical Foundation Senior Scholar Award in Global Infectious Disease
- Dr. Hector Wong (Critical Care Medicine, CHMC): Doris Duke Clinical Research Scientist
- Dr. Scott Holland (Dept. of Radiology, CHMC): Dana Clinical Hypothesis in Imaging Research Program
- Dr. Michael Bey (Dept. of Biomedical Engineering): Burroughs Wellcome Fund Career Awards at the Scientific Interface Program, 2002
- Dr. Sad Ghosn (Dept. of Pathology): AAMC AOA Robert J Glaser Distinguished Teaching Award for 2002
- Dr. Lisa Mills (Dept. of Pediatrics, Psychology Div.): AAMC Herbert Nickens Minority Faculty Fellowship
- Dr. Xinhua Lin (Developmental Biology, CHMC): Damon Runyon Scholar Award
- Dr. Jorge Bezerra (Dept. of Pediatrics, Gastroenterology Div.) and Dr. Ram Singh (Dept. of Internal Medicine, Immunology Div.): Burroughs Wellcome Clinical Scientist Award in Translational Research
- Dr. Susan Biehl (Dept. of Neurology): Burroughs Wellcome Fund Career Awards in the Biomedical Sciences
- Dr. Rod DeKoter (Dept. of Molecular Genetics) and Dr. Francisco Gomez (Dept. of Internal Medicine, Infectious Disease Div.): Searle Scholars Program for 2003
- Dr. Shih-Wen Luoh (Dept. of Internal Medicine, Hematology & Oncology Div.): Pew Scholars Award in Biomedical Sciences

Postdoctoral Training

The University of Cincinnati has been rated among the best 150 places worldwide for Postdocs. "Best Places to Work for Postdocs Survey" will appear in the February 10 issue of *The Scientist*. Spanning 681 institutions, this is an informal survey of postdoctoral scientists and their views on the institutions in which they work.

The Postdoctoral Scholars Advisory Committee, established in 1998, continued to meet regularly, addressing issues such as establishing a uniform title for fellows and improvements in their benefits program. There are currently 184 postdoctoral fellows at the Medical Center. The Departments of Pediatrics; Molecular Genetics, Biochemistry and Microbiology; Cell and Molecular Biology; and Internal Medicine support the largest number, respectively.

The postdoctoral Web site (<http://www.med.uc.edu/postdoc>) now contains the University Policy on Postdoctoral Appointments and Benefits, and links to useful items such as NIH training grant opportunities, the University Job Opportunities Update and other Web sites dedicated to postdoctoral issues.

In an effort to highlight the research contributions of postdoctoral scholars, the Office of Research and Graduate Education once again sponsored the annual Postdoctoral Scholars Research Forum in May 2002; in September it sponsored a very successful grant writing workshop by Dr. Stephen Russell; and on October 22, it hosted a reception for all new postdoctoral fellows and their mentors, which provided an opportunity for the fellows to talk with the new Dean of the College of Medicine, Dr. William Martin.

Research Web Site (www.med.research.uc.edu)

The Research Web site continued to be updated in 2002 with the addition of links that were thought to be of interest to the UC researcher. This site continues to be one of the most popular academic research sites in the country.

Graduate education

Centralized recruitment support for all 12 graduate programs through the Office of Research and Graduate Education continues to enhance the visibility and competitiveness of our college within the sphere of biomedical science programs nationally. We raised stipend levels to maintain a competitive level of student support, are recruiting and retaining an outstanding graduate faculty, and are improving support for postdoctoral fellows. Highlights from centralized recruiting and from the 12 individual graduate programs in the UC COM are presented here. For more detailed information, or for copies of recruitment materials, please contact the Office of Research and Graduate Education.

Our graduate programs have been evaluated extensively over the past few years, both by external and internal peer review groups for the university and by external consultants to the Ohio Board of Regents. These review groups recommended that all of our programs continue to receive full funding. It is significant that during the last statewide review of 96 PhD programs, only five received the designation of competitive at the highest national level by the Ohio Board of Regents, and that two of our own graduate programs, Developmental Biology and Environmental

Health, were included in this group. The Council on Graduate Education has initiated a schedule of program reviews this year, beginning with a review of the Molecular Genetics program.

Graduate Student Enrollment

Our 12 graduate programs matriculated 115 students in 2002 (an increase of 22% over last year's yield) and graduated 60 students (19 MS, 41 PhD), bringing our total student body to 380, of which about 75% are domestic students. A survey of our graduate programs indicates that the time to degree for our 2002 graduates averaged 5.2 years for PhD, and 3.4 for MS (including part time students). The attrition rate across all programs averaged 2.7%.

The quality of our new matriculates continues to be very high. The cumulative grade point average of all new students for the College of Medicine was 3.40 (4.0 scale). The average Quantitative GRE was 679, Verbal was 560, and the average MCAT score of our new MD/PhD students was 33. Figure 4 shows cumulative grade point averages (GPA) of new matriculates and the College average for 2002. Figure 5 shows average combined Quantitative and Verbal GRE scores of 2002 matriculates in individual programs and the College average.

Figure 4

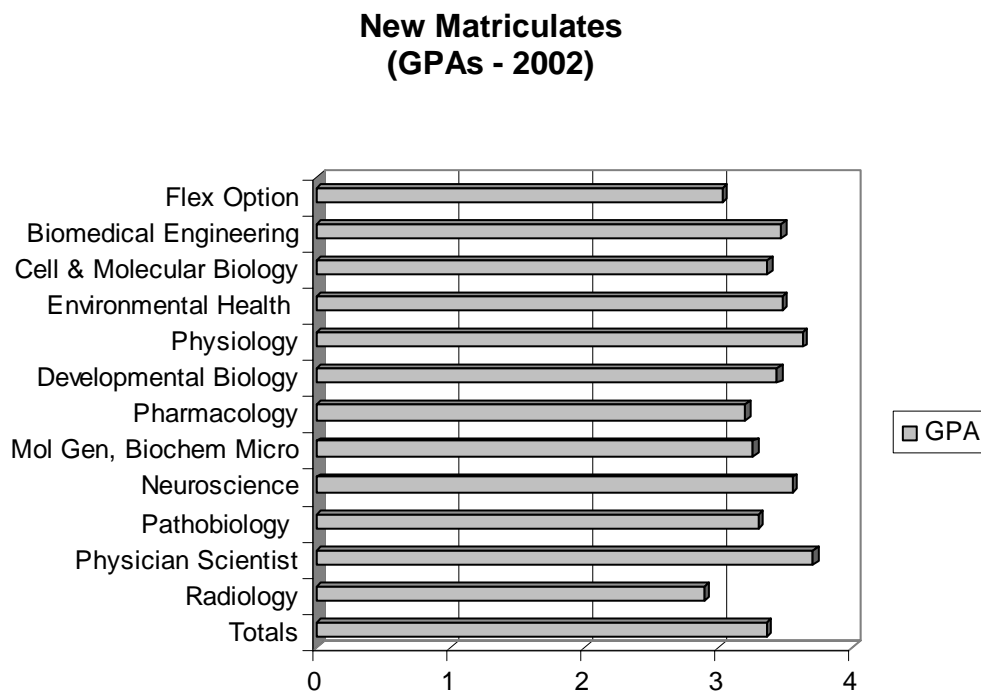
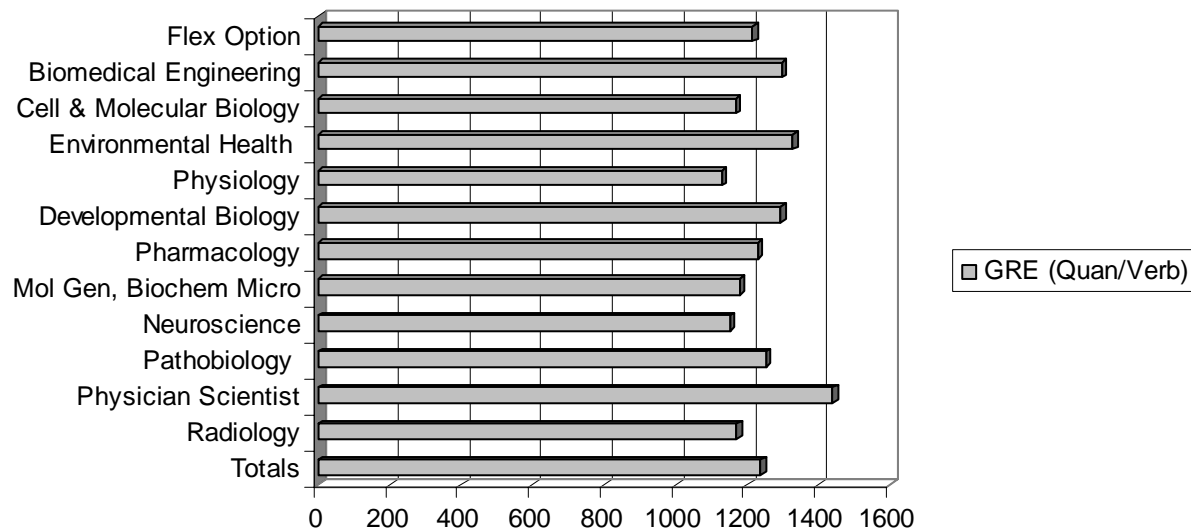


Figure 5

**New Matriculates
(Quantitative/Verbal GREs - 2002)**

**i-Recruitment**

This year, the Office of Research and Graduate Education continued making progress implementing our i-Recruitment Initiative. The focus of this plan is to develop a recruitment system that utilizes Web-based based databases and communications systems, as well as promotional and marketing strategies that implement the Internet or drive users to our Web site. The following is a brief list of some of the strategies employed this year:

- Implemented a Web-based based recruitment initiative called ApplyYourself; a Web-based prospective database. When a student visits our Web site, they fill out the inquiry form; the data is stored on a database with a Web front end, which is immediately available on the ApplyYourself Web Center for use by recruiters in many ways. For instance, we can:
 - o Send individual or group personalized email messages
 - o Track and organize prospects
 - o Run reports for data analysis
- Posted a new information request form on our Web site for prospective students
- Built a new, interactive Web site for our annual Undergraduate Visitation Day
- Registered our Web site with top search engines for maximum exposure
- Produced promotional items to drive people to our Web site
- Continued production of a new Virtual Tour about our research, campus and city.

Minority Recruitment

In addition to *i*-Recruitment, we have set a goal to increase the number of applications from underrepresented populations. Toward this goal, we have increased the number of visits and presentations to undergraduate science students at historically black colleges. This year we presented at 7 historically black or predominantly black colleges, and attended the McNair Scholars Conference at Penn State University.

Undergraduate Visitation Day

This fall we hosted a very successful open house for potential applicants to our graduate programs. Nearly 40 undergraduate students and their faculty attended the Undergraduate Visitation Day. Several of these visitors subsequently applied for graduate programs in the College of Medicine for Fall 2003.

Undergraduate Summer Research Program

A major goal of the Undergraduate Summer Research Program is to promote careers in science and to recruit potential graduate students. This year, there was a collaborative effort by all the graduate programs to provide a meaningful and memorable research experience to our undergraduate summer fellows. The Biomedical Sciences Flex Option (Flex), Cell and Molecular Biology, Molecular and Developmental Biology, and the Physician Scientist Training Program sponsored a total of 50 undergraduate summer research fellows in the Summer 2002. The students represented undergraduate institutions from all over the US, and each spent 8-10 weeks participating in research projects in biomedical laboratories across the Medical Center. Because of the cooperative approach taken by the various programs, the activities of all summer research fellows in the College of Medicine were varied and numerous. The fellows got to meet each other at a summer orientation, and during the course of the summer, they attended weekly seminars, journal clubs and lunch meetings, and took several field trips.

Graduate Education Web Site (www.med.uc.edu/GradEd)

The Graduate Education Web page is becoming a dynamic experience for prospective graduate students. This year we subscribed to the ApplyYourself Prospecting System, which will enable us to use our Web site as a front end for a database to collect information about prospective students. We have updated our information request form, which may be used by prospective graduate students to request information about specific graduate programs. Pages on our Web site that received special attention this year include the Flex Option page, the Undergraduate Visitation Day page, and the Undergraduate Summer Research page. Our Web site is the major focus of our *i*-Recruitment strategy and will continue to receive updates and new material throughout the year.

Highlights from the Graduate Programs (as submitted from each Graduate Program; current enrollments in parentheses)

- **Biomedical Engineering (13)** - With the approval of the graduate degrees, UC Biomedical Engineering was able to move forward with admission of graduate students into the department. Thirteen (13) new students were pre-selected based on high GRE (avg. = 1990), TOEFL (avg. = 263), and grade point averages (avg. = 3.5 on 4.0 scale). In addition, students were selected into the three focus areas (tissue engineering and biomechanics [7], medical imaging [3], and bioinformatics [3]) only if primary and secondary faculty agreed to support these students after the first year of departmental graduate assistantship support. Twelve of the 13 students are pursuing PhD degrees and one is pursuing a MS degree. These students have diverse backgrounds (mechanical and electrical engineering, physics, genetics, computer science) and are proving to be of excellent quality. The students are already working with their major advisors on pilot projects as part of their Graduate Survey Course. These advisors are both primary and secondary faculty members who are also helping them to select courses and thesis/dissertation projects.
- **Biomedical Sciences Flex Option (3)** - The inaugural class for the Flex Option, which entered the College in 2000, have since moved into their third year, having selected Neuroscience, Biomedical Engineering, and Molecular Genetics, Biochemistry and Microbiology, for their dissertation research. The new graduate students brought into the College of Medicine via the Flex option in 2001 selected Cell Biology and Pharmacology, and the three brought in for Fall 2002 are now selecting the programs they will enter in 2003. One of our new students is a graduate of Xavier University in Louisiana and has been awarded a Functional Genomics Fellowship as well as an Albert C. Yates Fellowship. Our applicant pool has continued to grow in size and quality, which reflects the increased visibility of our program, as well as the increased popularity of multi disciplinary options in graduate programs.
- **Cell and Molecular Biology (29 PhD)** - Students in our program were highly honored for their achievements in 2002, with awards at a new all-time high: One entering student received a prestigious University Distinguished Graduate Fellowship, for a total of five UDGF awardees currently in the program. This year, another student was awarded a Ryan Fellowship, making a total of three current Ryan Fellows. Students hold other individual fellowships, including an Army Predoctoral fellowship, a Functional Genomics Fellowship, a Lions Foundation Eye Research Fellowship, the Cardell Fellowship and individual NRSA's. Our students were authors on over 25 peer-reviewed publications in 2002. Several students were also selected for travel awards to meetings and support by NIH-funded training grants in Cancer Biology and in Carcinogenesis and Mutagenesis. Cell Biology students placed 1st and 3rd at the annual College of Medicine Graduate Student Forum. The student who won 1st place went on to take 1st prize at the state-wide Cleveland Clinic Graduate Forum. One of last year's PhD graduates went on to obtain a Damon-Runyan Fellowship, the pre-eminent postdoctoral fellowship for cancer research.
- **Environmental Health (51 MS, 81 PhD)** - The largest graduate educational program in the College of Medicine, graduate training in Environmental Health (Environmental & Industrial Hygiene, Epidemiology, Biostatistics, Molecular Toxicology, Occupational Safety and Ergonomics, and Occupational Medicine) continues to have excellent

institutional, national, and international reputations for research and training. The students helped the Department earn more research and training grant income than any other department at the University. The Department added a new study area with the recruitment of an internationally known group in Human and Statistical Genomics led by Dr. Ranajit Chakraborty, Dr. Li Jin, and Dr. Bing Su, who have been asked to help with the identification of victims of the World Trade Center tragedy. They also study complex diseases and manage a high-throughput core facility which performs genetic analyses of polymorphisms. The students continue to win awards at various research conferences and at the University. During calendar year 2002, 19 students (6 PhD and 13 MS) completed their degrees.

- ***Molecular and Cellular Physiology (15 PhD)*** - Six students have been awarded appointments to our NIH Training Grant; in addition, one student was awarded an appointment to a Neuroscience NIH Training Grant and one student was awarded an appointment to a NIH Training Grant at Children's Hospital. One student was the recipient of a University Distinguished Graduate Fellowship, and two students received Summer Research Fellowships. The Department provides opportunities for transgenic research with focus on membrane biophysics, molecular endocrinology, neurophysiology, cardiovascular, pulmonary and renal physiology, cellular signal transduction, gene regulation, proteomics and functional genomics.
- ***Molecular and Developmental Biology (43 PhD)*** - In 2002, the MDB program continued its recruitment initiatives, especially on the Web with enhanced visibility on the Petersons.com and GradSchool.com sites. The program matriculated 12 new doctoral students, two of whom are PSTP students who entered the program after completing 2 years of medical school, one who received a UDFG, one who received a Yates Fellowship, and one student left the program for osteopathic medical school. In addition, two of our students, Chun Han and Ben Wilkins, were awarded one of this year's Ryan Fellowships. The program faculty grew from 54 to 59 with new faculty added from the Department of Pediatrics. Program faculty continue to hold three NIH training grants, with the Teratology Training Grant having been renewed this year for 5 more years. These are years 26-30 of this grant. In the last 12 months the program graduated 6 students (Smyth, Barrie, Liu, Raabe, Berclaz, and Heur) (all doctoral students, 4 of whom were PSTP students). Dr. Liu has entered a postdoctoral fellowship, while Dr. Berclaz, who already had an M.D. degree from France before entering the program, was offered a faculty position in the Dept. of Pediatrics in the Division of Neonatology. Expansion of research facilities continued in 2002. The net growth of five faculty noted above consisted of 7 new faculty less 2 faculty who departed for other universities. Searches continue for new research faculty in the Divisions of Developmental Biology (including for the Ohio Eminent Scholar endowed senior position in developmental neurobiology), Anesthesiology, Child Neurology, and Nephrology.
- ***Molecular, Cellular & Biochemical Pharmacology (16 PhD)*** - Several of our graduate students have been recipients of the prestigious Ryan Award, University Distinguished Graduate Fellowship (UDGF), Yates Fellowship and Zenith Fellowship. Our graduate students have recently been awarded highly competitive fellowships from the American Heart Association, reflecting the strength of our program mentors and students. In addition, our students continue to be awarded positions on interdepartmental NIH Training Grants. A number of our past students have been recognized in the Graduate

Student Research Forum poster competition; in 2002, one of our graduate students received a 2nd place award for this competition as well as an award at an international meeting. We continue to attract a high percentage of MD/PhD students to our program as well as a student from the College of Medicine FLEX program. As an additional tool for minority recruitment, two of our faculty have recently been awarded minority supplements on their NIH grants which provide opportunities in an academic research environment. We anticipate that this exposure will assist the department in recruitment of minorities into our graduate program. Two minority research assistants are now on board and we hope to channel them into our graduate program. The department has recently recruited additional faculty who provide expanded training opportunities for our students and will assist in further recruitment.

- ***Molecular Genetics, Biochemistry and Microbiology (46 PhD; 3 MS)*** - We continue to attract students with excellent academic credentials (average GRE of applicants to whom offers were made in 2001/2002 was 1890) and, typically, enrolling students have stated they appreciate the broad range of opportunities available in a manageable and “friendly-sized” program as compared to the very large, pan-disciplinary biomedical science programs offered at many of our competitor institutions. Students continue to excel at research – during the 2001/2002 academic year there were at least 22 publications with student first authors, in journals such as *Developmental Cell*, *Molecular and Cellular Biology*, *Journal of Biological Chemistry*, as well as numerous publications in which graduate students are listed as co-authors, e.g. *Nature*, *Science*, *Nature Immunology*. Students continue to garner prizes and awards, including fellowships from the Dept. of Defense, Ryan Foundation, Yates Fellowship, Ohio Board of Regents, URC, and travel awards from several societies such as ASM and AAAL. One student obtained a first place award in the College Graduate Student Research Forum, and numerous students made platform or poster presentations at venues such as Keystone Symposia, FASEB meetings, Cold Spring Harbor Symposia and ASM annual meetings. The Molecular Genetics graduate program was subject to external review during recent months; we are pleased to report that two external reviewers were explicit in their use of the descriptors “outstanding” and “superb” to characterize many aspects of our program and the faculty who contribute to it.
- ***Neuroscience (35 PhD)*** - One of our major accomplishments this year has been to receive formal accreditation from the State of Ohio Board of Regents as an independent degree-granting program. This honor along with our two NIH training grants anchors us in high ranks among neuroscience programs nationally. The training grant in Neuroendocrinology supports both advanced predoctoral and postdoctoral training in this sub-discipline of neuroscience. This and our broadly based predoctoral NIH training grant in neuroscience have helped us recruit the best students from a national pool and provide new research opportunities for their training. A total of seven new students joined the program last year, including two Functional Genomics Fellows, one University Distinguished Graduate Fellow, and two students who were awarded positions on our broadly based NIH training grant. In addition, a number of more advanced students competed successfully for individual fellowships and awards, including a Ryan Fellowship, a Wulsin MD/PhD Fellowship, a Scottish Rite Schizophrenia Foundation Fellowship, and individual NIH predoctoral fellowships. The program has recruited eleven new faculty members from departments that include Neurology, Psychiatry,

Neurosurgery, Radiology, Pharmacology and Cell Biophysics. Finally, the program director, Dr. Michael Lehman, was elected secretary of the Association of Neuroscience Departments and Programs, which represents all neuroscience training programs in North America.

- ***Pathobiology and Molecular Medicine (16 PhD)*** - Our program has continued its upward swing of strong growth and outstanding student accomplishments. One of our fifth year students was awarded a Dean's Distinguished Dissertation Award; only one award is given out to a graduate student within the medical center each year. One of our newly graduated students was co-author on a paper with his UC mentor that was named the "Best Article in Medical Mycology in 2001." Another fifth year student received a travel award for the annual Arteriosclerosis, Thrombosis, and Vascular Biology national meeting. A third year student received an honorable mention at the annual University of Cincinnati poster session. Finally, one of our students was awarded a fellowship for the Functional Genomics program. Three excellent, motivated students joined our program this past year; one was awarded a Yates Fellowship. Three students successfully defended their dissertations this year and all have secured outstanding post-doctoral positions at Mayo Clinic in Rochester, at Harvard, and at the University of Cincinnati. Most of our students presented their research at regional and national scientific meetings. This summer we sponsored several undergraduates and one MD/PhD student for rotations in our labs. Four new courses were added to our program this year, including "Molecular Mechanisms of Gastrointestinal Disease," "Molecular Basis of Disease: Endocrine Disorders," "Molecular Basis of Disease: Hematology/Oncology Disorders," "Molecular Pathogenic Mycology" and "Pathobiology of Lipid Related Diseases." After a successful first year, we continued to offer a summer internship for students after their first year with Proctor and Gamble. Also, we have begun a formal arrangement with Antioch University, which will allow our students the opportunity for teaching experience.
- ***Physician Scientist Training Program (11 MD/PhD)*** - This year was a banner year for the PSTP, which received a NIH training grant and recognition as a medical scientist training program. Applications increased and we matriculated six students from Case Western Reserve, College of Wooster, Brigham Young, Massachusetts Institute of Technology, Michigan and Xavier, the latter being a student who completed a Fulbright Fellowship in Berlin. This year, we graduated six individuals with combined MD/PhD degrees who accepted residencies at Duke, University of Washington, Arizona, Good Samaritan Hospital, Children's Hospital Medical Center and University of Cincinnati programs. Five students gained their PhD's and rejoined the clinical biennium while 5 students in the clinical biennium were elected to AOA in 2002.
- ***Radiological Sciences/Medical Physics (4 MS)*** - The graduate program granted two MS degrees in 2002. One graduate gained a position at the University of Texas, Medical Branch in Galveston, and the other is employed at a cancer center in Iowa. The student in Iowa has enrolled part time in a PhD program. One student continued in our program and three students matriculated into the program. Two of the newly matriculated students were previously granted MS degrees in other fields. With regard to program graduates, two have completed Parts I and II of the American Board of Radiology Examination in Therapeutic Radiological Physics, and two completed Part III of the examination.

College of Nursing

Dean Andrea R. Lindell

Office of the Dean

- Renegotiated contractual relationships and budget for the international graduate program with Yonsei University, Seoul, Korea.
- Worked to increase communication between faculty and administration. Established the “Town Hall Meeting” held bimonthly with faculty. Purpose: opportunity to dialogue on issues and concerns relevant to the present and future activities within the College. Result: the review and implementation of new and revised initiatives.
- Approved and facilitated new procedures and award process of UGS/GA monies by Advisory Task Force.
- Increased effort and activity in fund raising. More time and effort spent in cultivation and development of relationships with alumni and/or potential benefactors.
- “10th Annual Florence Nightingale Awards Dinner.” The event attracted over 800 community representatives in attendance.
- Reorganized administrative structure was presented at Faculty Organization meeting for faculty feedback. New structure to be implemented for AY 2002-03.
- Media: Frequently interviewed by media (newspaper, radio, TV) in relation to nursing shortage. Promotional relationship with WCPO-TV.
- Served as representative of the College and promoted its leadership in education, research and service to all constituents at local, state and national levels. The College is listed by *U.S. News & World Report* as #52 out of 781 Baccalaureate and Higher Degree Programs, a ranking in the upper 7%.

Boards and Committees

- Continued as Chairperson of the *Alumni Masters Forum* Committee. Planned and coordinated the four visits of UC masters alumni during winter and spring quarters 2002.
- Continued as a member of the corporate *Omnicare, Inc. Board* and the Incentive, Compensation and Audit Committees.
- Council on Accreditation of Nurse Anesthesia Educational Programs (COA), Chicago, IL. Elected Secretary/Treasurer. Continued as a member of the *Board of Accreditation* in University representative position. (Term to 2005)
- Federal Planning Committee, Environmental Protection Agency. Continued as Co-Project Director to establish a document for undergraduate and graduate education in nursing and medicine, “*Content Resources and Competencies Essential in curriculum for Educational Programs*,” N.E.E.T.E., Washington, D.C.
- *Health Volunteers Overseas*. Nursing Overseas Steering Committee. Continued membership as AACN Representative, Washington D.C.
- Commission on Collegiate Nursing Education (C.C.N.E.), *Accreditation Program Evaluator*.
- *Summit on Nursing Shortage*: member, Nursing Workforce Initiative, sponsored by the Greater Cincinnati Health Council.

International

- *People to People Ambassador Program*. Selected as Delegation Leader for the Nursing Education Delegation to the People's Republic of China, December 3-9, 2002. Objective is to assess the general nursing and medical health care systems by interacting with professionals about the overall nursing health care delivery system, becoming familiar with the overall nursing curriculum in educational programs, assessing practice of community and public health nursing in rural areas and establish contacts that might be beneficial to the College.
- Hosted delegation from Shandong, China's Hospital and University of Shandong, January 18, 2002. Discussed option of faculty and student exchange.
- Hosted delegation from the Ukraine, February 21, 2002.
- Signed *Memo of Understanding* between the College and the Universidad Autonoma de Nuevo Leon.
- Appointed by the American Association of Colleges of Nursing as their representative at a conference in Brazil, August 27 – September 1, 2002.

Appointments

- After a seven-year term, completed appointment as Interim Dean of the College of Allied Health Sciences, May 31, 2002.
- Promoted from Associate Senior Vice President for Interdisciplinary Education to Associate Senior Vice President and Vice Provost for Interdisciplinary Education, June 2002.
- Nominated to serve as the representative from the Council of Deans on the East Campus Provost Search Committee, June 19, 2002.
- Panel judge for annual Health Care Heroes Awards, presented by *The Business Courier*, January 18, 2002.
- Requested by the Army ROTC to attend the *National Advance Leadership Camp* in Fort Lewis, Washington, July 12-15, 2002.

Office of the Associate Dean & Director, PhD Program

- Steps taken to the implement the CON Evaluation Plan included: (1) meeting with BSN faculty, revealing that a target workshop would be more productive than taking the Web-based courses on item construction and (2) devising a system to remind administrators and faculty of their evaluative responsibilities in terms of the plan.
- The responsibility to implement financial aid policies was moved to a committee; the Associate Dean's major role was as consultant regarding the GAs and UGSs.
- Involved in the submission of a USAIDS proposal and a research proposal through the Shriner's system.
- Two students won grant scholarships to cover the cost for presentations at an international conference in Jordan. Spent 10 days with the students in Jordan, visiting three universities and attending the *Seventh International Middle East Nursing Conference*. Cooperative agreements will be forthcoming with all the universities.
- Continued to work with our sister school in Mexico. A USAIDS proposal was submitted and approved for a more in-depth proposal dealing with the development of their doctoral program and working more closely with us.

- Became responsible for the student retention effort. After conducting the search and screen committee for a new position, oriented and supported the new Student Development Specialist.
- Seven doctoral students were admitted for 2001-02; three were male, three were international students and one won a Yates Fellowship. Six progressed to the second year of the program. To date, seven students were admitted for 2002-03; one is male and three are international, they included our first admission from Zimbabwe and second from China. In addition, we have a first post-baccalaureate admission of an anesthesia student. Two new faculty are teaching doctoral courses.

Office of Associate Dean & Continuing Education

- Continuation of collection of data and evaluation of effectiveness of First Year Experience (FYE) course Success in College and Nursing supported by University Collaboration for Success grant.
- Continued efforts toward co-operative education option for baccalaureate program.
- Provision of College of Nursing input in Medical Center Distributive Learning Collaboratory to garner second OBR grant resulting in “Students on the Move Project”. Participation in grant implementation as co-investigator.
- Provision of College of Nursing input into development of IAIMS grant as member of Steering Committee for grant. Grant currently under review by National Library of Medicine.
- Preparation of college reports for external agencies and organizations.
- Management of College’s exit examination process for BSN students.
- Maintenance of up-to-date information about the college in various publications and recruitment materials and design of general recruitment advertising.
- Management of clinical placements including contracting and letters of agreement, student rotations, faculty requests and evaluation.
- Dissemination of College course and registration information to appropriate offices in the University, clinical agencies, students and faculty and problem solving related to student registration issues.
- Management of the College's Advanced Practice Pilot Project.
- Provision of service to alumni for verification of preparation for practice to employers and boards of nursing nationally and internationally.
- Facilitation of resolution of issues arising in the Student Affairs area.
- Oversight of the College’s Continuing Education activities and maintenance of OBN Approver Unit. Became a Trainer on OBN Laws and Rules to legitimately provide programs to meet the new OBN requirement that all nurse in the state complete one hour of CE in the area during each licensure renewal period.

Achievement of Goals for 2001-02

- *Hire professional practice faculty member and complete plans for first cohort of students in the co-op education option.*
Consultant was hired to begin detailed planning of program. The proposed program was reviewed with the staff of the UC Office of Professional Practice and given their support.

A Co-op “design team” was established at University Hospital with Department of Nursing representatives to determine job title for co-ops, orientation, job descriptions, and preceptor model. Information collected from other programs and literature was review. Faculty position offered but not filled. New search will need to be done to fill faculty position. Funding continues from University Hospital for the position. All efforts to move forward with the program are carefully documented and provide a foundation for implementation of the program.

- *To review college policies for faculty and students and streamline procedures where possible.*

Regular meetings of Associate Deans and Department Heads were tested to enhance communication among individuals in these positions. The group found the effort useful and plans to continue next year. More efficient development of class schedules and identification of faculty for courses occurred. Admissions and Progression Committee and Curriculum Committees by the end of the year were efficiently presenting policies and curriculum issues in a manner that facilitated rapid movement of proposals through Faculty Organization.

- *Fully implement database for all programs.*
New secretary in Student Affairs now maintaining databases for BSN and MSN programs on computer. Next step was to incorporate the RN/BSN program, but due to instability of staff in advisor position and retirement of secretary, it was not completed.
- *Fully implement new student critical requirement database.*
Database was developed but not fully used, as revisions in the entire critical requirement process were needed for efficiency. The revisions are being implemented through the fall of 2002 following which the database will be in full use.
- *Enhance student recruitment by establishing prospective student contact follow-up system and implementing recommendations of Recruitment Committee as funding permits.*
- *Modify and enhance online resources for students and faculty through the college’s Web site and the faculty share drive.*

Goals for 2002-03

- Continue development of co-op program with approval of curriculum and implementation of the program no later than the 2003-04 academic year.
- Continue efforts to reduce time spent by faculty and staff in activities that do not contribute to the achievement of goals in the College’s strategic plan.
- Delineate the role of the newly assigned role for my position, Associate Dean for Baccalaureate and Administrative affairs.
- Promote more efficient and effective operation and revision of the BSN and RN/BSN programs that keeps the programs current with the rapidly changing health care arena.
- Maintain College’s collaborative position in the Medical Center related to information technology.

Office of Student Affairs

- BSN Advisor served 400 College of Nursing students, worked with 200-250 other UC students to assist them in determining career goals and academic choices, evaluated all BSN files, completed students' advanced planning with the Registrar.
- Collaborated with the Office of Admissions for prospective students via fall and spring *Collegiate Visitation Weekends*, *College of Nursing tours*, *UC Phonathon*, *Cincinnati National Collegiate Fair* and presentation with the Office of Admissions staff on recruitment strategies.
- Collaborated with the College of Allied Health Sciences via Health Fair Expo and Health Career Exploration with Hughes High School.
- Retention coordinated by LADDERS volunteers.
- Recruitment activities included *RWC and Clermont Transfer Day*, *University College Career Seminar Class*, *a Day with Prospective Cincinnati 2002-2003 Scholars* and the *3rd Annual Open House and Career Fair*.
- The Graduate Office processed over 266 applications, coordinated the certification for graduation of 109 students, audited all files and created a database for all active students, participated in the *Cincinnati Scholarship Program* and participated in professional development activities as diversity training, software training, and UC Graduate Office training sessions.
- Coordinated a four-day NCLEX review for seniors with Med's Publishing Company, the College of Nursing and other nursing schools in the community.
- Provided on-site CPR training for 28 sophomores and 6 international graduate students entering the clinical component.

Office of Business Affairs

- Assumed position as Chair of the College Scholarship Committee.
- Assumed responsibility for UGS award process.
- Continued to oversee and process paperwork for the on-site collaborative presentation of the College's master's degree program in Neonatal Nurse Practitioner and Pediatric Nurse Practitioner at Yonsei University, Seoul, Korea.
- Director chaired three search committees.

Center for International Affairs

- Tina Weitkamp was appointed Director of International Affairs (.25 FTE). The Center will continue to collaborate with George Mason University and explore new opportunities for the College to establish partnerships with global health professionals.
- Barbara Gilman and Marcia Hern took nine undergraduate seniors and graduate PNP nursing students on a brigade to Honduras with the *Shoulder to Shoulder Clinic*. Tina Weitkamp took three community health nursing students on the second brigade in April 2002.
- Tina Weitkamp met with nursing faculty regarding the renegotiation of our letter of agreement and gave a presentation on Adolescent Pregnancy at the Universidad Nacional Autonoma de Honduras Ciudad Universitaria in Tegucigalpa, Honduras.

- Hae Soo Chung continues to serve as the director of the Joint International program with Yonsei University; the second cohort of six graduate students arrived in March 2002 from Seoul, Korea.
- Carol Deets met with two universities in Jordan that are interested in collaborative programs.
- Hospital Escuela Professional Exchange (in conjunction with CHMC, UH and Shriners).
- Partnered with *Prolinks* a CHMC organization regarding educational opportunities for Scottish nursing students; the students attended two undergraduate classes and toured the College of Nursing.
- Participated in *Pan American Nursing and Midwifery Collaborating Centers* meetings in September and February.
- Participated in the *Global Network* (WHO Nursing and Midwifery Collaborating Centers) meeting in February.
- Tina Weitkamp hosted a group of Ukrainian health care visitors with an interest in substance abuse and assisted Hae Soo Chung and Marcia Hern with a constituency from Shandong Province.
- Faculty made various presentations during 2001-2002 in countries as Australia, Canada, Brazil, France and Honduras.
- Marcia Hern and Barbara Gilman participated in a grant funded by the Institute of Global Studies and Affairs. Tina Weitkamp also participated in a grant funded by the Institute.
- Marcia Hern, Barbara Gilman and Tina Weitkamp were funded as part of the College of Medicine's *Educational Abroad Support Program Grant: International Health Elective* through the Institute of Global Studies and Affairs \$1500 for nursing faculty and \$7000 for 14 nursing students.

Institute for Nursing Research

- There were 20 peer-reviewed articles published during the period July 1, 2001-June 30, 2002. Topics included injury/violence and symptom management.
- Eight peer-reviewed abstracts were published in refereed journals; topics were injury/violence, substance abuse/addiction and symptom management.
- Nine on-going extramural program grants, research grants and contracts previously submitted by faculty and graduate students generated \$812,037 in funds through the Office of Sponsored Programs during July 1, 2001 to June 30, 2002.
- Faculty and graduate students submitted 14 extramural program grants, research grants and contracts and 9 intramural research and program grants during July 1, 2001 to June 30, 2002.
- Faculty had 4 books and 10 book chapters published.
- There were 81 regional, national and international presentations by faculty and graduate students.
- The Institute achieved its goal to support preliminary work of junior investigators by supporting travel to meet with research mentors, making GAs available for literature searches at the Help Desk, offering information sessions with the Business Office staff to explain grants submission processes, distributing the Institute Bulletin electronically on a weekly basis, which provided updates on IRB changes, grant opportunities, calls for

abstracts and conference opportunities and continuing the Scholarship Roundtable as a monthly forum.

- Achieved the goal of enhancing the programmatic and educational offerings of the Institute. With the addition of its first research faculty affiliated with INR and the growing knowledge of its associate director, the Institute staff is now a team, which developed an action plan including modeling, or work sessions with designated research “think tank” time to work on faculty scholarship.
- Achieved the goal of initiating outcome measurement by establishing and monitoring research benchmark criteria.
- Fifty percent of grants submitted were funded AY 01-02 year to date. This is an increase of 18% over the previous year.

Center for Academic Technologies and Educational Resources

- **Security:** With the addition of Karl Hart as Coordinator of Systems Development and Maintenance, we have become a leader at UC in network security. Desktop and network security was improved, with fewer episodes of damage to desktops due to viruses. A CD-ROM was created for use by faculty and staff, containing software for virus protection, which is configured to automatically search for recent updates to virus protection on a regular basis and necessary software to access UC servers from home using the Virtual Private Network protocol that is necessary to negotiate through the UC firewall. A confidential security incident form was created and used in CATER to investigate any security breach in the college.
- **Technology Upgrades:** All desktop computers in the college are at least a Pentium III processor with 128 MB with a standard set of software applications. An on-line inventory system for all networked devices was purchased, which replaces the manual system that was previously used.
- **Skills Lab:** CATER staff was involved in the interdisciplinary initiative to develop and implement an on-line training course for all health professionals on Bloodborne Pathogens, and an on-line course for students, faculty and staff was implemented last fall to fulfill OSHA requirements. In addition CATER provided for equipment for over 180 skill labs and increased the use of the IV CathSim.
- **Distributive Learning:** Implemented the Institute for Distributive Learning. Three faculty and two staff members were the first participants; they raised several issues that will be addressed next academic year. Captured audio recording synchronized with PowerPoint slides for over 160 classes; resolved over 75 calls for tech support for on-line courses; designed and developed templates for printable handouts that are associated with course material and submitted a grant to *Ohio Learning Network* to support conversion of courses to Web-based format.
- **User Support:** Supported over 40 different software application programs in addition to the standard desktop applications; built and implemented a new MS Access Database used for tracking of Help Desk calls and projects; created over 60 and managed over 900 student accounts; supported HESI exams in computer lab; provided AV equipment for 319 requests this year.

Adult Health Nursing

- Seven research grants were submitted; five were funded, one pending, one not funded. Four program grants were submitted, two funded and two pending. Eight faculty members have a clearly defined research focus. Total grant funding for the year was \$540,554 and \$619,453 pending.
- A scholarship roundtable was presented to the college, based on the *Lilly Excellence in Education* conference and response was very favorable. Data were gathered related to Adult Health undergraduate and graduate content. Recommendations were made to increase content based on available credit hours and graduate curriculum revisions were suggested to avoid overlap

Community Health, Administrative & Psychiatric Nursing

- Faculty submitted seven grants (program and research); three are funded and four are pending.
- Three intramural grants were submitted and all were funded.
- Faculty increased Blackboard participation for almost all undergraduate courses. Dr. Ruiz-Bueno placed all the courses for the FNP major on line through *Blackboard* so it can be offered on-line in 2002-03.
- Ms. Robin Lee actively participated in the development of *East End Heritage School: A Team Approach that Builds Partnerships for the Future* and involved approximately 30 students in the effort.
- Faculty held health fairs at the VA Hospital, at a high school and a worksite. Students participated in hearing and vision screening at over 12 schools and provided over 500 flu shots at community clinics.
- Faculty established competencies for the undergraduate psychiatric nursing practicum at the VA Hospital as a pilot. Once competencies are developed, measurable criteria for evaluation will be completed.
- Recruitment efforts included meeting with and encouraging the accelerated, RN and senior students to enroll in the master's program; participation in the College Recruitment Fair, speaking at several hospitals and professional organizations about our graduate majors and participating in recruitment efforts at MNRS and NONOPF.
- Dr. Connie Wilson, director of the *Health Resource Center* (HRC), is submitting a grant to establish a respite care center for homeless people who have been discharged from the hospital but need intermediate care. The Health Foundation of Greater Cincinnati funded the planning grant and the full grant will be submitted to the R. W. Johnson Foundation. She also received a grant from the Health Foundation to enhance client services at the HRC. She opened a satellite nurse-managed center in Covington and expanded the HRC to serve the homeless in Northern Kentucky at the Pike Street Center.
- Ms. Ursula Meyer's students planned and implemented a dental sealant program at Batavia Elementary School; over 130 2nd graders participated in the program.
- Faculty published a total of 13 articles, book chapters and book reviews and made 14 regional/national/international and 15 local presentations.

Parent-Child Health Nursing Department

- Faculty have one continuing extramural grant and submitted proposals for six new extramural grants; there are two continuing intramural grants and four new intramural grants funded.
- Hae Soo Chung continues to serve as the director of the Joint International Program with Yonsei University, whose second cohort of six graduate students arrive in March 2002 from Seoul, Korea.
- Barbara Gilman and Marcia Hern took nine undergraduate senior and graduate PNP nursing students on a brigade to Honduras with *Shoulder to Shoulder Clinic*, and Tina Weitkamp took three community health nursing students on the second brigade in April 2002.
- Students' certification pass rates were: nurse midwifery and women's health, 100%, neonatal, 80% and pediatric nurse practitioners, 94%.

Nurse Anesthesia Major

- Added two new faculty CRNAs.
- The director is active on 7 state and national committees, two faculty are members of one committee.
- Director has on-going research on the *Assessment of the Effects of Arterial Blood Pressure and Hemoglobin/Hematocrit Levels on Visual Evoked Potentials during Posterior Spinal Surgery*.

RN/BSN Educational Mobility

- Placed the RN courses, *Transition to Professional Nursing and Leading and Management*, on-line. The courses are on *Blackboard* and the live presentations were recorded with coordinating Power Point presentations. The *Transition to Professional Nursing* course will be piloted with the RNs in summer 2002 at Raymond Walters.
- 32 full-time and 25 part-time matriculated RNs as of May 30, 2002.

Accelerated Program

- To determine outcomes expected of accelerated pathway students as distinguished from those of traditional baccalaureate and master's students, Loren Carter, the Graduate Program Advisor, developed a database that indicates when students originate their study in the program and subsequently attaches an identifier for the master's program they enter. Students who for academic reasons complete the prelicensure phase in the traditional program will also be noted.
- To determine student satisfaction with the program, the Director interviewed students completing the prelicensure phase of the program. Data revealed the students like to know their schedules ahead of time, prefer not to be mixed with traditional students for Health Patterns B and would like communication about HESI and experience required for master's programs.
- Meetings with faculty teaching in the program were held in the fall and spring, providing opportunities for faculty to present concerns.

Development and Alumni Affairs

- \$476,000 has been raised and another \$25,000 proposal pending for the *Center for Living with Dignity*. The Development Committee has determined to phase the project with emphasis on initially raising \$2 million for the Center Director.
- The College received \$158,000 from the \$10,000-\$99,000 gift category. This category will continue to be developed as the College makes additional applications to private and family foundations, which heavily fund in this range.
- Giving in the \$1-\$9,999 category totaled \$122,048 through April 2002.
- The *Alumni Reunion Weekend* was celebrated June 14-15, with over 80 alumni participating. The formal Friday night banquet was eliminated and replaced with an informal cocktail party, which attracted 77 reservations. Celebrating classes have contributed over \$5,000 to various College projects.
- As of March 2002, the College had 378 paid alumni members, accounting for approximately 13% of the College's alumni base, versus about 10% for the University. In an effort to promote an increase in alumni, the College alumni coordinator produced a full-color membership brochure in conjunction with UCAA; the results have not yet been evaluated.
- The College hosted the second annual *Scholarship/Benefactor Dinner* at the Kingsgate in November 2001. Over 140 scholarship winners, donors, board members and guests attended.
- Staff support to the College of Nursing's *Florence Nightingale Awards Ceremony*, which is sponsored by the College Board of Advisors. This event has become the premier recognition for the nursing profession in the greater Cincinnati area.

College of Nursing Board of Advisors

- *The Board of Advisors Scholarship Fund*. Eight \$1500 scholarships were awarded. The Board voted to forward \$8,300 of the 2001 Florence Nightingale Ceremony balance to the Scholarship Fund and to give the Dean discretion as to both the amount of the scholarship dollars and the number of scholarships awarded each year.
- The Board hosted the Tenth Annual Florence Nightingale Ceremony on April 16, 2002 at the Hyatt Hotel. Approximately 800 people attended the event. Dana Eubanks, television newscaster, was mistress of ceremonies. Six \$1,000 awards were presented and eleven \$400 finalists were honored.

College of Pharmacy

Dean Daniel Acosta, Jr.

Office of the Dean

- Faculty received \$1.5 million in grants this past academic year.
- The third PharmD class was admitted this past fall.
- The second Non-traditional PharmD class was admitted this past summer, with seven new students.
- With a faculty size of 15 in the Division of Pharmaceutical Sciences, there were six Ph.D. and eight M.S. students graduated.
- Nine new graduate students were admitted into the pharmaceutical sciences; four seeking a Doctor of Philosophy degree and five seeking a Master of Science degree.
- New resources were obtained enabling the college to recruit three research-oriented faculty, two in the area of pharmaceutical sciences and one in pharmacy practice.

Alumni Recognition

- Stephen Sadowski received the 2002 Roche Preceptor of the Year award for his outstanding contributions as a preceptor to pharmacy students.
- John A. Dinkelaker BSPH '71 received the 2002 Arthur C. Glasser Distinguished Alumni award for his long-time support of the college and its alumni activities.
- Rebecca A. Finley, BS '77, PharmD '69, received the 2002 Robert J. DeSalvo Distinguished Alumni award for her outstanding career in pharmacy.

Bachelor of Science and Doctor of Pharmacy Degree Programs

- The size of the entering Doctor of Pharmacy class was increased by 10%.
- The 2002-2003 Doctor of Pharmacy entering class of 66 students was selected from a total of 320 applicants, had an average GPA of 3.53, and 79% of the entering students were female.
- The College graduated 40 Bachelor of Science and 30 Doctor of Pharmacy students in June 2002.
- Thirty-one track students are completing the Doctor of Pharmacy graduate program. These are the last students that will graduate from this program.
- More than 60 students participated in "An Affair on the Square" held on Fountain Square during National Pharmacy Week which provided patient information and medication advising.
- Twenty-two students attended the national American Pharmaceutical Association meeting in Philadelphia, and 51 students attended the Ohio Pharmacists Association meeting in Columbus. Melanie Dickinson represented UC in the national Patient Counseling competition.
- Sixteen students attended the Mid-year Regional Meeting of ASP in Madison, Wisconsin.

- The UC chapter of the Academy of Students of Pharmacy received a national American Pharmaceutical Association Recognition Award.
- Mr. Amit Patel received one of only four national APhA Student Leadership Awards.
- The Academy of Students of Pharmacy collaborated with the Cincinnati Health Department, American Diabetes Association, and the African American Churches on “Operation Diabetes” where more than 300 individuals were screened for diabetes and another 700 community members were provided information and diagnostic meters.
- Thirty-three students attended the national mid-year meeting of the American Health Systems Pharmacists Association in Atlanta where Holli Winters and Dan Flora represented UC in the 2002 Clinical Skills Competition.
- Amjad Iqbal was recognized as the Ohio State Intern of the Year by the Ohio Health Systems Pharmacists Association.
- Performance of graduates on the North American Pharmacy Licensure Examination continued to be the best in the state with a 100% pass rate for first-time graduates. These graduates had the highest average scores in the State. Jennifer Wehking performed at the 99 percentile level.
- Mr. Aaron Dershak received a Spirit of Community Award from the University for exemplifying a high standard of contribution to student life within the College, campus and civic communities.
- In March, a minority task force consisting of alumni and corporate representatives was established to address the need to recruit and maintain an increasingly larger number of minority students to the college.
- A Gateway Drug Education community service program and a Thanksgiving Canned Food Drive were conducted this past fall.
- A two-day new student orientation was conducted which culminated in a “White Coat” ceremony that included participants from the State Board of Pharmacy and the College Alumni Council.

Clinical and External Affairs

- Continuing Education: The College of Pharmacy continued to serve as a sponsor of continuing education programs for pharmacists on a local and national level. The College of Pharmacy has partnered with the College of Medicine to accredit several articles for nation-wide dissemination to physicians and pharmacists. Michael Doherty, Pharm.D., and Patricia Rozek, Pharm.D., have developed an accredited Immunization for Pharmacist Program. All current professional students will complete this program prior to graduation. The program is also being offered as a live and on-line CE program for pharmacists.
- Distributive Learning: The College of Pharmacy is a member of the distributive learning collaboratory, producer of the on-line blood borne pathogens and eCourses educational programs. New programs on Human Research and HIPAA are being developed by the Collaboratory. The Collaboratory also received a second grant from the OBR for approximately \$300,000 to develop an on-line patient encounter and survey application and to expand wireless connectivity within the medical center. William Fant, Pharm.D., was a Co-PI on the project.

- Clinical Training: Andrea Wall, BSPH, has taken a leadership role in expanding the number and diversity of experiential offerings for the professional program. A new site affiliation agreement has been developed and is currently used to develop relationships with practice partners in the community. Ms. Wall organized and offered a training program for preceptors that was well attended in the Autumn Quarter.
- Information Technology and Teaching Technologies: The College of Pharmacy has completed its migration from WebCT to Blackboard. All current professional coursework is available on the UCIT Blackboard server. Additional training programs have been developed and offered for college staff by AIT&L.
- William Fant, Pharm.D., is a co-PI on the recently reviewed IAIMS grant to the National Library of Medicine. Shauna Buring, Pharm.D., and Gary Gudelsky, Ph.D., will be participants in the grant if funding is obtained.

Division of Pharmaceutical Sciences

- The Division of Pharmaceutical Sciences encompasses medicinal chemistry, pharmaceuticals, pharmacology, and social and administrative sciences.
- The graduate program currently has 53 full-time students and 12 part-time students, which includes four M.S. and two Ph.D. students through the Procter & Gamble Distance Learning Program.
- Two of our graduate students placed first and second in the poster competition at the national meeting of the Society of Cosmetic Chemists.
- The faculty authored 20 research abstracts presented at professional meetings.
- A total of 11 manuscripts were published.
- The Society of Cosmetic Chemists has continued to provide a student fellowship in the amount of \$20,000/year for the study of mechanisms of melanosome transfer.
- Faculty from the division are involved in the following external activities:
 - o University of Cincinnati Level: Graduate Council; Executive Committee for the U.C. Cancer Program; Radiation Safety Committee; Mentor, WISE Program; Cancer Millennium Task Force; Research Officers Committee; URC Life Sciences Review Committee; Clinical Trials Institute Committee; Just Community; Alcohol and Drug Abuse Commission; University Research Council; General Education Committee; Medical Findings Editorial Advisory Board; Women's Health Group; Graduate Fellows; Gifu Pharmaceutical University Exchange Program
 - o International, National or Regional Level: abstract reviewers for national meetings; session chairs for national/international meetings; evaluator for graduate poster competition; member, Advisory Board of Quintiles India Ltd.; evaluation judge of presentations in the International Society of Pharmacoeconomics and Outcomes Research; head trustee of Cincinnati Section of American Chemical Society; Advisory Board Member, Bureau of Pharmaceutical Affairs, Ministry of Health, Taiwan; overseas advisory to Chairman, Pharmaceutical Association of Republic of China; American Association of Colleges of Pharmacy; American Association of Pharmaceutical Scientists; International Society for Bioengineering and the Skin; Society of Cosmetic Chemists.

- o Editorial positions as journal referee and/or editorial boards for Experimental Biology and Medicine; Molecular Pharmacology, Oncogene, Proceedings of the National Academy of Sciences, USA; Toxicology In Vitro, Trends in Endocrinology and Metabolism, Value in Health (official journal of International Society of Pharmacoeconomics and Outcomes Research), American Journal of Managed Care, American Journal of Health-Systems Pharmacy, Clinical Therapeutics (pharmacoeconomics), Journal of Cosmetic Science, Pharmaceutical Research, Journal of Pharmaceutical Sciences, Toxicological Sciences, Hospital Pharmacy, European Journal of Pharmaceutical Sciences, Journal of Pharmacology and Experimental Therapeutics, American Journal of Pharmaceutical Education.

Division of Pharmacy Practice

- The College continued the process to phase out the post-BS PharmD program, which has been in place since 1968, and phase in the new professional degree program for pharmacists.
- The faculty published nine peer-reviewed articles.
- The faculty authored 37 research abstracts presented at professional meetings.
- The faculty made 24 presentations at professional meetings.

Post-Baccalaureate, Graduate Doctor of Pharmacy Program

- Graduated 31 students, 17 of whom were part of the track program. Six entered post-graduate fellowship or residency training programs. Others entered professional practice in institutional, ambulatory or pharmaceutical company settings.

Entry-level Doctor of Pharmacy Program

- Admitted 66 students.

Faculty Honors

- Daniel Acosta, Jr., Ph.D., has been appointed to serve on the Scientific Advisory Committee on Alternative Toxicological Methods for the National Institute of Environmental Health Sciences.
- Daniel Acosta, Jr., Ph.D., has been appointed by Tommy Thompson, Secretary of Health and Human Services, to serve on the Advisory Committee of the National Center for Environmental Health of the Center for Disease Control.
- Michael B. Bottorff, Pharm.D., served as Chair of the National Pharmacy Cholesterol Council.
- Robert Cluxton, Pharm.D., continued as principal investigator of the MEDTAPP Grant which was funded for \$375,000 to continue through June 2003.
- Pankaj B. Desai, Ph.D., received the Rho Chi Faculty Excellence Award.

- Jeff Guo, Ph.D., was an invited judge for presentations at the International Society of Pharmacoeconomics and Outcomes Research annual meeting.
- Daniel P. Healy, Pharm.D., was awarded fellowship status in the Infectious Disease Society of America and in the American Society of Microbiology.
- James J. Knittel, Ph.D., serves as Chair of the AACP Chemistry Review Committee for the New Investigator Program for Pharmacy Faculty.
- Jill E. Martin, Pharm.D., continued national office as a member of the American Society of Hospital Pharmacists Board of Directors.
- Giovanni M. Pauletti, Ph.D., serves on the editorial board of the national journal *Herbal Pharmacotherapy*.
- Jane M. Pruemer, Pharm.D., and Wayne F. Conrad, Pharm.D., continued to serve on the American Society of Hospital Pharmacists Commission on Credentialing.
- Adel Sakr, Ph.D., served as symposium chairman at the Biannual Conference of the Egyptian National Organization of Drug Control and Research in Cairo, Egypt.
- Kenneth A. Skau, Ph.D., serves on the editorial board of the American Journal of Pharmaceutical Education.
- Andrea Wall, BSPH, served as a member of the Board of Directors for the Ohio Pharmacists Association Foundation.
- R. Randall Wickett, Ph.D., played an instrumental role in the Procter & Gamble gift of 32 patents to Children's Hospital.

Academic Information Technology & Libraries (AIT&L)

AIT&L consists of the Health Sciences Library, the Nursing Library, the Cincinnati Medical Heritage Center, and information technology units that support academic and administrative computing at the University of Cincinnati Medical Center. AIT&L creates access to knowledge and develops integrated knowledge management systems that enhance learning, research, and patient-care activities of the students, staff, and faculty of the University of Cincinnati Medical Center. AIT&L is committed to:

- Outstanding customer service
- Information and technology leadership
- Community service.

AIT&L Rankings among Medical School Libraries¹

<u>Category</u>	<u>U.S.</u>	<u>Ohio</u>
Computers	1	1
Education/Classes		
Attendance	3	1
Contact Hours	6	1
Sessions	3	1
Electronic Books	9	2
Endowment Value	11	2
Gate Count (customers)	12	1
Grants and Contracts	4	1
Journals		
Electronic	5	1
Total Journal Count	12	1

¹Annual Statistics of Medical School Libraries in the United States and Canada, 2000 - 2001, 24th Edition, published 2002. 118 institutions reporting.

Developing Products and Services that Meet Needs

AIT&L balances its role as a steward of information resources, digital and paper, with its mission to develop *knowledge management* tools that enable people to transform the overwhelming amount of available information into knowledge that they can apply to scientific discovery, health professional education, patient care, and efficient business operations.

AIT&L uses a partnership model that involves all stakeholders to develop its products and services. Our customers first and foremost are the faculty, students, and staff of the Medical Center. AIT&L staff team with a customer to define a vision that fully meets the customer's needs, to identify the most cost effective strategies for achieving the vision, and to create specifications for the product or service. Feedback from the customer and other stakeholders is integral to all steps of the process, but is particularly crucial during the design and development of a new product or service.

Vision and Strategy

Catalyzed by an intensive planning process for the National Library of Medicine's (NLM) Integrated Advanced Information Management Systems (IAIMS) program, key leaders from AIT&L, the Colleges of Medicine, Nursing, Pharmacy, and Allied Health Sciences, the University, the Health Alliance, and Cincinnati Children's Hospital Medical Center envisioned a new future built on the achievements of the last ten years. At the heart of the vision is *knowledge management*, which will provide to individuals reliable, secure access to information that is organized, filtered, and highly relevant for specific tasks and needs defined by personal profiles. A large and diverse group developed this vision.

Development efforts will concentrate on three projects. First, a digital multimedia record documenting that students and residents acquire the knowledge, attitude, and clinical skills required for awarding degrees and credentialing by accrediting/licensing agencies. Second, a coordinated bioinformatics program with a focus on digital tools for filtering and organizing genomics information and for educating researchers and students about the fundamental principles of bioinformatics. And third, a comprehensive digital research administration service that converts stand-alone systems and isolated processes into integrated digital services.

New Products and Services

AIT&L, its partners, and its customers made great progress during the past year in increasing access to information, and more importantly in managing information. The transition from paper to electronic resources and tools accelerated. The development of products and services that help people transform data and information into knowledge was substantial, but only scratched the surface of what will happen in the next five years.

eLibrary

Electronic Journals (eJournals)

AIT&L provides access to 3,636 full-text electronic health sciences journals, available from home, office, hotel, or any UC library. Most are accessible from a single list on the AITL&L Web site (aitl.uc.edu/reference/EJ032602.asp). More importantly for most faculty and students, the full-text of most recently published articles in these journals is now a direct link from MEDLINE citations in PubMed. A custom PubMed address www.ncbi.nlm.nih.gov/entrez/query.fcgi?holding=ucmclib enables this "LinkOut" feature.

OhioLINK

OhioLINK (www.ohiolink.edu), a consortium of 80 Ohio college and university libraries, provides many of our electronic full-text journals. OhioLINK makes over 2.5 million journal articles available, as well as 90+ databases, including MEDLINE, Biological Abstracts, Science Citation Index and 16 other health sciences databases.

Electronic Interlibrary Loan (eILL)

Even traditional interlibrary loaning of journal articles is electronic now. The Web has replaced paper order forms (aitl.uc.edu/reference/docdel/updated_art_req1.cfm), and articles are “delivered” via a Web site rather than through campus mail.

eResearch

Electronic Grants (eGrants)

eGrants (Webcentral.uc.edu/egrants) streamlines the grant submission process by providing an online grants management center where researchers and administrators are guided step by step through an NIH grant submission process. *eGrants* automatically draws demographic and other data from the Medical Center’s integrated database and four other systems. Based on the specifications of the Medical Center Office of Sponsored Programs, AIT&L built *eGrants*, which will be expanded for Medical Center-wide use in 2003.

Electronic Institutional Review Board (eIRB)

Partnering with the University’s IRB, AIT&L built the *eIRB* to manage information on human research protocols. The system assigns protocol numbers as the protocols are entered into the system; generates progress reports for researchers; and serves as an online reference for the IRB Office, the Office of Sponsored Programs, and other university departments.

Electronic Institutional Animal Care and Use Committee/Lab Animal Medicine (eIACUC/LAM)

In collaboration with the IACUC, AIT&L customized a commercial product to manage and support animals used for research. The application has two major components. The IACUC component records and reports animal research protocol information for the University. The LAMS component processes animal purchase orders for researchers, and manages animal care, housing services, and veterinary services for the University and affiliates.

eEducation

Library/IT Training

AIT&L teaches over 40 classes per month on library, office, Web, and course development software (aitl.uc.edu/classes/calendar). Class topics include introductory, intermediate, and advanced levels of Microsoft Office XP applications, Adobe Acrobat, Adobe Photoshop, Blackboard, Digitizing Images, EndNote, Flash, and hands-on Personal Digital Assistant (PDA) training.

Students on the Move

Health professions students now have access via PDAs and the Web to learning resources in all training environments, including classrooms, laboratories, and clinical settings. Students on the Move, a program developed by the Distributive Learning Collaboratory (the four health professional colleges and AIT&L), currently provides two applications: evaluations and clinical encounter logs. Students can complete course evaluations “pushed” to them on their PDAs. They can also maintain records of their clinical experiences on their PDAs and transfer these records to a central database that is the foundation of a future student portfolio.

eCourses

eCourses (researchtraining.uc.edu), also a program developed by the Distributive Learning Collaboratory, delivers required training via the Web and records participation. Based on his/her profile, the system notifies a person of courses required for certification or government compliance. In 2002 over 2,000 students, staff, and faculty completed blood borne pathogens training, the first program developed as part of *eCourses*.

Bioinformatics

Collaborating with informaticians throughout the Medical Center, AIT&L contributed to the development of Web-based learning tools such as *CardioGuide* (researchtraining.uc.edu/cardio.cfm). AIT&L also teaches a clinical informatics elective for the Department of Internal Medicine. This course is designed to enhance a student's biomedical literacy, providing an introduction to computing, information management, and clinical decision-making skills

Instructional Design

The Instructional Technology Center's (ITC) (aitl.uc.edu/itc) primary mission is to provide instructional support to the faculty of the University of Cincinnati College of Medicine. The ITC provides a wide range of services in direct support of classroom instruction, including: developing Web-based instructional materials, determining effective instructional technologies, converting images to electronic formats, developing multimedia presentations, and creating graphics, audio, and video files for Web courses.

eBusiness

Electronic Contracts (eContracts)

A product of an AIT&L collaboration with Medical Center Office of Sponsored Programs, *eContracts* routes contracts and supporting documents electronically to the departments that are required to review, negotiate, and approve sponsored research contracts and sub-awards. *eContracts* has eliminated paper from the process and has reduced the time to approve a contract that does not require negotiation from 4-5 days to 1-2 days.

Electronic Personnel Action Form (ePAF)

The *ePAF* (Webcentral.uc.edu/paf) simplifies and expedites the PAF submission process. All PAFs are now routed electronically throughout the multi-step approval process. The system dynamically routes forms in real time and supports structured routing when the action form must follow a predefined path in order to be processed. The *ePAF*, built in partnership with Medical Center Human Resources, has dramatically reduced processing time.

Electronic Position Description Questionnaire (ePDQ)

The PDQ is used to process the creation of new positions and to review existing positions. Developed in collaboration with Medical Center Human Resources, the *ePDQ* is dynamically routed to identified groups and individuals. All information is stored in a media repository for easy but secure access by authorized groups or individuals.

Institute for Health Policy and Health Services Research

The Institute for Health Policy and Health Services Research (IHPHSR) has two research missions:

- The *academic research mission* is to enhance the University of Cincinnati's ability to address state, local, and national health issues from an interdisciplinary perspective and attract external funding for the University's health research and education programs. A key component of this mission is to provide research support to clinical researchers throughout the Medical Center.
- The *applied research mission* is to improve cost-effectiveness and clinical quality in the delivery of health care services at the UC Medical Center, at its affiliated institutions, and throughout Greater Cincinnati and the region through internally and externally funded research.

2002 Accomplishments

Awards

During the 2002 calendar year, in addition to involvement with over 20 funded ongoing projects, the IHPHSR received 30 *new direct support* awards from the following agencies:

- | | |
|-----------------------------------|--|
| • NINDS | • NICHD |
| • NIOSH | • NIEHS |
| • AHRQ | • NCRR |
| • HRSA/MCH | • NIDDK |
| • UCLA | • CDC |
| • Donald W. Reynolds Foundation | • Every Child Succeeds |
| • The Neuroscience Institute (UC) | • Ohio Solid Organ Transplant Consortium |
| • NIOSH - ORAU | • Health Foundation of Greater Cincinnati |
| • UC Internal Medicine Department | • UC Emergency Medicine Department |
| • Greater Cincinnati Foundation | • Children's Hospital Medical Center |
| • Ryan Foundation | • Rockdale School-Based Health Center |
| • Israel Penn Transplant Registry | • Hamilton County Department of Human Services |
| • Anthem Foundation of Ohio | • Ohio Solid Organ Transplant Consortium |

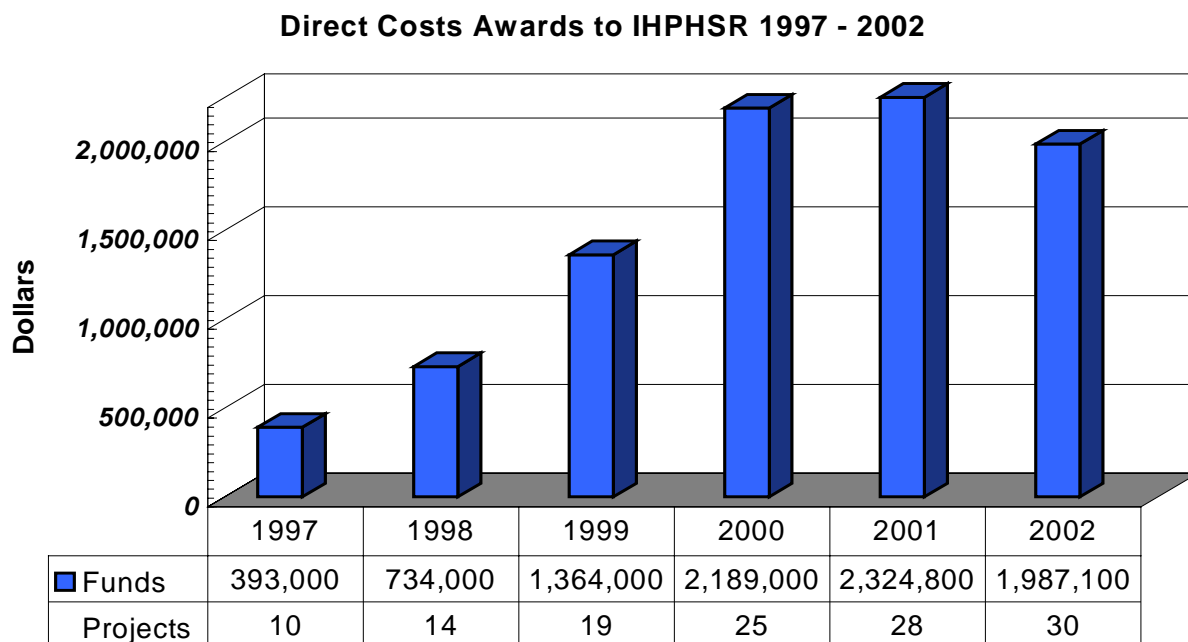


Figure 6 Number of new projects awarded and their Total (across all years) funding amounts awarded in a given calendar year. For example, a two-year \$200,000 project awarded in 1999 would be listed for 1999 as a \$200,000 entry, and not spread across two fiscal years at \$100,000 per year. Note: figures for 2001 differ from last year's report and reflect downward changes associated with contract changes awarded for that year.

The above Figure shows significant annual year-to-year increases of direct cost funding at the IHPHSR, with an 86% increase from 1998 to 1999, a 60% increase from 1999 to 2000, with a subsequent increase of 6% from 2000 to 2001. For the current reporting period (Jan 2002 – Dec 2002) there was a modest decrease in direct funding to the IHPHSR, largely due to a decline in awards from local, state, and foundation funding sources. Tax revenue declines have caused local and state governments to decrease contract awards. Private foundations have decreased their awards because of declining values in their investment portfolios.

Although most of these awards are collaborative projects with other departments and institutions, many of them have IHPHSR researchers as the Principal Investigators / awardees.

Some Program and Project Highlights for 2002

For 2002, the IHPHSR has built upon past "start-up" achievements and is now entering its "long-term developmental phase". Some notable highlights for the past year include:

- IHPHSR Faculty and Staff published over 65 articles, papers, and abstracts in 2002, including papers in JAMA, Archives of Internal Medicine, Annals of Internal Medicine, Journal of Clinical Endocrinology and Metabolism, Medical Decision Making, New England Journal of Medicine, and other prestigious and noteworthy journals.
- In addition, Faculty Research Fellows of the IHPHSR published over 29 articles, papers, and abstracts in 2002, including papers in some of those same prestigious journals (JAMA, NEJM, etc).

- IHPHSR continues with its relationship with the Donald W. Reynolds Foundation and the Association of Directors of Geriatric Academic Programs (ADGAP) to develop and administer a series of surveys and databases on education in geriatric medicine. We recently received a two-year renewal award (for a total of 4 years) to continue a long-term research and education relationship with that Foundation and ADGAP in geriatric medicine. Further, this project is another example of the strategic partnership of the IHPHSR with the Department of Family Medicine, where the PI, Gregg Warshaw, MD, is a faculty member. In addition, this project was covered by an article in JAMA (“Academic Geriatric Programs in US Allopathic and Osteopathic Medical Schools”, 288(18): 2313-2319; November 2002).
- Expanded our strategic links with NIOSH, CDC, the Health Collaborative of Greater Cincinnati, the Health Foundation of Greater Cincinnati, and the Anthem Foundation along with several other private foundations regionally and nationwide.
- Expanded our faculty by adding Stephen Page, PhD (College of Medicine; Department of Physical Medicine and Rehabilitation) and in the process built a strong basis for rehabilitation research and strategic partnership with the Department of Physical Medicine and Rehabilitation, Drake Center, and others.
- Added an additional faculty member to the Primary Care Research Group: Andrew Bazemore, MD (College of Medicine; Department of Family Medicine)
- Added a new faculty member to the Center for Clinical Effectiveness: Mark Wess, MD (College of Medicine; Department of Medicine/General Internal Medicine).
- Expanded our group of Clinical Research Fellows within our Center for Clinical Effectiveness by recruiting four (4) new Fellows: Timothy Lewis, MD; Daniel P. Schauer, MD; Thomas Webb, MD; and Stephen Wilson, MD. Although these new Fellows hold full-time academic positions in Division of General Internal Medicine, they have their primary research location within the IHPHSR.
- In addition, we added a new biostatistician, Anthony Leonard, PhD to our Center for Biostatistical Research and Support. This brings to 4, the number of full-time statistical personnel within this Center, three at the PhD level.
- Mark Eckman, MD serves on the AHRQ Health Care Technology and Decision Sciences (HCTDS) Study Section effective January 2002. This study section is responsible for reviewing and recommending federal funding for grant proposals in the area of IT Health Care and Decision Sciences.
- Joseph Mrus, MD was elected Vice Chair of the (National) Adult AIDS Clinical Group's Outcomes Committee (Term of office: Jan 2002 - Jan 2004); this national committee runs (manages) ALL of the AIDS clinical trials.

2003 Goals

- Continue to build the Institute for Health Policy and Health Services Research faculty and staff into a successful “team” with extensive interactions with faculty from departments and divisions throughout the Medical Center and University.
- Establish additional "strategic partnerships" with medical center departments and colleges, as well as key local, state, and national institutions. Significant partnerships are developing with the Barrett Cancer Center, Department of Surgery, and the Department of Radiology.

- Substantially increase the amount of extramural funding generated by the IHPHSR, particularly funding from federal agencies such as NIH, AHRQ, NIOSH, HRSA, and others.
- Create a Center for Biostatistical Research and Support (currently a Division within the Institute) to focus the rapidly growing number of grants and contracts in this area received by IHPHSR faculty and staff; in particular, Richard Hornung, DrPH.
- Continue to develop a Center for Primary Care Research in concert with the Department of Family Medicine and other primary care-oriented units within the Medical Center and University and a research core in the Department of Physical Medicine and Rehabilitation.
- Upgrade the Health Research Data Center's organizational status within the IHPHSR to recognize its substantial and growing contribution to the research capacity and capabilities of the IHPHSR and throughout the Medical Center, through the leadership of Mark Carrozza and his staff.
- Continue to present research at national meetings, publish in peer-reviewed journals, and expand the IHPHSR's national visibility.
- Continue to recruit outstanding MD & PhD research faculty.

Laboratory Animal Medical Services

The Department of Laboratory Animal Medical Services (LAMS) provides centralized procurement; housing and veterinary care for all animals that are utilized by the University personnel. The work to prepare animal housing and procedure space in the Genome Research Institute and in the Vontz Center for Molecular Studies has moved forward almost on schedule. Animals will be moved into these excellent facilities in March and April of 2003. Animal usage has dropped in 2002 about fifteen percent. Most of the mice are now housed in barrier cages, which will reduce the infectious disease outbreaks.

AAALAC site visitors identified a few minor problems when they toured the facilities in 2002. These problems will be corrected before another site visit in 2003.

The LAMS Director resigned and a new Director will be on board in early 2003. The additional new space and new leadership should advance to quality of animal research conducted by University personnel.

Clinical

University of Cincinnati Physicians (UCP)

Calendar year 2002 saw the strategic plans seeded at a spring 2000 retreat brought to fruition.

Clinical practice continues to grow across all practice sites. An 8+% trend in growth of aggregate net clinical revenue continues to be met. A portion of this growth is due to much improved revenue cycle management of the departments. The remaining portion of the growth is due to increased clinical appointment availability and improved reimbursement rates. Hospital usage continues to climb with UC Physicians presence at Alliance hospitals growing. The Christ Hospital has become our most significant secondary hospital site. Robust growth of clinical practitioners is expected over the next two years. With this growth in mind, the goal of three years ago, doubling patient clinical revenue over 7-10 years will be met. It is expected that this goal will be revised, and the bar raised, at our strategic planning retreat later this winter.

The UC Physicians 85,000 sq ft Medical Office Building at University Pointe opened in September. Patient office visits should exceed 24,000 in the first year. Included in this office space is a state of the art imaging center, a joint venture between UC Physicians and The Health Alliance. The clinical practice model for this new site is a radical departure from the existing model in the Clifton Medical Arts Building. A much more patient centric, centralized practice has been designed and implemented. Anticipated benefits of this model continue to outweigh the obstacles that have been identified in the first 90 days of operation. The joint venture, keeping on its strategic course, approved construction of a new concept, short stay surgical hospital. This hospital is now in its conceptual stages with construction expected to start late spring or early summer.

Land absorption of the development has exceeded expectations. Approximately 60% of the site is now sold, under contract or option, or in negotiations. This fast progression has caused us to call a moratorium on land sales until the issue can be reviewed and re-evaluated.

UC Physicians was directed by its constituents to find a way to exert more physician leadership into the management of University Hospital. After much discussion, interviewing by The Alliance, and collaborative consultation, Dr. James Hurst, an UC Physicians member, accepted the position as Senior Executive Officer of University Hospital.

The Health Insurance Portability and Accountability Act (HIPAA) has required an enormous effort to meet the requirements of patient privacy defined in the act. The formation and hard work of the UC Physician's Task Force on HIPAA has led to the development of policies, procedures and educational tools that will be necessary for compliance with the new privacy rules. These collaborative activities have brought efficiency and cost effectiveness to the burdens of meeting these new regulatory demands.

UC Physicians has successfully lent administrative support to the development of the University of Cincinnati Cancer Programs (UCCP). UCCP has engaged in a planning exercise with the Health Alliance to discern the most appropriate governance and operational model for the Barrett

Cancer Center. The department of cancer clinical trials has finally been stabilized and is now prepared for growth. During this course change the Barrett Cancer Center has experienced an approximate 10% growth in patient visits. Community preference surveys for 2002 show a significant improvement in the community preference for hospital based cancer care rendered at that Barrett Cancer Center. This significant growth in patient preference helps the Barrett Cancer Center strengthen its place as the number one preferred location for care of the Greater Cincinnati population.

Background information has been obtained for the development of a bona fide UC Physicians Information Technology Initiative. The patient billing process and current state electronic medical record have both been reviewed and these findings will be the core data elements of our IT initiative.

Employee training was expanded and enhanced in 2002. Employee turnover was 17%, the lowest percentage in the 7 years that turnover statistics have been maintained.

The core business of UC Physicians, building clinical practice, took a giant leap forward in 2002. The infrastructure to support continued growth is being built. Business objectives are being reviewed, revised and affirmed on a continuing basis and will be formally addressed at our retreat. UC Physicians continued to perform under budget through 2002.

Hoxworth Blood Center

Hoxworth Blood Center, under the leadership of Ronald A. Sacher, MD, continued to achieve its goals in support of the blood component and blood-related service needs for patients in the 24 tri-state hospitals served by our community's blood center. Critical successes included the following.

- In fiscal year 2002, a total of 87,000 blood donations were given through Hoxworth Blood Center for the patients in our community. This represents an increase of 5000 donations, or 5%, over the last fiscal year.
- Hoxworth successfully changed its manufacturing processes to move the community's blood supply to one that is totally leukocyte-reduced. The benefits for this change are many and Hoxworth joins other cutting-edge centers in providing these types of products.
- Under the leadership of Robert Hoverson, President and CEO of Provident Bank, Hoxworth's Annual Business Campaign saw an increase of 4% in blood donations.
- Successes for our Student (collegiate) Campaign, Physician-Patient Campaign and Community Campaign also helped the organization achieve increased blood collections.
- Hoxworth's investment in automated technology continued to be very successful. The Trima instruments continued to enhance our ability to collect both red cells and platelets pheresis from volunteer donors. In the fall of 2002, we invested in automation from the Haemonetics Corporation that allows us to collect double red cells from selected donors. These additional strategies will support our increasing goals for both red cells and platelets pheresis.
- The High School Blood Program continued to be a success, providing approximately of 10% of Hoxworth's total whole blood collections for the year. Donations provided by Time Warner Cable (Gold Sponsor) and Cinergy Foundation (Silver Sponsor) were

presented to ten area high schools for their outstanding participation. In addition, individual student scholarships were awarded to eight high school students for their successes in academic and community service and in preparing a qualifying essay.

- With Hoxworth's participation, 500 new donors joined the National Marrow Donor Program (NMDP). The total number of potential donors from our community now total over 15,000. Last year, the NMDP and Hoxworth coordinated 17 bone marrow or peripheral blood stem cell collections from members of our community for transplant into unrelated recipients.
- Over 7000 donors were recognized with gallon awards for blood and platelet donations. These awards ranged from one-gallon recognitions to a 54-gallon recognition.
- Hoxworth's Transplantation Immunology Division was successfully reaccredited by the American Society for Histocompatibility and Immunogenetics. The Specialist in Blood Bank Technology Program was also reaccredited by the Commission on Accreditation of Allied Health Education Programs and the American Association of Blood Banks.
- Hoxworth's Blood Transfusion Medicine Master of Science program moved to the College of Allied Health Sciences.
- Hoxworth's dedicated volunteers contributed over 16,000 hours of service to the organization.
- New federal regulations regarding the deferral of donors related to the theoretical risk of variant Creutzfeldt-Jacob disease and travel were implemented. Hoxworth has lost donors because of these regulations and must recruit additional donors to off-set these losses.

University Health Services

The mission of University Health Services (UHS) is to provide superb health care and health education in a compassionate and caring environment for both students and UC faculty and staff; to assist the University in providing a safe and healthy work and study environment for students and employees; and to promote individual and community wellness in a Just Community. UHS operates two clinics for students and employees with seven physicians, one optometrist, one dentist, 6 mental health providers, one pharmacy, one CLIA-approved intermediate category laboratory, and one X-ray facility; a fitness center; a wellness center; a faculty, staff, and student assistance program; a disability management program; a student health insurance program; and the university's environmental health and safety program. UHS also provides medical care for UC's athletes. UHS has approximately 75 full and part-time employees. Its Web page is <http://www.med.uc.edu/uhs>. In calendar year 2002, 30,537 patients were seen, a 11.3% increase from the 27, 437 patients seen in calendar year 2001. Some of this increase in 2002 is due to counting telephone consultations with patients as patients seen.

In response to UC President Joseph Steger's July 25th, 2001 memorandum, during the year UHS staff facilitated the submission of Mission Continuity Plans from all 36 reporting units of the Medical Center that needed to have plans.

During 2002, in response to new federal regulations, UHS staff assisted with two University-wide surveys of investigators to determine what hazardous agents were on the Centers for

Disease Control's and the U S Department of Agriculture's list. An additional survey was taken to identify if any poliovirus was still present at the University.

Throughout the year UHS facilitated a committee that met to develop Standard Operating Procedures for the Level III Biosafety Laboratory. UHS also assisted in getting the new facility inspected in preparation for certification.

UHS staff continue to serve on a variety of other UC committees including the Student Health Contract Committee, the Student Health Insurance Appeals Committee, UCAAMP, AWA, Board of the Faculty Club, Women's Internship Program, Women's Leadership Conference, Just Community, Women's Initiatives Network, C-Ring Committee, Women & Racism committee, Commission on the Status of UC Women, Human Resources Advisory Committee, Americans with Disability Act Committee, Disabilities Services Committee, Reserve for Maintenance and Improvements committee, the Mission Continuity Committee, the Emergency Response Committee, the Universities Stakeholders Committee, Users Planning Committee, the University Environmental Oversight Committee, Radiation Safety Committee, University Basic Renovation Committee, University Standards Committee, University Sustainability Committee, and the Commission on Alcohol and Other Drug Education.

Athletic Medicine

- The Athletic Medicine homepage is <http://www.med.uc.edu/athletichomepage.html>.
- UHS continued to provide primary sports medicine care for all varsity athletes.
- Provided on site medical coverage at all UC football games, men's and women's home basketball games and many away basketball games
- UHS continued to support a fluoroscopy unit in the training room
- Precepted 2 family medicine residents, 2 senior medical students and 3 student athletic trainers on primary sports medicine care rotations
- Dr. Stephens, team physician, was re-elected president of the NOCSAE board of directors. NOCSAE provides standards for athletic equipment and funds research.
- Dr. Stephens presented at the national meeting of the American College Health Association, continued as the medical director for the athletic training curriculum program offered through the College of Education, and taught a 3 hour required course "Advanced Athletic Training."
- Dr. Stephens was awarded Team Physician of the Year by the Ohio Athletic Trainers Assn.

Environmental Health and Safety

Environmental Health and Safety (EH&S) directs the University of Cincinnati's operations in environmental engineering, industrial hygiene, waste management and compliance with federal Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA), state and local regulations. In support of the University Mission EH&S serves as a technical resource to the entire institution. The EH&S office provides a wide variety of information and direct customer service to assure that University operations are conducted in a safe and environmentally sound manner. Further, EH&S assists individual organizations and

corporations to assure compliance with all applicable University safety policies and regulatory health and safety requirements. The office Web address is <http://ehs.uc.edu>. As the University of Cincinnati expands and integrates its operations, it is necessary to further develop the best approach to environmental safety practices that comply with federal, state and local regulations and that are competitive with comparable institutions. EH&S works jointly with the University of Cincinnati Medical Center in support of the Millennium Plan. EH&S serves as University liaison with federal and state EPA and OSHA representatives, City of Cincinnati Environmental Service, Hamilton County Metropolitan Sewer District, Fire Department officials, and Insurance Underwriters/Loss Control Managers.

Recently, the regulations involving the possession, use, and transfer of select/biological agents and toxins are impacting the University community by requirements and training on numerous activities such as possession, use, and transfer. New protocols for the safe handling of biological agents require a greater level of engineering controls and work practice as prescribed by the Centers for Disease Control and Prevention (CDC), the Animal and Plant Health Inspection Service (APHIS), the National Institutes of Health (NIH), the United States Department of Agriculture (USDA), and the Office of Homeland Security.

Future challenges include: increased regulatory demands from the federal and state EPA for all university operations, increased regulatory demands from the federal CDC and USDA for the possession and use of biological agents, genetic and molecular research, human gene therapy clinical trials, increased regulatory scrutiny of research activities, emergency preparedness and business continuity, laboratory material management and tracking, developmental oversight of new research properties, instituting University-wide school/unit specific safety committees, support for major campus-wide construction activities and management for the accompanying growth.

- During calendar year 2002, - 23,352 service requests were processed
- 63,000 pounds of hazardous and regulated materials were disposed of a cost of \$146,000.
- An additional 43,116 pounds of regulated waste were recycled including mercury containing florescent bulbs, cadmium and lead containing computer monitors and used oils.
- 4,700 cubic yards of fly ash were recycled through collaboration with Facilities Management and an outside corporation.
- 127,000 pounds of infectious waste were disposed of at a cost of \$64,869.
- Conducted 1,206 lockout/tagouts for repairs of localized exhaust systems in coordination with Facilities Management.
- 384,400 square feet of (858 rooms) functional laboratory and support service space were audited for compliance with federal, state and local environmental and occupational regulations. 542 laboratory fume hood surveys were conducted in buildings and 695 personal and environmental exposure samples were collected to ensure a healthful workplace and verify work practices.
- All 434 injuries and illness reported by faculty, staff, students, contractors, and visitors were investigated, and initiation of corrective actions was coordinated with supervisors and departments. 131 of these incidents met the definition of an OSHA recordable

incident, meaning the employee required more medical treatment than first aid and/or the employee missed time from work.

- 3390 faculty, staff and students participated in 78 Environmental Health and Safety – sponsored safety training sessions covering various regulated occupational safety and health topics.
- Conducted Safety Awareness Forums for Facilities Management, Public Safety, Construction Management, and Engineering College on Bioterrorism, Respirator Regulation, Respirator Quantitative Fit-Testing, Lockout/Tagout/Confined Space, and Asbestos Regulations.
- EH&S reviewed drawings for \$810, 956, 224 worth of capital expenditures.
- Asbestos and lead abatement projects totaling \$1,377,480 were reviewed for containment specifications, monitored for effective exposure and contamination control and materials handling and disposition.
- 46 construction areas were audited for compliance with federal, state and local environmental and site safety regulations, conducted biweekly construction safety audits for the renovation and rehabilitation of the GRI facility.
- Five mandated Air Emission reports for the University were submitted to the EPA (3 Federal Title V and 2 State of Ohio Title V).
- 7 underground storage tanks were registered as mandated by the State Fire Marshall, supervised the removal of 4 underground storage tanks on three campuses.
- EH&S staff supported the University in four (4) Phase I Environmental Site Assessments, one (1) Phase II Environmental Site Assessment, one (1) Class Action Suit for Asbestos, one (1) Telecommunication Radio Frequency Assessment for electromagnetic field exposures and one (1) Nuclear Magnetic Resonance Imaging Assessment.
- Reviewed 152 research protocols and conducted 48 risk assessments for the Institutional Animal Use and Care Committee in compliance with the requirements of the Association for the Assessment and Accreditation of Laboratory Animal Care (AAALAC).
- Staff participated in the Health and Wellness Fair and Benefits Fair to promote safety and health among faculty, staff and students – approximately 762 individuals visited the booths.
- University received the “Green Buckeye Award” from the State of Ohio, Department of Commerce for compliance with Underground Storage Tank requirements.
- Active member of twelve (12) safety committees University-wide and nationally, the department co-chairs the University’s Joint AAUP/Administration Environmental Oversight Committee.
- EH&S launched the online accident form and Web-based access to facilities audits and asbestos/lead projects and bulk samples.
- Invoicing and NIU billing subsystem was developed to EH&S Infectious Waste program.
- Initiated online registration for open session safety training courses.
- Collaborated with University Provost, and the Chemistry Department faculty in selecting and developing a University-wide chemical tracking system to comply with Federal regulations.
- Assisted in the development and the recommendations for safe operating procedures within the University’s bio-safety level 3 facility.

Holmes Health Clinic

- The Holmes homepage is <http://www.med.uc.edu/uhs/holmesclinic./healthserviceseast.html>.
- In 2002, 6,139 patients were seen at Holmes. There was no percentage change from the 6,156 patients seen at Holmes in 2001.
- The clinic continues to provide primary care services to UC employees with work-related illnesses and injuries and to students. The main student patient population includes graduate students in the Colleges of Medicine, Pharmacy, Nursing, and Allied Health.
- UHS continues to provide 24/7 telephone coverage for students who have urgent after-hours medical concerns. Students are referred to The University Hospital Emergency Room attending when the Holmes clinic is closed or urgent specialty care is needed. Otherwise students are referred to the University of Cincinnati Physicians specialists.
- The clinic continued contracts with Children's Hospital Medical Center, Gambro Dialysis Center, the Cincinnati College of Mortuary Science and Shriners Hospital for post-exposure evaluation and treatment of employees with possible Bloodborne pathogen exposures.
- Employees provided injection and blood pressure education for third-year College of Medicine students.
- Several Occupational Medicine Residents carried out month-long rotations at the Holmes Health Clinic during the year.
- In 2001, 87 persons were evaluated for bloodborne pathogen exposures. Most of these were needle sticks. The 87 are an increase of 52.6% over the 57 persons evaluated in 2001. The reason for the increase is not known. It may be due to better reporting.

Information Technology

- The systems engineering unit responded to 1,100 requests for assistance.
- The mass deployment of Windows 2000 in UHS continued and the initial deployment of Windows XP began.
- The UHS Preventative Maintenance Initiative was implemented to routinely maintain and monitor computers and catch problems before they occur.
- Invoicing and NIU billing subsystem was added to EH&S's Chemical and Infectious Waste for departmental recharge.
- Administrative units coordinated installation of Kronos Timekeeper software to manage time for hourly employees.
- EH&S launched the online accident form and Web-based access to facilities audits and asbestos/lead projects.
- Network drops in Holmes Hospital were reconfigured to be directly on the Health Alliance's network, requiring use of the Virtual Private Networking client to access UC resources.
- All UHS files continue to be backed up daily so they will not be lost in the event of a disk failure. This year, a mission continuity plan was implemented. Part of this plan involved off-site storage of weekly backups.

REACH (Responsive Employee Assistance Can Help)

- The REACH Web page is <http://www.med.uc.edu/uhs/reach.html>
- REACH staff provided training programs on employee assistance, stress management, dealing with grief, and on managing alcohol and drug problems to groups including over 100 faculty, staff, and students.
- REACH staff provided 375 ongoing counseling visits, including assessments for 93 new faculty and staff, and 49 new students.
- REACH provided consultation services to numerous, Deans, Directors, and Department Heads.
- REACH actively participated in the development of the Mission Continuity Plan for University Health Services.
- REACH Counselors maintained clinical skills through ongoing professional consultation.
- REACH provided emergency counseling services in response to a number of unforeseen tragedies.
- REACH staff participated in the UC Benefits Fair, as well as the UC Health Fairs, both on Main Campus and at the Raymond Walters Campus.
- REACH staff actively participated in campus events sponsored by the Committee for a Just Community, and Martin Luther King Day Celebrations.
- REACH staff worked on the following university committees: Commission on Alcohol and Other Drug Education, Americans with Disabilities Act Committee, Sexual Offense Response Team, and the Labor and Management Advisory Committee.
- REACH staff maintained active membership in the South Ohio Chapter of the Employee Assistance Professionals Association.

Scioto Health Clinic

- The Web address is <http://www.med.uc.edu/uhs/sciotoclinic/homepage.html>.
- Continued to provide primary care for all students of the West campus.
- Supporting services that are in-house at Scioto include a CLIA certified moderately complex lab, x-ray services and an apothecary style pharmacy.
- The following medical services are also provided in-house at Scioto: Women's health clinic, Dermatology clinic, Employee health services, Mental health clinic, Dental clinic, Optometry services, Allergy injection services, Prematriculation health screens for international students, Physical therapy clinic, Sports medicine and team physician services for all varsity athletes, Billing services for all of UHS.
- The lab received a perfect score for the second consecutive time for CLIA recertification: this honor is achieved by less than 1% of all approved labs.
- Increased the physical therapy in-house services available.
- Billing operation met and exceeded their goal of getting a bill out in less than 5 days of a visit
- In cooperation with Hamilton County Tuberculosis Control, the screening process for international students was significantly improved to the point that any incoming student with active tuberculosis will be detected quickly and treated. The program in fact

identified one case of active TB, the first in several years resulting in minimal exposure on campus.

- Training in blood pressure was provided for College of Education students.
- Scioto served as a clinical site for the training of numerous internal medicine residents, nurse practitioner students and others.
- Lab participated with the Health Alliance Lab in a urine verification test for gonorrhea and chlamydia.
- Staff participated in several student and employee health fairs on campus
- The lab served 6441 patients, an increase of 8%.
- The pharmacy filled 13,806 prescriptions.
- Total patient visits for 2002 was 24,398, an increase of 14% partially as a result of new accounting methods.

Student Health Insurance Plan

- The Web site for the Student Health Insurance Plan is. <http://www.med.uc.edu/uhs/studenthealthinsurance/HomePage.html>. On the Web site, we have the Policy Book, waiver and enrollment cards, and claim forms for quick online access.
- The Student Health Insurance Single Student premium went from \$278 to \$319 for the 2002-2003 academic year. UC students and dependents continue to be able to purchase a policy with exceptional benefits at a relatively low cost, giving them the benefits of being under a group plan.
- Seven thousand, one hundred, fifty-three students bought UC Student Health Insurance for the Fall quarter of the 2002-2003 academic year.
- Approximately 16,000 hard-copy waivers were submitted during the fall. With the implementation of the Web waiver, this number has been drastically reduced as the popularity of the online registration system (or Onestop) has increased.
- The Student Health Insurance Office has had much greater success in the accuracy of needed information from the UniverSis computer system this year. The system has worked appropriately, therefore, reducing the number of complaints from students, which has resulted in fewer appeals.
- Full-time employees who are taking classes are not required to waive the Student Health Insurance. The job that was created to automatically remove the Student Health Insurance charge for those employees who qualify for University Benefits, continues to be run each quarter. Their dependents, however, must still waive as any other student.
- The Health Alliance and University of Cincinnati Physicians continue to be the preferred providers of the Student Health Insurance Plan.
- The Student Health Insurance Office continues to have major involvement in the Orientation process for new students. A videotape presentation discussing University Health Services, the availability of meningitis vaccine, and student health insurance is made available to UC colleges and their individual departments. In addition, Student Health Insurance Office employees continue to make presentations to inform both students and parents about the student health insurance requirement and the waiver

process throughout the year. A workshop was also offered for graduate students, explaining how the insurance program works.

UC Wellness Center

- The UC Wellness Center's Web site (www.wellness.uc.edu) contains up to date health and wellness information along with current events and programs.
- The Wellness Center received a \$29,000 grant from the National Collegiate Athletic Association to conduct an alcohol social norming campaign at UC; this is the second year of a three-year grant.
- The Wellness Center received a \$15,000 Success Challenge Grant to continue to provide Friday Night Live programs, alcohol free late night programs to the UC community.
- The Wellness Center also received \$14,000 from MainStreet funds to continue to offer Friday Night Live programs.
- The Wellness Center received a \$23,000 grant from the Ohio Department of Health to continue to develop and implement smoke-free initiatives on campus and to provide smoking cessation classes; this is the final year of a four-year grant.
- The Wellness Center received a \$500 grant from HEALTH-UC to do a women's health month workshop on stress management and exercise.
- The Wellness Center coordinated the 4th annual Breast Cancer Awareness Month and raised \$2,000 for the Susan Komen Foundation and the Barrett Cancer Center.
- The Wellness Center coordinated the 3rd Annual UC Health and Wellness Fair and had over 50 booths and over 1,700 participants throughout the event. This year we were able to provide free bone density screenings, free blood pressure screenings and free glucose testing.
- The Wellness Center staff provided body composition, strength testing, blood pressure checks and flexibility testing to 269 students, faculty and staff.
- The Wellness Center provided 99 programs and workshops to 2,329 students, faculty and staff on alcohol, tobacco, nutrition, sexual health, stress management, body image, exercise and other health and wellness related topics.
- The Wellness Center continued to provide students, faculty and staff with a quarterly health and wellness newsletter, which is sent to over 900 individuals.
- The Wellness Center sponsored 6 lunch and learn program series (health and wellness programs held at the lunch hour), with an overall attendance of 323.
- The Wellness Center maintained an alcohol education program for 55 students.
- The Wellness Center coordinated and conducted the CORE national alcohol and drug survey to over 1,500 undergraduate students.
- The Wellness Center coordinated over 15 health and wellness awareness events, such as Wellness Week, Safe Spring Break, Body Acceptance Week, Stress Awareness Days and Random Acts of Kindness Days.
- The Wellness Center staff maintained membership in national and local health and wellness organizations and continues to participate in numerous university committees.
- The Wellness Center continues to offer smoking cessation classes and to work with the Tobacco Advisory committee to implement new policies and initiatives.

- The Wellness Center staff maintains their national certification in the American Lung Association's smoking cessation program, TIPS alcohol facilitation, CPR and Certified Health Education Specialist.
- The Wellness Center continues to employ 5 students who gain experience in health and wellness programming and hired a graduate assistance to coordinate Friday Night Programs.
- Friday Night Live continues to provide UC students with non-alcoholic events on Friday Nights on campus throughout the school year.

University Employee Disability Management Services

- The Disability Management Web page is <http://www.med.uc.edu/uhs/disabilitymanagement/dismgmthome.htm>
- Disability manager, Stephen Bangs, coordinated the university-wide return to work and workplace accommodation program for 242 university faculty, staff, and student workers having a disability.
- University Employee Disability Management Services provided vocational rehabilitation case management services including office and ergonomic consultation, transitional duty coordination, and workplace accommodation services. Also coordinated on-site physical therapy services and functional capacity evaluations for employees with work-related injuries.
- Bangs participated in the University's Americans with Disabilities Act (ADA) Committee to help resolve long-term or permanent workplace accommodation issues for 24 employees. He also conducted worksite job analyses to determine essential and secondary job functions, assisted in obtaining external funding for the purchase of adaptive equipment and for job accommodation aids.
- University Employee Disability Management Services coordinated temporary transitional duty assignments for 116 participating university employees. This represents a 65 % increase in transitional duty assignments from the year 2001. The university has reduced workers' compensation costs to 07 cents per \$100.00 of payroll.
- University Employee Disability Management Services disseminated disability management program information to employees participating in the university's annual Wellness Fair and the Benefits Fair.
- Bangs coordinated the university Return-to-Work Committee's activities related to developing written transitional duty procedures, drafting a department letter offering transitional duty, and a transitional duty agreement form. Also disseminated transitional duty program information to employees, physicians, physical therapists, supervisors, managers, labor union representatives, and attorneys helping to promote integrated disability management and return to work services.
- Bangs maintained the department's employee disability database tracking both for non-occupational as well as for work-related injuries and illnesses. He provided return-to-work and disability information/data to university departments including Environmental Health and Safety, Benefits, the Office of Equal Opportunity, and Employment Services. Data reports were also provided to the university's third party actuarial and the medical care organization for university employees filing a workers' compensation claim.

- Bangs maintained his accreditation as an Ohio Bureau of Workers' Compensation Vocational Rehabilitation Case Manager and as a Transitional Work Developer. He also maintained national certification as Certified Rehabilitation Counselor (CRC).

University Fitness

- University Fitness maintains a Web site for current program information (<http://www.med.uc.edu/fitness>).
- University Fitness maintains a 3,500 square-foot exercise facility located on the 5th floor of Holmes that includes a full line of state-of-the-art Nautilus machines, free weights, cable machines, and a variety of cardiovascular equipment along with Cardio Theater. A variety of group fitness classes are offered to all Fitness Center members.
- Total membership at the Fitness Center, as of January 1, 2003 was 540 members. Membership breakdown:
 - 162 Full-time students
 - 228 UC employees (via payroll deduction)
 - 66 CHMC employees (via payroll deduction)
 - 84 Quarterly members (auto charge/invoiced UHI, CHMC and community).
- University Fitness provides incentive programs to Fitness Center members throughout the year.
- University Fitness staff serve as the UC NetWellness experts for Exercise and Fitness questions. In addition to ongoing NetWellness questions, the program director submitted three articles to the Cincinnati Post, one to Cincinnati Magazine, and provided fitness information to UC Public Relations.
- University Fitness serves as an exercise outlet for families staying at Holmes on Eden, CHMC, and Ronald McDonald House in cooperation with The Caring Network of Cincinnati Children's Hospital Medical Center.
- Specialty classes including Living Fit with Osteoporosis (in cooperation with the UC Center for Reproductive Health), Living Fit (offered specifically for members of the UC Physician's Weight Management Program), Massage Therapy, and Travel Fit were offered throughout the year.
- Together, the four fitness instructors maintain a personal training client base of 40 individual clients.
- University Fitness staff provided the following appointments throughout the year:
 - 177 Pre-screenings
 - 160 Orientations
 - 26 Equipment reviews
 - 1,559 Personal trainings
 - 7 Body composition assessments
 - 218 Aerobic classes
 - 89 Abdominal classes
 - 13 Specialty group fitness classes
 - 15 Fitness consultations
- The staff, certified by the American College of Sports Medicine and CPR certified, provides pre-exercise screening and program leadership.
- The Director participated in Fitness Center planning meetings with University Architects,

BHDP Architecture, STUDIOS Architecture, Brailsford & Dunlavey Facility Planners, and Harley Ellis as part of the MSB Expansion and Renovation Project.

- University Fitness provides a training site for students seeking practicum experience and internships in health promotion programming.

Shriners Hospitals for Children, Cincinnati

Shriners Hospitals for Children-Cincinnati continues to collaborate with The University Hospital and University of Cincinnati Medical Center to focus on providing improved standards of care for thermally injured pediatric patients. Research interest and efforts are directed towards understanding and controlling inflammation after a burn injury, the areas of immunology/sepsis, nutrition/metabolism and wound healing/skin coverage. Research funding to Shriners this year totaled over \$3.4 million – the highest ever received by the Cincinnati hospital.

Some of the most promising research is being done in the field of wound healing/skin coverage. Research in the genetic engineering of cultured skin substitutes continues to improve wound healing. Cultured skin substitutes may reduce the requirement for autografting and reduce the number of surgeries needed to cover large burns and in turn reduce the length of hospitalization for the burn patient. Other research on this subject combines skin cells from the patient and implantable biopolymers into grafts that can form skin. Our expectations are that these autograft substitutes can further reduce the donation of tissue needed for grafting, reduce the number of surgeries required to complete grafting and reduce the hospitalization for patients with large burns, and increase the probability of saving the lives of severely burned children.

In 2002, Shriners Hospitals partnered with Press-Ganey, one of the largest companies in the health care industry measuring patient satisfaction, to improve the quality and service of our care in the outpatient and inpatient settings. Over 80% of responses to standard questions ranked the outpatient department services as "very good" - the highest rating on the scale. The average score of 94% ranks us in the 99th percentile among Press-Ganey database hospitals. Results from the inpatient surveys will be reported in early 2003.

Two new physicians joined the burn team at Shriners in 2002 - Tim Reigel, MD accepted a clinical burn surgery fellowship and Jennifer Butterfield, MD, began working as a plastic surgeon.

Cincinnati Veterans Affairs Medical Center

- Collaboration of Clinical Research Unit with University of Cincinnati and Children's Hospital has resulted in the opening of a Clinical Research Center at the medical center. Recruited and hired a full time physician to operate the new research facility. Continue to collaborate and explore new ways to build a new research facility on the grounds of the medical center. This will allow us to develop the capability to participate in the bioterrorism research.
- Construction and renovation projects proceed as prioritized by the Strategic Planning process as follows:
 - o Renovation completed of Medical/Surgical Nursing Unit, 6 South.

- o Renovation of nursing units continues with work on the 5th and 7th floors.
- o Construction complete on the 2nd floor new Medical Intensive Care Unit. The unit will increase privacy and improve the observation capability of all patients. Grand Opening planned January 13th.
- o Design for construction of replacement Surgical Intensive Care Unit
- o PMR Clinic Improvements
- o Remodel and refurbish 1st floor ambulatory care clinic area
- Annual Stand Down for homeless veterans very successful. Worked with over 25 community agencies to participate in the event and over 300 volunteers. Annual Domiciliary Olympics incorporates events that address the needs of our patients.
- Developed a new tuition program for all staff.
- Began new Wellness Program by implementing the Cincinnati Walks Program. Overwhelming success with over 500 participants. Provide VISN Synquest leadership for computer based training and developing reports.
- Implemented new management communication model, "Full Circle Program" to emphasize the high priority culture of Safety to address the critical importance of the confidential "close call/near miss" reporting system. This program, which highlights the four key elements of leadership, reporting, incentives and celebrating success has resulted in 244 reports from at least 25 separate work units. Numerous actions have occurred as a result of the reports, including changes in medication processes, environmental changes and changes in patient care standards.

Support

Management, Finance and Support Services (MCMFSS)

Accomplishments include:

- Processed an increase in external grant funding of 9.4% over FY 2001. Total funding for the UC Medical Center was \$111.7M. The UC Medical Center and its affiliates totaled \$209M.
- Developed and implemented an upgraded version of the electronic contracts process. This process was in partnership with AIT&L.
- Conducted training sessions on various topics such as Budget Basics, Electronic PDQs, Serving People from Other Cultures, Endowments, Contracts 101, Kronos and Stress Management for administrative staff and faculty. These sessions have not only been a valuable information source but also have made the staff of MCMFSS visible to those to whom we provide services. The goal has been to maintain an interactive, informal atmosphere.
- Hosted various social functions on behalf of the Medical Center to enhance congeniality among staff of the Medical Center, University and community. This year these gatherings included a dunking booth and balloon toss competition. These gatherings are well received because they offer a casual, relaxed and fun atmosphere. We normally host approximately 500 individuals at each function.
- Completed the process to condense and automate the Position Description Questionnaire (PDQ) including digital signature approval. The entire UC Medical Center now uses this process.
- Continued and expanded the Medical Center Community Outreach Program which completed its fourth year of activities.
 - Held a school supply drive and donated hundreds of various supplies to children at Rothenberg, Burton and Schiel Primary Elementary Schools.
 - Collected 13,234 sets of hats and mittens (exceeding the goal of 10,000) for every child in 28 tri-state elementary schools. This year we received help on Sorting Day from the first graders at the Immaculate Heart of Mary School and Metro Bus Service signed on as well to help deliver the items to the schools.
 - The Community Outreach program was instrumental in increasing the number of blood drives and volunteers for the Hoxworth Blood Center.
 - Individuals associated with Community Outreach participated in a variety of other activities that benefits underprivileged families and children in our community.
- Implemented Kronos and conducted the training for this new electronic time and attendance software (replacing manual time reporting) for all bi-weekly employees throughout the Medical Center.
- Formed a partnership with AIT&L to automate the Personnel Action Form (PAF). The process allows users to create and modify PAFs electronically, sign them with a digital signature, and electronically send the completed PAF to Human Resources for processing. This application is now used Medical Center wide and by some West Campus departments as well.

- Partnered with University Human Resources to begin developing and implementing a broadbanding type compensation structure for fiscal positions.
- Participated in the CUFS replacement focus groups. The steering committee identified areas of financial focus such as Accounts Payable, Student Billing, Accounts Receivable, Endowments, General Ledger, Budget and Position Control, and Grants. Involvement in these focus groups involved developing an RFP, vendor presentations, voting rights and will ultimately influence the choosing of the appropriate vendor to replace the University's existing CUFS financial system.
- Continued to develop and implement the Millennium Plan targeted at the growth of the research programs at the UC Medical Center and expected to attract 200 top researchers throughout the country.
- Produced the second Community Outreach Program Annual Report spotlighting the activities and purpose of the program. The annual report was distributed throughout the university and our local community
- Developed an electronic process for NIH Grant preparation. This was designed and tested in 2002 and will be implemented in 2003.

Office of Development and Alumni Affairs

The past year saw a number of exciting developments in the areas of fundraising and alumni affairs at the Medical Center. Several new staff members were hired to focus on specific program areas. These individuals are: Michael Zenz, Senior Development Officer; Kim Francis, Development Officer, Neuroscience Institute; Linda Karr, Development Officer, Cancer Programs, Gina Weitzel, Director of Development, College of Pharmacy, who also provides assistance to the College of Allied Health Sciences; and Maggie Brennan, Associate Development Officer.

A number of significant gifts were received to support various programs at the Medical Center. A list of key donations of \$100,000 or more includes:

- Oliver and Virgilee Waddell donated \$5 million to create the Waddell Center for Multiple Sclerosis. Their gift will bring neurologists who focus on MS to Cincinnati. These MS specialists will offer direct care to patients, provide advice and support to other physicians who see MS patients, and compete for federal funds that support clinical trials aimed at improving patients' quality of life.
- Anne and James Bever donated \$1 million to establish the Helen Stemen Ruder Fund for neuroscience research. The fund is named in memory of Mrs. Bever's mother.
- Dr. and Mrs. Henry Neale donated \$750,000 to establish The Henry W. and Margaret C. Neale Endowment in Plastic and Reconstructive Surgery. This fund will ultimately be an endowed chair to support education and research in the Division of Plastic Surgery.
- The Ohio Board of Regents committed their support of basic research by contributing \$742,857 to the Ohio Eminent Scholar in Structural Biology and \$742,857 to the Ohio Eminent Scholar in Developmental Neurobiology.
- The College of Nursing secured an annual commitment in excess of \$600,000 from University Hospital to support the cooperative education program, student scholarships as well as support of the College's departmental program needs.

- The College of Medicine received \$500,000 as an endowment from the Estate of Robert Felter to establish the Robert A. and Helen H. Felter Scholarship Fund to provide scholarship support for medical students.
- The Joseph J. Schott Foundation donated \$325,000 to The John M. Tew, Jr. M.D. Chair in Neurosurgery. The University of Cincinnati initiated a campaign to endow a chair in Dr. Tew's name honoring his thirty-three years of service to this university and community. This effort will in perpetuity, remember the dedication and commitment of John Tew and will help to continue his legacy at the College of Medicine.
- The Harold C Schott Foundation donated \$295,000 to The John M. Tew, Jr. M.D. Chair in Neurosurgery.
- The John J. Hutton, M.D. Lectureship in Ethics Fund took a great step toward becoming an endowed chair when the former Dean of the College of Medicine's son and daughter-in-law, John S. Hutton, M.D. and Sandra Gross pledged \$250,000 toward this most worthwhile effort. In addition, Sandra's mother, Mrs. Barbara Gross pledged \$100,000 to support the Hutton Fund.
- The campaign to raise \$2.5 million for the new Interventional Technology Training Center within the Department of Surgery began this year with an in-kind gift valued at \$185,000 million from the Stryker Corporation. Upon the Center's completion in spring of 2004, surgical trainees and practicing surgeons will begin learning invasive procedures using various state-of-the-art models.
- This past year, Orthopedic Surgeon, Frank R. Noyes, M.D. contributed \$169,860 in support of Biomechanics. Of this amount, \$134,100 was donated to the Noyes-Giannestras Biomechanics Fund and the remainder was used to support the Biomechanics Gift Fund.
- Procter & Gamble Pharmaceuticals made a contribution of \$150,000 to the Microbiology Research Fund. This fund will support education within the Department of Microbiology and Molecular Genetics.
- Dr. and Mrs. Bernard Aron committed \$128,426 to the Chair bearing his name. This fund will benefit research in radiological oncology.
- University Family Physicians pledged \$125,000 to The Robert and Myfanwy Smith Chair in Family Medicine.
- The campaign to increase the number of scholarships available to medical students was assisted with a pledge of \$125,000 from University Emergency Physicians and a \$100,000 pledge from the University Radiology Fund of Cincinnati. These important gifts allow the College of Medicine to be competitive in the recruitment and retention of the best and brightest medical students.
- Betty Klinedinst donated \$100,000 to The John M. Tew, Jr. M.D. Chair in Neurosurgery.
- David W. Warner contributed \$100,000 to support the Department of Ophthalmology's Quest for Vision Fund.
- The Children's Hospital Research Foundation provided \$100,000 in support of the M.D./Ph.D. Education Fund program. This important initiative is part of the Children's Hospital Research Foundation's four-year commitment to the Physician Scientist Training Program at the College of Medicine.
- The Office of Development and Alumni Affairs was also involved in a number of successful events, several of which are highlighted below:

- The College of Nursing celebrated the 10th annual Florence Nightingale Awards for Nursing in 2002. Since its inception, recognition has been given to over 160 RN award winners and finalists who have demonstrated excellence in direct patient care. Now hosting over 800 guests, the Florence Nightingale Awards is among the largest community events sponsored by the University of Cincinnati and is the premier setting for honoring nurses in the region.
- There was a lot to “Think Pink” about on September 18, 2002 while over \$70,000 was raised for breast cancer research at The Barrett Cancer Center. The luncheon served as the start to a charity-driven shopping weekend at Saks Fifth Avenue. Saks donated 2 % of Cincinnati sales from September 18- 21 to The Barrett Cancer Center as part of its Fashion Targets Breast Cancer national campaign.
- The “Think Pink” luncheon was held at the Hyatt Regency Cincinnati. Guests for the program were Laura Pulfer, writer for the Cincinnati Enquirer, Cecilia Fenoglio-Preiser, MD, director of The Barrett Cancer Center and Ina Levinson, Saks Fifth Avenue. Mary Mahoney, MD, radiologist and Elizabeth Shaughnessy, MD, surgical oncologist served as guest speakers. They spoke of the recent breakthroughs in breast cancer diagnosis and treatment and the services that are available at The Barrett Cancer Center.
- Over 500 women attended the luncheon and afternoon of shopping at Saks. There were special events held throughout the store, including a champagne and dessert reception and a private shopping party. Eileen Barrett, event chair, was extremely pleased with the turn out. “So many people contributed their time and talents in order to make this event such a success,” said Barrett. “I would like to thank everyone involved, especially the hostesses, who showed such tremendous support for breast cancer research. “Think Pink” would not have been possible without you!”
- All of the proceeds from “Think Pink” go to support breast cancer research at The Barrett Cancer Center. “The money raised from “Think Pink” provides an excellent groundwork for breast cancer research,” said Dr. Cecilia Fenoglio-Preiser, executive director of The Barrett Cancer Center. “The funds can be used in so many areas to help with a variety of projects that are currently underway. We have taken a huge step forward for breast cancer research.”
- Now in its fourth year, the UC Mini Medical College presented a once-a-week, month-long, entertaining and educational series that kept its students up-to-date with new trends in medicine. The Mini Medical College, held throughout October, was co-sponsored by the University of Cincinnati College of Medicine and the Office of Development and Alumni Affairs, through the UC Communiversities program.
- Students, who ranged from high school students through senior citizens, learned about subjects such as: End of-life care, alternative medicine, transfusion medicine, the link between hypertension and heart failure or stroke, gene therapy for cancer, the colon, viruses, bacteria and fungi, and the profound effect of sex hormones on the developing brain and reproductive organs.
- Andrew Filak, M.D., Associate Dean of Medical Education, Associate Professor of Family Medicine, served as moderator of the program. Participating faculty included: Eric J. Warm, M.D., Assistant Professor, Department of Internal Medicine; Steve Amoils, M.D., Medical Director of the Alliance Institute for Integrative Medicine; Ronald Sacher, M.D, Professor of Internal Medicine and Pathology and Director, Hoxworth Blood Center; Donald C. Harrison, M.D., Professor of Medicine, Department of Internal

Medicine, UC College of Medicine and Senior Vice President and Provost for Health affairs, UC Medical Center; Lyon L. Gleich, M.D., Professor, Department of Otolaryngology-Head and Neck Surgery; Janice Rafferty, M.D., Assistant Professor Surgery; Catharine Saelinger, Ph.D., Professor of Molecular Genetics, Biochemistry and Microbiology; and Andrew LaBarbera, Ph.D., Professor of Obstetrics and Gynecology, and Professor of Molecular and Cellular Physiology, and Director, Sexual Health.

- In October, the College of Medicine dedicated a new Endowed Chair Recognition Wall, located in the lobby of the Medical Sciences Building. Dean William J. Martin II addressed the crowd of donors, faculty, alumni and guests about the importance of endowed chairs to the growth and success of the College. Dean Martin also recognized Dr. John J. Hutton, former Dean of the College for his role in growing the number of endowed chairs. When Dr. Hutton began his deanship, the College had 24 endowed chairs. At the end of his tenure, the College had the 47 endowed chairs that are currently listed on the wall.
- Endowed chairs allow the College the resources to recruit and retain outstanding faculty. The income from these endowments provides a constant source of funding to help support the salary, teaching and research for the faculty members appointed to these chairs. At this time, there are 9 endowed chairs pending completion in the near future.

Public Relations and Communications

Public Relations and Communications supports and promotes the endeavors of the Medical Center through its various media relations and communications services. Positive coverage of Medical Center people and programs in national publications such as *The New York Times*, *The Wall Street Journal*, *The Los Angeles Times*, and *The Washington Post*, as well as local and regional news outlets, further positions the institution as a place that conducts leading-edge research, teaching and patient care in the minds of many across the nation. This past year, numerous Medical Center projects, studies and events received extensive national, regional and local press. The following highlights are not comprehensive but show the array of contributions that were recognized.

- Stephen B. Liggett, MD, director of Pulmonary Critical Care, and Lynne Wagoner, MD, director of Cardiac Care found a correlation between two gene mutations and heart disease. Their paper was published in the *New England Journal of Medicine*. Their findings were published in newspapers and on wire services across the country from the *The Los Angeles Times* and *The Seattle Times* to *The Wall Street Journal* and *The New York Times*.
- Gregg Warshaw, MD, professor and director of geriatric medicine, in the Department of Family Medicine published a JAMA paper predicting a geriatric healthcare shortage. Several newspapers, including the *Oakland Tribune*, *Boulder Daily Camera*, and *Cleveland Plain Dealer* also covered this story.
- College of Nursing researcher/assistant professor Bonnie Brehm, PhD, reported that she was surprised by the benefits of a low-carbohydrate diet. Her study showed that women lost more weight and body fat and improved their lipid profiles more on the Atkins diet than on a low-fat diet recommended by the American Heart Association. Her findings were reported on MSNBC, the CNN network, WCPO-TV, Reuters.com, *The Washington Post*, *Redbook* and *Glamour* magazines.

- Fellow obesity researchers David D'Alessio, associate professor, endocrinology, Randy Seeley, PhD, assistant professor, psychiatry and Stephen Woods, PhD, professor, psychiatry, were also quoted in local newspapers and the Associated Press about the UC obesity research and the Atkins diet. These researchers reported in a study published in *Nature Medicine* that cloned animals suffer from obesity.
- Joanna Groden, PhD, associate professor of molecular genetics and a Howard Hughes Medical Institute Investigator, had two different papers published in *Science* on the identification of genetic risk factors for Bloom syndrome and the mutant gene called the BLM gene. One of her studies was in mouse models and the other looked at a human population shown to be at high risk for colon cancer.
- The Genome Research Institute (GRI), in cooperation with Procter and Gamble Pharmaceuticals, Wright State University, Children's Hospital Research Foundation, Acero Inc., and Wright Patterson Air Force Base, received \$9 million from the biomedical Research and Technology Transfer Commission's Partnership Award program.
- The UC College of Medicine installed the first 4T MRI system in the state of Ohio. Stephen Strakowski, PhD, director of the new Center for Imaging Research, was interviewed and a photo of the huge magnet appeared on the front page of *The Cincinnati Enquirer*.
- Thomas Boat, MD, was appointed to interim provost for health affairs at the UC Medical Center following the announcement that Donald C. Harrison, MD, would retire in 2003. *The Cincinnati Enquirer* profiled Dr. Harrison and his accomplishments.
- Elizabeth King, PhD, was named dean of the UC College of Allied Health.
- UC researchers Lique Coolen, PhD, and William Truitt, PhD, reported the identification of a group of cells found in the lumbar portion of the spinal cord that generate ejaculation. Their findings appeared in *Science*.
- Researchers at The Neuroscience Institute at UC secured \$30 million in federal funds to probe the genetic underpinnings of stroke and test new therapies for acute stroke. Alec Schneider, MD, assistant professor, neurology, published a *JAMA* paper on the importance of receiving TPA treatment within three hours after a stroke begins. Reports of the study appeared in the *Los Angeles Times* and in newspapers across the country and Dr. Schneider and Joseph Broderick, MD, director of neurology, were quoted.
- Fellow stroke team members Rosie Miller, RN and Dawn Kleindorfer, MD, also appeared on a live broadcast of WMUB National Public Radio talking about the FAST ways to recognize symptoms of a stroke and call 911. The NPR broadcast had live call-in questions from listeners across the country and was Web-cast live.
- *U.S. News & World Report* recognized UC researchers when it named The University Hospital among its annual guide to "America's Best Hospitals."
- The College of Pharmacy received a \$153,000 grant from the Health Foundation of Greater Cincinnati to evaluate health outcomes and costs among Medicaid recipients enrolled in School-Based Health Center programs. UC College of Pharmacy grads led all other Ohio pharmacy schools with 100 percent of its graduates passing the state licensure examination,
- The Genome Research Institute (GRI) received \$1.7 million from the Ohio Board of Regents to enhance the medical programs at the facility. Ohio State Gov. Taft came to the flag-rising ceremony.

- UC experts were recognized for their contribution of over 1,000 answers to NetWellness, the Web-based health resource provided by UC, The Ohio State University, and Case Western Reserve University.
- The Department of Defense awarded researchers at UC and the University of Pittsburgh \$5 million to study the structure and function of native and engineered membrane transport proteins in synthetic membranes.
- UC Medical Center fights bioterrorism with critical care training of military personnel in C-STARS courses at The University Hospital as well as training medical students, firefighters, and paramedics in bioterrorism response.
- Jeff Matthews, MD, Steve Woodle, MD, Horacio Rilo, MD, and Michael Hanaway, MD, all of the Department of Surgery, announced Cincinnati's first successful islet transplantation as a new treatment for diabetes at press conference.
- William J. Martin, II, MD, was named dean of the UC College of Medicine.
- Patrick Tso, PhD, is the principal investigator of a \$6 million, five-year NIH award to fund a new Diabetes Phenotype Center. Tso said that UC is one of only four national centers funded by the NIH to investigate the role of specific genes linked to diabetes.

Medical Center Public Relations and Communications can be accessed on the Web at <http://medcenter.uc.edu/pr>.

Self-Supporting Multi-Media Services

The multi-media service center continues to upgrade skills and services to meet the needs of the Medical Center faculty, staff and students for presentations, photography and design.

Duplicating Services

This past year Medical Center Duplicating Services continued its growth into the digital reprographics arena. This was accomplished by the installation of additional departmental on-line digital copier-printers to better service their patron's high definition reprographic needs – and at the same time save university funds by migrating expensive inkjet and laser prints onto the more cost effective digital copier-printers. Also this year, MCDS has continued to increase the scope of their clientele by becoming more and more viewed as a university-wide service center.

This year has also seen continued cross training and integration of the Digital Duplicating and the Production Art staffs, creating better throughput and also better economy of scale for both areas. Duplicating Services annually produces around 25 million images throughout our reprographic system of approximately 160 units. A big focus this year was the move of the Digital Duplicating center from the Medical Sciences Building to the G-44 suite in Wherry Hall to make way for the MSB renovation project. The traditional (analog) copy center is still located in room 6351 MSB.

Art and Design Services

Last year Art & Design Services installed a second full color Wide Format Poster Printer. This was done to better meet the Medical Center's increasing demand for 4'x 8' scientific poster sessions. This service has been so successful with their patrons that this year Art & Design

Services has seen a 14% increase in wide format poster printing over last year. Also a 3% increase in overall Design and Production Services in the past year.

Some of the projects which Art & Design Services produced this past year include: the annual report for AIT&L and Community Outreach; event materials for Alumni, Dean's Office, and the Provost; consultation and production for the implementation of branding - and of course publications such as *Medical Center Findings*. A&DS also provided art services to their patrons to produce their normal output of posters, logos, flyers, charts, graphs, illustrations, brochures, and signage projects.

Art & Design has also worked on Web Page Design, creating and/or maintaining Web pages for areas such as Radiology, Allied Health Sciences' Isolated Heart Facility, and the Greater Cincinnati Pain Society.

Art and Design Services relocated this year from MSB to the G-44 suite in Wherry Hall.

Photography Services

This year Photography Services continued to provide a variety of photographic services that support the Research, Curriculum, and Clinical goals of the Medical Center. In addition to providing Research, Surgical and Clinical Photography (i.e. Dermatological Diagnostic Photography) to their Medical Center Patrons, they also provided their usual student related photographic services. This included Medical Student and IM Residents portraits, as well as student portrait composites for the Colleges of Medicine, Engineering, and the College of Applied Sciences. Photography Services has provided photography for a number of Medical Center and University brochures, such as, the AIT&L Annual Report, The College of Medicine's *Bulletin*, The Medical Center Alumni News Magazine, *Horizons*, and *UC Currents*. In addition, they have provided photography services to several non-affiliated publications, such as *MD News* and *Masters in Psychiatry*. Photography Services was also chosen as one of only four Medical Photography departments in the country to supply images to the Annual Report of the American Association of Medical Colleges.

Medical Center Photography Services has provided photographic services for a number of big events this year such as the College of Medicine Alumni Reunion, College of Nursing Reunion, the White Coat Ceremony, the Mini Medical College, the Drake Awards, the College of Nursing Nightingale Awards, the Annual Barrett Cancer Center Luncheon, Opening Events for University Point, the GRI Flag Raising Ceremonies, and special event and guest speakers at the College of Law – to name a few. They also continued their photographic support to Medical Center publications such as *Medical Center Findings*.

Digital Video Services

This past year Digital Video Services has also migrated to the G-44 suite and has continued to increase the quality of its products as well as its overall digital capabilities. Digital Video Services purchased new equipment this past year, which has enabled offering the new service of in-house DVD duplication. Medical Center Digital Video Services has also upgraded their VHS duplication bays doubling the amount of VHS dubs that can be made at one time.

This year also saw the creation of *News Talk*, a Web-based based digital video news release series that can be found on the Medical Center Web site at <http://medcenter.uc.edu/news/news.ucm>.

Digital Video Services has also enlarged its scope of clientele. Besides serving Medical Center areas, they have also provided digital videography services to other areas of the University such as the College of Engineering, the Economic Center for Research and Education, as well as University wide events such as "Celebrate UC." Another exciting project this year was the production of scoreboard video profiles featuring some of the Medical Center's most outstanding professors and researchers. These profiles were shown during the UC Men's basketball games. The first profiles were for the College of Allied Health and the College of Nursing.

Radiation Safety

The University of Cincinnati Radiation Control and Safety Program is primarily regulated by the Ohio Department of Health. The Ohio Department of Health continues with their effort to separate Ohio regulatory oversight from federal regulations. In 2002 the Ohio Department of Health began the process of establishing Ohio specific rules for the medical use of radioactive material. This process is expected to take two to three years and the University of Cincinnati Radiation Safety Officer shall be actively involved in the process as a member of the Committee designated to assist the Ohio Department of Health in drafting the rules.

The use of radioactive materials continues to be an integral part of biomedical research at the University of Cincinnati. Unlike many institutions the number of users of radioactive material and the amount of radioactive material used under the University of Cincinnati Radiation Control and Safety program is either stable or growing. The broad scope license, which applies to all uses of radioactive material at the Medical Center, was renewed in 2002. The renewal eliminated some prescriptive license requirements and provides the University of Cincinnati, through the Radiation Safety Committee, more control over the specifics of the Radiation Control and Safety Program.

The use of radiation-generating equipment, such as x-ray machines and electron microscopes, continues to increase. Though radiation-generating equipment can be purchased with little oversight, users of radiation-generating equipment are finding that the use of radiation-generating equipment is highly regulated. The regulations include strict requirements for equipment operation and training of operators.

One of the major goals of the University of Cincinnati Radiation Control and Safety program is to implement a model program based on a culture of radiation safety. Extensive training and education, along with routine surveys and audits of radioactive material usage, at least annual inspections by the Ohio Department of Health and an annual audit of the entire program by the Radiation Safety Committee helps ensure the University of Cincinnati retains a model radiation safety program. In addition, the Radiation Safety Office continues to strive to provide services and assistance to users of radiation sources that minimize regulatory impact and ensure personnel and members of the public are not unnecessarily exposed to radiation.

Office of the Provost and Senior Vice President

Office of Entrepreneurial Affairs

The Office of Entrepreneurial Affairs has continued to work toward addressing the goals that were established as part of the original strategic plan. They are as follows:

- To identify and develop resources needed to advance the commercialization of new technologies evolving from the University's research programs;
- To develop educational programs that address areas of core competencies necessary to move toward successful commercialization of technologies;
- To serve as a central point of contact for industries seeking University expertise/collaborations.
- To stimulate new industry/university and university/university collaborations;
- To develop new training programs and other resources that meet the entrepreneurial needs of the region;
- To create venues for entrepreneurial networking with key resource groups in the region;
- To increase the visibility of the University's strengths and more effectively promote the University as a regional resource for entrepreneurial activities;
- To represent the university on regional and state committees and organizations involved in advancing economic development.

Progress Made

- Continued growth and implementation of the Cincinnati SoundingBoard (collaborative effort of the University of Cincinnati, Emerging Concepts, Inc., BIO/START, Hamilton County Business Center and Arch Ventures). It provides mentoring in the refinement of business plans, coaching on effective venture capital presentations and the opportunity to present business plans and receive feedback from a panel of service providers, content experts, and investors. Is now viewed as a major regional program to facilitate new company development.
- In conjunction with the SoundingBoard partners, have developed and implemented an Investors Forum to provide a forum for networking and addressing investment issues among angel and venture capital investor groups.
- Planned and implementing an Entrepreneurial Educational Series related to company formation and commercialization of technology for faculty, staff and students. (Attracted 20-65 people, depending upon the topic and increased entrepreneurial visibility.)
- Initiated and planned a symposium with national level speakers, technology exhibits and networking opportunities, entitled "From Academic Directions to Commercial Development" (April 30, 2002). The meeting drew a capacity audience and received excellent feedback.
- Initiated and am leading the planning for an annual regional conference for life sciences/biotechnology and its economic implications. Partners brought together are: the University of Cincinnati, University of Kentucky, University of Louisville, Greater Cincinnati Chamber of Commerce, BIO/START, Lexington United, Greater Louisville Health Enterprise, and Kentucky's Office of the New Economy. The first conference will be March 2003 and already has a significant number of sponsors.

- Establish an “Entrepreneur of the Year Award” with support from the two senior vice president and provost offices, vice president for research and graduate education office and the College of Business.
- Participated in entrepreneurial network opportunities, including CincyTechUSA’s subcommittees, Community COMPASS – Hamilton County Regional Planning Commission, the Small Business Collaboratory, Great Midwest Capital Conference, and the boards of BIO/START and Emerging Concepts, Inc. Established a strong working relationship with the Colleges of Business Administration and Engineering.
- Worked with the Greater Cincinnati Venture Association in the planning of one of their monthly forums.
- Serve as Deputy to Technology Action Fund, ODOD
- Currently coordinating efforts between College of Allied Health and Department of Psychiatry to explore the potential for establishing a Center for Orthotics and Prosthetics
- In process of working with the College of Medicine Graduate Program and the College of Business Administration to develop a dual MBA/MS in Biotechnology
- Organized three separate introductory/networking forums with Sankyo Pharmaceutical, Battelle and GMP
- Member of planning committee for a one-day conference on “Accelerating Product Development, Productivity and Profitability for the Entrepreneurial Company.” Jointly planned by the Office of Entrepreneurial Affairs; Colleges of Engineering, Medicine, Business Administration; EMTEC; and ODOD.
- Member of Search Committee for two faculty members in the Department of Biomedical Engineering.
- Member of Millennium Branding Strategic Planning Committee

Other Activities

Workshop Presentations:

- Panel presenter on “Getting Down to Business.” Cincinnati Cable Network Program Hosted by Randy Welker
- “Management Strategies for Working with Difficult People,” Quality Assurance Program Educational Series, University of Cincinnati
- “Leadership: Strategies for Bringing Out the Best in Others,” Managerial Advancement Program, University of Cincinnati
- “Do you need to have a title to lead?” Office of Admissions and Student Support Staff, Northern Kentucky University
- “Entrepreneurship: New Directions for Universities,” Women’s Leadership Program, University of Cincinnati

Grants

- OBR Grant for “Students on the Move,” member of Distributive Learning Collaboratory which submitted the grant. (Grant Awarded)
- Kauffman Foundation Grant “Expanding Entrepreneurial Education at the University of Cincinnati: Forming Cross-Collaborative Student Ventures.” Charles H. Matthews, Ph.D.- PI, and Dorothy H. Air, Ph.D. - Co-PI. \$50,000 (Grant Awarded, January 2003)
- NSF Grant for “Cincinnati Creates Companies,” Led proposal development and was

primary author of grant; submitted as a collaborative effort of UC (Colleges of Engineering and Business Administration, and Office of Senior Vice President and Provost), BIO/START, ECI, Greater Cincinnati Chamber of Commerce, and Hamilton County Business Center (*Grant received a rating of "Highly Recommend for Funding" and is currently pending the new budget. If additional funding is available, NSF plans to fund proposal. Coleman Foundation has also expressed serious interest in the proposal*) Grant is for \$600,000

Goals for 2002-2003

- Implementation of "Cincinnati Creates Companies" grant proposal (assuming funding is awarded)
- Web site. Development of Web site to showcase entrepreneurial activity and provide educational information/presentations to faculty and the community. Will work with AIT&L to seek grant support
- Funding. Exploring possibilities to develop a funding source for proof of concept/validation activities
- Planning of 2004 Annual Conference for Life Sciences
- Exploration and possible development of a multi-institutional conference based upon engineering and other technologies in the university (Similar to OVALS conference)
- Infrastructure. Exploration and development of processes and systems (virtual or real) to coordinate and promote entrepreneurial growth in the University
- Development of a 2002-2003 Entrepreneurial Educational Series
- Development of a Cincinnati Commercialization Consortium. The purpose is to formalize relationships among key resource groups to provide seamless integrated services for commercialization of technologies, including identifying market opportunities, defining optimum commercialization pathways and connecting and leveraging resources to achieve successful economic results.

Office of Health Affairs

In the past year the Office of Health Affairs has continued with strategic planning efforts for the Millennium Plan. The University of Cincinnati embarked on the program entitled Planning for the Millennium in 1999. The focus of this plan is to be a national leader in patient care, research, and education, consistent with the missions of the colleges on the medical campus of the University of Cincinnati. If this plan is successful, it will further build the national reputation and prestige of the University of Cincinnati. It will also provide the basis in which UC biomedical research plays a leading role in the economic development of Greater Cincinnati and Southwest Ohio.

The goals of the Millennium Plan are:

- Double externally-funded research by 2006
- Substantially expand state-of-the-art research space
- Create a Research Institute linked with industry
- Recruit or develop internationally recognized researchers/clinicians, 200 at UCMC and 60 at CHMC who are funded competitively

- Strengthen or establish research cores to enable researchers to use state-of-the-art technologies
- Increase our ability to recruit outstanding graduate students and post-doctoral fellows
- Become a model for the entire UC Campus
- Become the major Midwest research center in biomedicine
- Advance the biomedical industry in Cincinnati by commercialization of research findings

Accomplishments in several areas of the Millennium Plan are addressed by the Office for Medical Center Planning, the Office of Entrepreneurial Affairs and the Office of Sponsored Programs in their reports. In addition, the following has been achieved in the past year:

- Extramural funding has increased over 16% in the past year. Recruitment of new faculty continues. New deans were recruited for the College of Medicine and the College of Allied Health Sciences.
- A financial model to support the Millennium Plan has been negotiated with the university. Redistribution of indirect costs from current grant support has been approved by the Board of Trustees of the University of Cincinnati.
- Several new task forces were formed to address recruitment under the Millennium Plan. One committee was charged with identifying areas in which to focus recruitment to synergize with current research programs. In addition, areas where we lack expertise will be identified and determined whether these should be areas of strategic planning. Core programs are the focus of another task force.
- The Diabetes Task Force continued with their strategic planning. The goal of this task force is to design a clinical center for the treatment of diabetes that will promote clinical and basic science research initiatives. Clinical space has been identified and financial commitments have been formalized. Fund raising initiatives are now the focus of the task force.
- A new task force has been formed to investigate the feasibility and support for a Masters in Public Health degree program. Presently many faculty and fellows obtain this degree from other universities; in many cases we have lost these individuals to other institutions.
- Two joint symposia have been held with Procter & Gamble in the past year with over 100 people from UC, Cincinnati Children's Hospital and Procter & Gamble in attendance. In March the meeting was held at the Cincinnati Children's Hospital Medical Center and focused on Diabetes and Obesity, while the second symposium at P & G Pharmaceuticals focused on Cardiovascular Disease. The goal of these meetings is to promote scientific interactions.
- Efforts continue to better integrate with West Campus initiatives.

Office for Medical Center Planning

Physical Plant

The office manages three major physical plant projects currently under development:

- The opening of the Medical Center's new Reading campus, the Genome Research Institute (GRI).
- Planning of Facilities for Millennium growth.

- Start of construction of the MSB/Center for Academic Research and Education (CARE) project and renovation of the MSB.

Genome Research Institute

The GRI campus, 360,000 gross square feet of wet laboratory and office space in Reading, Ohio, will open in this year housing the College of Medicine departments of Genome Sciences, Pathology and Laboratory Medicine, and Psychiatry. In addition to these departments, Procter & Gamble will also have research laboratories on site. The GRI campus will foster the commercialization of the University's biomedical research efforts. While the construction of the laboratory and office facilities is near completion, the construction of a new power plant is presently under design and will start construction this year. In addition, the planning office participated with the Department of Genome Sciences in preparing a Wright Center proposal for the renovation of Building 25 to house the Center for Advanced Cell Technologies.

MSB/CARE Project

The MSB/CARE Project is one of the largest of UC's construction projects. It includes the renovation of the Medical Sciences Building's infrastructure, and the construction of a new laboratory building—CARE—will start construction in the Fall of 2003. The project is necessary to ensure that the MSB can continue to meet the research and academic functions of the East Campus and the Millennium growth. All of the MSB building systems—electrical, plumbing, telecommunications, and HVAC—are in need of upgrading or replacement if the building is to continue to function as a research facility. This past year the final construction drawings and relocation plans for swing space were finalized for Phase I construction of the project. The funding for the project was approved by UC Board in November, and the project will be bid this spring.

The project is divided into three phases. The first phase of construction will involve vacating the west half of levels R-2 and assorted smaller spaces on the upper floors of the MSB. Therefore, during the spring and summer departments located in these areas will be consolidated or relocated to temporary space. The largest departments that will need to be relocated for Phase I will be the Health Sciences Library, Emergency Medicine, Surgery, Pathology and Molecular Genetics. Programming efforts are under way to identify swing space for these departments so that they can be relocated before October 2003.

A project Web site has been developed (www.msb.uc.edu) that will have schedule and project information, along with a search engine that can be used to find departments that have been relocated. The site will also have renderings of the new facilities along with floor plans that will identify areas under construction.

It is projected that Phase I of construction should be completed by 2006. With the completion of Phase I, the Medical Center will have a new Health Sciences Library, new teaching laboratories for the College of Medicine, and new fitness and dining facilities, in addition to 71,000 nsf of new wet laboratory space in the CARE facility.

The second phase of construction includes the north portions of the MSB floors 3-7 and the third Phase of construction includes the south portions of the building floors 3-7. Phase II is expected

to start 2006 and be completed in 2008, and Phase III is expected to start in 2008 and be completed in 2009.

Since the site of the CARE facility is where the Medical Sciences Building garage is currently located, the garage is scheduled to be demolished in April 2003. Several years ago the garage was assessed and it was determined that it would need extensive renovations to remain operational. It was decided at that time to close the top two decks of the facility while a new addition to the Eden Avenue garage was constructed. In addition to the Eden Avenue addition, University Hospital will be opening its new garage and relocating 1500 decals out of the Eden Garage to their parking system. This will free up the parking needed in the Eden Garage to accommodate all of the MSB parkers. Therefore, in March all of the MSB parkers will be relocated to the Eden Avenue garage.

Other Capital Projects

In addition to these three large projects, this office is currently programming, budgeting, and monitoring approximately \$12 million dollars of construction. These projects include the construction of the new NMR imaging suite, renovation and creation of new classrooms and teaching space for the Colleges of Medicine and Pharmacy, the renovation of the Surgical Research Unit (SRU) for the Department of Surgery, creation of research space for the College of Nursing, and the construction of a new Vontz animal facility.

Funding Efforts

In addition to securing space for these new initiatives, the Planning Office continues to seek funding for projects. Much time and effort was spent this year securing federal and state funding for the MSB/CARE Project, and the need for this continues. The Planning Office, working with the College of Medicine departments, continues to apply for state and federal infrastructure grants, i.e., the Wright Center, Hayes and National Center for Research Resources. Planning continues to work with the University Architect's Office to develop the University's capital budget and the allocation of basic renovation funding.

Other Planning Efforts

This year the Planning Office, in conjunction with the other colleges of medicine in the state of Ohio, will update the Medical Center's economic impact statement. In 1999, the Medical Center's economic impact was \$3.5 billion for the Tri-state. It is expected that with the growth in research funding and increase in patients this number should be greater for 2002. Because all of the state's medical schools will be represented in the study, this will also be an excellent lobbying tool.

The Planning Office continues to work with the University's Office of Space Management to insure that the space data on the East Campus is accurate. There have also been efforts this year to insure that all departments that need space information are integrated with the existing system. Currently Key Control, IACCU, Telecommunications, and Chemical Inventory are using the system.

Office of Continuing Medical Education

The Office of Continuing Medical Education registered over 30,000 participants in its programs during 2002. This includes 25,000 physicians and 5,000 non-physicians who attended one or more activities. In addition, the Health and Safety program offered 100 open-enrollment courses that trained 2,800 health and safety professionals.

We expanded our enduring programs to 35 journal-based and online CME activities. Some of these CME-certified activities have had more than 1,600 physician participants. We are working with a new journal, *Current Psychiatry*, edited by Dr. Randy Hillard, to provide CME credit for special articles that appear monthly.

After several years of hard work the Office of CME has successfully negotiated an arrangement with the university and an outside vendor to accept online credit card payment for registration fees for continuing medical education activities. This new service allows physicians to find courses of interest on the UC CME Web page and to complete their registration and payment while on-line.

Both Drs. Kues and Jarrell have been heavily involved in the development of online training courses. Online training currently exists for blood borne pathogens, research training, and HIPAA. These offerings will be expanding this year and we will be adding CME credit for these courses that will also be available over the Internet.

Dr. Judy Jarrell succeeded in making the University of Cincinnati the lead center in a regional consortium of OSHA training centers. The consortium is the primary source of OSHA-required training in a five state area. This consortium is one of the national leaders in developing distance education programs for OSHA training.

Dr. Jack Kues became president of the Society for Academic Continuing Medical Education in April 2002 and will serve in that office until April 2003. He has been working closely with the Accreditation Council for Continuing Medical Education (ACCME) and the American Medical Association's Council on Medical Education to address issues related to new directions for continuing medical education and standards for commercial support of continuing medical education.

Distributive Learning Collaboratory

The Collaboratory was been very active last year. Our major project was the continuation of the Ohio Board of Regents Technology Initiative grant entitled *Students on the Move*. PDA and Web-based applications were put into operation for students' evaluations of courses and evaluation of students by faculty. We are continuing to work with *ArcStream Solutions* to develop an additional application for monitoring required clinical procedures by health professions students.

The Collaboratory increased its activities in the area of online training during 2002. Building on the online training module for blood borne pathogens, which logged over 2000 users last year,

the Collaboratory worked with Linda Harpster and the IRB to write an NIH grant to develop online research training modules. The grant, awarded in September for \$150,000, provided funds to develop four additional online training courses. The Collaboratory also began work on HIPAA online training and will be releasing online training for basic HIPAA compliance in early March 2003. Bill Fant and other Collaboratory members have been working with Rosiene Weaver at UC Physicians to develop additional HIPAA training modules. As a result of the rapid development of online training courses, the Collaboratory has been working with AIT&L to create a new Web site for quick access to these resources. <http://ecourses.uc.edu> currently houses the new HIPAA training course and will soon include blood borne pathogens, NIH required research training, and other online training modules.

The blood borne pathogens and training/tracking projects, jointly developed by the Collaboratory and AIT&L, were recognized nationally by the AAMC Group on Information Resources (GIR). The blood borne pathogens is being tested nationally to examine the feasibility of offering our online blood borne pathogens training program to faculty and students at other medical schools.

The Collaboratory was a major partner in the development and writing of the IAIMS grant application submitted to the National Library of Medicine. Much of the Student Portfolio project of that grant application came directly from Collaboratory work done previously as part of Ohio Board of Regents Technology Initiative grants.