new bridges to DISCOVERY

CENTER FOR ACADEMIC AND RESEARCH EXCELLENCE (CARE)/CRAWLEY BUILDING
“WHERE THERE IS AN OPEN MIND, THERE WILL ALWAYS BE A FRONTIER.”

Charles F. Kettering

American industrialist and namesake of the university's Kettering Laboratory of Applied Physiology, dedicated in 1930
Over the past four years, I have watched a prime location along the University of Cincinnati’s scientific corridor undergo a transformation into a home for some of the most technically advanced laboratory research in the nation. For a major research university defined by ambitious goals, the CARE/Crawley Building makes an impressive gateway to our medical campus.

Connected to the Medical Sciences Building by a nine-story atrium, the CARE/Crawley Building adds laboratory and teaching space for graduate students, faculty and researchers, providing additional opportunities for innovation in a state-of-the-art environment with a high degree of flexibility.

It’s truly a place to foster partnerships and grow our research excellence.

Additionally, the CARE/Crawley Building provides important new spaces that will help us to live up to our UC|21 aspiration to “place students at the center”—with a fitness center, multiple meeting areas and group study rooms, all providing more opportunities for students to interact and exchange knowledge outside the laboratory.

The building also features a new home for our distinguished health sciences library, now known as the Donald C. Harrison Health Sciences Library in honor of the former senior vice president and provost for health affairs.

I know you join me in welcoming this signature research and teaching facility to a campus that is constantly developing new frontiers in scientific research.

Countless visitors to the University of Cincinnati have commented on the striking appearance of the CARE/Crawley Building. To me, in addition to being a distinctive architectural work, it’s a building filled with possibilities. As a key component of the comprehensive renovation and expansion of the Medical Sciences Building, it will house some of the most sophisticated laboratory research and teaching space in the nation.

Standing as a highly visible gateway to the medical campus, it will be a place of opportunity for innovations in scientific discovery and education. It also dramatically increases opportunities for collaboration, with areas where scientists and students can interact outside the lab or classroom.

The building brings together more than 20 departments and almost 3,000 students, faculty and staff in the highest quality research and learning environment. With the opening of the CARE/Crawley Building, UC is poised to further enhance and improve the quality of health in a world-class setting.

It was a fascination with building programs at academic medical centers that led me into administration. As a researcher and an administrator, watching the CARE/Crawley Building go up has been among the most rewarding experiences of my tenure at UC. It ensures that the university will remain a leader in the medical and scientific community.

With the help of a generous gift from the estate of Edith J. Crawley, what began as a vision at the start of the 21st century has become a reality. I offer my thanks to Mrs. Crawley and to everyone involved in the planning and construction of the building that bears her name.
**THE CARE/CRAWLEY BUILDING** is about collaboration in a setting where scientists and students can interact outside the lab or classroom and exchange knowledge. The striking exterior design encourages innovation, inspiring students and faculty toward new approaches in research. Meanwhile, the nine-story atrium bathes the interior in natural light, radiating warmth and openness. With this new addition, UC boasts an ideal setting for its researchers, educators and clinicians as they seek answers to the health-related problems facing us today.

**Literal and figurative bridges link present-day research power to state-of-the-art laboratories—**

**A CAMPUS TRANSFORMATION promising an exciting future for health and medical innovation.**

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**Building Details**
- Exterior materials include brick, zinc panels, glass and aluminum curtain wall
- Connects to the existing Medical Sciences Building in a full height, glass-sided, nine-story atrium, spanned by seven glass bridges
- Contains six floors of open bench laboratory space with conference rooms and ancillary support areas
- Includes 44,872 square feet of completely updated library space
- Total building cost: $135 million
- Provides improved service and support areas such as dining area, fitness center and bookstore
- Creates an open, urban-like setting to encourage interactivity and a sense of collegial community
- Ground floor ‘study huts’ create quiet enclosed spaces for meetings, discussions or study within the activity of the atrium
- Glass bridges designed to withstand 800 pounds of pressure per square inch
SUCCESSFUL MEDICAL RESEARCH hinges on the ability to translate findings into the most advanced patient care. UC has a long history of translating findings into better treatments—from the development of the first treatment for acute stroke, to the discovery of a protein and subsequent therapeutic vital for lung development in infants. It was expert patient care at UC that led Cincinnati native Edith J. Crawley to invest in the education and research mission at the university. Her forward-thinking gift supports the creation of a research center for eye disease in older adults and a scholarship fund for students, residents and fellows involved in vision research.

The CARE/Crawley Building serves as a cornerstone for the TRANSLATIONAL RESEARCH happening at UC.

Edith J. Crawley

Edith J. Crawley, a native of Cincinnati who earned bachelor’s and law degrees from UC, died at 92 in 2003 after a long career as a teacher and administrator with the Muncie, Indiana, school system.

- The sale of more than 2,000 acres of farmland near Greensburg, Indiana, supported her bequest of $12 million to the university, where she had been successfully treated for vision problems by Joel Sacks, MD, former chairman of the Department of Ophthalmology.
- Half of the money went toward a wing in her name in the CARE/Crawley Building and for the Edith J. Crawley Vision Science Research Laboratory for eye disease in older adults.
- The remainder will establish a scholarship fund in her name for medical students, fellows, residents and other professionals involved in eye research.
History of Innovation

- First Heart-Lung Machine
  In 1951, cardiologist Samuel Kaplan, MD, chemist Leland Clark, PhD, and surgery professor James Helmsworth, MD, developed the world’s first functional heart-lung machine, located at Cincinnati Children’s Hospital Medical Center.

- First Live, Attenuated Polio Vaccine
  Albert B. Sabin, MD, developed the first live, attenuated polio vaccine, working on the project both at UC and the affiliated Cincinnati Children’s Hospital Medical Center. Approved for use in the United States in the late 1960s, the vaccine has saved untold millions around the world from paralytic polio and death.

- Development of Benadryl
  The popular antihistamine marketed as Benadryl was developed at UC by the late professor George Rieveschl, PhD.

- First YAG Laser Used
  In 1984, neurosurgery professor John Tew, MD, was the country’s first surgeon to receive FDA approval to use the YAG laser to vaporize previously inoperable brain tumors.

- Cancer Gene Discoveries
  In 1995, UC researchers isolated a gene that leads to an increased risk of colon cancer, which may lead to understanding how people inherit a predisposition to the disease.

INNOVATIVE LABORATORY research has set the university on the path to grow its research excellence and improve the lives and health of people in our community—local and global. Studies in neuroscience and cancer, cardiovascular disease and metabolic disorders have become the focus of the College of Medicine and researchers are working hard to develop strategies to address critical needs in these fields. UC’s rich scientific history serves as a reminder to today’s scientists that possibilities are endless when collaboration and creativity abound.

The CARE/Crawley Building signals to the world that UC will continue to be a PLACE FOR DISCOVERY into the 21st century.
Placing students at the center is the mission of UC’s ambitious academic plan. Newly designed pathology teaching labs and a completely renovated health sciences library have been created to do just that. The Donald C. Harrison Health Sciences Library—also home to the Center for the History of the Health Professions, a showcase of Cincinnati’s medical history—will serve the research needs of the students, faculty, staff and others at the colleges of medicine, nursing, pharmacy and allied health sciences, as well as our teaching partner, University Hospital.

New teaching spaces and an updated library show UC’s commitment to training the next generation of researchers and clinicians.

Donald C. Harrison Health Sciences Library of University Libraries

- Named for Donald Harrison, MD, senior vice president and provost for health affairs, 1986-2002, whose $1 million gift supported the renovation of the library
- 44,872 square feet
- 90-seat computer lab
- Over 200,000 print volumes on site
- Over 600 online databases
- 60,000 electronic journals
- 392,000 e-books
- Notable collections include the Robert C. Rothenberg Collection for the Leisurely Enjoyment of the Grandeur of Medicine and the Jean W. Rothenberg Collection for Speech and Communication Disorders.

Center for the History of the Health Professions

- Archives of more than 60 prominent researchers
- Offers over 35,000 rare and classical works in the history of medicine, including the largest medical book ever published, Paolo Mascagni’s Anatomiae Universal Icones
- Houses over 2,000 medical artifacts, including Civil War field surgery kits, an iron lung and the Cantagalli jars, which replicate a 15th-century Italian pharmacy
- Features the Stanley J. Lucas, MD, Board Room, providing key conference and exhibit space, made possible with the generosity of Judy S. Lucas and her family
THE NEWEST BUILDING on the medical campus may also be one of the “greenest” science buildings in the nation. The CARE/Crawley Building was designed with sustainability in mind, from its overall design to the materials and methods used in its construction. The building is designed to achieve a LEED (Leadership in Energy and Environmental Design) Silver Rating from the U.S. Green Building Council, a nonprofit organization committed to sustainable building practices. That will be a significant accomplishment for a laboratory research building, which by its primary function is energy intensive.

Green spaces give way to green ideas in this ENVIRONMENTALLY FRIENDLY SHOWPLACE —indoors and out.

Sustainability Highlights

- An underground 90,000-gallon stormwater detention system was installed to collect rainfall and thus reduce strain on the municipal sewer system
- All landscape irrigation is provided by collected rainwater from the detention system
- Heat retaining hardscape, such as sidewalks and plazas, was minimized
- Reflective roofing materials help minimize the building’s heat absorption
- Nearly 98 percent of the construction-related waste was recycled
- 77% of all materials used on the project were assembled within a 500-mile radius (the LEED threshold for Regionally Manufactured Materials)

Significant items from Ohio include:
- All structural steel
- All interior paint
- All metal wall studs
- All aluminum window frames
- All brick panels, including the two main architectural features on the front
INNOVATIVE RESOURCES and cutting-edge technologies coupled with the university’s world-class

The CARE/Crawley Building is the latest campus addition designed to
FOSTER COLLABORATION among corporate and community partners.

University of Cincinnati
- Classified as a university with “very high research activity” by the Carnegie Commission
- Ranked by the National Science Foundation as one of America’s top public universities for federal research expenditures
- Recognized by the Ohio Board of Regents with funding for 12 Eminent Scholars faculty appointments
- Significantly invested in cooperative education (“co-op”) and real-world experiential learning opportunities
- An engaged member of the Greater Cincinnati region and connected to its vibrant and diverse civic and business communities
- Promoting intellectual property/technology transfer
- Played a major role in re-missioning of CincyTech, an organization designed to accelerate the growth of start-up technology businesses in Southwest Ohio
- Jointly organized SoundingBoard, a regional entrepreneurial education and support initiative
- Numerous interdisciplinary programs and research efforts already established on campus

investigators make UC a preferred partner for many other academic institutions, government agencies, health care providers and large and small companies. Indeed, UC has seen a steady climb of research support from a broad range of funding agencies and has grown its support from industry by more than 50 percent in just two years. It’s these relationships that lead to creative thinking and the spirit of entrepreneurialism becoming more commonplace in an academic setting.
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CRAWLEY BUILDING
UC21: Defining the New Urban Research University is UC’s strategic plan for charting its academic course for the 21st century. It lays out an ambitious set of goals and actions to define the role of the new urban research university in this dynamic new century, both by building on our capacity to serve and to lead.

GOAL 1: Place Students at the Center
Become a university of choice, a destination campus, by keeping students at our core.

GOAL 2: Grow Our Research Excellence
Build on UC’s greatness as a major research university to benefit society, have meaningful economic impact and enhance the quality of life for all.

GOAL 3: Achieve Academic Excellence
Encourage an environment of high-quality learning and world-renowned scholarship.

GOAL 4: Forge Key Relationships and Partnerships
Establish and nurture relationships and partnerships, with our colleagues within the university and with local and global communities. UC21 underscores a true commitment to community engagement.

GOAL 5: Establish a Sense of “Place”
Develop an environment where members of the campus community and the community at large want to spend time—learning, living, playing and staying; provide long-term support to build a better Uptown.

GOAL 6: Create Opportunity
Develop potential, not just in our students, but in our local and global communities.