

2009–2010  
Annual Report

**University of Rochester**



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## Message from the President

Five years ago, in my inaugural address as president, I emphasized that “We are one university,” bound together by a commitment to four fundamental values: academic excellence, academic freedom, diversity, and community.

In the past year, we have honored each of those values and driven the University forward toward implementation of our strategic plans.

In 2009, we welcomed the Class of 2013, a class drawn from a record number of applications. Early-decision applications were up by 25 percent. We saw progress not only in the number of applications, but also in measures of quality and diversity.

The vitality of our faculty’s research and teaching underlies the University’s overall success. As you will see in these pages, faculty in 2009–10 produced groundbreaking research and transforming ideas, earned honors from some of the most prestigious academic organizations, and guided students in their own stellar academic achievements. Seven Rochester students last year won Fulbright Student Program Scholarships, and two students were named Goldwater Scholars.

In this impressive year for our University, the nation’s economy has continued to suffer its longest and most painful post–World War II recession. All divisions of the University have economized during this challenging period. These sober circumstances make the support of our alumni and friends all the more precious. Record giving to the Annual Fund and the vibrant growth of the George Eastman Circle attest not just to your generosity, but also to the power of our shared vision for this University.

I believe in the paramount significance of the research university as the decisive social institution of our time. We are the teachers of the next generation of leaders. In our laboratories, we cure diseases and will discover new sources of energy; in our classrooms and professors’ offices, we develop new paradigms for the social sciences, the humanities, and the fields of our professional schools; in our hospitals, we tend to the welfare of vast regions; and in our performance halls, our libraries, and our galleries, we transmit the riches of human culture.

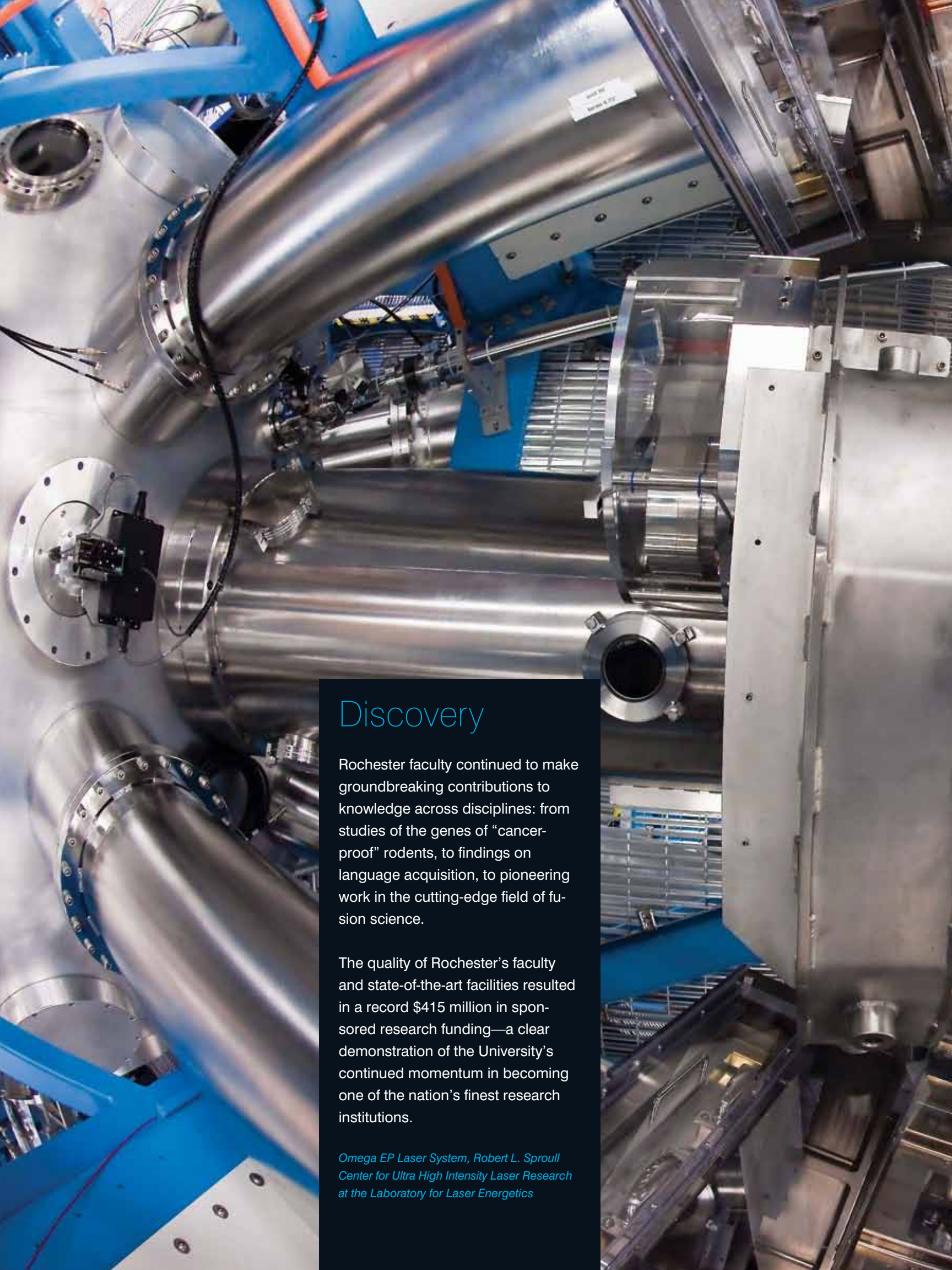
Our future fills me with optimism. *Meliora!*

Joel Seligman









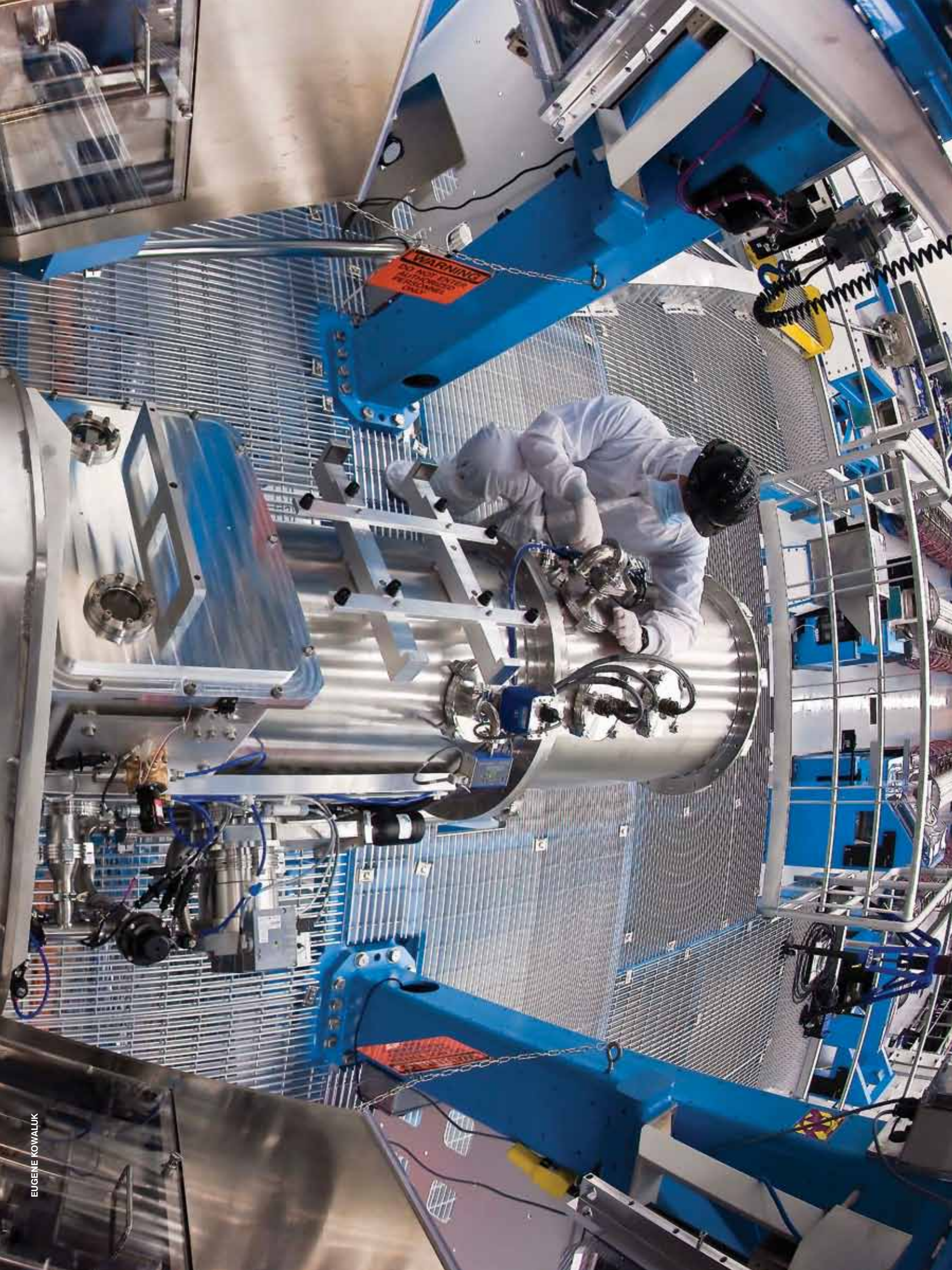
## Discovery

Rochester faculty continued to make groundbreaking contributions to knowledge across disciplines: from studies of the genes of “cancer-proof” rodents, to findings on language acquisition, to pioneering work in the cutting-edge field of fusion science.

The quality of Rochester’s faculty and state-of-the-art facilities resulted in a record \$415 million in sponsored research funding—a clear demonstration of the University’s continued momentum in becoming one of the nation’s finest research institutions.

*Omega EP Laser System, Robert L. Sproull  
Center for Ultra High Intensity Laser Research  
at the Laboratory for Laser Energetics*





WARNING  
DO NOT ENTER  
UNLESS YOU ARE  
TRAINED TO DO SO

WARNING  
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TRAINED TO DO SO



Naked mole rats provide clues  
in cancer research



## Biologists Discover Gene That ‘Cancer-Proofs’ Rodent’s Cells

Despite a 30-year lifespan that gives ample time for cells to grow cancerous, the naked mole rat has never been found with tumors of any kind—and now biologists think they know why.

Vera Gorbunova, an associate professor of biology, and her team have discovered that the mole rat’s cells express a gene—called *p16*—that makes the cells “claustrophobic,” stopping the cells’ proliferation when too many of them crowd together, thereby cutting off runaway growth before it can start.

“We think we’ve found the reason these mole rats don’t get cancer, and it’s a bit of a surprise,” says Gorbunova. “It’s

very early to speculate about the implications, but if the effect of *p16* can be simulated in humans, we might have a way to halt cancer before it starts.”

The findings were presented in *The Proceedings of the National Academy of Sciences*.

Over the last three years, Gorbunova and Andrei Seluanov, a research professor of biology at Rochester, have worked an unusual angle on the quest to understand cancer: investigating rodents from across the globe to get an idea of the similarities and differences in how varied but closely related species deal with cancer.

In 2008, Gorbunova confirmed that small-bodied rodents with long lifespans

had evolved a previously unknown anticancer mechanism that appears to be different from any anticancer mechanisms employed by humans or large mammals.

Now Gorbunova believes she has found the primary reason these small animals are staying cancer-free, and it appears to be a kind of overcrowding, early-warning gene that the naked mole rat expresses in its cells.

Gorbunova and Seluanov are now planning to delve deeper into the mole rats’ genetics to see if their cancer resistance might be applicable to humans.

(TOP) COURTESY OF DEPARTMENT OF BIOLOGY; (BOTTOM) EUGENE KOWALUK

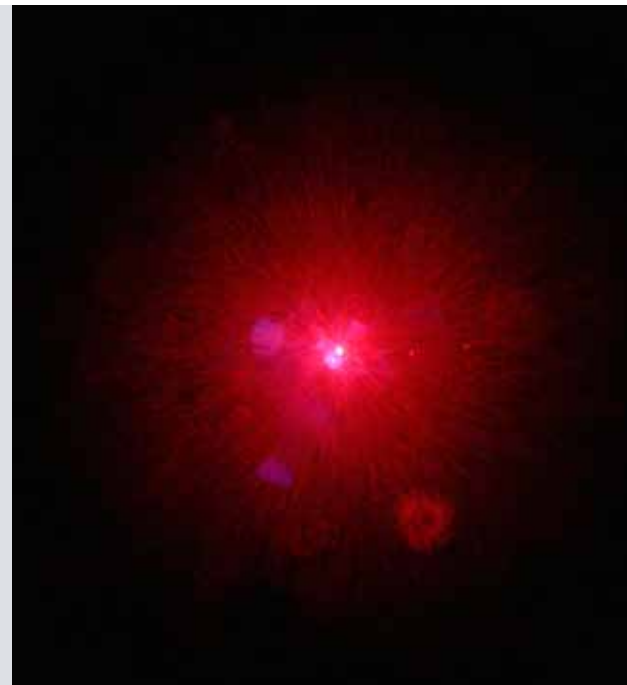
## Fusion Science Center Receives Increased Federal Funding

The U.S. Department of Energy awarded the University an \$8.2 million grant to support the Fusion Science Center for Extreme States of Matter for the next five years. The grant marks a 50 percent increase over the \$5.5 million that established the center in 2004.

The center involves collaborations with scientists at MIT, the University of California at San Diego, the University of Texas at Austin, and other institutions, but is based at Rochester to make use of the lasers at the Univer-

sity’s unsurpassed Laboratory for Laser Energetics.

Says Riccardo Betti, the center’s director and a professor of mechanical engineering and of physics, “This fusion center has allowed us to make important strides in performing cutting-edge physics research in advanced fusion concepts. We’ve been able to develop new fusion schemes and learn more about relativistic laser-matter interactions, which are so important in our quest to make fusion a viable energy source for the future.”







## African Desert Rift Is an Ocean in the Making

In 2005, a 35-mile-long rift broke open the desert ground in Ethiopia. At the time, some geologists believed the rift was the beginning of a new ocean as two parts of the African continent pulled apart, but the claim was controversial.

Now, scientists from several countries have confirmed that the volcanic processes at work beneath the Ethiopian rift are nearly identical to those at the bottom of the world's ocean, and the rift is indeed likely the beginning of a new sea.

Cindy Ebinger, a professor of earth and environmental sciences, coauthored the study, which was published in *Geophysical Research Letters*. The research suggests that the highly active volcanic boundaries along the edges of tectonic ocean plates may suddenly break apart in large sections, instead of little by little, as had been generally believed. Such sudden, large-scale events on land pose a much more serious hazard to populations living near the rift than would several smaller events, Ebinger says.

"We know that seafloor ridges are created by a similar intrusion of magma into a rift, but we never knew that a huge length of the ridge could break open at once like this," says Ebinger. Because the areas where the seafloor is spreading are almost always situated under miles of ocean, it's nearly impossible to monitor more than a small section of the ridge at once, so there's no way for geologists to know how much of the ridge may break open and spread at any one time.

"Seafloor ridges are made up of sections, each of which can be hundreds of miles long. Because of this study, we now know that each of those segments can tear open in just a few days."

## Rochester-led Web Site Responds to Reduced Coverage of Science News

Responding to the decline in science news coverage by major press outlets, the University of Rochester, in collaboration with Duke and Stanford universities, launched Futurity.org, an online source of university research news, in September 2009.

By the date of the launch, Rochester and its founding partners had secured the participation of more than 30 additional universities in the daily showcase of the latest and most innovative university research in science and other fields. By the end of the fiscal year 2010, that number had risen to 58, including several universities in the United Kingdom and Canada.

The site, which is hosted at the University of Rochester, covers research findings in a range of topics, including the environment, health, science, and society. The content is produced by participating universities and submitted to a Futurity editor.

Once online, the content is presented in a way that encourages interaction. Stories include links to published reports and supplemental materials that allow readers to explore topics in more detail. The site is available in a mobile-friendly version, and visitors can comment on stories and sign up for a daily e-mail update.

Bill Murphy, Rochester's vice president for communications, stressed that not only does Futurity respond to the shrinkage of science news reporting, but it also fulfills the desire of universities to reach out to the public. Says Murphy, "In light of the shifting news landscape, universities are looking for new ways to share important breakthroughs with the public. Futurity gives us an opportunity to communicate in a novel and direct way—and to remind the public why research matters."



(TOP) COURTESY OF DEPARTMENT OF EARTH & ENVIRONMENTAL SCIENCES; (BOTTOM) BRANDON VICK/MICHAEL OSADCIW



## University Libraries Create Innovative Virtual Work Space

In February 2010, the University launched UR Research, a virtual work space created by a team from River Campus Libraries.

UR Research (<https://urresearch.rochester.edu/home.action>) offers a suite of online tools to meet an array of research needs, from authoring and organizing various versions of manuscripts, to showcasing completed work, to storing digital materials securely and, when needed, permanently.

“It’s a win-win relationship,” said Suzanne Bell, the librarian who introduced the system to the University community. “Researchers get the tailor-made functions and online storage they need; Internet users get free and open access to academic research and priceless collections.”

Team members Susan Gibbons, vice provost and Andrew H. and Janet Dayton Neilly Dean of River Campus Libraries; David Lindahl, software development director; and Nancy Fried Foster, director of anthropological research, developed UR Research based on the results of a survey of faculty members and graduate students.

“What’s novel about this system is that it has been built around user needs,” said Mike Bell, assistant dean for information technology. “Most other repositories have been focused on systems architecture and public access, not on what is most important to contributors.”

## Study Links Vitamin D, Race, and Cardiac Death

Vitamin D deficiency may contribute to a higher number of heart- and stroke-related deaths among black Americans compared to whites, according to a study by Rochester scientists.

Researchers sought to understand the well-documented disparity between blacks and whites in cardiovascular deaths. They turned to vitamin D because growing evidence links low serum levels of vitamin D to many serious illnesses, including diabetes, hypertension, and kidney and heart disease.

Lead author Kevin Fiscella, MD, a professor of family medicine, and colleagues studied a sample of more than 15,000 American adults. As expected, a vitamin D deficiency was associated with higher rates of death among all people in the sample. In fact, those adults with the worst deficiency had a 40 percent higher risk of death from cardiac illness. Genetic factors common to blacks sometimes preclude vitamin D absorption, such as higher incidence of lactose intolerance, which can eliminate vitamin-D fortified milk from the diet, and darker skin pigment that significantly reduces vitamin D synthesis.

Vitamin D may be a modifiable, independent risk factor for heart disease, Fiscella says, adding that the study suggests the next step would be to intervene to boost vitamin D levels safely, with supplements.



## Rochester Hosts International Conference on Robin Hood

In October 2009, scholars from around the globe gathered on the River Campus for “Robin Hood: Media Creature,” a conference that examined the ways in which the outlaw hero has been reshaped over the past 700 years through stage, song, literature, and memorabilia, and remains strikingly resonant today.

The event, which attracted coverage from both the *New York Times* and the *Washington Post*, featured the world premiere of a restored print of the 1922 film *Robin Hood*, accompanied by a live 11-piece orchestra performing a reconstructed score.

Throughout the three-day conference, scholars presented research on familiar as well as controversial dimensions of the Robin Hood tale and on the ways in which Robin Hood’s evolution in stories, images, music, television, and films sheds light on complex issues and cultures from the Middle Ages to the 21st century.

Says Thomas Hahn, professor of English at Rochester and the organizer of the conference, “The tale provides an escapist fantasy that is timeless and compelling to people at any age.” It includes themes of rebellion, justice, brotherhood, and romance—all subjects that not only make a great story but that resonate with people’s emotions irrespective of time and place.





# Faculty Honors

## Riccardo Betti Honored for Fusion Research

**Riccardo Betti**, a senior scientist in laser energetics, professor of mechanical engineering and physics and astronomy, and director of the University's Fusion Science Center for Extreme States of Matter, has won the American Nuclear Society's Edward Teller Medal for his research on laser-driven fusion at the University's Laboratory for Laser Energetics.

The award recognizes groundbreaking research in the use of laser and ion-particle beams to produce high-temperature and high-density matter for scientific research and controlled thermonuclear fusion. As director of the Fusion Science Center, Betti researches the development of new fusion methods to learn more about relativistic laser-matter interactions, which are key to the quest to make fusion a viable energy source.

## Boyd Wins International Prize for Optics Research

**Robert Boyd**, the M. Parker Givens Professor of Optics and professor of physics, has been awarded the Humboldt Prize, given by the Alexander von Humboldt Foundation. The award recognizes 100 internationally renowned scientists and scholars each year and honors an impressive cumulative body of work.

Boyd studies the nonlinear interactions of light with matter. In 2006, he demonstrated that light can be slowed down and even caused to move backward—a phenomenon with interesting philosophical implications as well as practical applications.

## Eberly Wins Optical Society's Highest Honor

**Joseph Eberly**, a professor of physics and astronomy, has been awarded the 2010 Frederic Ives Medal, the highest award given by the Optical Society of America. Endowed in 1928, the medal recognizes overall distinction in the field of optics. Eberly has made significant contributions to the field of quantum optics.

## Eisenberg, Anderson Elected to National Academy of Sciences

**Richard Eisenberg**, the Tracy Hyde Harris Professor of Chemistry, and **Porter Anderson**, a professor emeritus of pediatrics, have been elected to the National Academy of Sciences, one of the highest honors that can be accorded to a scientist. Eisenberg is a specialist in the chemistry of converting light into chemical energy. His current work is in developing a system that could lead to more efficient and environmentally friendly production of hydrogen fuel from water. Anderson, who retired from Rochester in 1994 and is now a senior lecturer at Harvard Medical School, is one of three Medical Center scientists who developed the *Haemophilus influenzae b* (Hib) vaccine, which has virtually eradicated a leading cause of meningitis in preschoolers.

## Three Scientists Named Fellows of the American Association for the Advancement of Science

Three Rochester researchers—**Robert Boeckman**, the Marshall D. Gates Jr. Chair in Chemistry; **William Jones**, the Charles Frederick Houghton Professor in Chemistry; and **Lukas Novotny**, professor of optics—have been named fellows of the American Association for the Advancement of Science, the world's largest

general scientific society and the publisher of the journal *Science*.

Boeckman was named for his contributions to the development of methods for synthesizing organic compounds; molecules constructed through his methods can serve as prototypes or leads in the development of pharmaceutical agents for use in humans. Jones was named for his work focusing on chemically converting the hydrocarbons in petroleum directly into more valuable materials that are used in end products like medicines, plastics, or other fuels. Novotny studies interactions between light and matter on the nanometer scale. He is developing optical antennas to increase the sensitivity of photodetectors and to boost the efficiency of light-emitting devices.

## Garziona Honored by New York Academy of Sciences

**Carmala Garziona**, an associate professor of earth and environmental sciences, won the 2009 New York Academy of Sciences Blavatnik Award for her research that has helped redefine geologists' understanding of the rate at which mountain ranges form. Garziona was one of eight winners chosen from more than 150 nominees.

Garziona, an expert in paleoaltimetry, the science of measuring the uplift history of mountain belts, pioneered a new approach to the field by analyzing the chemical signatures of sediment eroded from a mountain to determine the rate of a mountain range's growth.

## Newport Elected to American Philosophical Society

**Elissa Newport**, the George Eastman Professor of Brain and Cognitive Sciences and chair of the Department of Brain and Cognitive Sciences, was elected a member of the American Philosophical Society. Newport was one of 30 new members elected in 2010 to the prestigious and highly selective body of intellectuals and artists founded in 1743 by Benjamin Franklin.

An expert in the field of language acquisition, Newport's pioneering research shows how humans and other animals learn to communicate. Among her major findings is that, in addition to absorbing and reproducing language patterns from the language they are taught, young children are capable of remedying inconsistencies and inventing new structures in those languages.

## Three Rochester Scientists Earn National Science Foundation Award

**David McCamant**, assistant professor of chemistry; **Andrew Jordan**, assistant professor of physics; and **Mathews Jacob**, assistant professor of biomedical engineering, each won a National Science Foundation CAREER award, a prestigious award for scientists early in their careers. The award offers recipients five years of funding to continue their research.

McCamant earned the honor for his research on damage to DNA from ultraviolet radiation. Jordan earned his for research on how quantum mechanical systems become entangled and how they might be monitored and controlled. Jacob earned his for work designing computer programs that accelerate the capture of high-resolution images—a process that may enable earlier diagnoses of cancer.



Riccardo Betti



Robert Boyd



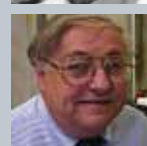
Joseph Eberly



Richard Eisenberg



Porter Anderson



Robert Boeckman



William Jones



Lukas Novotny



Carmala Garziona



Elissa Newport



David McCamant



Andrew Jordan



Mathews Jacob





## Leadership

The 2009–10 year was a notable one for University leadership. From generous giving to the Annual Fund to efforts to make the University community a more inclusive and welcoming one, trustees, faculty, students, parents, and alumni pledged themselves to making Rochester “ever better.”

The vigorous expansion of the George Eastman Circle, the leadership annual giving society, played a vital role in the year’s Annual Fund success.

*Statue of George Eastman,  
Eastman Quadrangle*







David and Ilene Flaum

### Fulfilling a Vision

The University honored a few of the prominent supporters of the Eye Institute last fall, recognizing them for their commitment to the institute's growing influence in vision care and research.

In recognition of the ongoing support of Rochester businessman and philanthropist David Flaum and his family, the institute has been renamed the David and Ilene Flaum Eye Institute.

"I've always been interested in the science of vision and know personally the transformative power of improved sight," says Flaum, the founder and CEO of the Rochester-based real estate development company Flaum Management Co. He's also a University trustee and a member of the Medical Center's board.

Also last fall, the Adeline P. Lutz Pavilion was dedicated in honor of Rochester resident Adeline Lutz and her late husband, Walter (Jack) Lutz. Lutz began having vision problems in 1987 and has undergone a series of 13 surgeries at the institute.

In tribute to Lutz's corneal surgeon, Steven Ching, MD, a professor of ophthalmology, and the entire institute staff, the Lutzes decided to donate most of their savings to the institute.

"They are like family to me, and I credit Dr. Ching with saving my sight," says Lutz.

"For a patient to support us in this way, it is truly overwhelming," says Ching.

From left: Steven Feldon, Edmund Hajim '58, Mark Taubman, Adeline Lutz, G. Robert Witmer Jr. '59, Joel Seligman





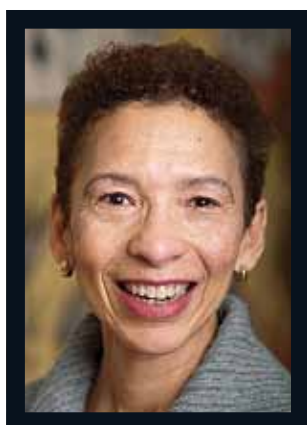


## Leadership and Diversity Center Expands Its Reach

Since its inception in 2001, the David T. Kearns Center for Leadership and Diversity in Science and Engineering has provided underrepresented students studying science, technology, engineering, and mathematics with academic and cocurricular support. Now the center's reach has expanded to include students in areas throughout the College.

Under a new name—the David T. Kearns Center for Leadership and Diversity in Arts, Sciences and Engineering—the center will now assist an increased number of low-income, first-generation, and underrepresented minority students without conditions on their fields of study.

“Through the expanded Kearns Center, the College will be able to provide support for more students and for students in all disciplines,” says Dean of the College Richard Feldman. “As a result, we expect to see increased participation in undergraduate research and increased percentages of students going on to graduate school.”



Lewis

## Building an Inclusive Community

All the University's constituencies came together in April for the first University-wide diversity conference, “Building a Stronger Community.”

The conference was organized by the new leader of the Office of Faculty Development and Diversity, Vivian Lewis, MD. A professor of obstetrics and gynecology at the Medical Center since 1991, Lewis served as the associate dean for faculty development for women and diversity

at the School of Medicine and Dentistry prior to her current appointment.

“This conference is really a forum for the exchange of ideas,” Lewis said in preparing for the event, which is expected to be an annual gathering to talk about issues surrounding inclusiveness. This year's conference included a discussion led by an eight-person panel of trustees, top administrators, and guests from Xerox, Bausch & Lomb, Kodak, and the City of Rochester.





Taubman at investiture ceremony in May 2010

## School of Medicine Invests 10th Dean

Charles E. Dewey Professor of Medicine Mark Taubman, MD, was formally invested as dean of the School of Medicine and Dentistry at a ceremony in May.

Medical Center CEO Bradford Berk, '81M (MD/PhD) cited Taubman's stature as a strong academic leader with an institution-wide perspective as the reason for his appointment.

"Mark Taubman is a skillful cardiologist, scientist, and academic leader," Berk said at the investiture ceremony. "Since joining the University in 2003, he has helped to bolster Rochester's research standing, strengthened patient services, and is now establishing the School of Medicine and Dentistry as a place where outstanding faculty and physicians can do their best work."

Taubman has held academic appointments at Harvard Medical School, Children's Hospital Boston, and Mt. Sinai School of Medicine. Prior to being recruited to Rochester—which he joined as chief of the Cardiology Unit and Paul N. Yu Professorship in Cardiology—Taubman was director of cardiovascular research at Mt. Sinai.

"I am energized by myriad economic and social challenges facing academic medical centers and look forward to working with faculty, students, and staff to ensure that the University of Rochester School of Medicine and Dentistry will remain in the forefront of academic institutions," Taubman said at his induction.

## University among New York State's Top Employers

The University is the sixth largest private employer in New York state and "the leader in the transition of Rochester's economy," according to a report released in May by the Center for Governmental Research.

The report notes that "even during the most painful recession since the Great Depression, the University of Rochester has continued to expand its economic impact in the area, creating more jobs and generating more labor income than it did just two years ago."

This trend in employment growth has placed the University—which has been the top employer in the region for several years—among the largest private employers in New York state, behind only the Presbyterian Healthcare System in New York City and national corporate giants Walmart, Citigroup, IBM, and JPMorgan Chase.



Bruning

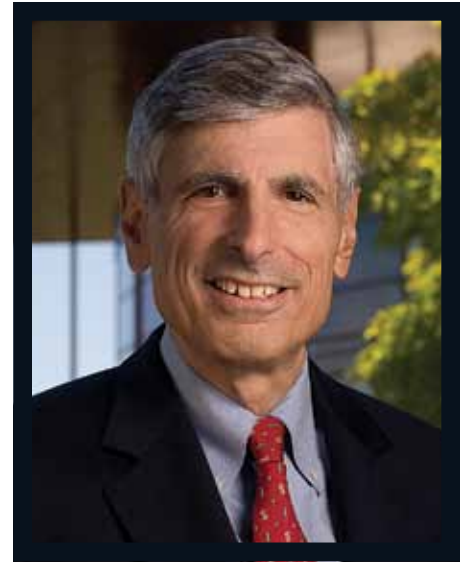
## Four Leaders Join Trustees in 2009–10

A prominent optics entrepreneur, an accomplished surgeon and lawyer who became a strategist for multinational corporations, a noted medical scientist and medical school dean, and a leading Rochester business executive have joined the Board of Trustees.

John Bruning, the retired president and CEO of Corning Tropel Corp.; Bernard Ferrari '70, '74M (MD), a former director and partner in the global management consulting firm of McKinsey & Company; Philip Pizzo '70M (MD), the dean of Stanford University's medical school; and Daniel Wegman, the CEO of the Rochester-based supermarket business Wegmans Food Markets Inc., are the University's newest trustees.

"The success that each of them has achieved in science, medicine, and business makes them ideally suited to help us further strengthen the University's leadership in education, research, and patient care," says Ed Hajim '58, chair of the Board of Trustees, of Bruning, Pizzo, and Wegman, who joined the board in September 2009.

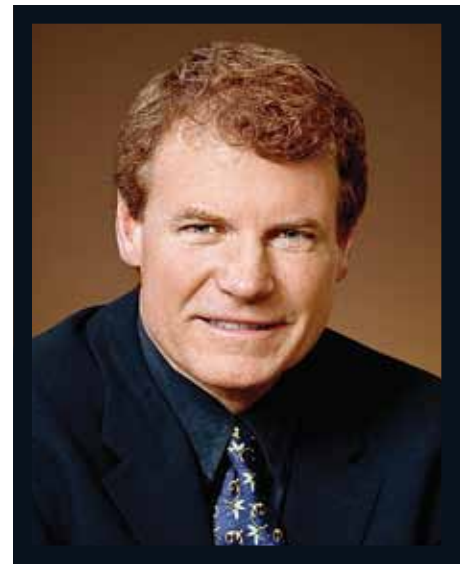
Ferrari became a trustee one month later. "His insider's view of health care and many other industries adds to the strength of our distinguished board," says Hajim.



Pizzo



Ferrari



Wegman

(TOP) BOARD OF TRUSTEES; (BOTTOM) UNIVERSITY ADVANCEMENT



## Hajim School Dedication

Board of Trustees Chairman Ed Hajim '58—joined by his wife, Barbara; their daughter, Corey; son-in-law, Jim Sperber; and son, Brad (far right)—attended the official dedication of the Edmund A. Hajim School of Engineering and Applied Sciences during Meliora Weekend 2009. The new name honors Hajim for his \$30 million gift commitment in 2008—the single largest ever received by the University.

It was a landmark year for giving in 2009–10, as well, when support from almost 37,000 alumni, parents, and friends provided \$10.5 million to the Annual Fund, a more than 13 percent increase in one year. Unrestricted annual giving—which benefits student experiences, medical care, and community programs—has doubled in five years, a historic achievement.









J. ADAM FENSTER

## Student Life

Rochester students across divisions of the University earned a national spotlight for performances in the arts, athletics, and in the classroom. From the basketball and squash courts, to some of the greatest musical performance halls in the nation, Rochester students demonstrated the combination of talent, drive, and persistence that is at the heart of *Meliora*.

Yet fun and humor are also important parts of the mix. A favorite River Campus tradition is the annual pillow fight on Eastman Quad.

*Annual pillow fight, Eastman Quad*



From left: Zhang Zuo, Doug O'Connor, Tomasz Arnold, and Rebecca Farley with accompanists Markiyano Melnychenko and Lyndon Meyer



Eastman at the Kennedy Center presents

**4** outstanding student musicians from the Eastman School of Music

March 3, 2010

6 PM Concert  
**FRANCIS GALLER**  
 Music of Schumann, Sibelius, Giuseppe Puccini, Richard Strauss, Chopin, Johann Sebastian Bach

7 PM Reception  
**FRANCIS GALLER**  
 Kennedy Center for the Performing Arts  
 2700 11 Street, NW, Washington, D.C.

Tomasz Arnold, marimba BM '13  
 Rebecca Farley, soprano MM '10  
 Zhang Zuo, piano BM '10  
 Doug O'Connor, saxophone DMA student

WITH  
 Lyndon Meyer, piano MM '10  
 Markiyano Melnychenko, violin BM '12

EASTMAN SCHOOL OF MUSIC UNIVERSITY OF ROCHESTER  
[www.rochester.edu/album/events](http://www.rochester.edu/album/events)

## Rochester Becomes Regional Programming Champs

In November 2009, Rochester became the first school in six years to beat MIT in the regional finals of the oldest, largest, and most prestigious computer programming competition in the world.

Team members Ian Christopher '10, Dennis Huo '10, and Xiaoqing Tang '12 outscored all of their closest competitors—MIT, Harvard, Brown, and McGill—to become the Northeastern North America regional champions in the Association of Computing Machin-

ery's International Collegiate Programming Contest.

Coached by Daniel Stefankovic, assistant professor of computer science, the team prevailed in the grueling contest that required writing computer code to solve eight distinct problems. Rochester and MIT were the only teams to solve all eight correctly, and Rochester beat MIT on speed, finishing in 16 hours and 10 minutes to MIT's 18 hours and 51 minutes.

## Eastman Students Showcased at Kennedy Center

One of the founding partners of the Conservatory Project at the John F. Kennedy Center for the Performing Arts, the Eastman School joins a handful of other elite music schools in sending a few of its most outstanding students to Washington, D.C., each year to perform at the prestigious venue. Representing the Eastman School in 2010 were percussionist Tomasz Arnold '13E, soprano Rebecca Farley '10E (MM), saxophonist and graduate student Doug O'Connor '08E (MM), and pianist Zhang Zuo '10E.

The Conservatory Project, launched in 2004, presents some of the most promising young musicians in classical music, jazz, musical theater, and opera from the nation's leading music schools.



From left: Xiaoqing Tang '12, Joel Seligman, Ian Christopher '10, Dennis Huo '10, and Daniel Stefankovic (faculty advisor)



## Record Seasons for Squash and Women's Basketball Teams

Both the squash team and the women's basketball team ended their seasons with trips to the national finals—the second time in a row for the squash team and the first time since 2003–04 for the women's basketball team.

The all-male squash team followed up on its 10-4 season with a victory over Cornell in the quarterfinals before falling short against Yale in the semifinals and Princeton in the third-place playoff game. The women's basketball team finished the season with a 23-8 record, then went 4-2 in the Division III tournament on their way to a fourth-place finish.



Andres Duany '13  
*Squash*

Melissa Alwardt '11  
*Basketball*







## Graduate Students Get Rooms of Their Own

A gift from Martin E. Messenger '49, the senior trustee of the University who funded the renovation of the Martin E. Messenger Periodical Reading Room in 1998, underwrote the creation of two study rooms designed especially for graduate students. Messenger Graduate Study Room North opened in August 2009, and Messenger Graduate Study Room South opened in May 2010 after two years of interviews, anthropological studies, and focus groups with graduate students to assess their needs.

The rooms feature warm maroon tones that combine homey wing-backed chairs and a coffee table with the more traditional trappings of a library: reading tables and carrels. Seven large windows, including one in stained glass given by the Friends of the University of Rochester Libraries, flood the room with natural light. White marker boards, several computers, and a printer offer the functionality of an office; 48 wooden lockers provide secure storage; and top-of-the-line ergonomic desk chairs guarantee comfort during long study sessions.

## Mock Trial Team in Top 20

The University of Rochester Mock Trial Team placed 17th among the almost 50 qualifying teams in the American Mock Trial Association National Championship Tournament in Memphis, Tenn., in April 2010. Jason Scheff '10 and Dinisha Fernando '10 received All American Witness honors for their performances.





## Rochester a Top School for Veterans

The University of Rochester ranked fourth on the list of the 30 best private universities in the nation for veterans, according to GI Bill Hub, a resource for veterans pursuing higher education.

The 2010 ranking considered the amount of tuition assistance provided to veterans as well as the school's overall prestige. The Rochester Pledge Scholarship, named in honor of alumnus Francis Bellamy, who penned the Pledge of Allegiance in 1892, was created in the fall of 2008 to guarantee full tuition and fees support for qualified veterans pursuing undergraduate studies at the College and the Eastman School.

## Biodiesel Project Wins National Honor

UR Biodiesel, a project of several Rochester undergraduates to convert excess vegetable oil from dining service centers into biodiesel to fuel shuttle buses, was honored in March by the Association of College Unions International, a nearly 100-year-old organization of campus community builders.

The brainchild of Chris Babcock '07, David Borrelli '09, Dan Fink '09, and Eric Weissmann '10, UR Biodiesel, which was launched on Earth Day 2009 with the inaugural ride of the biodiesel shuttle bus, received the organization's Excellence in Innovations

for Sustainability Award. The award is given to one project each year that marks a major new contribution to sustainability and that delivers benefits to the entire community.



## Simon School Ranks Highly for Programs and Graduate Satisfaction

The *Financial Times* of London ranked the Simon Graduate School of Business 5th in the world in finance and managerial economics, 6th in the world for accountancy, and 24th overall out of 100 business schools in the United States.

Meanwhile, *Forbes* magazine ranked the Simon School 8th in the nation among business schools with the most satisfied MBA graduates.

The *Financial Times* ranks business schools each year based on the career

progression following the MBA, diversity among the faculty and student body, and faculty research.

*Forbes* determined its rankings based on a survey of 17,000 alumni from the Class of 2004 at 103 institutions. Asked to rate their satisfaction in three areas—their current jobs, their MBA education, and how well their school prepared them relative to other business school graduates, Simon alumni rated the school consistently high in all three areas.

## Student Awards & Honors

### Rochester Students Awarded Goldwater Scholarships

**Gregory Bentsen '11** and **Nicholas Huang '10** have been named 2010 Barry M. Goldwater Scholars. Bentsen and Huang are among 278 recipients selected from a national pool of more than 1,100 candidates. Bentsen, who is pursuing dual degrees in physics and mathematics, plans graduate study in theoretical physics. Huang, who is pursuing dual degrees in biomedical engineering and music, plans an MD/PhD degree and a career in biomedical engineering research.

### Seven Rochester Graduates Awarded Fulbright Scholarships

Seven graduating seniors—six from Arts, Sciences and Engineering and one from the Eastman School—won Fulbright Scholarships for research and study abroad in 2010–11. Winners were **Sara DuBois** (anthropology and Russian/Russia), **Aynsley Duncan** (neuroscience/Korea), **Elizabeth Gabster** (English/Poland), **Anita Hargrave** (health and society/Ecuador), **Elise Russell** (psychology/Malaysia), **Judith Tulkoff** (political science/Indonesia), and **Andre Washington** (applied music: flute/France).

### Senior Diamond Ling '10 Winner of NIH Scholarship

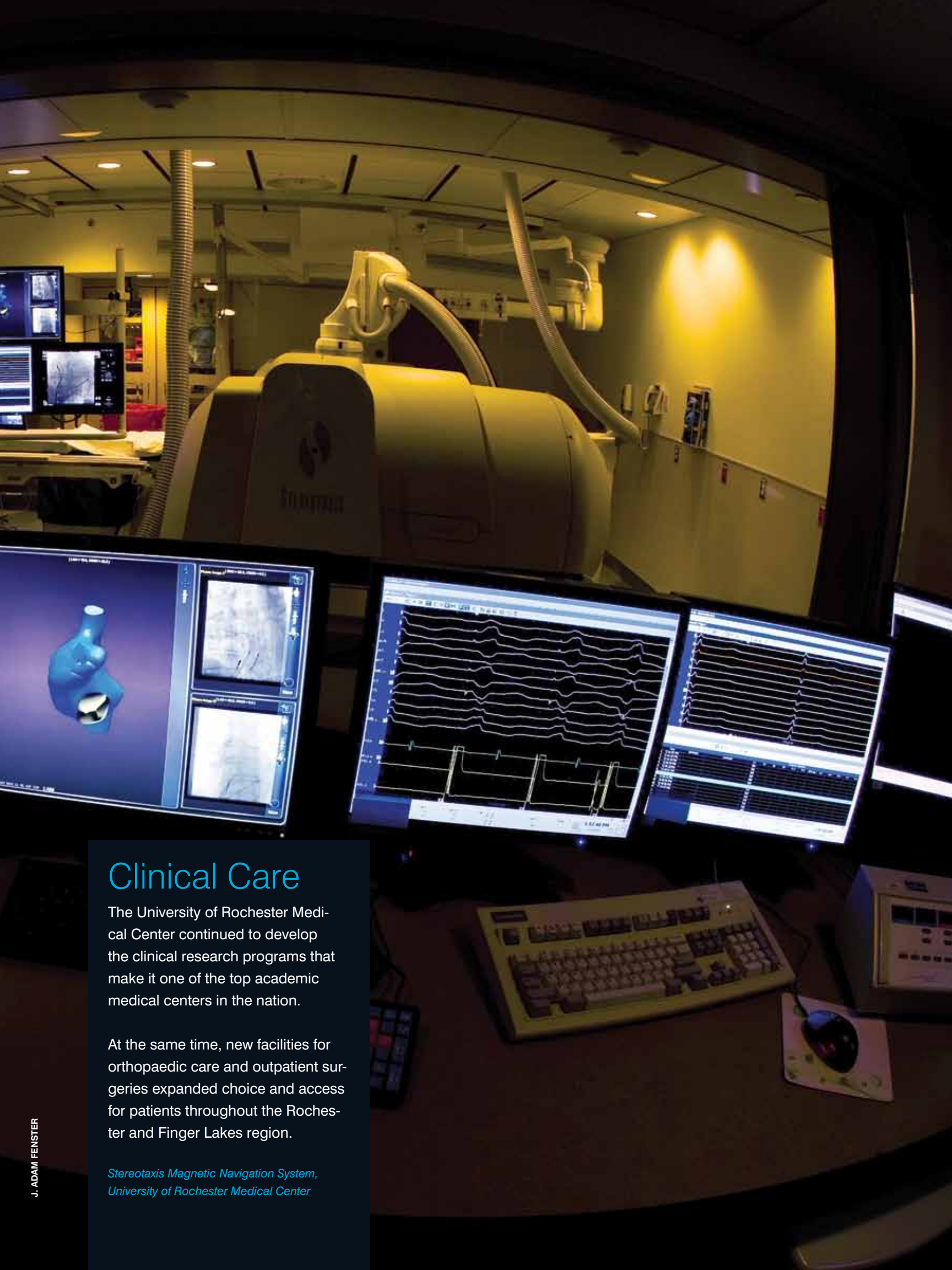
**Diamond Ling '10** was one of 13 winners, selected from more than 250 applicants nationwide, of the National Institutes of Health Undergraduate Scholarship. The scholarship carries up to \$20,000 and entitles Ling, a neuroscience major, to a full-time paid NIH research position following completion of a doctoral degree.

### Graduating Seniors Win National Political Science Fellowships

**Lashonda Brenson '10** and **Camillia Redding '10** were among 12 winners, selected from a nationwide pool, of the 2010–11 American Political Science Association Minority Fellowship to pursue graduate study in political science.







## Clinical Care

The University of Rochester Medical Center continued to develop the clinical research programs that make it one of the top academic medical centers in the nation.

At the same time, new facilities for orthopaedic care and outpatient surgeries expanded choice and access for patients throughout the Rochester and Finger Lakes region.

*Stereotaxis Magnetic Navigation System,  
University of Rochester Medical Center*





## U.S. News Ranks Golisano Children's Hospital Programs Among Nation's Best

The Golisano Children's Hospital at the University of Rochester Medical Center has been named among the nation's premier hospitals for pediatric orthopaedics, neurology, and neurosurgery by *U.S. News & World Report*. The 2010 America's Best Children's Hospitals, published in the August print version of the magazine as well as online, is the most extensive listing of its kind, ranking 160 pediatric hospitals in 10 specialties.

The hospital's orthopaedics division attracts patients throughout the region and across the country for its expertise in a variety of pediatric orthopaedic disorders, chiefly spinal deformities.

The hospital's neurology division treated almost 6,000 patients in 2009. Patients came from the Rochester and Finger Lakes region, across the nation, and from other countries to see the hospital's experts on Tourette syndrome and Batten disease. In addition, pediatric neurosurgery has been a steadily growing program, using state-of-the-art diagnostic imaging, and neuronavigational and neurophysiology monitoring technologies.

## Wilmot Cancer Center Performs First Outpatient Stem Cell Transplant

In August 2009, physicians at the James P. Wilmot Cancer Center performed the first outpatient stem cell transplant in the Rochester region. The patient, a Bloomfield, N.Y., man who had been diagnosed with multiple melanoma, received two rounds of autologous transplants—transplants using a patient's own, previously removed stem cells or marrow.

Outpatient transplants, which allow patients to recuperate at home, require close communication among medical and family caregivers. Says Gordon L. Phillips II, MD, PhD, director of the

Wilmot Center's Samuel E. Durand Blood and Marrow Transplant Program, "This is a significant step forward that we've been able to make because of the safety measures and support systems we've put in place for our patients."

The Samuel E. Durand Blood and Marrow Transplant Program is the only program of its kind in the Rochester and Finger Lakes region and the second largest such program in the state, following the Memorial Sloan Kettering Cancer Center in New York City.

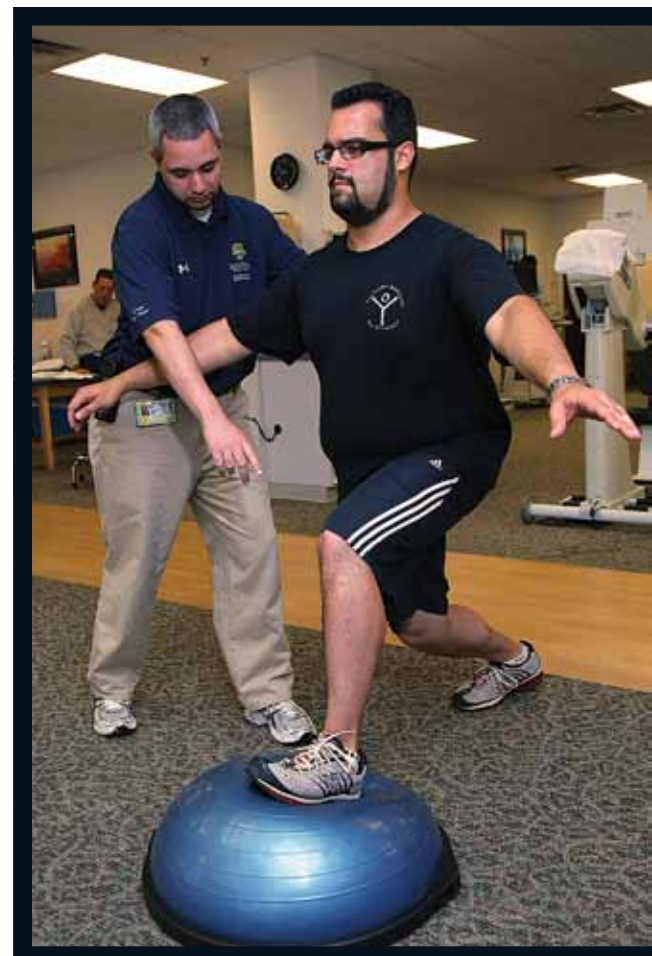
## Access to Orthopaedic and Rehabilitative Care Expanded

The University of Rochester Medical Center expanded services and access to musculoskeletal care by opening a new center for comprehensive musculoskeletal treatment and recovery in the nearby town of Greece in March 2010.

The 8,000-square-foot facility offers specialty care in orthopaedics, physiatry, sports and spine rehabilitation, hand and upper-extremity rehabilitation, and imaging services to adults and children, along with daytime urgent care for injuries.

By locating the facility in Greece, to the west of the University, the center offers greater convenience to the growing numbers of patients in western Monroe County who had previously traveled across the city to the Medical Center's Clinton Crossings, in the eastern suburb of Brighton, to receive care.

(ALL)URM/C



## Medical Center Opens Upstate's Largest Ambulatory Surgery Center

In the summer of 2009, the Medical Center opened upstate New York's largest hospital-affiliated ambulatory surgical facility. The Surgery Center responds to the sharply rising demand for outpatient surgical care, which by 2005 already constituted 50 percent of all surgeries performed at the Medical Center.

Located in the nearby town of Brighton, the 80,000-square-foot facility includes 52,000 square feet devoted to patient care, including operating and procedures rooms, 43 private pre- and post-anesthesia cubicles, 10 post-anesthesia bays, a pharmacy, and facilities for sterile equipment processing. Each patient cubicle has a portable monitoring unit that travels with the patient to the operating room and the recovery area.

"Outpatient surgical centers have defined a new standard of care that patients have come to expect," said orthopaedist Michael Maloney, MD, the director of the center. "We are adopting that model to optimize care and service for patients."



**Maloney**

Because we'll be performing only elective, prescheduled surgeries, we won't be forced to shift schedules to accommodate emergencies. This will allow us to operate efficiently and be more sensitive to the needs of our patients and their family members."

## Healthy Living Center Established

The Medical Center launched in March 2010 the Healthy Living Center—an initiative that conducts research and offers clinical programs to help members of the community adopt healthier lifestyles.

In particular, the center designs, evaluates, and implements programs to decrease tobacco exposure, increase physical activity, improve nutrition, and increase adherence to medications. Part of the Center for Community Health, the Healthy Living Center includes conference rooms, exam rooms, a teaching kitchen, and a physical activity space. The center's research mis-

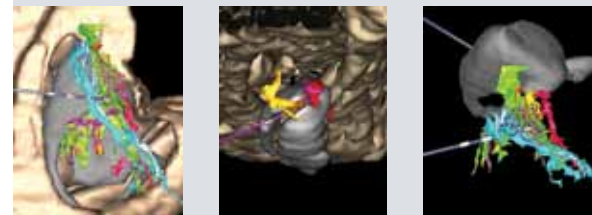
sion is supported by a \$1.2 million grant from the National Institutes of Health.

"The Healthy Living Center represents a unique marriage of clinical behavior change services and behavior research," says Nancy M. Bennett, MD, director of the Center for Community Health and professor of medicine. "It will address the fundamental questions of how to motivate people to make healthy choices in their lives and how to take programs that we know are effective and ensure that they are being adopted on a community-wide basis."

## Silvio O. Conte Center for Study of OCD Opens

In September 2009, a center devoted to the study of obsessive-compulsive disorder (OCD) opened at the Medical Center. Named for the late Massachusetts congressman who was a longtime champion of neuroscientific research, the Silvio O. Conte Center is supported by a \$10.5 million grant from the National Institute of Mental Health and is part of the University's Ernest J. Del Monte Neuromedicine Institute.

The center is the hub in a collaboration among 50 researchers from six institutions across the United States and Puerto Rico that is devoted to exploring potential new treatments for OCD, an anxiety disorder that affects approximately 2 million Americans. In particular, the researchers are

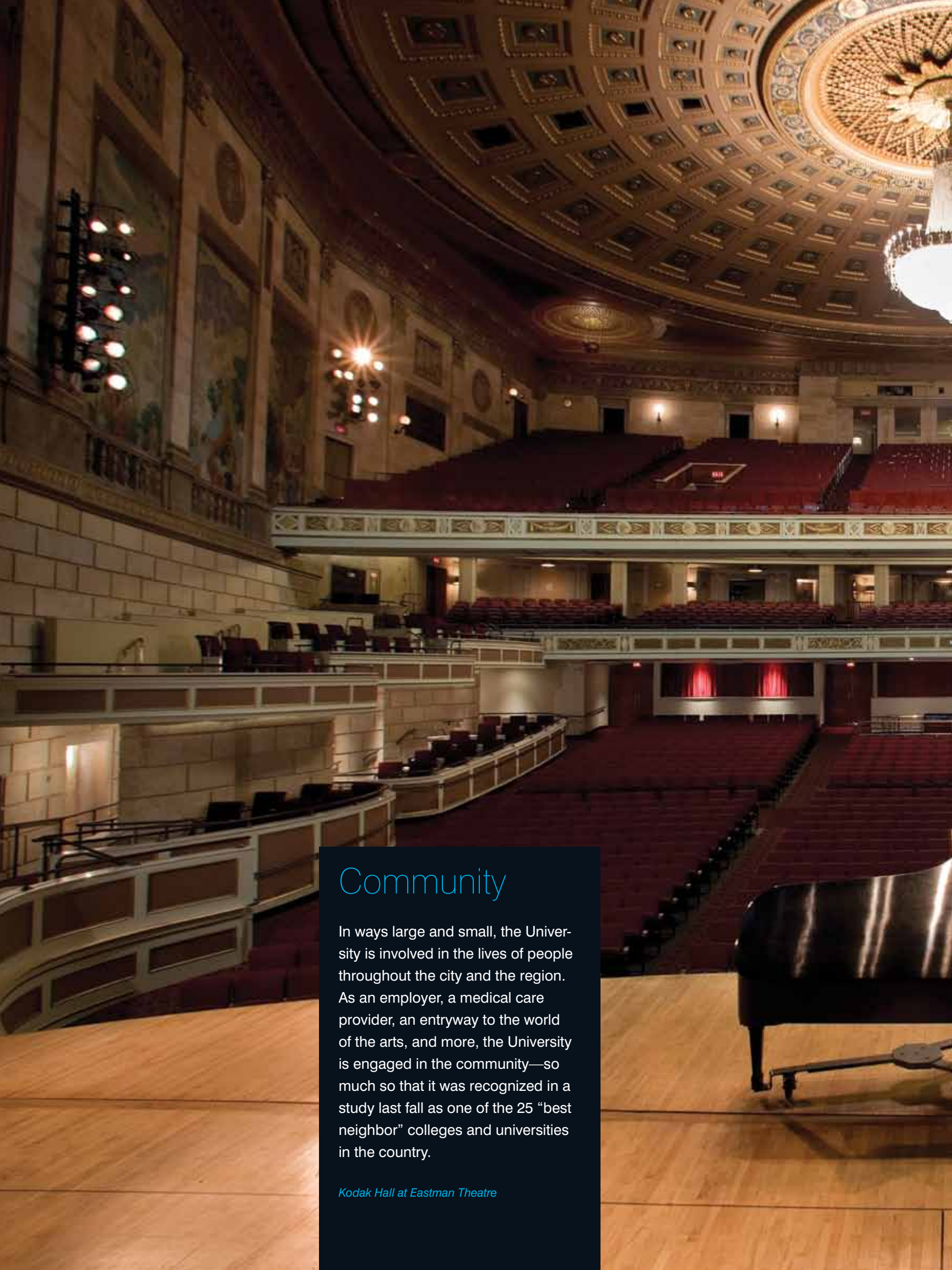


exploring the potential of deep-brain stimulation—a procedure that has proven effective in treating other conditions involving the brain, such as Parkinson's disease—to treat the approximately 10 percent of sufferers of OCD who do not find relief through medication or behavioral therapy.

Suzanne Haber, PhD, a professor of pharmacology and physiology at the Medical Center and an expert on the anatomy and circuitry of the brain, directs the center.

Haber is recognized around the world as a thought leader in the field of deep-brain stimulation," said Webster Pilcher, MD, PhD, chair of the Department of Neurosurgery. "This new project, designed to translate her groundbreaking investigations of the neural circuitry underlying obsessive-compulsive disorder into new treatment strategies for patients, is what the Del Monte Neuromedicine Institute is all about."





## Community

In ways large and small, the University is involved in the lives of people throughout the city and the region. As an employer, a medical care provider, an entryway to the world of the arts, and more, the University is engaged in the community—so much so that it was recognized in a study last fall as one of the 25 “best neighbor” colleges and universities in the country.

*Kodak Hall at Eastman Theatre*







Contemporary banner from project exhibit



## Celebrating the Opening of Kodak Hall

It's a new era for the transformed Kodak Hall at Eastman Theatre, the Eastman Schools' premier performance space. While the hall retains its grand elegance from 1922, renovations—including orchestra- and mezzanine-level boxes and reshaped walls—update acoustics and improve patron amenities. With the removal of some 800 seats in back rows, concertgoers now enjoy more comfortable gathering spaces, including an expanded inner lobby and five new lounges.

Renamed Kodak Hall in recognition of a \$10 million commitment from Eastman Kodak Company, the opening was celebrated with a gala musical event featuring the premiere of *Geo*, composed by Eastman School Dean Douglas Lowry in honor of George Eastman.

The renovation was the first phase of a two-phase project. The second phase—the creation of a new addition for performance and rehearsal spaces as well as faculty studios, extending the Eastman Theatre's façade along Rochester's Main Street, as first envisioned by George Eastman—opens in December 2010.

## Rochester's Civil Rights Struggle Preserved in University Web Site

By any measure, the race riots of 1964 were a turning point in Rochester's history. Three nights of rioting left 4 people dead, 350 injured, and more than 800 arrested. They also broke through complacency toward racial discrimination, and the city became the birthplace of several civil rights strategies that would serve as models across the nation.

To capture this critical chapter in civil rights history, the Department of Rare Books and Special Collections has launched the Rochester Black Freedom Struggle Oral History Project, recording and making available online interviews

with more than 20 key players in Rochester's fight against racial discrimination in the 1960s and 1970s.

The project's Web site ([www.library.rochester.edu/rochesterblackfreedom](http://www.library.rochester.edu/rochesterblackfreedom)) offers text, audio, and video files of these conversations. "Actually hearing the interviews is more powerful than anything I could describe," says Rare Books Librarian Phyllis Andrews, who led the project. "For today's student, 1964 can seem like ancient history. This oral history project will help to bring those events to life and create a permanent resource for continued study and learning."



Ribbon cutting at the opening of Kodak Hall at Eastman Theatre



## Something Old, Something New

In December, the Memorial Art Gallery celebrated the opening of two new galleries showcasing ancient art collections, thanks to a \$1 million donation from longtime MAG friend and supporter Helen Berkeley. Among the highlights of the new Helen H. Berkeley Gallery of Ancient Art—featuring works from ancient Egypt, Greece, and Rome—is a rare pair of fourth-century Egyptian coffins. A few steps away is *At the Crossroads*, a gallery exhibiting works from the ancient Middle East and the Islamic world.

## Eastman Dental Urgent Care Opens

To address the area's increasing need for dental care, Eastman Dental of the Eastman Institute for Oral Health has opened an urgent care clinic. It is the region's only dedicated urgent dental care facility and can accommodate up to 60 patients a day.

A majority of Eastman Dental patients have no regular source of dental care and depend on emergency clinics for their dental needs.

"The new clinic not only improves our services, but also represents an opportunity to increase understanding about the importance of preventive dental care and oral health," says Eastman Dental Urgent Care Chief Yan-Fang Ren, an associate professor of dentistry.

The state last year awarded a grant to build the urgent care clinic and make renovations at the Elmwood Avenue site and to increase capacity and upgrade facilities at Eastman Dental Downtown.

"Research strongly indicated a direct link between oral health and general health, and people who rely on an emergency clinic for their dental care are also more likely to rely on hospital emergency rooms for their medical care," says Cyril Meyerowitz, DDS, director of Eastman Institute for Oral Health and chair of the Department of Dentistry. "It is our goal to help patients understand the importance of disease prevention and make the transition from the urgent care system into the primary care system for their dental as well as general health needs."



## Getting the Lead Out

The U.S. Environmental Protection Agency (EPA) awarded the 2009 Environmental Justice Achievement Award to the Coalition to Prevent Lead Poisoning, the University of Rochester, the City of Rochester, Monroe County, and Empire Justice in recognition of their "outstanding leadership in community-based efforts to prevent childhood lead poisoning in the City of Rochester."

These and many other local groups have worked together since 2000 on a wide range of community-based efforts that led to a historic lead abatement ordinance approved by the city in 2005.

The University's role in efforts to identify health problems caused by lead exposure has spanned decades and departments. Research conducted at the Medical Center in the 1990s documented the impact of even slightly elevated blood lead levels

on children's cognitive development and IQ and directly linked this poisoning with the concentration of lead in the dust on the floors of their homes, which informed federal standards for lead in dust. Medical Center researchers also participated in a landmark study published in 2003 that indicated that children encounter health problems even at blood lead concentration levels below the thresholds deemed "safe" by the Centers for Disease Control and Prevention.

The Coalition to Prevent Lead Poisoning was created in 2001 in the wake of studies showing that children in the City of Rochester had blood lead levels that were 10 times the national average. University faculty and staff have been in leadership positions at the coalition since its inception and have also been instrumental in several community outreach programs combating lead.



# Financial Statements

\* “Grants and Contracts” are reported on an accrual basis using industry standards and include grants from both government and charitable foundation sources.

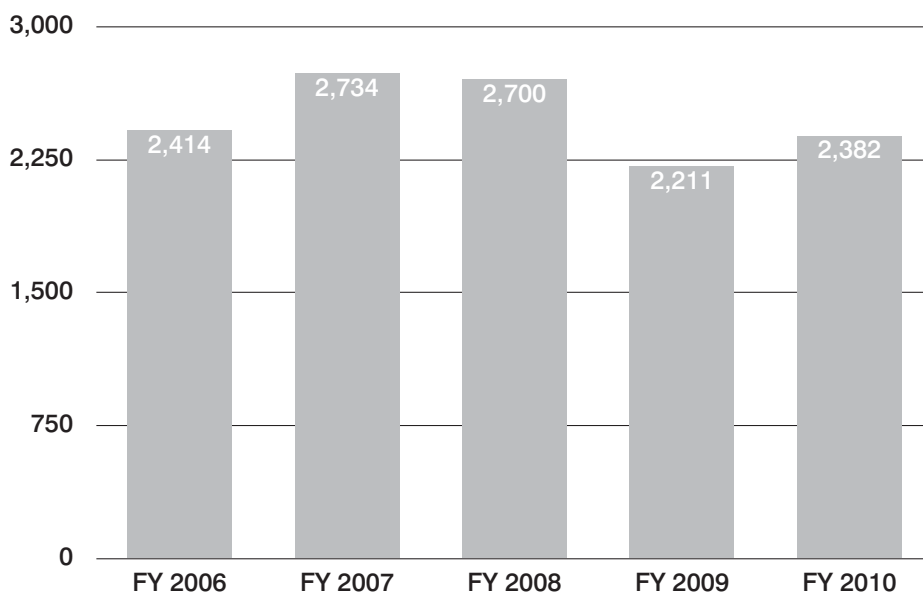
† “Outright Gifts and Unconditional Pledges” are reported at net present value on an accrual basis using GAAP guidelines and do not include charitable grants; nor does this represent the total gift and pledge activity counted separately by Advancement per industry guidelines. This figure does not equal the total cash chart on page 32, which is also based on advancement industry definitions of total cash.

Operating Revenues (in thousands)	2010	2009
Tuition and Fees	\$321,252	\$300,480
Less: Scholarships and Fellowships	(132,222)	(120,416)
Net Tuition and Fees Subtotal	189,030	180,064
Grants and Contracts*	419,643	385,136
Gifts and Pledges†	47,962	65,221
Hospital and Faculty Practice Patient Care Activities	1,708,304	1,599,123
Auxiliary Enterprises	77,248	73,730
Royalty Income	38,978	42,975
Other Sources	58,573	38,768
Endowment Investment Income & Gains Allocated to Operations	86,349	93,151
<b>Total Operating Revenue</b>	<b>\$2,626,087</b>	<b>\$2,478,168</b>

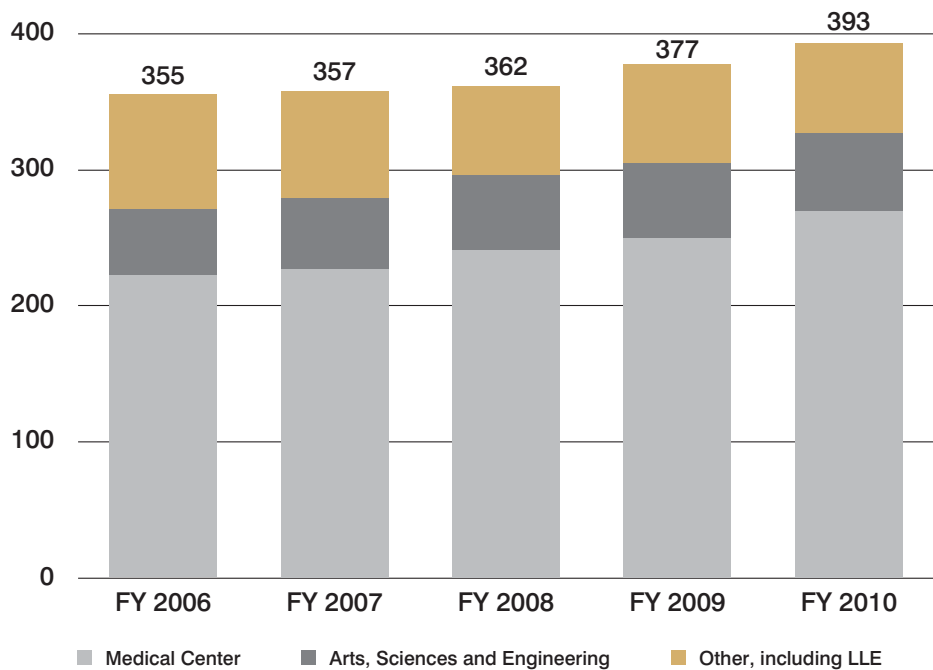
Operating Expenses (in thousands)	2010	2009
Salaries and Wages	1,244,373	1,209,480
Fringe Benefits	353,387	320,057
Total Compensation	1,597,760	1,529,537
Supplies, Business & Professional	529,890	527,143
Utilities, Maintenance & Facilities Costs	157,261	153,373
Depreciation & Interest	170,010	167,762
Other	63,202	70,559
<b>Total Operating Expenses</b>	<b>\$2,518,123</b>	<b>\$2,448,374</b>
Change in Net Assets from Operating Activities	107,964	29,794

Non-operating Activities (in thousands)	2010	2009
Investment Income, Gains/Losses, Net	155,141	(380,147)
Endowment Investment, Income & Gains Allocated to Operations	(86,349)	(93,151)
Other Changes Net	(6,227)	(44,807)
Change in Net Assets from Non-Operating Activities	62,565	(518,105)
<b>Change in Net Assets</b>	<b>\$170,529</b>	<b>(\$488,311)</b>

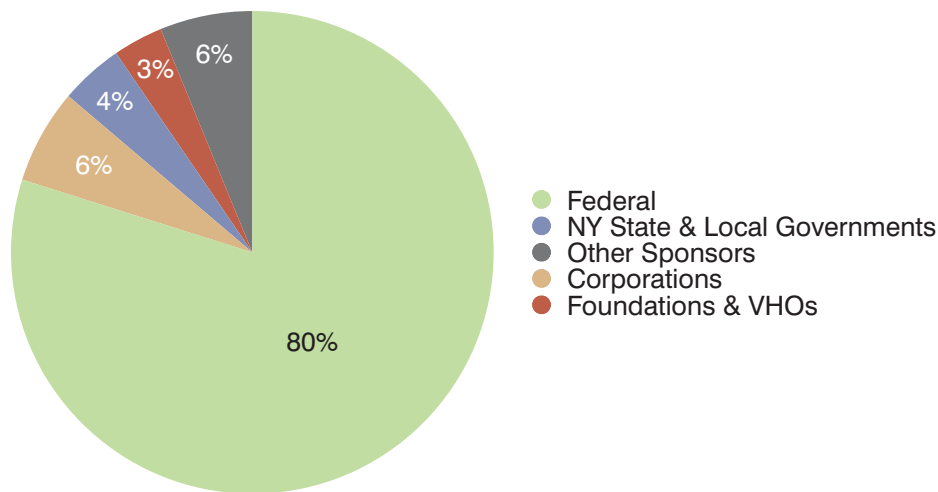
## Total Net Assets (in \$millions)



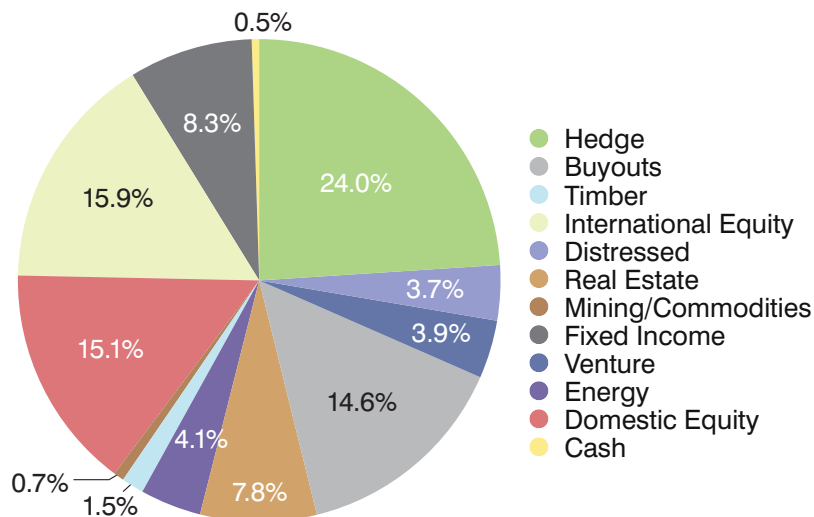
**Sponsored Program Expenditure (in \$millions)**



**Sponsored Program Expenditure**



**Endowment Asset Allocation**



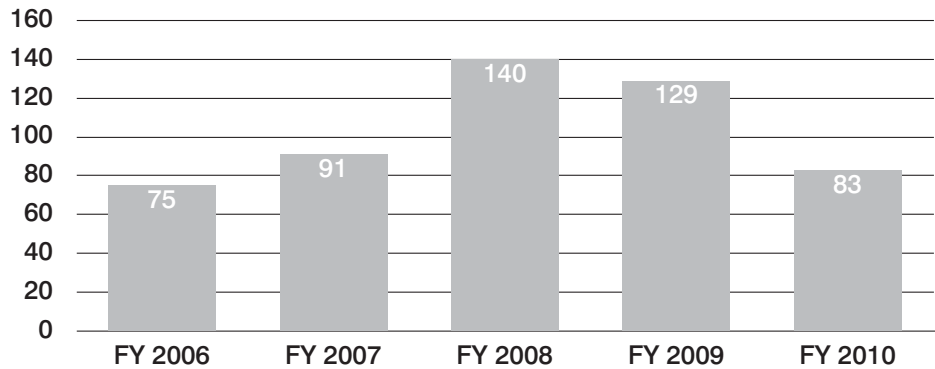


# Advancement Key Metrics

## Total Commitments

Total Commitments is the measure of all new gift activity generated in the current fiscal year. It is comprised of outright gifts and new pledges. Through June 30, 2010, we booked Total Commitments of \$83.3 million, which was 73 percent of Advancement's Fiscal 2010 Business Plan projection. Compared to prior year performance, this represented a decline of 35.6 percent. This year-over-year decline was driven by the band of gifts >=\$1 million, which showed a decline of 67 percent and was due to a number of transformational gifts in this band from Fiscal Year 2009.

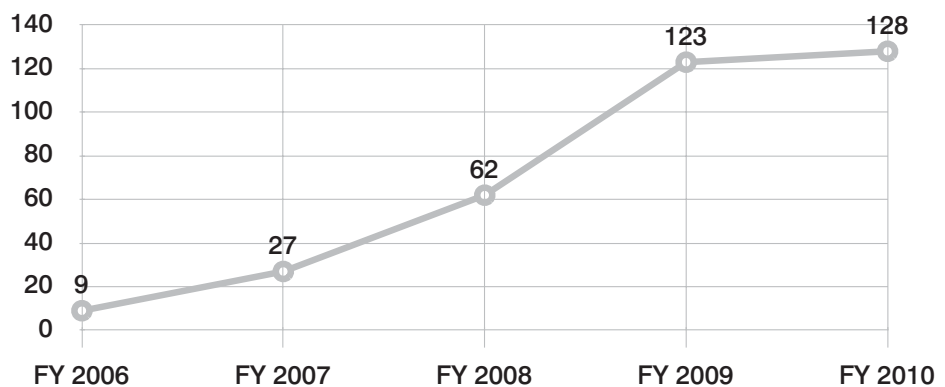
Total Commitments (in \$millions)



## Book of Business Year-end Balance

Despite the heavy draw (Prior Year Payments) on the book of business in Fiscal 2010, the University managed to replace all of that and add nearly \$5 million to the book, ending the Fiscal Year at \$128 million. The current book is composed of approximately \$86 million or 67 percent of pledges due to mature in fewer than ten years and \$42 million, or 33 percent, due to mature in greater than 10 years.

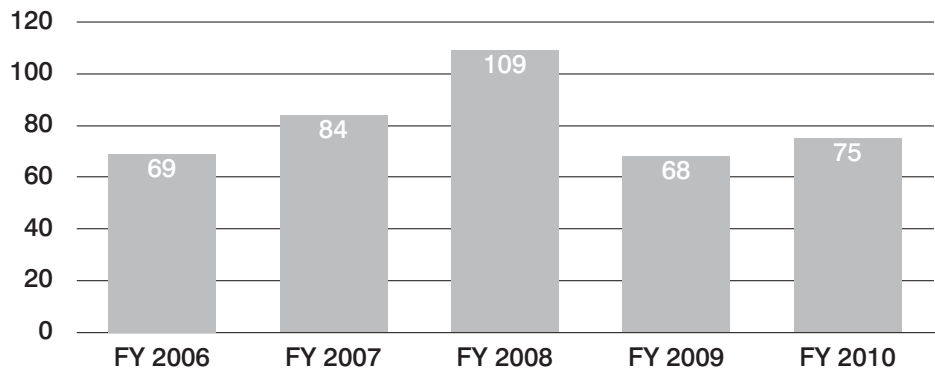
Book of Business Year-end Balance (in \$millions)



## Total Cash

Total Cash booked through June 30, 2010, was \$75 million, which was 80 percent of Advancement's Fiscal 2010 Business Plan target of \$93.4 million. This represents a 9.7 percent growth over the Fiscal 2009 total cash number of \$68.4 million and met our revised target that we had adjusted in response to the global recession. Fiscal Year 2010 cash performance was driven by Prior Year Payments, which represented 33 percent of the full-year number.

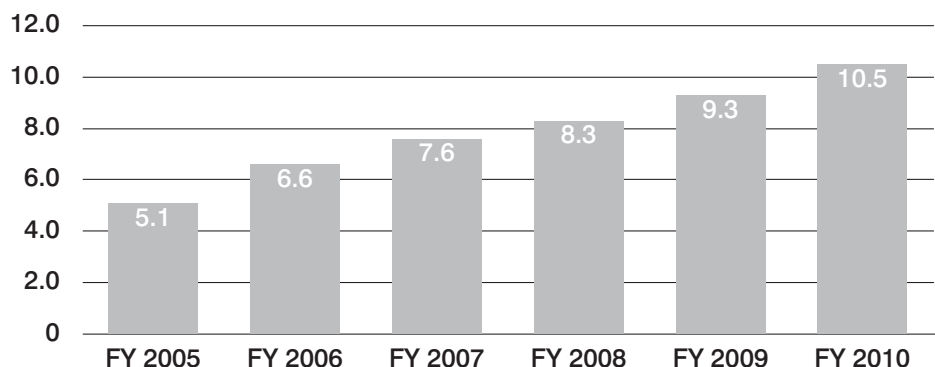
Total Cash (in \$millions)



## Annual Fund Total Cash

The University of Rochester surpassed a significant milestone virtually unheard of in higher education: *doubling its Annual Fund in five years*. The Annual Fund raised \$10.5 million in Fiscal 2010, nearly a 14 percent growth over Fiscal 2009. This achievement was two years ahead of the business plan estimates and was driven by the success of the George Eastman Circle program.

Annual Fund Total Cash (in \$millions)



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*Current as of October 25, 2010*





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