UNIVERSITY OF ROCHESTER

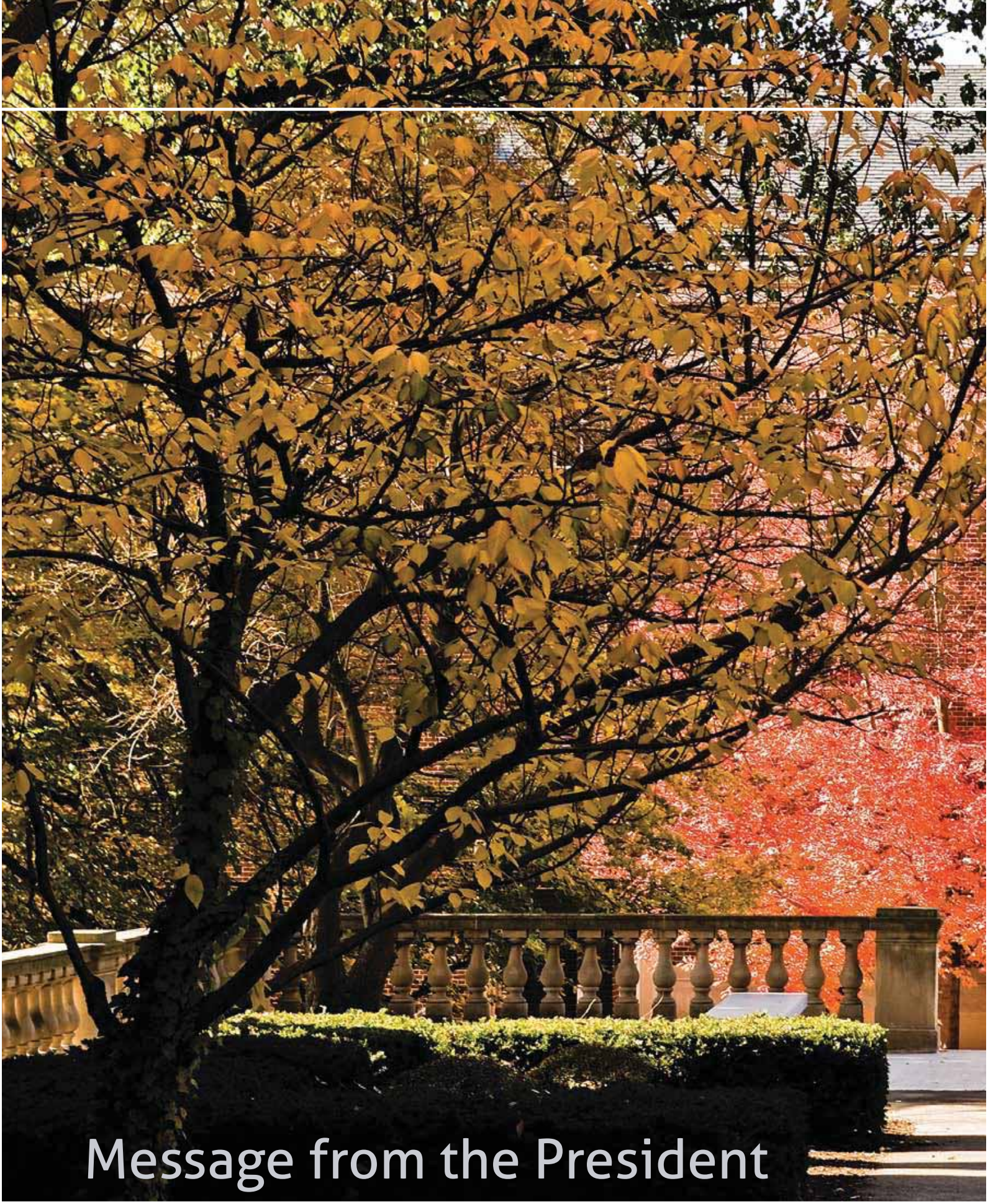
2008–2009 Annual Report

COVER: Detail of metalwork near the main stage, Strong Auditorium, River Campus

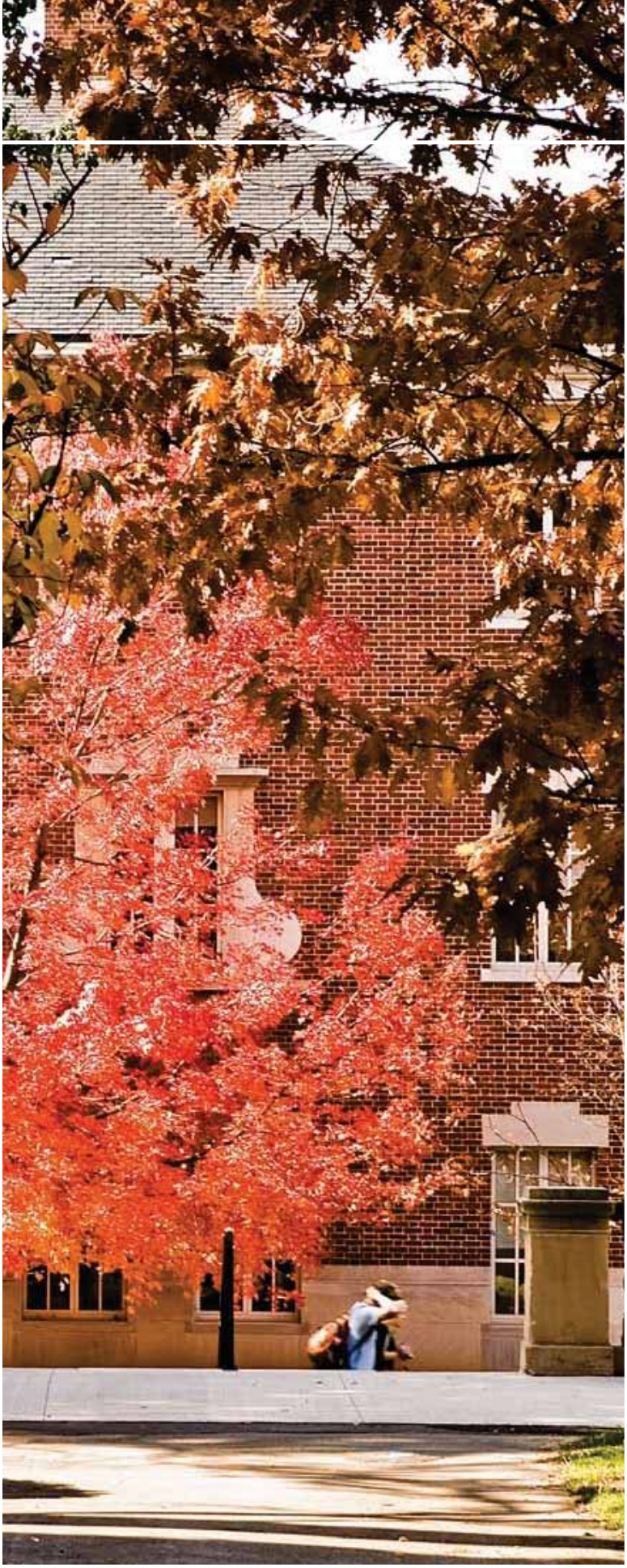
UNIVERSITY OF ROCHESTER

Annual Report

2008–2009



Message from the President



As our nation comes out of a historic recession, the University is well positioned to revitalize implementation of our strategic plans.

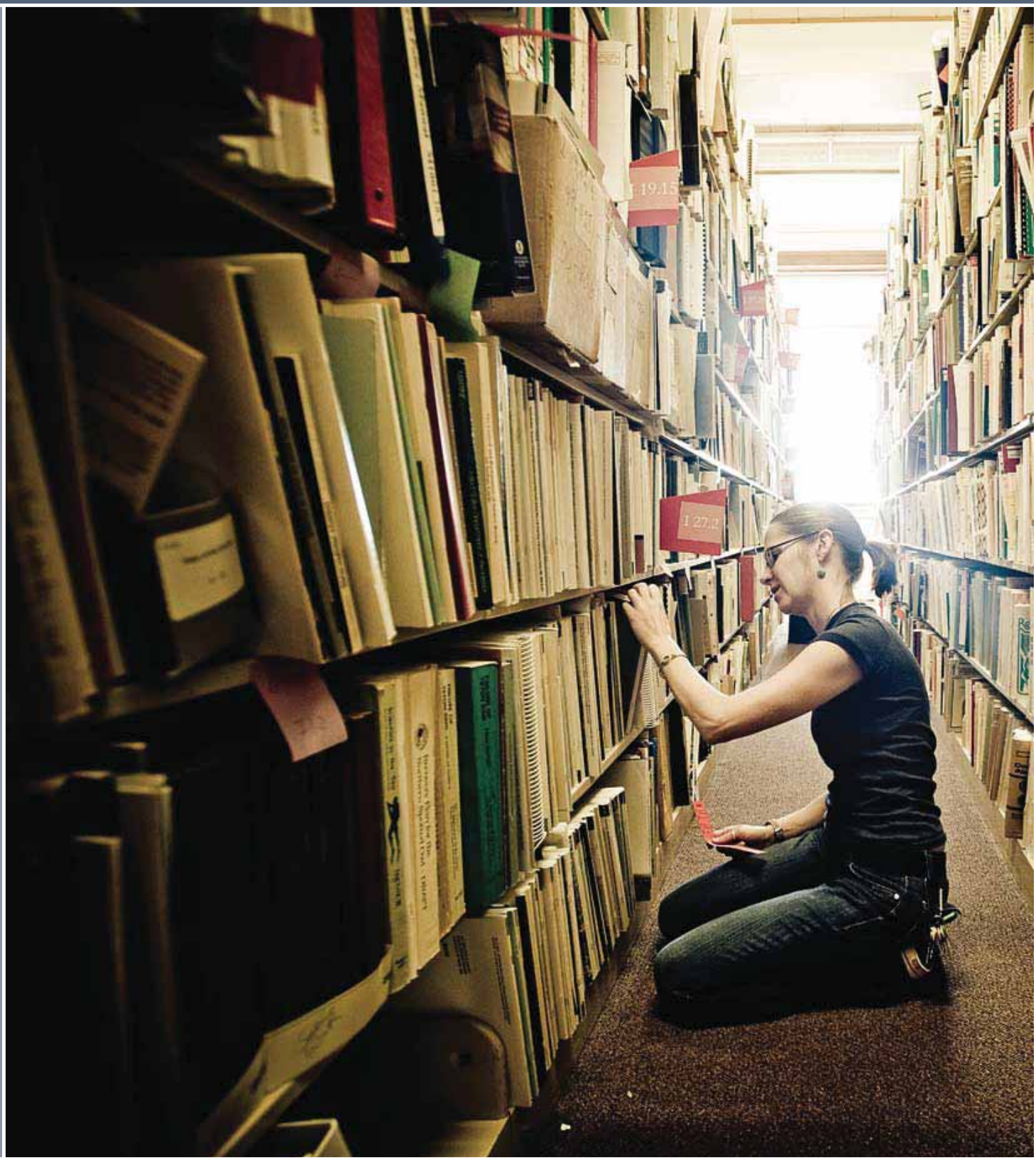
In my message a year ago, I stressed the need to combine perseverance with caution in the 2008–2009 fiscal year, given the gravity and uncertainty of the economic climate. Our University benefited from the work of our investment team, whose prudent management paid off in the past year. Richard Handler, who chairs the investment committee of our Board of Trustees, and Doug Phillips, our senior vice president for institutional resources, did an excellent job.

We are grateful to the many friends and alumni who made gifts in spite of having endured losses themselves. Let me make special mention of Ed Hajim, Chairman of the Board of Trustees, and Ernest Del Monte, a life trustee of the University. Ed committed a record $30 million to scholarship and endowment support for the since renamed Edmund A. Hajim School of Engineering and Applied Sciences. Ed's gift will strengthen the school for years to come. Ernest and Thelma Del Monte announced a $10 million gift toward a new neuromedical institute that promises to make Rochester a national center for research and treatment of Alzheimer's, Parkinson's, and other neurological diseases.

The faculty continued to turn out groundbreaking research in a variety of fields, and the College admitted an outstanding class from a record number of applicants. The excellence of the University also is evidenced by the number of coveted honors received this past year. Our faculty were recognized by the American Academy of Arts and Sciences, the National Academy of Sciences, and the National Science Foundation, among other prestigious bodies; and our undergraduate student body included winners of the most selective national fellowships, including Churchill, Goldwater, and Fulbright awards.

We begin the new academic year with renewed optimism and dedication to our University's fundamental value, Meliora.

Joel Seligman



Among the stacks at Rush Rhees Library

Discovery

Rochester continues to be a national leader in producing groundbreaking research. In February 2009, an annual survey by the Association of University Technology Managers, or AUTM, placed Rochester among the top 10 institutions in the nation in the amount of royalty revenue it receives from its licensed technologies. "Royalty revenue is one of several important measures of the quality and productivity of our scientists," said President Joel Seligman. "It is also an indication that the research that is being done at the University of Rochester is a source of innovation that can form the basis for new technologies, commercial products, advances in health care, and new companies and jobs."

In addition, Rochester continued its climb in sponsored research grants, topping off a record $389 million last fiscal year with an increase of nearly 8 percent in research expenditures from September to March 2009 of this fiscal year. Particularly noteworthy were the remarkable 200 percent raise in NIH funding for the School of Nursing, a highly competitive National Cancer Institute grant to support the expansion of lymphoma research and clinical trials at the James P. Wilmot Cancer Center, and the groundbreaking for the Clinical and Translational Science Building, scheduled for completion in summer 2011.

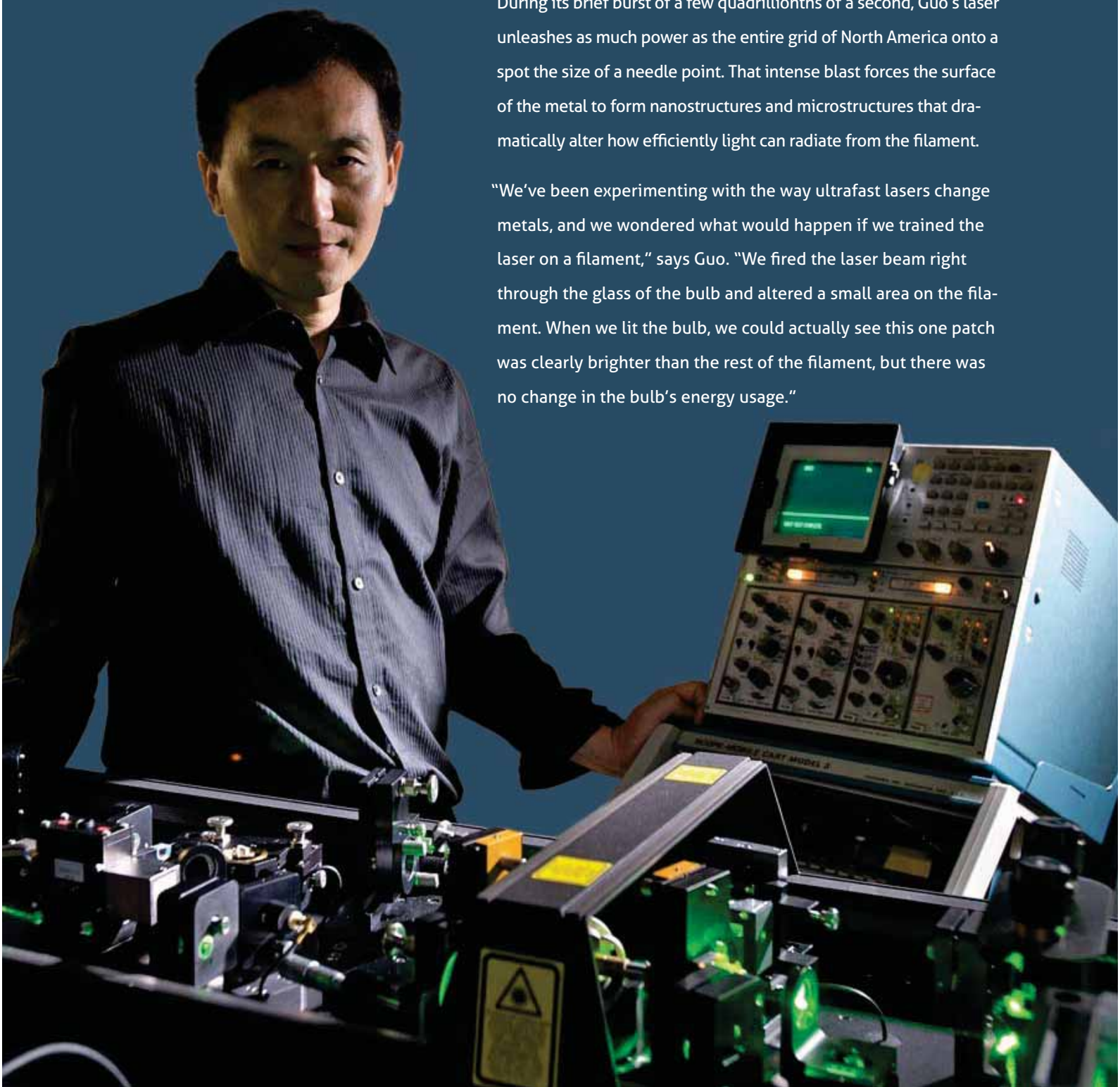
Green Light

Chunlei Guo, associate professor of optics, harnessed an ultrafast laser to make significant progress toward the production of an efficient incandescent light bulb.

Guo's discovery could make a light as bright as a 100-watt bulb consume less electricity than a 60-watt bulb while remaining far cheaper and radiating a more pleasant light than a fluorescent bulb can.

During its brief burst of a few quadrillionths of a second, Guo's laser unleashes as much power as the entire grid of North America onto a spot the size of a needle point. That intense blast forces the surface of the metal to form nanostructures and microstructures that dramatically alter how efficiently light can radiate from the filament.

"We've been experimenting with the way ultrafast lasers change metals, and we wondered what would happen if we trained the laser on a filament," says Guo. "We fired the laser beam right through the glass of the bulb and altered a small area on the filament. When we lit the bulb, we could actually see this one patch was clearly brighter than the rest of the filament, but there was no change in the bulb's energy usage."



Open Letter Book Makes Its Mark

Dubbed the "break-out" book for the fall of 2008 by *Publishers Weekly,* the novel *Nobody's Home,* by acclaimed Croatian author Dubravka Ugresic, was the first book published by Open Letter Books, the University's translation press.

"It is absolutely crucial that voices like Ugresic's be heard and made available to English readers," says Chad Post, director of Open Letter. "There is much to learn from her perspective on the world, her brilliant writing style, and I think this is true of all of our books this year."

The press's inaugural list of 12 modern classics and contemporary works of fiction featured authors from Brazil, Iceland, Lithuania, Norway, and France. Only about 3 percent of all books published in the United States yearly are works in translation. For literary fiction and poetry, the number falls to less than 1 percent.

In its debut year, Open Letter—one of the only publishing houses in the United States dedicated to finding, translating, publishing, and cultivating an audience for world literature—has gained a national reputation. The press's literary blog, Three Percent (www.rochester.edu//threepercent), attracts as many as 50,000 visits a month from readers, educators, authors, translators, and publishing insiders.

Open Letter presented the new Best Translated Book Awards, and its ongoing Reading the World Conversation Series—part of the University's Humanities Project—brought to campus prominent international authors, including Ugresic, Bragi Olafsson, and Jan Kjaersad, and renowned literary translators. Among other notable events, the press hosted a reading by actress Jessica Lange of famed Catalan writer Mercè Rodoreda, the translation of whose *Death in Spring* was published by Open Letter, at the Baryshnikov Arts Center in New York City.

The press plays an integral role in the University's one-of-a-kind certificate and degree programs in literary translation studies. A new master's degree program in literary translation, which will complement the undergraduate program already in place, was approved by New York State, and the University plans to recruit students to the program for the 2010–11 academic year.

Faculty Awards

H. Allen Orr Wins Rare Darwin-Wallace Medal

On February 12, the 200th birthday of Charles Robert Darwin, **H. Allen Orr,** the University Professor and Shirley Cox Kearns Professor of Biology, received the rare Darwin-Wallace Medal from the Council of the Linnean Society of London, the world's oldest active biological society.

The Darwin-Wallace Medal is given only once every 50 years. Twelve other awardees, including such evolutionary giants as the late Professor Stephen Jay Gould, also received the award.

A specialist in speciation, Orr researches how genes cause reproductive isolation between species, how they function normally, and what evolutionary forces drive the parent species to bifurcate into two incompatible species. His innovative combination of studies on the biology of *Drosophila* and theoretical work proved the "dominance theory" of Haldane's Rule—a hypothesis that has been controversial since it was proposed in 1922.

Ronald Jones Elected Distinguished Fellow of American Economics Association

In May, Xerox Professor of Economics **Ronald Jones** was one of only three economists in the nation selected as a distinguished fellow of the American Economics Association, the premier scholarly organization in economics. Jones was recognized for his lifetime contributions to the theory of international trade.

Dianne C. Morrison-Beedy Inducted into American Academy of Nurse Practitioners

In June, **Dianne C. Morrison-Beedy,** a professor and assistant dean for research in the School of Nursing, was inducted into the American Academy of Nurse Practitioners. The Academy, which honors as fellows those nurse practitioners who have made outstanding contributions to health care through clinical practice, research, education, or public policy, honored Morrison-Beedy for her research in HIV awareness and prevention.

Carlos Sanchez-Gutierrez Receives Prestigious Fromm Music Foundation Award

Carlos Sanchez-Gutierrez, an associate professor at the Eastman School, was one of only 12 composers in the nation to be selected for the Fromm Commission, considered one of the most prestigious awards in composition. The $10,000 awards from the Fromm Music Foundation at Harvard University commission new works from contemporary composers. Sanchez-Gutierrez, who has written for choirs, orchestras, and ensembles, will write a composition to be premiered in 2010 during New York City's Look and Listen Festival.

William D. Jones Wins Award for Research on Petroleum Refinement

William D. Jones, the C. F. Houghton Professor of Chemistry, received an Arthur C. Cope Scholar Award from the American Chemical Society for his research on petroleum refinement. Jones, a specialist in organometallic chemistry, a field with many "green" applications, has devised a method to convert hydrocarbons in petroleum directly into materials used in end products such as medicines, plastics, or other fuels.

Berislav Zlokovic Wins Major Award for Alzheimer's Research

Berislav Zlokovic, the director of the Center for Neurodegenerative and Vascular Brain Disorders, was awarded the 2009 Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases by the American Academy of Neurology. Zlokovic's research has demonstrated how the brain's vascular system and blood-brain barrier play key roles in ridding the brain of the toxic protein that is present in the brains of Alzheimer's patients.

Eastman School's New 'Old' Organ Debuts

The Craighead-Saunders Organ, a breathtaking 30,000-pound instrument that is the only one of its kind in the United States, made its highly anticipated public debut last fall.

The result of an eight-year research and construction project conducted on two continents, the Craighead-Saunders Organ replicates a rare and historic instrument built in 1776 in Lithuania by celebrated organ builder Adam Gottlob Casparini. Installed in Christ Church on Rochester's East Avenue, the new organ is the first one in the United States to be built completely in the late–18th-century central and northern European style. An international team of organ builders painstakingly researched the original instrument, the only remaining example of a large organ by Casparini, in an effort to duplicate historic organ-building processes that could capture the grand enveloping sound characteristic of late Baroque organs.

Hans Davidsson, a professor of organ at the Eastman School, directed and oversaw the construction and installation of the organ, which is named in honor of two legendary Eastman faculty organists: Professor Emeritus David Craighead and the late Russell Saunders.

The project provides "the community with an organ more suitable for the music of Johann Sebastian Bach than anywhere else in North America," says Davidsson.

The Craighead-Saunders organ is part of the Eastman Rochester Organ Initiative, a long-range project to make Rochester a global center for organ research and performance.

Besides the Eastman School, partners in the Craighead-Saunders project include the Episcopal Diocese of Rochester, the Göteborg Art Center in Sweden, and the Lithuanian Ministry of Culture. All of the new organ's mechanicals were built by hand in Sweden and transported to Rochester, where the organ was constructed in Christ Church. Approximately 25 feet wide and 24 feet high, it has 2,000 pipes and sits on a balcony 12 feet above the sanctuary floor.

"The inauguration of the Craighead-Saunders Organ is the result of a major collaboration to preserve and give life to an important artifact of musical and cultural history," says Doug Lowry, dean of the Eastman school. "It's an important milestone in the development of the Eastman Rochester Organ Initiative."

Research Highlights

The University was awarded a multimillion-dollar federal grant to participate in the National Children's Study, a National Institutes of Health–sponsored study tracking a representative sample of 100,000 children in 105 locations, with a goal of improving the health of all youngsters by examining how genes and the environment interact to influence growth and development. It is the nation's largest study of the health and well being of children from birth to age 21. The Rochester component of the research will be led by **Shanna Swan,** a professor of obstetrics and gynecology and environmental medicine, and **Peter Szilagyi,** a professor of pediatrics and community and preventive medicine. Researchers are particularly interested in knowing more about the factors influencing such conditions as autism, cerebral palsy, learning disabilities, birth defects, diabetes, asthma, and obesity.

University scientists have discovered that the hormone estrogen plays a pivotal role in how the brain processes sound. The research, led by **Raphael Pinaud,** an assistant professor of brain and cognitive sciences, points toward the possibility that estrogen controls other types of sensory processing as well and might open the door to new ways of treating hearing deficiencies.

A planet whose existence was predicted in 2006 by **Alice Quillen,** an associate professor of physics and astronomy, was photographed by the Hubble Space Telescope, making it only the second planet ever imaged after an accurate prediction—the first was Neptune, discovered more than 160 years ago. Quillen, one of the world's experts in predicting planet size and position from the features of a star's dust ring, predicted that a planet of a particular size and orbit must lie within the dust of Fomalhaut, a nearby star.

Researchers have unraveled a key mechanism of cellular damage in aging and disease in a study that takes a first snapshot of how a class of highly reactive molecules inflicts cellular damage as part of aging, heart disease, stroke, cancer, diabetes, kidney disease, and Alzheimer's disease, among other conditions. The study, conducted by **Shey-Shing Sheu,** a professor of pharmacology and physiology, and other researchers, reveals a chemical tool that can monitor related damage and determine the degree to which antioxidant drugs effectively combat disease.

University scientists—led by **Todd Krauss,** an associate professor of chemistry—along with researchers at Eastman Kodak Company have created a nanocrystal that constantly emits light, perhaps opening the door to dramatically less expensive and more versatile lasers, brighter LED lighting, and biological markers that track how a drug interacts with a cell at a level never before possible.

A system of opposing genetic forces determines why mammals develop a single row of teeth, while sharks sport several, according to research by **Rulang Jiang,** an associate professor of biomedical genetics, and colleagues. The study gives the first solid proof that the precise space where mammals can develop teeth is most likely shaped and restricted by a specific gene and that each tooth signals to the next to develop—findings that may help efforts to regrow missing teeth and to prevent cleft palate, one of the most common birth defects.

The next major advance in computer processors will likely be the move away from today's two-dimensional chips to three-dimensional circuits. **Eby Friedman,** Distinguished Professor of Electrical and Computer Engineering, is cocreator, with engineering student **Vasilis Pavlidis,** of the first three-dimensional synchronization circuitry—a cube that optimizes all key processing functions vertically, through multiple layers of processors, making possible functions unachievable with a regular two-dimensional chip.

A research team led by **Vera Gorbunova,** an assistant professor of biology, has designed a gene that produces a thousand times more protein in cancer cells than in healthy cells. The findings may help address the prime challenge in anti-cancer therapy: improving treatments' ability to specifically and effectively target cancer cells.

Machines on cell surfaces, mechanical and lifeless as bed springs, protect blood vessels by responding to blood flow force, according to research by **Keigi Fujiwara,** a professor of medicine, and colleagues. By sensing and reacting to force, such machines interfere with inflammatory pathways central to atherosclerosis, the cause of clogged arteries that lead to heart attack and stroke. A next set of studies, already under way, seeks to "tweak" the process with the goal of designing a new class of therapies.

In a study led by **Krystel Huxlin,** an associate professor of ophthalmology, patients who had gone partially blind as a result of suffering a stroke were able to regain some vision by doing a set of vigorous visual exercises on a computer every day for several months. Such rigorous visual training is not common for people who become blind after a stroke, in contrast to treatment provided for speech or movement difficulties, where rehabilitation is common and successful.

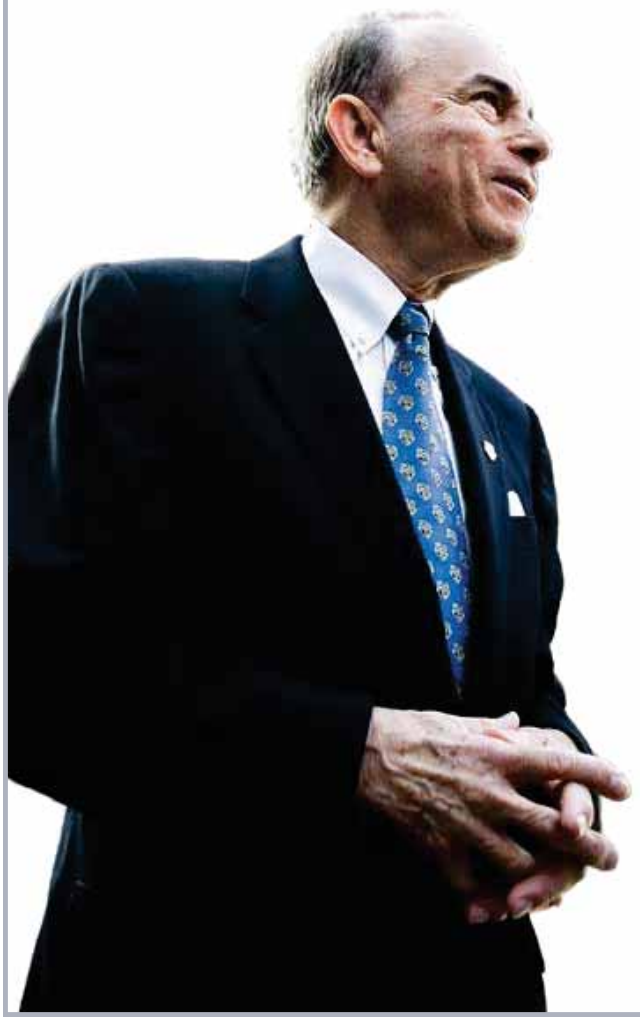
Detail of mosaic in Helen H. Berkeley Gallery of Ancient Art at the Memorial Art Gallery

Leadership

The 2008–09 year witnessed several milestones among trustees, deans, and alumni dedicated to advancing Rochester's ambitious goals in research and teaching.

Leaders demonstrated their generosity and confidence in the University by giving record amounts amidst the nation's greatest financial crisis since the Great Depression.

A theme across several divisions was the extension of scholarship support to expand opportunities for the most talented students to earn degrees at one of our six schools.



Ed Hajim Gives Unprecedented $30 million Gift Commitment to Engineering School

School is Renamed the Edmund A. Hajim School of Engineering and Applied Sciences

In October 2008, chairman of the Board of Trustees Ed Hajim '58 made the largest single gift commitment in the University's history. On July 1, the engineering school, which is the recipient of the $30 million gift, was named the Edmund A. Hajim School of Engineering and Applied Sciences in recognition of this historic gift and other contributions Hajim has made to the University over the course of the more than 20 years he has served as a trustee.

The gift will support scholarships for students with significant financial need as well as the school's endowment. Hajim, who attended the University on an NROTC scholarship, stressed that he was particularly pleased to help support "exceptionally talented students whose families simply do not have the financial resources to attend a world-class research university like Rochester. These are the students who will help ensure our nation's continuing success in a world of ever greater competition."

Commenting on the timing of the gift, following the financial meltdown that began on Wall Street in September 2008, President Seligman said, "So extraordinary a gift even at this time of great uncertainty in the economy is a powerful sign of Ed's faith in our University." The support for the endowment, he added, will guarantee the long-term financial strength of the school.

$10 Million Gift to Transform Neuromedicine

In June, Ernest J. and Thelma Del Monte announced a $10 million gift toward a neuromedicine institute that promises to launch the Medical Center's neuromedicine program into a nationally recognized, comprehensive center for investigating and treating neurological conditions such as Alzheimer's disease, Parkinson's disease, muscular dystrophy, stroke, and trauma to the brain and spinal cord.

Del Monte, who is a life trustee of the University as well as the chairman of the E. J. Del Monte Corporation, a Rochester-based company that owns and operates hotels, said, "Neuromedicine is one of the most promising endeavors that the University has undertaken. We have all the necessary ingredients to be successful internationally. My hope is that this gift will be the force to help scientists and clinicians collaborate seamlessly so that one day, from this Institute, the cure for Alzheimer's disease, stroke, and other neurological disorders will emerge. I truly believe we can do it."

Del Monte added that his family's $10 million gift is the first installment toward what he hopes will amount to a $20 million commitment to the Institute over time. At $10 million, the Del Monte contribution is the second largest gift in the history of the Medical Center.

Memorial Art Gallery Receives $1 Million Gift to Fund New Gallery of Ancient Art

In September 2008, Helen H. Berkeley, a longtime Memorial Art Gallery supporter and former president of the volunteer fundraising group, the Gallery Council, made a $1 million gift to renovate and reinstall the museum's antiquities gallery and to establish the Helen H. Berkeley Fund for Art Conservation.

The new gallery, to be called the Helen H. Berkeley Gallery of Ancient Art, will showcase a rare pair of fourth-century Egyptian coffins now on display on MAG's first floor, as well as other objects from Egypt, the eastern Mediterranean, and the Middle East.

Grant Holcomb, director of the Memorial Art Gallery, said, "Helen's magnificent and visionary gift honors the Gallery's collection, mission, and near 100-year legacy."

Marjorie B. Searl, the museum's chief curator, stated, "The Berkeley gift puts into motion a project that has been in the planning process for a number of years. The opportunity to present these significant works of art within the context of new research and interpretation continues the Gallery's mission of bringing the world within reach of our visitors—a group that includes the many students and teachers who make extensive use of this part of the collection."

Simon School Dean Offers $1 Million Gift for Scholarships, Endowment

Mark Zupan, dean of the William E. Simon Graduate School of Business Administration, made a $1 million endowment commitment to the school in April, the largest by any current or previous business school dean.

While Zupan remains dean of the Simon School, his gift will provide scholarship support to international and domestic students at the school. When he finishes his service as dean, the gift will become available to his successors as an endowed fund to support innovation and the entrepreneurial spirit at the Simon School.

In announcing his award, Zupan said that he was inspired in part by the gift of $30 million from board chairman Edmund Hajim. "Ed could have impressed us with a smaller gift, but that wouldn't have been enough for him," said Zupan. "His gift inspired me to stretch, too, even if at a more modest level."

Zupan mentioned another motivation for his gift. His mother, Maria, was among the first women to earn a doctorate in chemistry from the University. "My mother was an international scholarship student, and the scholarship support made it possible for her to come here, earn her degree and provide a career for herself and a livelihood to support her family. That ultimately added to my own opportunities as a professor and administrator and eventually provided the means to be able to make a commitment to give back to Rochester."

University Awards

Goergen Awards

At the 2008–09 University Convocation, the University recognized the 2008 winners of the Goergen Awards for Contributions to Undergraduate Education in the College.

Winning the Goergen Award for Distinguished Achievement and Artistry in Undergraduate Teaching were **Fred Cohen,** professor of mathematics; Robert Foster, professor of anthropology; and **James Longenbach,** professor of English.

Nigel Maister, a senior lecturer in English and director of the University of Rochester **International Theatre Program,** accepted the Goergen Award for Curricular Achievement in Undergraduate Education on behalf of the theater program.

Jane Possee, the associate director of athletics and recreation, won the Goergen Award for Distinguished Contributions to Undergraduate Learning.

Named Professorships

Thomas Slaughter, an American historian who joined the University last fall, was installed as the first the Arthur R. Miller Professor of History. The professorship is named in honor of its benefactor, **Arthur R. Miller** '56, '08 (Hon), a University Professor at New York University School of Law and one of the nation's preeminent scholars in the field of civil procedure.

Susan McDaniel, the director of the Institute for the Family in the Department of Psychiatry and associate chair of the Department of Family Medicine, was installed as the first Dr. Laurie Sands Distinguished Professor of Families and Health at the School of Medicine and Dentistry. The professorship, made possible by a gift from the Sands family, is named in honor of **Laurie Sands** '76M (MD), a physician who practiced internal medicine in Rochester from 1979 until her death in 1995.

Jannick Rolland, a professor of optics and of biomedical engineering, was installed as the first Brian J. Thompson Professor of Optical Engineering. The professorship is named in honor of **Brian Thompson,** provost emeritus, former dean of engineering, and former director of the Institute of Optics. The post was endowed by **John Bruning,** the former CEO of Corning Tropel Corp. to recognize Thompson for his leadership in optics and engineering at Rochester. Rolland also serves as an associate director of the Robert E. Hopkins Center for Optical Design and Engineering at the Institute of Optics.

Ronald Schmidt, who developed and chaired the University's Executive Development (M.B.A.) Program at Erasmus University in the Netherlands, was named the first Janice M. and Joseph T. Willett Professor of Business Administration for Teaching and Service at the William E. Simon Graduate School of Business Administration. The professorship is named in honor of longtime Simon School benefactors **Janice Willett** '78S (MBA), a trustee and financial writer and editor, and her husband, **Joseph Willett** '75S (MBA), a former CFO of Merrill Lynch and Co. Inc. and retired COO of Merrill's European region.

Toni Whited, an expert in finance, macroeconomics, and econometrics, was formally installed Feb. 24 as the first Michael and Diane Jones Professor of Business Administration at the Simon Graduate School of Business. The professorship is named in honor of trustee **Michael Jones** '76 and his wife, **Diane.** Michael Jones was CEO and cofounder of Brighton, N.Y.–based Clover Capital Management, which was acquired by Pittsburgh-based Federated Investors Inc. in 2008. Jones remains chief investment officer of Federated Clover Investment Advisors.

Meliora Awards

Each spring, staff members nominate extraordinary colleagues whose commitment and achievements demonstrate the University motto, Meliora. At the May 2009 Trustees meeting, the following University staff members received awards:

John Borrelli, the director of finance and administration at Eastman Dental Center, whose work was integral to the center's successful bid for a Health Care Efficiency and Affordability Law (HEAL) state grant of nearly $4 million to expand oral health care services in Rochester's underserved communities;

Steve Clary, the computing and information services manager at Health Sciences Libraries and Technologies, whose contributions include transforming the Blackboard learning system and student portal to become a growing resource for the entire University community;

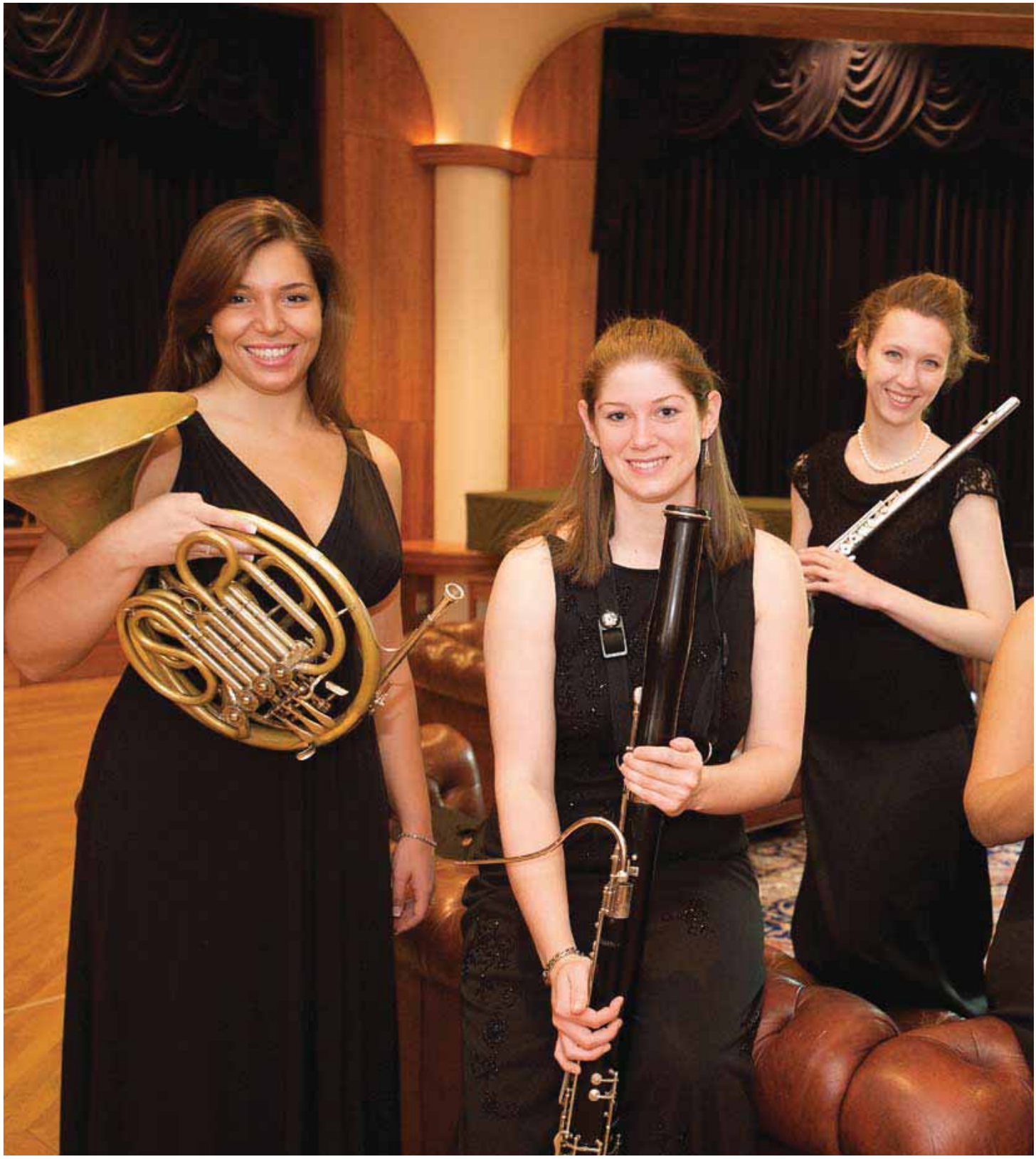
The **Eastman Circle's** leadership team—Jennifer Faler, Debbie Jacob, Stephanie Katz, Martha Krohn, Christine Lafountain, Sam Lopez, Erin Moyer, Jonathan Schwartz, and Becky Wehle—who overwhelmingly surpassed the initial goals of the initiative, bringing in over 1,000 charter members and more than $21.5 million in gifts and pledges.

Pledge Made Toward Making Medical School Tuition Free

On the 55th anniversary of his graduation from the University of Rochester School of Medicine and Dentistry, Robert Brent '48, '53M (MD), '55M (PhD), and his wife, Lillian '50, pledged $2 million to match donations to a scholarship fund to make the medical school tuition free.

The Brents' pledge is a significant step in addressing the problem of medical school debt, a major issue for medical students. Ninety percent of the medical students in the School of Medicine and Dentistry's class of 2008, for example, borrowed money to attend the school. Their average debt at graduation was $140,475.

"It is our dream to make the University of Rochester School of Medicine and Dentistry a school free of tuition, or, at least, to markedly reduce the tuition costs," said Brent, a Rochester native and an internationally known physician and researcher.



Eastman School of Music's Arabesque Winds

Student Life

In the classroom and out, Rochester students find many outlets for the their energy, creativity, curiosity, and drive. From forging new links with city neighbors and inventing fresh solutions for a greener campus to taking part in once-unimaginable musical collaborations and earning long-established academic honors, students are the pulse and the pride of our University.

A New Housing Option Strengthens City Ties

There's a new alternative for Arts, Sciences, and Engineering students who want more latitude to live independently while still being close to campus.

Last fall, about 400 students moved into Riverview Apartments, a new housing option located on the west bank of the Genesee River, across from the River Campus. The goal is to provide flexibility for students while also helping to tie the University to Rochester's neighborhoods.

"We are very proud of this development because it not only improves the neighborhood and waterfront, it complements other developments in the area," said Rochester Mayor Robert Duffy at Riverview's opening ceremony. "I applaud the University of Rochester for their leadership on this and numerous other efforts to make Rochester a greater place to live, work, and do business."

Privately owned, the newly constructed apartments are inhabited solely by University students. The five-building, 120-unit complex was inspired by Brooks Landing, says Ronald Paprocki, the University's senior vice president for administration and finance, chief financial officer, and treasurer. Opened in 2008, Brooks Landing is a hotel and retail development near Riverview that houses the University's Human Resources employment office and its Finance Department.

Student representatives from Riverview engage in community projects. "The University is working with the neighbors to design programs to connect our students to the community," says Laurel Contomanolis, director of residential life. Similar to student resident assistants in dorms, community assistants at Riverview coordinate student volunteer involvement, such as shoveling the walks of senior citizens and mentoring children in area schools.

The complex filled to capacity and generated a lengthy waiting list, Contomanolis says. The furnished apartments offer amenities not found in on-campus housing, including air conditioning, kitchens, and separate living rooms.

A Better Bus, Fueled by French Fries

A team of College undergraduates put fast food's fatty byproduct to good use with UR Biodiesel, a student-led project that converts excess fryer oil from campus dining services into biodiesel to fuel shuttle buses. The first bus took its maiden voyage on Earth Day.

Team members David Borrelli '09, Dan Fink '09, and Eric Weissmann '10 designed the UR Biodiesel lab, located on Wilson Boulevard, to be sustainable. They repurposed items from across campus to build the processor, pumps, and tanks needed for conversion.

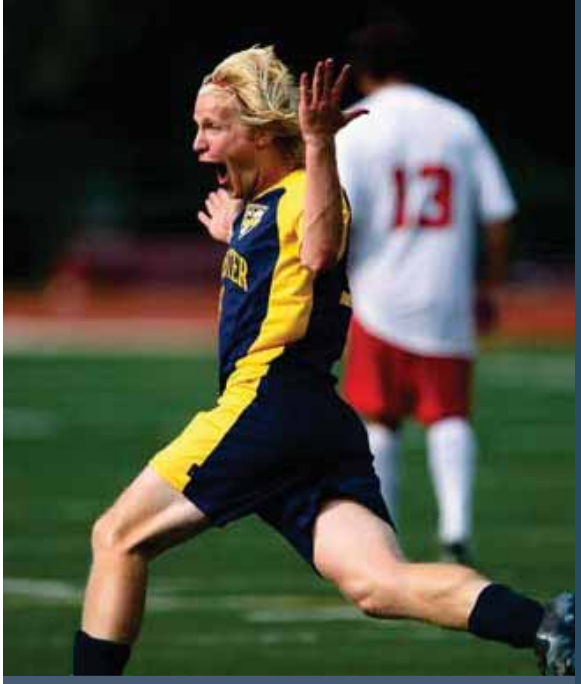
While UR Biodiesel focuses heavily on green rewards, there's a significant academic component to the effort. Ben Ebenhack, a senior lecturer in the Department of Chemical Engineering and the team's faculty advisor, allowed Borrelli and Fink to run experiments in his lab to test the science behind the biodiesel processor. Ebenhack has also encouraged students in his Energy Alternative Design Lab to take on UR Biodiesel as a class project.

"Students respond enthusiastically to opportunities to apply their engineering education to real problems and issues," says Ebenhack. "To have a venue that thrusts them together to work on the technical and social aspects is very valuable; they're working together and sharing ideas."

Producing a batch of biodiesel fuel takes about three days. A tanker—actually, an old, tractor-driven watering tank formerly used by the campus grounds workers and converted for its new task by the students—sucks oil from Dining Services receptacles holding the waste vegetable oil. Filtered, mixed with the necessary chemicals methanol and lye, and washed, the oil is ready. It fuels a 38-foot Bluebird bus donated by Parking and Transportation Services and now sporting a student-created design chosen in a competition sponsored by the Art and Art History Undergraduate Council.

Student interest in sustainability is high, Weissmann says, and besides, he observes, there's just something irresistibly satisfying about the project.

"To take gunk and put it in a bus and drive that bus on something we used to pay to get rid of—that's cool to me."



Sports Highlights

The **women's basketball** team was ranked No. 1 for six straight weeks and played in the NCAA Sweet 16 for a fourth straight season.

The **squash** team finished ranked third nationally, its highest ranking ever.

The **men's soccer** team went to its fourth straight NCAA playoff appearance, a school record.

The **baseball** team won its first ever UAA championship and set a single-season record for victories, winning 30 games.

The **softball** team went to its third straight NCAA playoff appearance and set a single-season record for victories for the third year in a row.

Lia Weiner '11 of the women's tennis team won the Intercollegiate Tennis Association Northeast Regional Singles Championship.

All-Americans

Joshua "J.J." Dennstedt '10, men's soccer
Mike Chmielowiec '09 , men's basketball
Julie Marriott '09 , women's basketball
Jim Bristow '10 , squash
Hameed Ahmed '11 , squash
Benni Fischer '12 , squash
Beth Ameno '09 , softball
Lia Weiner '11 , women's tennis

Awards & Honors

Patrick Sheehan '11, a double degree student in physics and astronomy and mathematics, and **Sean Virgile '10,** a biomedical engineering major with a minor in economics, were named 2009 Barry M. Goldwater Scholars. The scholarship, endowed by the U.S. Congress, is a competitive fellowship for undergraduate students in science, math, and engineering.

A record ten students—**Laura Dobrynzski '10, Jessica Gambacurta '10, Damian LaRue '10, Shirley Liang '10, Libby Miga '10, Natalie Scott '11, Stephen Supoyo '10, Ashley Tamilio-Awed '10, Rachel Twardowski '10,** and **Victoria Yam '10**—were awarded Benjamin A. Gilman International Scholarships in spring 2009. Sponsored by the U.S. Department of State, Bureau of Educational and Cultural Affairs, the award offsets the cost of study abroad.

Downbeat, often described as "the bible of jazz," has named the **Eastman New Jazz Ensemble** as the best college big band in the magazine's 32nd annual awards issue in June. The publication also chose a composition by Eastman musician **Jeremy Siskind '08** —recorded in Kilbourn Hall shortly before his graduation—as one of the best original songs.

The **Eastman Youth Jazz Orchestra,** a 23-member ensemble of the Eastman Community Music School, won the Big Band category in the first annual Charles Mingus High School Competition. The competition was part of a three-day festival held at the Manhattan School of Music last February, celebrating renowned bass player, pianist, bandleader, and composer Mingus.

Arabesque Winds, a woodwind quintet of Eastman School musicians, won the Coleman-Saunderson Prize for Woodwinds and Brass in the 63rd annual Coleman Chamber Ensemble Competition. The Harvard Musical Association also awarded the group the 2009 Arthur W. Foote Prize, awarded to a performer or performers of the highest musical caliber of university or conservatory level who are about to launch a professional music career.

Kristin Beck '09, a double degree student in physics and mathematics, was named a 2009 Churchill Scholar and this fall is pursuing her studies of quantum optics at the University of Cambridge.

YouTube™ Symphony Orchestra

Nicholas Fitton '11 was named a winner in the YouTube Symphony Orchestra Project. The YouTube Symphony, known as the world's first collaborative online orchestra, performed classical composer Tan Dun's *The Internet Symphony* under renowned conductor Michael Tilson Thomas at Carnegie Hall in April, with Fitton playing the piccolo part.

Harvest Zhang, a student from the Eastman Community Music School, was selected as a piano finalist.

Zhang Zuo '10 was one of just 29 pianists from around the world to compete in the Thirteenth Van Cliburn International Piano Competition in May. The quadrennial event is "one of the music world's main events," according to the *St. Louis Post-Dispatch.*

University of Rochester Medical Center

Clinical Care

The University of Rochester Medical Center is emerging as upstate New York's premier medical center, transforming the way health care is conceived and delivered. Cultivating strong ties with the regional community and offering clinical care infused with research by faculty from the School of Medicine and Dentistry and the School of Nursing, the Medical Center offers clinical programs that give even those with the most complex medical conditions reason for hope.

Medical Students Open Free Health Care Clinic

In a time of economic stress, School of Medicine and Dentistry students have opened a weekly free clinic for the homeless, working people without insurance, and those with insurance whose financial problems limit access to health care.

The clinic, held at Asbury First United Methodist Church in Rochester, is part of UR Well Student Outreach, through which medical students work in the community.

"Medical students are looking for more opportunities for clinical experience and more opportunities to serve the uninsured and under-insured in the community," says Robert Fulton, a School of Medicine and Dentistry student in the Class of 2011 who helped organize the clinic.

The clinic's mission is to address acute concerns—such as respiratory infections, rashes, injuries, and musculoskeletal complaints—as well as exacerbations of chronic conditions, including congestive heart failure, chronic obstructive pulmonary disease, asthma, diabetes mellitus, hypertension, and gastroesophageal reflux disease.

For almost five years, School of Medicine and Dentistry students have also provided health care at St. Joseph's Neighborhood Center one evening a week to many who have no insurance.

Fulton and C. McCollister Evarts, Distinguished University Professor and a professor of orthopaedics, conceived and developed the new project with assistance from Nancy Shafer Clark, assistant professor of medicine. Evarts, an Asbury trustee, worked with church officials to identify space for the clinic and obtained equipment and supplies.

Volunteer physicians and nurse practitioners from the Department of Emergency Medicine and the Department of Orthopaedics and Rehabilitation as well as physicians who are members of Asbury Church supervise the clinic. More than 50 students have volunteered to work there.

"The project will bring health care to the truly needy. It is part of the church's community mission and also an exceptional educational experience for medical students," says Evarts.

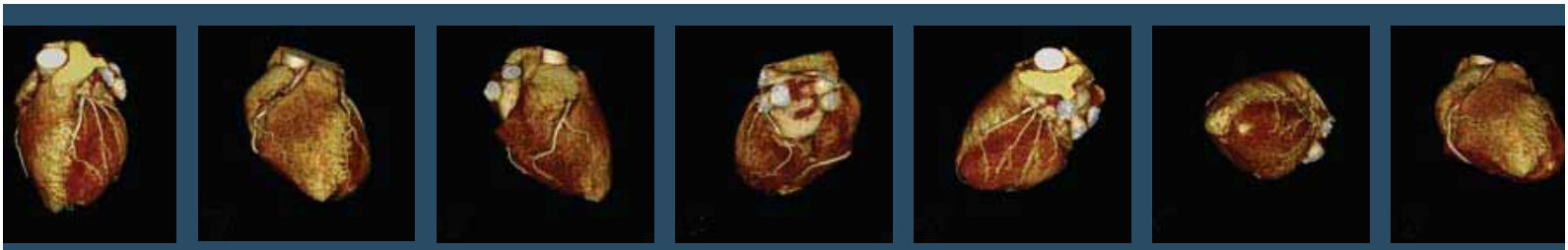
Region's Only Palliative Care Unit Opens at Strong

The Albert and Phyllis Sussman Palliative Care Unit opened at Strong Memorial Hospital in April. It offers 12 private rooms with family-friendly amenities and medical care offering the best quality of life for patients and their families as patients also receive the best possible disease management.

Palliative care provides medical treatment and comfort care during all stages of serious illness and differs from hospice, which provides comfort care in the last stages of life.

"This beautiful, spacious unit was uniquely designed so patients may receive the most modern palliative care treatments alongside any medically indicated treatments in a family-friendly environment," says Timothy Quill, professor of medicine, psychiatry, and medical humanities, and chief of the Palliative Care Division of University of Rochester Medical Center. "Our specialty-trained physicians, nurses, and multidisciplinary team are dedicated to relieving pain and other uncomfortable symptoms while helping patients and families receive the best possible treatment for their medical condition."

Named in honor and memory of Albert and Phyllis Sussman, the Palliative Care Unit was made possible in large part through a gift from a charitable trust created by Albert following Phyllis's challenging experiences as a lymphoma patient.



New Imaging Technology Provides 3D Views of the Heart

Cardiac and radiology specialists are using leading-edge technology to see the heart and its vessels more clearly than ever before instead of performing more invasive tests some patients may not require.

Called CT angiography, or computed tomography angiography, the technology allows physicians such as cardiologist John Gassler, assistant professor of medicine in the Cardiology Unit, and David Dombroski, assistant professor of imaging sciences, to create detailed images of the heart arteries to ascertain if a patient requires traditional invasive diagnostic angiography.

This latest advance in noninvasive cardiac imaging allows for visualization of internal structures within the human body by creating a collection of 64 thin-slice images that, when combined, form a three-dimensional view of the patient's anatomy.

This level of detail provides an opportunity when caring for patients considered low-risk who have atypical chest pain or patients who have had a stress test with slightly abnormal results, for physicians to quickly and noninvasively eliminate coronary artery disease as the source of the symptoms.

"The 64-slice imagery allows us to see a detailed look at the heart as well as the lungs and chest structure, sharing an unprecedented view that ultimately can save the patient from having to undergo a minimally invasive procedure unnecessarily," Dombroski says. "It is an incredibly powerful tool to help us better diagnose and manage heart disease."

Golisano Children's Hospital One of Nation's Best in Pediatric Orthopaedics

Golisano Children's Hospital at the University of Rochester Medical Center was ranked 25th in Pediatric Orthopaedics in *U.S. News & World Report*'s 2009 edition of *America's Best Children's Hospitals.* The annual survey was sent to 160 pediatric institutions nationwide.

"We are delighted that Golisano Children's Hospital has been recognized nationally for the expert care we are known for regionally," says Nina Schor, chair of the Department of Pediatrics and pediatrician-in-chief at Golisano Children's Hospital.

Golisano Children's Hospital serves more than 100,000 children from the 17-county Finger Lakes Region and beyond every year, both as inpatients and outpatients. It houses 24 beds and 34 pediatric specialties and subspecialties, including pediatric orthopaedics.

"Our recruitment of Dr. James Sanders as chief of pediatric orthopaedics two years ago represented an important collaboration that included the Medical Center, the Department of Orthopaedics and Rehabilitation, the Department of Pediatrics, and the community to make the Rochester area a leading center for pediatric musculoskeletal health in the United States, says Regis O'Keefe, chair of the Department of Orthopaedics and Rehabilitation.

"The pediatric orthopaedic team has enhanced musculoskeletal health for children throughout the region. We are extremely excited about this recognition of their outstanding care."

Urologic Surgeons Perform Cutting-Edge Minimally Invasive Surgery

Urologists are advancing the frontiers of minimally invasive surgery as they introduce single-port access surgery to the Rochester region.

Beginning in November 2008, Guan Wu and Hani Rashid, assistant professors of urology, have performed single-port access surgery entirely through the navel, including one procedure believed to be the nation's first single-incision laparoscopic surgery to remove both kidneys from a patient.

Traditional laparoscopic surgery involves making up to a half-dozen incisions in the abdominal area, with the number of holes dependent on the particular procedure being performed. Laparoscopic instruments and a camera are then inserted through the holes to complete the surgery; surgeons are able to view their work on video screens in real time via broadcast signals from the tiny camera.

With single-port access surgery, surgeons make only one small incision in the navel area, through which they insert flexible instruments. The tips of these newer instruments can be articulated and rotated 360 degrees, giving surgeons the ability to reach all necessary areas in a procedure.

Single-port access surgery "is the next evolution of laparoscopic surgery," says Wu, bringing "multiple benefits to patients such as decreased risk of wound complications, shorter hospital stays and recovery time, less pain or discomfort, and little to no scarring."

Wilson Day 2009

Community

The University's role in the community has never been greater—or more important. The region's largest employer, Rochester also produces millions of dollars of economic activity each year through grants, start-ups, and other initiatives. In November 2008, the University's Center for Electronic Imaging Systems, or CEIS, reported a record-breaking $134.5 million economic impact in New York State for the 2007–08 fiscal year. Meanwhile, at the Medical Center, on the River Campus, and at the Eastman School, faculty, staff, and students all lent their knowledge, energy, and resources to community causes.

Eastman School Welcomes First Pathways Fellows

In September 2008, the Eastman School of Music welcomed Adrian DiMatteo and Evan Henry as the first Eastman Pathways Fellows—graduates of Rochester city schools who receive scholarship support to study at the Eastman School of Music.

The Eastman Pathways program began in 1997 as a partnership between the Eastman School of Music and the Rochester City School District to provide an opportunity each year for about 75 talented middle and high school students in the city school district to study at the Eastman Community Music School. To become Pathways fellows, students must have at least two years of study at the Eastman Community Music School and meet the admissions requirements for collegiate study at the Eastman School of Music.

DiMatteo and Henry are both graduates of RCSD's School of the Arts. DiMatteo, a guitarist, performed with the Eastman Youth Jazz Orchestra and Combo while a student at the Eastman Community Music School and was twice a runner-up for the Grammy Foundation's National Jazz Ensemble.

Henry, a trumpeter-composer, was the first student in the Eastman Community Music School to win honors in both jazz and classical trumpet. His *Sonata for Brass* was premiered at the Rochester Philharmonic Orchestra's orKIDStra concert in April by the Rochester Philharmonic Youth Orchestra and Hochstein Youth Symphony Orchestra.

Medical Center Recognized for Community Care

The Medical Center was recognized by two major health care organizations for its work addressing community health problems. The Healthcare Association of New York State, or HANYS, awarded its Community Health Improvement Award to the Golisano Children's Hospital's Health-e-Access telemedicine program. VHA, Inc., a national alliance of not-for-profit hospitals and non–acute care organizations, bestowed its Leadership Award for Community Benefit Excellence to the Medical Center for its work addressing a number of public health challenges, including lead poisoning.

Health-e-Access, launched in 2001, makes use of secure software to connect pediatric patients in child care centers, schools, or community centers with their own providers at area pediatric and family medicine practices through the Internet. Specialized cameras, an electronic stethoscope, and interactive videoconferencing capabilities enable health care professionals to make a diagnosis and prescribe treatments remotely. The program is the nation's largest telemedicine network focused on direct patient access from neighborhood sites.

The Medical Center has helped to alleviate lead poisoning and other community health hazards through its ongoing collaborations with the Monroe County Department of Public Health, the New York State Department of Health, and a variety of community organizations. Together, these organizations and the Medical Center are establishing community health priorities, designing effective programs, and measuring outcomes.

These collaborations are the result of the work of the Medical Center's Center for Community Health, established three years ago to increase community-based research and programs and to strengthen community partnerships. Last year, the center moved to a new city home in closer proximity to both the population it serves and other important social service organizations.

Brooks Landing Riverfront Development Opens

In November 2008, Brooks Landing, a privately funded waterfront development directly across the Genesee River from River Campus, opened for business. The development's anchor, Staybridge Suites hotel, boasts special rates for visiting faculty, researchers, parents, and others; a selection of studios and one- and two-bedroom suites; and a wide range of meeting and banquet spaces, including an executive board room and a larger space with river views that can be configured to hold as many as 300 people.

In May, two University offices and nearly 100 University employees moved to new locations in office space adjacent to the hotel. In total, the University is leasing 20,000 square feet of space, with 8,000 square feet remaining as retail space.

Riverview Apartments, a housing complex leased by the University for undergraduates, opened in September 2008 about three blocks away on South Plymouth Avenue.

Medical Center Launches 'Science Take Out' for New York State High Schools

A November 2008 conference of New York State science teachers marked the commercial debut of Science Take Out, a Medical Center start-up company offering a line of high school science kits that can be taken "to go." Science Take Out promises to alleviate one of the most common reasons New York State high school students fail to graduate: the inability to meet the state's lab requirement due to absences on the days the class conducts lab work and enrollment at a school without the resources to permit students to make up missed labs.

The company has already developed nine individual science lab kits that can be used either at home, in schools with limited lab facilities, or by teachers eager to save time on lab prep. The kits contain all of the materials that are required to conduct the experiments and write the lab report and do not contain any hazardous materials or require any specialized equipment such as burners or microscopes.

Revenues and Expenditures

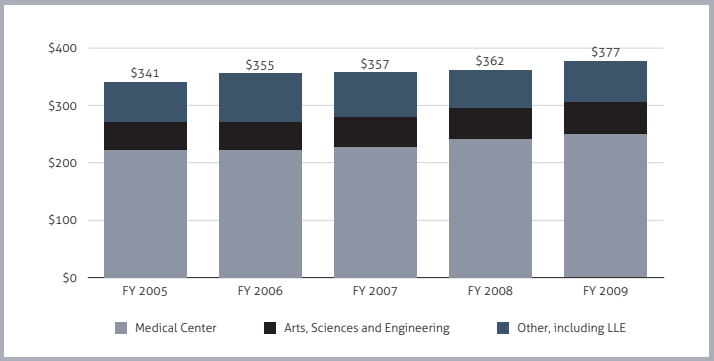
Results (in Thousands)	2009	2008
OPERATING REVENUES		
Tuition and Fees	$300,480	$269,926
Less: Scholarships and Fellowships	(120,416)	(108,378)
Net Tuition and Fees Subtotal	180,064	161,548
Grants and Contracts*	385,136	366,278
Gifts and Pledges†	65,221	98,733
Hospital and Faculty Practice Patient Care Activities	1,599,123	1,520,558
Auxiliary Enterprises	73,730	69,155
Royalty Income	42,975	64,921
Other Sources	38,768	52,253
Endowment Investment Income & Gains Allocated to Operations	93,151	85,195
Total Operating Revenue	**$2,478,168**	**$2,418,641**
OPERATING EXPENSES		
Salaries and Wages	1,209,480	1,143,813
Fringe Benefits	320,057	302,858
Total Compensation	1,529,537	1,446,671
Supplies, Business & Professional	527,143	511,152
Utilities, Maintenance & Facilities Costs	153,373	144,993
Depreciation & Interest	167,762	162,974
Other	70,559	72,945
Total Operating Expenses	**$2,448,374**	**$2,338,735**
Changes in Net Assets from Operating Activities	29,794	79,906
NON-OPERATING ACTIVITIES		
Investment Income, Gains/Losses, Net	(380,147)	(21,074)
Endowment Investment, Income & Gains Allocated to Operations	(93,151)	(85,195)
Other Changes Net	(44,807)	(7,977)
Change in Net Assets from Non-Operating Activities	(518,105)	(114,246)
Change in Net Assets	**($488,311)**	**($34,340)**

* "Grants and Contracts" are reported on an accrual basis using GAAP guidelines 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 CASE guidelines. This figure also does not equal the "Cash Gifts" report on the facing page, which is solely based on cash receipts.

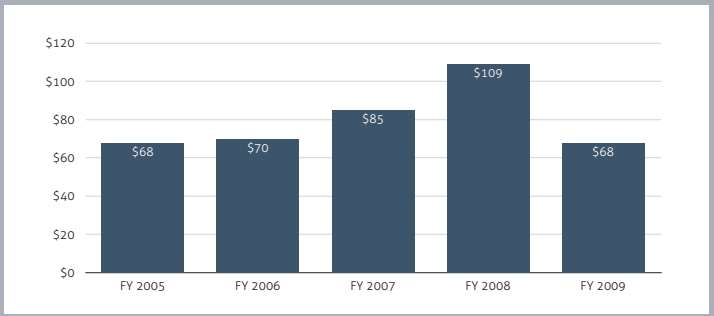
Sponsored Program Expenditures

$ IN MILLIONS



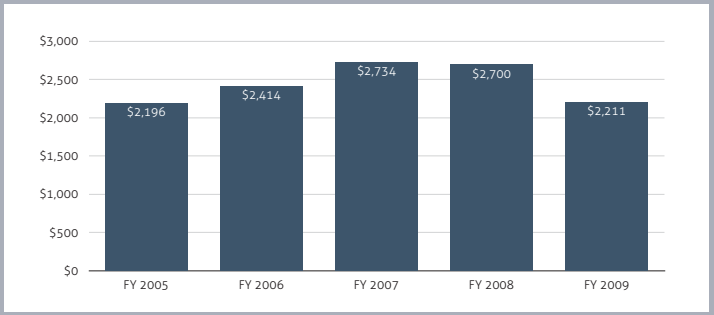
Cash Gifts†

$ IN MILLIONS

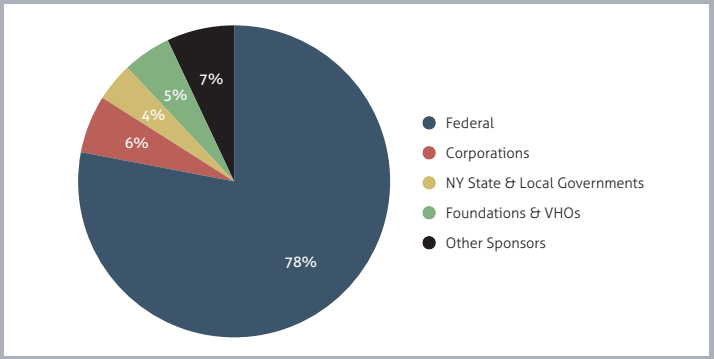


Total Net Assets

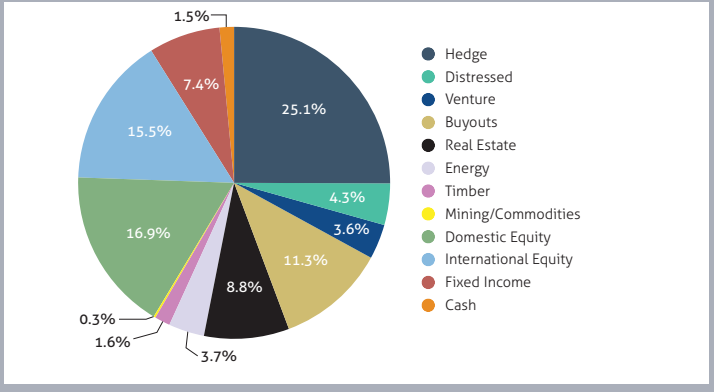
$ IN MILLIONS



Top Five Research Funding Sources



Endowment Asset Allocation



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The Genesee

Words by T. T. Swinburne, Class of 1892

Full many fair and famous streams
Beneath the sun there be,
Yet more to us than any seems
Our own dear Genesee.
We love her banks and stately falls,
For to our minds they bring
Our dear old alma mater's halls
Where sweetest mem'ries cling.

No castled crags along her way
Romantic splendors cast;
No fabled or historic lay
Recalls the golden past.
But more than battlemented walls,
Or legends they may bear,
Are alma mater's vine-clad halls
And mem'ries ling'ring there.

As flows the river gath'ring force,
Along her steadfast way,
May we along life's devious course
Grow stronger day by day.
And may our hearts, where'er we roam,
Forever loyal be
To our beloved college home
Beside the Genesee.

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