Clinton to address graduates
Honorary doctorate will be bestowed

William Jefferson Clinton will be the keynote speaker at RIT's 2007 Academic Convocation, part of the university’s 122nd Commencement. A graduate of Georgetown University, he won a Rhodes Scholarship to Oxford University in 1968. He received a law degree from Yale University in 1973 and, shortly thereafter, entered politics in Arkansas where he served as state attorney general and, later, two terms as governor. Clinton was elected president of the United States in 1992 and again in 1996. His accomplishments as president include increasing investment in education, providing tax relief for working families, helping millions of Americans move from welfare to work, expanding access to technology, encouraging investment in undervalued communities, protecting the environment, countering the threat of terrorism and promoting peace and strengthening democracy around the world.

After leaving the White House, Clinton established the William J. Clinton Foundation with the mission to strengthen the capacity of people in the United States and throughout the world to meet the challenges of global interdependence. To achieve this, the Clinton Foundation is focused on four critical areas: health security, with an emphasis on HIV/AIDS, economic empowerment, leadership development and citizen service; and, racial and ethnic religious reconciliation.

Following Hurricane Katrina in August 2005, Clinton and President George H.W. Bush established the Bush-Clinton Katrina Fund to assist survivors in the rebuilding effort. Clinton also served as United Nations Special Envoy for Tsunami Recovery. Clinton will receive an honorary doctorate of humane letters during Academic Convocation, which takes place at 10 a.m. on Friday, May 25, in U Lot.

Senior project sheds new light on the RIT campus

Foundation of Japan, will each receive an honorary doctorate of humane letters during the ceremony. Sasakawa is acknowledged as the primary advocate for the foundation's funding of the Postsecondary Education Network International, commonly called PEN-International, at RIT’s National Technical Institute for the Deaf.

Other highlights of Academic Convocation include recognition for graduating honors students, as well as faculty members who won outstanding teaching awards. Each RIT college, including the American College of Management and Technology in Croatia and the American University in Kosovo, has chosen an undergraduate student to serve as college delegate. These delegates represent their colleges on stage during the official conferral of degrees Class of 2007, page 12

It’s a green light, but it doesn’t signal “go.” That’s because it’s “green” environmentally, not in use.

To most passersby, the wind-powered walkway light—the only one of its kind on campus—and its telltale “flutter-effect” sound have gone largely unnoticed,ygues Josie Gmeinder, a fifth-year mechanical engineering major in the Kate Gleason College of Engineering and member of a team of RIT students that designed and, last month, installed the illuminator as part of a senior-design project.

But being in the limelight wasn’t the students’ aim. Rather, their project—one of seven in a new sustainable design and product-development track for multidisciplinary senior-design focus—focused on exploring the capabilities and limitations of sustainable technologies on the RIT campus and determining their feasibility for widespread use.

Air supply

Gmeinder, the chief engineer on the 18-person team of mechanical engineering and industrial and systems engineering students, and Jeff Hoover, a fifth-year mechanical engineering major, recently showed off the walkway light on an atypically balmy April afternoon. If as on cue, a gusty wind kicked up, causing the carbon-fiber-composite-reinforced blades of an ABB-X wind turbine to stop a lamppost to rotate into a blur. The resulting flutter—no louder than the engines of most passing automobiles on Cross Campus Drive—was barely discernible.

Pedestrians using a pathway adjacent to F Lot probably notice the large control box mounted near the bottom of the post more so than the whir of the 46-inch diameter rotors mounted 17 feet above their heads. Behind the padlocked door of the control box are an ammeter, analog and digital voltmeters, and two 12-volt deep-cycle batteries that are connected “in parallel”—both accepting power generated by the wind turbine and supplying power to the 20-watt light-emitting diode (commonly termed LED) lamp. Or, as Gmeinder explains, “The turbine talks to the batteries and the batteries talk to the light!” (The enthusiastic Gmeinder is as comfortable talking tech as she is at explaining what it means in layman’s terms.)

The 10-pound, 400-watt-output wind turbine—made of aircraft-quality aluminum alloy castings—can generate power as little as a breeze of seven miles per hour or from wind gusts of up to 30 mph. (At speeds higher than 30 mph, an electric brake stops the blades to prevent overcharging the battery and over-serving that could damage the blades and bearings, and to keep electrical components safe from a current spike.) A photocell—a device that detects daylight—turns on the light after dark (just like most streetlights). None of it would be possible without a sturdy lamppost and concrete base—both provided, at no cost to students, by RIT Facilities Management Services, which assumes guardianship of the light after students graduate this month. Addition ally, James Watters, RIT senior vice president for finance and administration, approved project funding of $3,500. (The project is currently under budget, Gmeinder notes with a sense of satisfaction.)

RIT is looking at numerous ways Wind-powered light, page 12

Viewpoints

President Simone defines student success, page 3

Scholarship and Research

Meet this year’s outstanding educators—recipients of distinguished Eisenhart Awards, page 4

RIT celebrates Class of 2007

A. Sue Weisler | photographer

Senior Architectural Engineering major, Jeff Hoover, left, Josie Gmeinder and Chris Chaput, fifth-year mechanical engineering majors in the Kate Gleason College of Engineering, are part of a 10-person team that designed a wind turbine-powered walkway light as a multidisciplinary senior-design project. The light, turbine and control box were permanently installed near F Lot and Cross Campus Drive last month.

The 18-year-old Clinton will serve the keynote speaker at this year’s Academic Convocation. As president, he won a Rhodes Scholarship to Oxford University in 1968. He received a law degree from Yale University in 1973 and, shortly thereafter, entered politics in Arkansas where he served as state attorney general and, later, two terms as governor. Clinton was elected president of the United States in 1992 and again in 1996. His accomplishments as president include increasing investment in education, providing tax relief for working families, helping millions of Americans move from welfare to work, expanding access to technology, encouraging investment in undervalued communities, protecting the environment, countering the threat of terrorism and promoting peace and strengthening democracy around the world.

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President Bill Clinton will be the speaker at this year’s Academic Convocation.

Graduation schedule

Friday, May 25
Academic Convocation, 10 a.m., U Lot (tickets required)
College of Liberal Arts, 1:30 p.m., Ritter Arena
College of Applied Science and Technology, 7 p.m., Gordon Field House and Activities Center
National Technical Institute for the Deaf, 4 p.m., Ritter Arena
Kate Gleason College of Engineering, 5 p.m., Gordon Field House and Activities Center
College of Science, 6:10 p.m., Ritter Arena

Saturday, May 26
College of Imaging Arts and Sciences, 7 a.m., Gordon Field House and Activities Center
B. Thomas Golisano College of Computing and Information Sciences, noon, Gordon Field House and Activities Center
E. Philip Saunders College of Business, 3 p.m., Gordon Field House and Activities Center
See page 2 for parking and shuttle details. Additional information is available at admissions.rit.edu
College of Science
Sarah Denial, from Erie, Pa., is completing a B.S. in biochemistry. She has been involved in undergraduate research throughout her tenure at RIT with complete financial support from an NIH fellowship. Barry M. Goldwater Scholarship, and Daniel J. Pisto Fellowship for undergraduate researchers. A recipient of many scholarships and awards, Denial received the chemistry department's award for Outstanding Second Year Student and Outstanding Undergraduate in Biochemistry as well as the RIT Outstanding Undergraduate Scholarship Award. She plans to pursue a Ph.D. in biochemistry, molecular and cell biology at Cornell University.

American University in Kosovo
Petrit Kelmendi is a sophomore at the American University in Kosovo. Kelmendi has been a member of the Dean's List as well as a recipient of AUK-awarded merit scholarships. Beyond his native Albanian, Kelmendi is fluent in English and Serbo-Croatian. He worked as an English tutor for AUK and volunteered to participate in a university-sponsored program to teach English to grade-school children with developmental problems. He completed a co-op working with foreign advisors and the staff of the oversight committee within the Kosovo Assembly for Budget and Finance. Kelmendi has been an active participant in youth conferences dealing with Balkans-specific issues, as well as regional youth-oriented professional competitions.

Student delegates are selected for personal achievements that demonstrate the ideals of RIT including, but not limited to, academic excellence. They will speak at their respective college commencement ceremonies.

College of Liberal Arts
Ruth Simmons, from Rochester, is completing her B.S. in urban and community studies with a concentration in Spanish language and culture and a minor in culture and communication. The recipient of many awards and scholarships, Simmons completed a co-op position at the University of Rochester's Urban Fellows Program. Through this program, she worked for the City of Rochester conducting research for Consul General Dana Miller and attending seminars to learn about history, politics and inequalities in urban areas. After graduation, she plans to pursue a Ph.D. in sociology to research inequalities in the urban education system.

College of Science
Joseph Kardamis, from Strongsville, Ohio, will receive his B.S./M.S. in computer science with minors in German language and culture and mathematics. A recipient of the Outstanding Undergraduate Scholar Award and member of the Honors Program and the Nathaniel Rochester Society, he worked co-op positions with NASA Glenn Research Center and Actual Systems, Ltd., and as a research assistant at RIT. He was also involved with Surround Sound, one of RIT's a cappella groups. Kardamis has accepted a position at Chevron-Williams in Cleveland working on Java enterprise application development.

Kate Gleason College of Engineering
Jamie Boeheim, from West Seneca, N.Y., is receiving a B.S./M.S. in computer engineering with a minor in mathematics and graduate concentrations in imaging and architecture. She is the recipient of many scholarships and awards, including the Outstanding Undergraduate Scholar Award. As a member of the Honors Engineering Program, Boeheim studied product development at companies in Seattle and Milan, Italy. Her co-op experiences include interning at SUNY at Buffalo, Analog Devices Inc., and San Jose, Calif., and Xcelis in Rochester. Upon graduation, Boeheim will enter the workforce and later pursue a Ph.D. for university-level teaching.

V. Thomas Golianno College of Computing and Information Sciences
E. Philips Saunders College of Business
Lindsey Brady, from Emmaus, Pa., is the College of Business graduate delegate. Brady will graduate with an MBA in management and leadership. She earned her B.S. in imaging and photographic technology from RIT and worked co-op positions with Fuji Film E-Systems and Cannon USA Inc. She is a recipient of the Dr. Ronald Francis Scholarship, served as the 2006-2007 Graduate Ambassador and as the event coordinator for Graduate Management Association. She was captain of the RIT tennis team and is a member of Alpha Sigma Alpha, Order of Omega, Golden Key International Honor Society, and Alpha Sigma Lambda Honorary Society. After graduation, she plans to work at an imaging firm in a position that combines her expertise in photography and business.

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RIT yearbook makes a long-awaited comeback

Carve out space on your bookshelves, a yearbook is returning to RIT.

“RIT Timeline” is hoping to pick up where its predecessor Technifila left off—but in an entirely different way. This year, the publication—profusely illustrated with quotes in both large and small type—is aimed at every student and alum who once passed through the gates of the year that was in Brick City.

The staff of RIT Timeline (from top): Kristin McGee, Pett Nordvall, Kristin Brown, Tim Dole, Aabah Mannal, Daniel Martino and Kristin Leb. The time crunch of launching a publication from scratch meant that the first 1,000 copies will be sold at a discounted rate of $20. John Foy/rit.edu

On the Web with Mike Saffran

Welcome to our special commencement edition of News & Events. Some of you—particularly family and friends of graduates—may be reading this publication for the first time.

After returning home following commencement activities, you’re encouraged to stay informed about RIT news by reading News & Events online at www.rit.edu/news/events. News & Events stories are also featured alongside other RIT news on the University Web site, www.rit.edu/news.

Newly minted RIT alumni and friends interested in keeping up-to-date with RIT news can also rely on the following:

• News releases (also available via RSS feed)
• Podcasts (also via RSS feed, iTunes and Pod-Planet.com)
• RIT: The University Magazine—a digital version of RIT’s award-winning alumni magazine, published three times a year.
• Campus Spotlight and Photo Gallery
• The Tiger Beat Blog—the place to talk about RIT news and to go behind the scenes with University News writers for “the story behind the story”
• RIT In The News—links to newspaper and other publications’ stories featuring RIT news and RIT people in the news
• Links to RIT specialty-discipline areas and the RIT Athletic...and more

Additionally, you’re invited to subscribe to DateLine: RIT, a bi-weekly electronic newsletter featuring highlights from “RIT In The News” and News & Events. You’ll also receive alerts to new episodes of “DateLine: RIT – The Podcast,” a twice monthly show featuring the remarks of RIT 100-year alumni and other voices, campus news and News & Events. You can subscribe at www.rit.edu/news/subscribe. You’ll be alerted to breaking news. (Don’t worry—we promise not to overwhelm you with frivolous e-mails. Currently, subscribers hear from us about three times a month.)

The RIT University News Web site is your online source for on-demand, “RIT” access to the latest RIT news.

Welcome, new readers and Web site visitors… and congrats and warm wishes, graduates!

Defining success—one experience at a time by Albert Simone

During new student orientation, I tell each new freshman and their parents that the students are “RIT alumni in training.” I say that “student success” is RIT’s purpose, and that this success is what motivates and guides RIT faculty, staff, administration and trustees.

What is “student success”? It is successfully graduating from RIT. More than that, it is students being happy and enthusiastic about their total educational experience at RIT.

In particular, it is students gaining in-depth knowledge in their major field and a broad understanding of the world around them. It is students learning how to learn over a lifetime. It is the students developing leadership, teaming, communication and socialization skills from the vast array of extra-curricular programs in which they can actively participate.

It is students forming bonds with classmates that will last a lifetime. It is students fully prepared for and confident about the profession and local community and global communities they will be entering.

Graduate studies under watchful eye of new dean

When RIT announced in January that it would create a new deanship to oversee the myriad issues involved in graduate studies, says Moore. “But RIT is a logical choice if the university could find a person whose full-time responsibility is creating and managing the deanship.”

Andrew Moore, dean of graduate studies

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It is students forming bonds with classmates that will last a lifetime. It is students fully prepared for and confident about the profession and local community and global communities they will be entering.

Interestingly, student success is something that spills naturally into leave RIT. It is parents who are satisfied and pleased that their sons and daughters chose RIT. It is RIT faculty, staff, administration and trustees who take great pride in the graduating class.

Student success is all of the above, all at the same time.

Since student success is what RIT is all about, it should come as no surprise that graduation ceremonies and celebrations are the high point of the year for me. I have my own nostalgia as I think back on my years as an undergraduate student at Tufts University.

Those were the most influential years of my life. The cocky kid on the outside, who was scared on the inside, over the four years became quietly and respectfully self-confident on both the outside and the inside—like many RIT students graduating this year. Doing my fraternity brother a favor by going on a blind date (I had whets that night, and he did not), I met my wife-to-be (Carolie), and we have been constant playmates for just over 50 years. I do not believe this could be the case for many RIT students graduating this year.

A couple of weeks ago, we honored an RIT alumnus who graduated almost 40 years ago by naming him the 2007 Distinguished Alumnus.

At the awards banquet, he filled out his table with his wife, adult daughter, and grandchildren from his graduating class. They worked in different fields, lived all over the country, yet still experienced different life challenges. Yet the bonds they had established while undergraduate at RIT remained strong, and they maintained their friendship over the many years. This, too, will be the final graduation over which I shall preside. It will be an important way to cap my career—taking pride in and celebrating with the outstanding group of graduates from the RIT class of 2007. I thank them for all they have given me and wish them all the happiness and recognition they so aptly deserve.

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“RIT Timeline” is hoping to pick up where its predecessor Technifila left off—but in an entirely different way. This year, the publication—profusely illustrated with quotes in both large and small type—is aimed at every student and alum who once passed through the gates of the year that was in Brick City.

“We’re not really a yearbook, but we’re calling ourselves that because we’re a yearbook that’s a bit better than a better term,” says Kristina Leb, the founding editor of RIT Timeline. “We’re trying to honor the past.”

If you open it up, it will start with day one and end with graduation.

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The book originated at the urging of both RIT President Albert Simone and Student Government leaders. Leb began thinking about the process last summer and has been working on it ever since.

Original plans called for the creation of a DVD that would accompany the book, however, last year, when we all became caught up in the excitement of the Tiger Beat Blog—the online version of “RIT In The News” and News & Events. You’ll also receive alerts to new episodes of “DateLine: RIT – The Podcast,” a twice monthly show featuring the remarks of RIT 100-year alumni and other voices, campus news and News & Events. You can subscribe at www.rit.edu/news/subscribe. You’ll be alerted to breaking news. (Don’t worry—we promise not to overwhelm you with frivolous e-mails. Currently, subscribers hear from us about three times a month.)

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Honoring a diversity champion

James Watters, RIT’s vice president for finance and administration, was presented with the Joan E. Jordan Faculty/Staff Award from the Commission for Promoting Philanthropy in a May 24, 2007 award program. Past award winners include RIT President Albert Simone and Sarah Reynolds, user services coordinator for Wallace Library.
Stan Hoi, E. Philip Saunders College of Business

There’s a sign that says “Stanley Main Street” on the door to his office in the Lounsbury Building. His brother-in-law, Jim Ken (Stan) Hoi, associate professor of finance in the E. Philip Saunders College of Business, explains how his adopted name, Stan, came into existence. “I grew up in Hong Kong and was sent to an American school in Texas, my passion was radio, speech and drama. I got over it very quickly when I took Shakespearean drama at college. I found this drama outstanding; I realized I could never be a performer, but I thought I could become a life of sorting beads and jewels on fabrics.”

Instead, Hoi became interested in economics, first helping out in the department as a teaching assistant—that which later paved his way to a career in teaching. He received his B.S. and M.B.A. degrees in economics from the University of North Texas, and his Ph.D. in finance from Arizona State University. “I do demand a lot from my students,” says Hoi, “and I randomly pick them out in class to see if they are paying attention. My job is to make sure the students are learning and acquire the skills and concepts they need to be successful!”

Although Hoi’s father owned a company in Hong Kong, many of his five siblings continued their education in the United States. “My wife, Kathy, comes from Hong Kong, and she’s a systems analyst at the Blue Shield. We have two children, Edmund, who is 15, and Alison, who is 10,” Hoi says. “We are a family that we have family close by and we see them often. I have a brother in New York City, a sister in Chicago and four siblings in Hong Kong, my mum who live in Toronto.”

While teaching at RIT, he developed active learning materials of the Eisenhart Award for Outstanding Teaching honorees.

Keith Whittington, B. Thomas Golisano College of Computing and Information Sciences

In a literature course, it’s expected that class time will be devoted to fire- flowing discussion of the concepts, meaning and structure of a piece of assigned reading material. In computer programming courses, those types of discussions are not the norm. Keith Whittington, associate professor of information technology, is changing that, using “active learning” techniques with great success.

The payoff for Whittington is the high student interest rate—which later paved his way to a career in teaching. He received his B.S. and M.B.A. degrees in economics from the University of North Texas, and his Ph.D. in finance from Arizona State University. “I do demand a lot from my students,” says Hoi, “and I randomly pick them out in class to see if they are paying attention. My job is to make sure the students are learning and acquire the skills and concepts they need to be successful!”

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Whittington: At home in the classroom

In a literature course, it’s expected that class time will be devoted to fire- flowing discussion of the concepts, meaning and structure of a piece of assigned reading material. In computer programming courses, those types of discussions are not the norm. Keith Whittington, associate professor of information technology, is changing that, using “active learning” techniques with great success.

The payoff for Whittington is the high student interest rate—which later paved his way to a career in teaching. He received his B.S. and M.B.A. degrees in economics from the University of North Texas, and his Ph.D. in finance from Arizona State University. “I do demand a lot from my students,” says Hoi, “and I randomly pick them out in class to see if they are paying attention. My job is to make sure the students are learning and acquire the skills and concepts they need to be successful!”

Although Hoi’s father owned a company in Hong Kong, many of his five siblings continued their education in the United States. “My wife, Kathy, comes from Hong Kong, and she’s a systems analyst at the Blue Shield. We have two children, Edmund, who is 15, and Alison, who is 10,” Hoi says. “We are a family that we have family close by and we see them often. I have a brother in New York City, a sister in Chicago and four siblings in Hong Kong, my mum who live in Toronto.”

While teaching at RIT, he developed active learning materials of the Eisenhart Award for Outstanding Teaching honorees.
Alex Bitterman is an architect in the literal sense. He’s also an architect of learning, shaping young people’s educational experiences here at RIT. It’s those experiences that led students to nominate Bitterman for the Provost’s Award in Teaching. Recipients of this award must have taught three years or less teaching experience at RIT. “It’s a tremendous honor to win the award. I think, though, it reflects more on my faculty and staff colleagues, and my students, than it does on me,” says Bitterman, RIT assistant professor of graphic design. “Without their support, without the enthusiasm of my students it wouldn’t be much of an award, so I think it speaks more to their abilities and their support more than my teaching ability.”

Rajat Khullar, a second-year graduate student in graphic design, says Bitterman has been a wonderful source of inspiration for his own design work. “Professor Bitterman draws on all areas including his architecture, graphic design and administrative backgrounds,” says Khullar. “This allows us as students to think more deeply and address a design problem from not only a graphic designers point of view, but a usability and accessibility point of view. In a real-world work environment, problems are solved collaboratively. Collaboration is what Professor Bitterman is all about in the classroom. Bitterman just completed his second full year of teaching in RIT’s School of Design. Prior to RIT, Bitterman taught at the State University of New York at Buffalo and Rochester Institute of Technology. In Buffalo, he still lives there today, describing the one-time commute down the Thruway as ‘pastoral.’ “I love being able to have a foot in both cities. I share my time between Buffalo and Rochester. They are very complementary, very different cities, with very different heritage.”

In addition to the reputation of RIT’s School of Design, Bitterman says Rochester’s architectural heritage drew him here. “I think that probably my favorite master plan is RIT, though it is the ‘Brick City,’ it is an incredibly well planned campus, maintained incredibly well.”

He points out the various RIT buildings whose designs were influenced by modern 20th century architects like Le Corbusier. “Le Corbusier is one of my favorite architects. There is only one of Le Corbusier’s buildings in North America (Carpenter Center for the Visual Arts at Harvard University), but we are fortunate to have architecture that reflects his influence in Rochester.”

It was a summer program at Harvard that whetted Bitterman’s appetite for architecture and he decided to apply to architecture school at UB despite being told as a teenager he wasn’t proficient enough in math and science to be admitted. He got in. “I loved architecture school. With the fellowship I had, I did a lot of editorial work, which was more interesting and meaningful to me, than actually designing buildings. I realized then that I wanted to teach and to apply my design education and design skills in a different, thoughtful and meaningful way, and that is something I started teaching and doing a lot of writing.”

At the moment, he’s focused on scholarship and teaching, with his doctorate almost completed, or as he says with a smile, “ABD” (translation: all but dissertation) Bitterman’s-area of research interest and expertise is branding, specifically place branding, or the collective identity of a specific geographic place. His research for his Ph.D. led him to write a book, Buffalo is a Cool Place to Live, featuring a collection of photographs of the city’s architectural details along with informal interviews he conducted with current and former Buffaloians of their personal stories and experiences.

“I believe very strongly that learning is very much about reflecting on one’s own experiences and one’s own proximity in life and being able to view the design problem at hand through those experiences. In that way, every single student and every single teacher has an inherently unique perspective on what it is they are doing, and that’s not so much their brand, but their stamp of influence on whatever it is they are designing.”

Bitterman says he brings his own experiences into the classroom as a springboard for discussion with his students. "I don’t do a lot of lecturing in my studio and I don’t do a lot of personal direction. I tend to be more of a facilitator. I think the most important thing is that my students are engaged. They need to feel like they are in charge and they are the lead. I think the best work is done when the students have ownership with their work.”

Bruce Smith, Professor of Mechanical Engineering, Kate Gleason College of Engineering. Smith joined RIT in 1988 and is currently the director of RIT’s Center for Nanolithography Research. Smith has published numerous research papers and is co-author of Micro-nanolithography: Science and Technology. Research interests include optical nanolithography and fabrication of semiconductor devices and systems. In 1999, he received RIT’s first Creator’s Award for success as an inventor. He was recently named a fellow of SPIE, formerly the International Society for Optics and Photonics. The 2007 Provost’s Learning and Innovations Grant Program encourages faculty-initiated projects that directly target learning outcomes and student success.

The committee, whose membership includes a representative from each college, finalized the award winners. Award recipients are: Alex Bitterman, graphic design; Neil Hair, marketing; Paul Craig, chemistry; Richard Doolittle, medical science; Susan Barnes, communications; Ron Hirn and James Winebrake, public policy; Dina Newman, Harvey Pough and Kate Wright, biological sciences; Bruce Smith, Kate Gleason Writing Committee; Steven Ciccarelli, electrical, computer and telecommunications engineering; Beth Carle and William Leonard, mechanical engineering; and Margaret Bailey, mechanical engineering.
Kevin Rollins woke up and had no idea where he was. It was dark and his surroundings were strange. He tried to get up. Suddenly a team of nurses rushed into his room and restrained him. Rollins had just emerged from a two-week medically-induced coma. Two metal plates had been inserted in his jaw. A hole was drilled into his skull to relieve brain swelling. He couldn’t hear out of his left ear. And yet those physical ailments were nothing compared to the hurdles he would have to conquer in the years to come.

On March 1, 2001, Rollins was a passenger in a friend’s 1999 Ford Explorer. He was home in Canastota, N.Y., on break, having just completed his second quarter at RIT. Rollins doesn’t remember where he and his friends were headed. In fact, he doesn’t remember anything from that week. He’s been told that it was a snowy night. At least six inches of ever-hard Ice Hickory Street that evening when the truck spun out of control and smashed into a tree.

After spending two weeks in a coma, Rollins woke up feeling no pain. However, he had suffered brain trauma. With the exception of the week leading up to the accident, his memory was intact. But he had trouble completing everyday tasks. He remained in the hospital for 27 days and spent four months in therapy. Physically, he fully recovered. So Rollins thought it was odd when his doctors and his parents asked him if he wanted to return to RIT. "I told them, ‘Of course I want to go back. Why wouldn’t I want to go back?’ But I didn’t know what I wouldn’t be able to do," Rollins says, "I seemed fine.”

But Rollins was not fine. He returned to RIT the following fall and things were difficult. "I would sit in a math class and it was like the class was being taught in a different language," he recalls. "I couldn’t understand what the professor was trying to tell me, let alone learn all the material.”

Rollins received a C minus in one class and failed the rest. The student who always had wanted to be an electrical engineer—even as a child he used to dismantle his toys in an effort to understand how they worked—had grown frustrated. He decided to go home. "I stayed until Christmas break, and then I realized I couldn’t do it anymore,” he says. "It was a waste of time and money. I couldn’t understand what was going on.”

But he wasn’t giving up. He enrolled at SUNY Morrisville, which is close to his home, and began taking some lower-level classes. He had progressed to Calculus III at RIT, but enrolled in Basic Algebra at Morrisville. He still couldn’t comprehend the material.

Rollins says he couldn’t understand the reasons for doing something and the processes behind it. So he began to memorize the material, instead.

Long after most college students have begun their summer vacations, the RIT Baja team will still be pulling and pushing their race car in the hopes of completing the big race before the competition starts. Each team will design and build a full-sized production car capable of handling the most extreme conditions. Rain and mud at these events is not uncommon. The competition is divided into two components: static and dynamic events. The static events will take place in the Gordon Field House and Activities Center during the first two days of the competition as judges evaluate the car’s design and the safety condition of each team’s vehicle. Then, the competition shifts to Hopkack Hill Motorsports Track in Palmyra, Wayne County, for the dynamic events. Each team will undergo a series of challenges that includes tests for acceleration, traction and maneuverability. Then the competition’s premier event—the endurance competition—takes place on the final day. The endurance event assesses each vehicle’s ability to operate at maximum performance over a six-hour stretch through rugged terrain. The team that completes the most laps in the four-hour period wins.

"It’s going to be a phenomenal event,” Rollins says. "Even if you know what you’re going to see next, “ says Marty Gordon, a mechanical engineering technology professor, the RIT Baja team advisor and overall competition organizor. "It has everything—action, drama, suspense. It’s a big event involving students from all over the world and the public.”

And it worked. In May 2004 he earned his associate degree. He refused to stop there. Rollins returned to RIT the following September. Things still weren’t the same. "It was like getting a call that was going 50 miles per hour,” he says. "I couldn’t keep up with it. RIT was just too much, too fast.”

But with persistence and the help of the professors in his major, computer engineering technology, he caught up. "Within the last year, I went from remembering everything to really understanding things," he says. "It was like a light switch.”

Rollins is just completing a co-op at Critical Link, a hardware and software development company in Syracuse. "I feel like that’s a good place to mark the completion of his final graduation requirement.

He will receive his diploma May 25 and plans to mail copies to the doctors and nurses who helped him make his recovery.

"Even when I was making errors, I knew I could do it,” Rollins says. "I wanted to prove to everyone that I could get back to where I was.”

Rollins plans on working for a few more years and then attending RIT to get a master’s degree in computer engineering.

"I’m going to hand you a cards of play with in life,” Rollins says. "Even if he takes some of those cards away, you still have to play with what you have left. That’s exactly what I’m trying to do.”
‘Lunar’ rocks, crater no match for RIT moonbuggy
Human-Powered Vehicle Team takes first in NASA contest

Next stop: the moon.

RIT’s Human-Powered Vehicle Team rolled to a first-place finish in the 14th annual Great Moonbuggy Race, April 13-14, at the U.S. Space & Rocket Center, in Huntsville, Ala. The six-member student team finished with the fastest time—four minutes and 22 seconds—their accomplishment, particularly just to finish. I’m very proud of our advisor. “The course keeps getting more difficult each year,” he said. “If you’re going to win, you have to be the best.”

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The team spent considerable time redesigning the moonbuggy to correct last year’s component failures to the drive-shaft system, explains Stephen Beards, associate professor of mechanical engineering in the Kate Gleason College of Engineering and the team’s advisor. “The course keeps getting tougher each year—and it’s hard enough just to finish. I’m very proud of our team’s accomplishment, particularly the way students work together to implement engineering principles learned in the classroom.”

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For more about the contest, which was also sponsored by Northrop Grumman Corp., visit http://moonbuggy.msfc.nasa.gov.

Michael Gaffney | photojournal@rit.edu
New Student Government leadership lays out agenda

Ed Wolf and Sasha Malinchoc

Leaders hope to enhance sense of community on campus and give Student Alumni Union a new look

Ed Wolf and Sasha Malinchoc emerged from a field of four teams to become Student Government’s next president and vice president. Wolf says his candidacy grew out of a desire to spur change. “I remember sitting around with a bunch of my friends complaining about the way that Student Government was doing things,” says Wolf, a third-year computer engineering major from Newtown, Conn. “And then I realized that I could either keep complaining and not do anything about it, or I could get involved—and that’s what I did.”

Once Wolf decided to run, his next challenge was finding a running mate. He didn’t have to look very long before finding the perfect partner to complement him. Wolf teamed with Malinchoc, who served two years as a resident advisor, and laid out an aggressive agenda that led to more than a 200-vote victory.

Wolf and Malinchoc say the theme of their administration will be improving student life on campus. They hope to accomplish this by delegating much of the student programming responsibility to other major student organizations, freeing up their time to work with administration on addressing issues that face students.

Another of their major goals is to encourage a formal partnership between the RIT Student Alumni Union and the Student Government. They hope to push for the Clark pool’s conversion into a diving space and for the transformation of the Fireside Lounge into more functional space.

The duo sees the Student Development Center at the National Technical Institute for the Deaf as a model for what the Student Alumni Union should become. “The SAU should be a rallying point for the whole student body,” says Malinchoc.

Paul Sarbanes, for left, former five-term U.S. senator from Maryland and co-author of the historic Sarbanes-Oxley Act in response to corporate scandals like Enron and Tyco, was guest speaker on May 4 at the E. Philip Saun- ders College of Business’ William D. Gaiser Distinguished Lecture Series. During a luncheon at Henry’s, Sarbanes visited with former Congressman John LaFollette (D-N.Y.), center, and RIT accounting professor David Tesemi. The event was co-sponsored by The Presidential Colloquium, the Center for Consumer Financial Services and the Graduate Management Association.

Sarbanes-Oxley legislator visits RIT

Wolf and Malinchoc

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Scholarship salutes math, science, engineering students

Juniors Brandy Pappas, Jessica Smith and Matthew Woodruff have been named 2007 Goldwater Scholars. The prestigious Barry M. Goldwater Scholarship is awarded to top undergraduate students interested in pursuing a career in mathematics, the natural sciences, or engineering. The award is based on academic merit, and virtually all winners plan on pursuing a Ph.D.

The three College of Science students are among just 317 students nationwide named 2007 Goldwater Scholars. A total of 1,000 nominees were considered this year from among 1,100 nominees. The students will receive a $7,500 scholarship, which covers tuition fees, books and room and board.

Brandy Pappas, a biochemistry major, has been conducting research on the characterization of human eye lens protein alpha crystalline. Pappas, the current president of the RIT honors council, plans to pursue her Ph.D. in biotechnology.

Jessica Smith, a biochemistry major, currently works in the synthetic organic research laboratory of Tina Collum, assistant professor of chemistry. Smith, who is in the RIT research scholars program, plans to obtain her Ph.D. in biochemistry or bio-organic chemistry and pursue a career at either a research university or a pharmaceutical company.

Matthew Woodruff, a biotechnology major, has been involved in research in the virology laboratory of Mehlam Kalverts, assistant professor of biological sciences. He plans to obtain his Ph.D. in virology and pursue a career in research and teaching.

For more scholarships and awards coverage, visit News & Events online at www.rit.edu/newsevents.
Brick-buying program builds lasting memories

One look at the RIT campus and it becomes quite obvious: it has the nickname Brick City. The most recent brick tally stands at 4,166,389, and yes, someone does keep count.

Adding to that number through RIT’s “Buy a Brick” program is DeWitt, an academic advisor at the Kate Gleason College of Engineering. She purchased her first souvenir brick for her husband Roger, who received both his undergraduate (1979) and graduate (1992) degrees at RIT.

“In 2002, RIT was promoting the brick program for the 175th anniversary, and for the cost of $175, you could get an engraved four-by-eight personalized brick to be placed along the renovated quarter mile,” DeWitt explains. “I thought I’d buy one for my husband, and then later I had the idea of purchasing bricks for two of our daughters who also graduated from RIT—Jennifer, a packaging major who finished in 2004, and Sarah, a physician assistant who finished in 2006.”

In a couple of years, DeWitt will add one more family RIT alumna to the brick legacy roster, who is in her second year in the ultrasound and sonography program in the College of Science.

“Plus, Denise purchased a family seat in the Gordon Field House under the DeWitt family name, a logical connection for this ultimate RIT family,” says Marty Burns, director of family giving in the RIT Office of Development and Alumni Relations. “I am pleased that Roger, and all three daughters chose to attend RIT, and I am sure they have seen the benefit from their RIT education in their lives and professions,” says Burns. “The Buy a Brick program is ongoing, and a fabulous way to recognize the family and to give enduring support to the Endowed Alumni Legacy Scholarship.”

According to DeWitt, her family’s bricks, which are located in front of the Student Life Center, will leave “a mark on the students.”

“I think it’s unique that we were all here in some capacity for a little while, and it’s a piece of our history we can be proud of,” said DeWitt. “I thought it was a nice way to honor my family and also give back to RIT.”

For more Buy a Brick information, visit www.rit.edu/buyabrick.

A commemorative brick in front of the RIT Student Life Center bears the name of an alumna. To learn about RIT’s Buy a Brick program, supporting the Endowed Alumni Legacy Scholarship, visit www.rit.edu/buyabrick.

Formula team savors pre-event success

Along with a newly expanded machine shop, the Formula team also experienced another luxury this year: In contrast to the all-nighters and narrowly missed deadlines that became almost customary in years past, this year’s car was ready, right on time.

“Our goal was to complete the car as soon as possible so we’d have time to test it, make adjustments and do fine-tuning,” says project manager Anthony Capobianco, a fifth-year mechanical engineering major.

As scheduled, on April 1 drivers tested the car for the first time, allowing the team more than a month for adjusting and tuning before the Formula SAE Competition, the culmination of the team’s hard work and long hours.

The annual competition, held May 19-20 at the Ford Michigan Proving Grounds in Romeo, Mich., simulates the process automobile companies must go through to turn a simple prototype into a full production vehicle. In addition to performance testing for acceleration, handling and braking, this year’s 135 qualifying teams are also judged based on their cost analysis, overall engineering design and a sales presentation which is based on the car’s feasibility for production.

“Thus far we’ve yet to compete, this year has already been a success because of the many team goals that have been met and exceeded.

“In the past, we had always been extremely strong in our engineering, but the strong team component was lacking,” says Capobianco. “This year we created two new leadership roles that have strengthened both the team and our car’s performance.”

As newly appointed associate project manager, fifth-year mechanical engineering major Lawrence Litchfield established a production schedule and managed the production of the car, which successfully met the deadline, which had been established seven months prior.

Led by fifth-year mechanical engineering major Laurie Underhill, the New Vehicle Dynamics group bridged the gap between the test track and the auto shop by gathering test data, then creating solutions to improve upon the observations made while testing.

“While our main goal was to perform well on the track, we realize we were being observed and watched by many potential employers,” says Underhill. “We want to do things to establish ourselves as the best team in the competition.”

CIMS to help ‘green’ N.Y. firms

“The center’s mission is to promote pollution prevention and pollution prevention programs to utilize the results of the pilot program for use by a wider array of companies in New York state to develop and implement pollution prevention strategies as part of this effort. Interested organizations should contact the center at info@cims.rit.edu for further information.”

A walking tour of RIT’s artwork on display

Submitted photo

“Ideally, this program will develop into an important state-wide resource for the research and implementation of new clean technologies in partnership with industry.”

—Daniel Gundersen, Empire State Development/Update chairman

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A walking tour of RIT’s artwork on display

Submitted photo

This rocking bench by graduate woodworking student Jacob Snowbarger is one of the many projects that will be showcased during the School for American Crafts annual Walkthrough. The event is a tradition based on “walking through” the school’s metals, wood, ceramics and glass studios to view work created throughout the school year by RIT’s studio art students. Walkthrough will be from 4 to 6 p.m. May 21 in the James E. Booth Building. All of the school’s graduate and undergraduate students will participate.
Dan Bolinski, a fourth-year industrial design student, has won the Industrial Designers Society of America National Student Merit Award, one of only five awarded in the United States each year. Bolinski graduates this month with a bachelor of arts in industrial design and an associate degree in illustration.

Bolinski’s win marks the third time in the award’s four-year history that an RIT student has taken top honors in the Northeast.

Bolinski presented his portfolio of student work to more than 350 professional designers and students at the society’s annual Northeast Conference held in April at Rhode Island School of Design in Providence. Upon reviewing the portfolios of top design students, a jury of seven society members selected Bolinski as the winner. Rhode Island School of Design, Pratt Institute, Syracuse University and Massachusetts College of Art were among the eleven universities and colleges participating in the competition.

Bolinski’s portfolio presentation included work he’s done for two big name brands, Xerox and Reebok. For one of his projects, Bolinski worked with industrial designers at Xerox on a concept for a tablet personal computer. “It’s a Windows-based system to be used on construction sites,” says Bolinski. “The computer can collect signatures from surveyors. There is a thermal printer attached to it that allows the paperwork to be printed right on site, speeding up the process.”

From computers to apparel, Bolinski interned last year in the apparel department at Reebok International in Boston. “I worked on performance golf apparel, like crew and polo shirts. Factors we had to consider in our designs were how fabrics lay on the body, the location of the body’s major heat zones and how graphics will appear in a 3-D design. The internship was a nice blend of industrial design and graphic design.”

He continued to do freelance work for Reebok while completing his courses. “Reebok approached me at the end of my internship and asked if I would like to be part of the redesign of its NFL receiver gloves. So I hope to return to Reebok for a full-time job after graduation. My experience there was phenomenal!”

Bolinski’s professors laud his accomplishments and talent.

“A merit award juror at the competition commented that Dan’s projects clearly show an arc of consistent improvement from initial concept to finished product, and the same can be said for his personal development as a designer here at RIT,” says Alan Reddick, the society’s student chapter faculty advisor at RIT and lecturer in industrial design. “His body of work reflects the high standards both the institution he leaves and the profession he enters.”

Kelly Downs | kaduns@rit.edu

‘Micro’ program hits quarter-century mark
Microelectronics growth sparked PC revolution 25 years ago

As one of the strong ties between RIT and the Town of Henrietta, students from the Rush-Henrietta Central School District regularly visit RIT’s Microelectronics Education Center to see a different group of youngsters recently toured RIT’s Semiconductor & Microsystems Fabrication Laboratory. Gowns are required to protect microchips from contamination, and yellow light (resulting from filtering shorter wavelengths from white light) is used to avoid exposure of the photomask during microchip processing. RIT’s Department of Microelectronic Engineering is celebrating its 25th anniversary this year.

Micro-e, which started in 1982, was a concept for a tablet personal computer.


For more than a quarter century, RIT has contributed to this microelectronic engineering revolution. The university’s microelectronics engineering program—the first of its kind in the nation—launched Jan. 20, 1982.

At the time, President Ronald Reagan was celebrating the second year of his first term, America’s first “test tube” baby was about three weeks old, AT&T had just agreed to a break up, Fassil was the nation’s most popular television show, and Elvis “Newtown-John’s Physical was climbing Billboard’s “Hot 100” chart.

The first graduating class—150 students—graduated in August 1981. IBM Corp. introduced the first IBM personal computer featuring 16 KB of random access memory, or RAM, and an operating speed of 4.77 MHz. It retailed for about $1,200.

Today, some PCs have 2 GB of RAM, run at 3 GHz and sell for less than the price of that first home computer. Similarly, RIT’s “micro-e” department has grown by leaps and bounds, creating a mini-industry of technical capabilities since the early ’80s. Today’s 150 undergraduate and graduate students are instructed by eight faculty members in spaces that include the 10,000-square-foot Semiconductor & Microsystems Fabrication Laboratory—the largest “clean room” dedicated to education in the country.

This year, the department celebrated its silver anniversary dinner at the Hyatt Regency Rochester.

Micro-e’s impact felt nationally …

More than 600 RIT micro-e graduates currently work in the semiconductor field, with a huge majority of them—roughly 90 percent—employed in the United States, says Santoros Karunin, professor and department head. The homegrown talent represents a significant contribution to America’s society and the world, she asserts.

“We’re grooming a domestic workforce to meet the demands of this global high-tech industry,” says Karunin, who, as department head since 2001, is one of only two people to have held the position. Lynn Fuller, RIT professor of microelectronics engineering, was the founding department head.

Among the 600 students, more than 100 are currently employed by Freescale Inc. (formerly part of Motorola Inc.), about 80 work for IBM Corp., some 60 earn paychecks from Intel, and more than 60 have gone on to graduate school. Other top employers of RIT micro-e grads include National Semiconductor Corp., Advanced Micro Devices Inc. and Micron Technology Inc.

… and locally

Though the RIT micro-e program’s influence is spread worldwide, its impact is felt nowhere stronger than right here in Henrietta. Three Henrietta-based companies have had direct ties to RIT’s micro-e program: Amphibian Systems, located on Tech Park Drive, was founded by Bruce Smith, Intel Professor of Microelectronic Engineering, and Integrated Nano-Technology, on Lehigh Station Road, and Advanced Vision Technologies Inc., formerly on Lucas Gordon Drive, collaborated with RIT micro-e for years.

Additionally, three current members of the RIT micro-e faculty—Smith, Karl Hirschman and Robert Pearson—are graduates of the Rush-Henrietta Central School District and RIT. Another Rush-Henrietta and RIT micro-e grad, Steve Carlson, was named an RIT Outstanding Alumnus in 1999.

Because of the strong ties between RIT’s micro-e department and its hometown, the Henrietta Chamber of Commerce on May 9 presented a 2007 Community of Excellence Award to the department. Karunin points out that students, recruiters, vendors, short-course attendees (typically adult students completing short, intensive training sessions paid for by their employers) and other visitors all boost the town’s economy. “In placing Rochester on the map educationally, micro-e also brings hundreds of people yearly to Henrietta hotels and restaurants,” she says.

Toward the future

Along with a B.S. in microelectronic engineering, RIT students can now earn an M.S. in microelectronics manufacturing engineering (which is also online offered, attracting students nationally and internationally), an M.S. in microelectronics engineering—RIT’s B.S./M.S. in microelectronics/ materials science and engineering, and a Ph.D. in microelectronics engineering—a first-of-its-kind multidisciplinary doctoral degree launched in 2002. In 2005, the department created a minor in microelectronics and nanofabrication.

To further illustrate from where the field of microelectronic engineer- ing has come in 25 years, Karunin says: “In 1982, the smallest feature printed in a microchip was one half-dreadnought (1/1000th) the diameter of a typical human hair. Today, it’s about 0.5 thousandths (1/2000) the diameter of a human hair. The thin insulating film in modern transis- tors is a few molecules thick. These extreme dimensions are produced with accuracy and reproducibility everywhere. These are the marvels of today’s semiconductor technology.”

As for the next quarter century in microelectronic engineering, Karunin predicts: “The next 25 years will see further miniaturization of the microchip using nanotechnology, and the convergence of many technologies such as nanoelectronics, nanome- chanics, photonics, bio and novel computing, and software development. Everyone will have easy access to the accumulated knowledge of the human race at any time and in any place, format and language. We may have voice recognition with wireless access to knowledges, which may be wearable and have terahertz speeds and terabyte memo- ries. We’ll see the PC interacting with sensing and biological interfaces.”

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RIT micro-e by the numbers
Age: 25 years (Jan. 20, 1982)
Department heads in 25 years: 2
Graduates working in the semi- conductor field: 600
Most grade employed by a single company: 150 (Freescale Inc.)
Undergraduate enrollment: 110
Graduate enrollment: 5
Faculty: 8
Students who are graduates of both RIT and Henrietta schools: 7
Henrietta companies founded by a faculty member: 1 (Amphibian Systems)
Degrees offered: B.S., M.S., M.E., Ph.D.
Square footage of Semiconductor & Microsystems Fabrication Laboratory: 10,000 square feet
RIT micro-electronic design and education in the country
by President Simone. “By recognizing the excellence of our faculty and students, we spotlight RIT tradition, university pride and community spirit,” says Simone. Following Academic Convocation, each RIT college celebrates commencement with individual ceremonies recognizing graduates (see accompanying schedule). During these ceremonies, graduating students are recognized individually and respective delegates address those in the audience. Tickets are not necessary, and ample seating is available on a first-come, first-served basis. “It is time for the faculty and staff to take pride in our students’ accomplishments and congratulate them on a job well done,” remarks Stanley McKenzie, RIT provost. “Celebrating our graduates is an appropriate way to interpret and real-time captioned. To help visitors with questions, information booths are being located around campus and volunteer ushers are present at the convocation and each college ceremony. **Paul Stella | pbscom@rit.edu**

### A bright future

An active student at RIT, Gmeinder has served as president of the student section of the Society of Women Engineers and chair of the RIT student section of the Rochester chapter of the American Society of Mechanical Engineers. As a tour guide for the Department of Mechanical Engineering, she also serves as an unofficial ambassador for RIT.

“I love RIT—I think it’s a great school,” she says, adding that she believes she received her money’s worth through opportunities to explore various technologies, the personal attention she received from her professors, and RIT’s co-op program, facilities and dedicated faculty members who know their students by name. “It’s not so bad that you get lost.”

On campus tours for prospective and accepted students, some of who may be seeing RIT’s bricks for the first time, she relishes saying, “We don’t have marble columns in our library, but we do have all the latest software on our computers.”

After earning her B.S./M.E. this month, Gmeinder will waste no time getting to work. On June 4, she begins a position in upstream technology with the Corporate Engineering Technologies Lab of Procter & Gamble, Co., in Cincinnati.

### Rochester’s natural resources

Wind is typically aplenty in the Rochester area, and also boasts another natural resource in abundance: Genesee River water. Because of the nearby campus, to which they are also exploring the feasibility of another sustainable technology, a heating and cooling system for Riverknoll Apartments utilizing geothermal heat pumps and Genesee River water (in essence, brown river water would be converted to green energy).

“This system will cost more initially but the yearly electricity costs will be significantly less compared with conventional air conditioning,” predicts Kevin Costantini, a fifth-year industrial engineering major.

While that part of the project is on the drawing board, the wind turbine-powered walkway light is a reality. Will more wind turbines be sprouting on campus lampposts—and possibly even on some posts on your street? After completing a 30-year life-cycle analysis, the verdict is in: Due to the high cost of fixtures and batteries, it’s still cheaper to buy electricity. But the conclusion doesn’t necessarily mean that wind turbine-powered lights aren’t in our future. Gmeinder says that a single turbine and proper battery setup could possibly power multiple street or sidewalk lamps, and mass production would lower the cost per unit—making this a “green” idea that’s ripe for future development.

**Michael Carlin | mcarnwell@rit.edu**

### A random sample of passersby, more than three-quarters of those polled replied that they like seeing wind powered walkway light, while not a single respondent had an unfavorable opinion of it.

### Wind-powered light

To reduce the university’s reliance on power from carbon-producing sources, Watters said the student-designed team at a May 4 presentation. “This is a terrific project,” he remarked.

### A fond farewell

Students, faculty and staff will have another chance to say goodbye to President Simone June 15—officially “Albert J. Simone Day” in Monroe County and the City of Rochester. A 10 a.m. ceremony and ice cream social will be held to the administrative circle, near the Sentinel sculpture. Monroe County Executive Maggie Brooks and Rochester Mayor Robert Duffy will be on hand to deliver a proclamation. After serving RIT for 15 years, Simone’s last day is June 30.

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