R·I·T news&events

Rochester Institute of Technology

May 1, 2008

Inside: Innovation and Creativity Festival Preview

RIT building shows its true color—green

RIT has opened its first 'green' building, as part of its ongoing sustainability efforts. The new College of Applied Science and Technology Building was designed to meet the standards of the Leadership in Energy and Environmental Design Rating System of the U.S. Green Building Council, the most widely accepted rating system for evaluating sustainable, high-performance buildings.

The building, which is currently undergoing evaluation to obtain its LEED certification, was officially dedicated during an April 18 ceremony.

"We're extremely excited to have dedicated the college's first building and RIT's first LEED certifiable facility," says Carol Richardson, interim dean of the College of Applied Science and Technology. "The many environmentally friendly features and the technology used in this building will allow it to serve as a living laboratory for our students."

The building features controls that monitor building occupancy and reduce power demands accordingly. The improved systems provide an approximate 21.4 percent savings in electrical energy (estimated annual

Green building, page 8

A. Sue Weisler | photographer

The RIT community dedicated the College of Applied Science and Technology Building during an April 18 ceremony. Members of the New York State Legislature and corporate and foundation sponsors of the facility were on hand to cut the ceremonial ribbon.

Xerox pledges support as a founding partner of The Golisano Institute for Sustainability

Xerox Corp., building on four decades of leadership in advancing environmentally sustainable practices, is committing $2 million to RIT to serve as a founding partner of The Golisano Institute for Sustainability. Anne Mulcahy, Xerox chairman and CEO, made the announcement April 24 during a presentation on campus.

This latest investment in RIT by Xerox, which will be spread over five years, focuses on developing talent and fostering new sustainable technologies through research.

"Xerox and RIT share a commitment to advancing environmental sustainability through innovation," states Mulcahy. "Our collective efforts have the same desired outcome: making what's good for the environment good for business."

RIT introduced The Golisano Institute for Sustainability last year following a $10 million commitment from B. Thomas Golisano, chairman and founder of Paychex Inc. and a member of RIT's Board of Trustees. The institute is poised to make RIT the first technological university to provide a full spectrum of programs that embody the principles of sustainability in product development. The university is also developing the world's first doctorate focused on sustainable production.

According to RIT President Bill Destler: "The Golisano Institute for Sustainability at RIT provides the premiere platform to collaborate in the creation of innovative education and technology development systems related to sustainable design, life-cycle engineering, remanufacturing and pollution prevention. The opportunity to partner with Xerox in this venture helps validate our leadership position, and we are extremely grateful for the company's generous support."

Xerox began its commitment to sustainability in the 1960s, leading to innovations like two-sided copying, print on demand, use of recycled paper in the office and recycling toner cartridges. The company is the first in the business equipment industry to remanufacture and reuse parts and components, giving new life to the equivalent of more than 2.8 million products. In 2007, the company estimates it diverted more than 122 million pounds of waste from landfills.

Mulcahy offered a broad perspective on the advantages of sustainable practices as a presenter at the university's Presidential Colloquium. In her address, Sustainability: Crisis and Opportunity, she acknowledged that the benefits of sustainability extend well beyond its favorable

Xerox gift, page 8

A. Sue Weisler | photographer

Anne Mulcahy, Xerox chairman and CEO, toured laboratories within The Golisano Institute for Sustainability prior to her address at the Presidential Colloquium. Mulcahy's talk centered on the benefits of sustainable practices in business.

State grant helps continue sustainability research

RIT's Center for Integrated Manufacturing Studies, a unit of The Golisano Institute for Sustainability, will continue its research efforts in the areas of remanufacturing and technology transfer thanks to a recently announced state grant. The $1.2 million in funding, secured by New York State Assemblyman Joseph Morelle and included in the 2008-2009 State Budget, will enhance CIMS' Remanufacturing Assistance Initiative, Knowledge Clearing House and Innovation Test Bed.

The Remanufacturing Assistance Initiative will receive $400,000 to continue its efforts to assist New York state companies in developing and implementing improved remanufacturing processes. The Knowledge Clearing House and Innovation Test Bed have been awarded $800,000 to further promote the integration of new technologies, innovations and technical knowledge in the manufacturing sector. The efforts are part of the Golisano Institute's larger goals of spurring improved environmental quality as well as enhanced business efficiency and competitiveness in New York state.

"This funding will enable us to continue our work with New York state companies in addressing competitive challenges, creating new business and economic development opportunities using 'green' technologies and other best practices, and enhancing the skills and productivity of our manufacturing workforce," adds Nabil Nasr, assistant provost for academic affairs and director of The Golisano Institute for Sustainability.

The Remanufacturing Assistance Initiative works with New York state companies to strengthen their global competitiveness and to improve their efficiency and environmental performance through the use of remanufacturing and recycling technologies.

The Innovation Test Bed and the Knowledge Clearing House partner with individual companies and cluster organizations to test, validate and implement new innovations and

State grant, page 8

RIT students capture top prize at U.S. Imagine Cup

An RIT student team won the Software Design Invitational at Microsoft's U.S. Imagine Cup finals April 22 in Los Angeles. The team competed against 154 teams from throughout the United States and will represent the nation in the world finals this July in Paris.

Team members Ziyan (Joe) Zhou, a third-year computer science student from Guangzhou, China; Adam Risi, a second-year computer engineering major from Essex Junction, Vt.; and Zachery Shivers, a second-year electrical engineering student from Kenosha, Wis., will share a $12,000 cash prize.

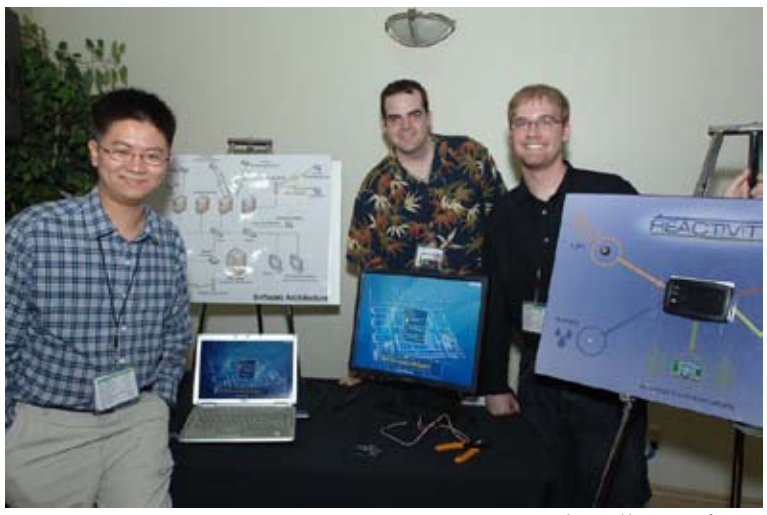
The students programmed and configured a network of sensors to take readings of such environmental variables as temperature, humidity, carbon dioxide and carbon monoxide, and set the system up to be accessible via cell phone.

"I would like to congratulate Joe, Adam and Zachery for this tremendous accomplishment and wish them the best of luck this summer in Paris," says RIT President Bill Destler. "The system they have developed could have major implications for the advancement of portable remote-sensing technologies and exemplifies the tremendous talent and ingenuity of our student population."

"The Imagine Cup is all about igniting the imagination of tomorrow's technology visionaries and leaders, and inspiring them to harness the possibilities of technology to build a better world," adds Dan'l Lewin, corporate vice president of strategic and emerging business development at Microsoft Corp. "The contest provides student inventors and entrepreneurs with a launching pad for their ideas and access to key resources that can set them on the path to career success."

This is the second year in a row an RIT student will participate in the Imagine Cup World Finals. In 2007, Zhou was part a four-person team that developed a software application, utilizing social-networking technology, to assist in foreign language instruction.The team also included students from Western Washington University, Texas A&M University and McGill University

Imagine Cup, page 8



Submitted by Microsoft Corp.

An RIT student team, from left to right, Joe Zhou, Adam Risi and Zachory Shivers, won the Software Design Invitational at the Microsoft Imagine Cup Finals, April 22. The students beat out 154 teams from throughout the U.S. and will now compete in the world finals this July in Paris.

News briefs

NTID's Hauser earns grant

NTID research faculty member Peter Hauser has been awarded a three-year subcontract for $136,495 from the National Institutes of Health/National Institute of Deafness and Communication Disorders. His work will be part of an on-going project, "Reorganization of Visual Functions after Early Deafness." The research will provide a better understanding of how deaf students process and learn information.

Students address chemists

Two RIT/NTID students traveled to New Orleans to present at a meeting of the American Chemical Society. Grace Kennedy, of Cincinnati, and Kyle Edenzon, of Northridge, Calif., accompanied assistant professor and Laboratory Science Technology Program director Todd Pagano. They talked on April 7 about their undergraduate research, which involves energy transfer within molecules.

Karen's Walk fundraiser

Phi Sigma Pi National Honor Fraternity will host the sixth annual Karen's Walk/5K Run on May 4. The dash for the finish line begins at 10:05 a.m. and festivities will wrap up with food, refreshments, raffle prizes and live entertainment. The event is held in memory of Karen Decker, an RIT student who died from cardiomyopathy in 2002. Proceeds from the event will benefit the Karen Decker Cardiomyopathy Fund at the University of Rochester Medical Center. For more information about Karen's Walk, including registration and a schedule of the day's activities, visit www.karenswalk.com or call 764-0412.

Gannett lecture May 5

Lynda Barry—graphic novelist, artist, playwright, syndicated comic strip creator of *Ernie Pook's Comeek* and author of several nationally known novels—will conclude the 2007-2008 Caroline Werner Gannett Project with a workshop and a lecture May 5. Barry's workshop, "Writing the Unthinkable," will be held 9 a.m.-noon in Skalny Room, Interfaith Center, with limited seating. The artist's companion lecture will be held at 7 p.m. in the Chester F. Carlson Center for Imaging Science auditorium. Pre-registration is required for the workshop. For information, contact Cassandra Shellman at cls3740@rit.edu and visit www.rit.edu/~cwg/.

Globalization lecture

Globalization and sustainability will be the subject of the last Gosnell Lecture of this academic year. Charles Perrings, professor of economics at Arizona State University, will present "Globalization, Environmental Risk and Sustainability," 3-4 p.m. May 14 in the B. Thomas Golisano College auditorium. The lecture series brings prominent scholars to campus throughout the year to give accessible, public talks that typically pertain to the environment. For more information on the talk or lecture series, contact Cassandra Shellman at cls3740@rit.edu.

Camera donations prompt Leica CEO visit, photography lectures

Leica Camera Chief Executive Officer Andreas Kaufmann is personally donating refurbished Leica M4 cameras and Leica Summarit-M lenses to RIT's School of Photographic Arts and Sciences. Kaufmann visits the RIT campus on Tuesday, May 6, as part of Leica Day, to present the cameras and meet with photography students. Kaufmann will make a formal presentation at 3 p.m. in Webb Auditorium in the James E. Booth Building.

In commemoration of the partnership, Leica and RIT will also host a lecture series featuring award-winning photographers Chris Usher and Alex Webb. The lectures are free and open to the public.

Usher will give a free lecture at 6:30 p.m. on Monday, May 5, in Van Peursem Auditorium in the Gosnell Building. Usher's award-winning photojournalism work appears regularly in domestic and international monthly and weekly publications including *Time, People, Newsweek, US News & World Report, BusinessWeek, Der Spiegel* and *Sports Illustrated*. His documentary exhibit —Behind the Velvet Rope—featuring behind-the-

Leica Day, page 8

Photograph taken by Alex Webb of the Mexico Border crossing.

Dynamic duo searches for math, poetry parallels

What do Fibonacci Numbers, the Golden Ratio and poetry have in common? Their patterns and the analogies they inspire help us to express fundamental concepts, make new discoveries and comprehend the mysterious, say Marcia Birken and Anne Coon.

The mathematician and the poet have been on a treasure hunt of sorts, searching mathematics and poetry for points of similarity and areas of overlap for more than 25 years. Along the way, they found significant connections in their respective fields through analogies and patterns, and they have gained a mutual appreciation for each other's discipline.

Written for a general audience, *Patterns in Mathematics and Poetry* is the result of their unlikely partnership and lengthy collaboration. The book grew from the course "Analogy, Mathematics and Poetry" (later "Patterns in Mathematics and Poetry") that Birken and Coon developed and taught, as well as from their countless papers, conferences and workshops on related topics.

"The book is meant for scientists who love poetry and poets who love science and math," says Coon, senior associate dean and professor of English in the College of Liberal Arts and the author of several books of poetry.

"People who seek patterns are always looking for new ones," adds Birken, professor emeritus in the School of Mathematical Sciences in the College of Science and an award-winning nature photographer. "They want to see things in new ways."

Birken and Coon show their readers how to cast an interdisciplinary eye toward examining patterns of counting, form and fractals, as well as patterns for the mind—proof, paradox and infinity.

The book is illustrated with mathematical images and Birken's

A. Sue Weisler | photographer

Anne Coon, left, and Marcia Birken collaborated on their new book Patterns in Mathematics and Poetry.

photographs from her travels around the world that help explain math to non-experts. Poets whose work is featured in the book include e.e. cummings, Mary Oliver, Harvard mathematician Barry Mazur and RIT graduate Chris Wiltz.

The authors appreciate the support they received from their colleges and from the provost's office to make the interdisciplinary connections that intrigued them and which eventually led to their book. The unusual collaboration Birken and Coon fostered during their careers at RIT is now a current trend in academia.

"At RIT right now, there's a real interest in interdisciplinary connections in general but also in trying to understand what different disciplines share and where they are not the same," Coon says.

She adds: "I think many people with interests in the sciences and the humanities and the arts were intrigued that the two of us had not only done this work but had committed 25 years to watching it unfold. We wrote an essay a few years ago about long-term collaborations and what that's meant, from negotiating how to write together, to learning to appreciate one another's disciplines in a profound way." ■

Susan Gawlowicz | smguns@rit.edu

Photograph taken by Chris Usher of Hurricane Katrina Victims in New Orleans.

New artwork debuts at NTID

Two permanent art installations have recently been placed in the Student Development Center, connecting NTID's Lyndon Baines Johnson Building to the Dining Commons. Both artists have strong links to NTID.

The first, *Dance of the Gingko*, is by Iowa artist Joan Webster-Vore. Her two sons have hearing loss. Micah Vore plans to graduate this spring from RIT's E. Philip Saunders College of Business. Through her sons, she gained a new understanding of visual communication and how it impacts our perceptions of the world.

The installation consists of 18 long strands displaying more than 200 hanging gingko leaves made of copper wire and translucent paper. The leaves are connected such as hands making the "friend" sign.

"When considering the space, the environment and the college for

Dance of the Gingko *is by Iowa artist Joan Webster-Vore.*

Leon Lim created vertical rows of different woods and lights called 3(656).

NTID at RIT, I thought about dancing with hands," she said. "I thought about the sign for 'friendship' (which is one of my favorite signs) and the sign of 'welcome.' "

The second installation is by 2004 NTID/RIT MFA graduate Leon Lim. Originally from Singapore, Lim now resides in New York City.

His piece, featuring vertical rows of different woods and lights, is called *3(656)*—he says a number is more interesting than a word. Lim said the three panels consist of 656 pieces of wood and Plexiglas veneer. Eventually, a panel will be added with 656 stories and anecdotes about NTID's history.

"These additions have made an already inviting space more welcoming and beautiful," says Alan Hurwitz, CEO for NTID and vice president and dean of RIT for NTID. "And it's even nicer to know these talented artists have such strong compassion for RIT/NTID." ■

Greg Livadas | greg.livadas @rit.edu

'Brilliant Strings' concert

Submitted photograph

Brilliant Strings II is coming to RIT at 8 p.m. May 2 in the Student Alumni Union's Ingle Auditorium. Juliana Athayde (Rochester Philharmonic Orchestra concertmaster), David Brickman (Rochester Philharmonic Orchestra violin II) and Michael Larco (Rochester Philharmonic Orchestra assistant principal viola) will join forces to play music by Mozart, Kodaly, Prokofiev and Dvorak in the final concert of the 2007-2008 Performing Artists Concert Series. Tickets are $6 for students, $14 for faculty, staff and alumni and $20 for the public. Tickets may be purchased at the door, at the Student Alumni Union candy counter or by calling 475-4121.

‘Right brain and left brain’ collide at Imagine RIT festival

Imagine RIT: Innovation and Creativity Festival is poised to become the new annual kickoff to Rochester’s rich festival season.

Imagine RIT, which will take place from 10 a.m. until 4 p.m. Saturday, May 3, on the RIT campus, is designed to demonstrate what can be accomplished when, as RIT President Bill Destler likes to say, “the right brain and left brain collide.”

More than 400 interactive exhibits and displays, including new ideas for products and services, creative arts and crafts, and faculty and student research, will be featured in various locations across campus.

The festival, which will be family friendly, includes traditional festival fare: carnival rides, music and inflatable fun for the kids.

The Imagine RIT experience will be divided into 10 themes, as festival-goers will be asked to Imagine…

Being Green: alternative energy and sustainability

Healthy Living: sports, nutrition and other wellness-related topics

A Global View: diversity and multiculturalism

Technology: groundbreaking scientific research and cutting-edge technology

Creative Play: interactive fun for all ages

A Communication Revolution: social networking and other new communication mediums

On Stage: musical and theatrical performances

Artistic Visions: woodworking, ceramic and glass sculptures, photographic exhibits, student-produced films and more

New Ventures: start-up businesses from RIT’s incubator, innovative marketing and business plans

WOW! Imagine That: top cross-disciplinary projects, featuring displays from each of RIT’s eight colleges, will be housed in the Gordon Field House and Activities Center

Here is some additional information that visitors may find helpful:

Parking: Visitors will be able to park free on the RIT campus on a first-come, first-serve basis. Parking is also available at Monroe Community College, with free shuttle bus service to RIT. Once RIT lots are full, volunteers will direct all visitors to MCC.

Volunteers: Hundreds of volunteers, wearing bright orange T-shirts, will be on-hand to enrich the Imagine RIT experience. Twelve information stations will be sprinkled across campus to assist visitors and answer questions. A festival program will be available at all information stations, in addition to the Toyota Welcome Center in D Lot.

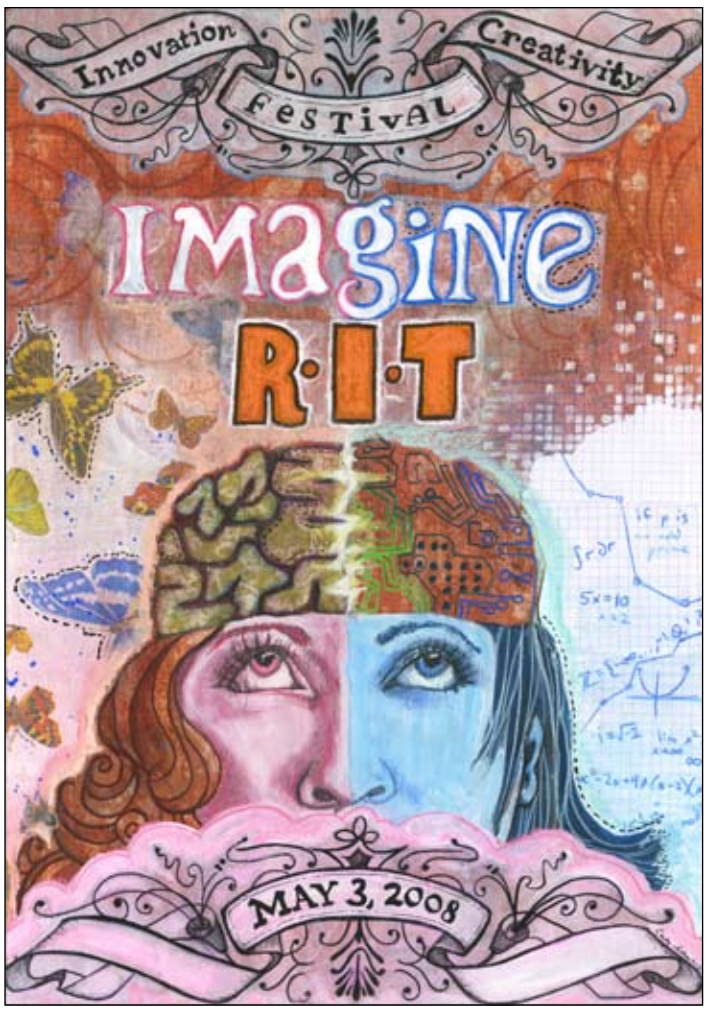
Interpreters: American Sign Language interpreters will be posted at the Toyota Welcome Center, outside the Student Alumni Union and the Wallace Library. They’ll be wearing navy blue T-shirts marked “Interpreter.” In addition, the main stages will have interpreters for all performances.

Exhibits: The Xerox WOW! Center, featuring more than 50 cross-disciplinary projects, will be a premier attraction. However, more than 400 other examples of innovation and creativity can be found throughout the campus. Visitors are encouraged to explore the entire campus. Wear comfortable walking shoes.

Carnival: RIT’s annual Spring Festival coincides with Imagine RIT and is located to the east of the Xerox WOW! Center. Rides and inflatables are available to visitors free of charge. Games and food are available for a nominal fee.

Food: Each of RIT’s dining facilities will be open to the public. Food will also be available for purchase at various food tents across campus.

For more festival details, visit www.rit.edu/imagine. ■



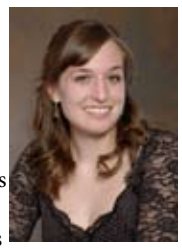
This festival poster was unveiled at a press conference April 25. See related story below.

YouTube, poster contest winners revealed

RIT students have put their signature on preparations for the inaugural Imagine RIT festival.

Carly Schonberg, a fourth-year illustration major from New Rochelle, N.Y., is the winning artist of the official Imagine RIT poster contest. Earlier in the school year, all current RIT students were invited to submit designs, and 32 entries were received. Schonberg, who hopes to pursue a career in children’s books illustration, conceptualized the fusion of right-brain and left-brain outcomes to highlight the festival’s themes of innovation and creativity.

“I took a bunch of techniques I usually work with (particularly collage) and had fun with them,” she explains. “I’m very happy to have this opportunity to show that I can do a different type of illustration and still have it recognized.”



Carly Schonberg

Georgi Unkovski, a second-year fine art photography major, is the creator of the festival’s YouTube video clip. Unkovski was born in New York City but is a lifelong resident of Macedonia. He was selected as the winner of a similar RIT contest that encouraged students to exploit rapidly growing interest in “viral video” to help promote the upcoming festival.

Unkovski’s video focuses on a single student actor and hundreds of crumbled pieces of newspaper. The newspaper pieces, which Unkovski explains as representing “information,” envelop the student by seeming to defy the laws of gravity.

Georgi Unkovski

“I believe that information is what gives birth to creativity,” he states. “The more we see and the more we experience, the more our minds have material to work with to guide our imagination and creativity.”

Schonberg and Unkovski were formally acknowledged during a pre-festival news conference on April 25. Both students received a $500 gift certificate to Barnes & Noble in recognition of their achievements.

“Both Carly and Georgi are representative of the spirit and passion for innovation and creativity that burns across this campus,” says RIT President Bill Destler. “I congratulate them both, and I hope that those who are able to sample the work of these students are inspired to join us here on May 3 to see what our entire campus community has in store for visitors that day.” ■

Paul Stella | pbscom@rit.edu

Georgi Unkovski created the winning YouTube video clip. His video focuses on a student “buried” in hundreds of crumbled pieces of newspaper representing information.

A. Sue Weisler | photographer

RIT President Bill Destler officially unveils the winning Imagine RIT festival poster entry. The piece, created by Carly Schonberg, pictured above, was selected from 31 other entries.

Sponsors help make event successful

Imagine RIT and its premier sponsor, PAETEC, was unveiled during a March 11 news conference.

“There’s a reason we look to RIT for potential employees, and that is the ability these graduates have to approach problems from many angles and to not be afraid to try something new,” says Robert Moore Jr., chief information officer for PAETEC. “We are proud to support Imagine RIT and want the community to experience the innovation and creativity found on this campus.”

Along with PAETEC, other major sponsors for the festival include Toyota, Xerox Corp. and New York State Sen. Jim Alesi.

“As we’ve seen over the last year, a festival of this size and scope is a huge undertaking,” says Kimberly Slusser, chairperson of the festival’s fundraising and corporate support committee. “In addition to the volunteers mobilized, it requires substantial funding support and RIT’s corporate partners have answered that call. The interest RIT corporate supporters have shown in supporting this festival speaks to the strong relationships RIT establishes with industry, but also to those companies’ genuine desire to partner with organizations that are truly driving innovation and creativity in the workforce. Our partners helped us to exceed our goal by more than 100 percent, and that can be considered a measure of the importance of this university to their success and to the economy’s growth.”

To see a complete list of sponsors, visit www.rit.edu/imagine/sponsors.html. ■

Viewpoints

Innovation and creativity come to fruition

by Bill Destler

Eight months ago, during my first opening day address, I put down a challenge to the RIT community: Let's show off our innovation and creativity on campus at a world-class festival in May.

The day has come. Welcome to Imagine RIT!

We believe Saturday's innovation and creativity festival will become both a campus and Rochester tradition for many years to come.

But we need your help. If you are not showing off an exhibit or display (we have more than 400) or volunteering (we have hundreds), then we hope you can join your colleagues for the day. My guess is you will discover things about RIT that you never thought were imaginable.

Bring your family. Bring your friends.

As visitors explore RIT, they will discover a university of artists and designers on the one hand, and scientists, engineers and business leaders on the other. We like to call it a collision of the right brain and the left brain.

Visitors will experience more than 400 exhibits and displays. A visit to the Xerox WOW! Center in the Gordon Field House is a must-see attraction, but we encourage visitors to traverse the campus. They will find stimulating and interactive exhibits in each of our academic buildings.

The festival's mission goes beyond showcasing the thriving RIT campus. We see it as a call to national service. Innovation is one of our country's last competitive advantages. Young Americans walk to the beat of their own drummer, and their desire to be different is an innate American characteristic. Channeling that passion in constructive ways will foster the United States' leadership in technical innovation and creative ideas for new products and services.

So thank you in advance for being a part of this inaugural event. And thank you to the Planning Committee, led by Barry Culhane, for putting this remarkable event together. Planning included countless details in programming, logistics, marketing, public relations, fundraising and public safety. I have certainly learned in my first year as president that this "can-do spirit" is the RIT way.

Finally, I'd like to thank our premier sponsor, PAETEC, and our three-dozen sponsors for making today possible. Enjoy the festival!

Destler is president of RIT.

Project Spotlight

'Second Life' aims to become the world of tomorrow

An increasing number of people are ditching their jobs in the rea world to make a living entirely online within Second Life's virtual economy—making thousands of U.S. dollars selling designs, developing virtual property or creating virtual market branches to offer real products.

Familiar with social networks like Facebook and MySpace, Professors Neil Hair (E. Philip Saunders College of Business) and Susan Barnes (College of Liberal Arts) decided to collaboratively teach an online advertising class—initiating business/marketing and advertising/public relations students into the virtual marketplace of Second Life.

"We are teaching students how to use Second Life, working for real clients on consultancy projects," Hair says. "It's not a game anymore; we're actually helping clients make money."

According to Barnes, their class-work project will be a WOW Center exhibit at Imagine RIT. "We re-conceptualized the classroom and gave students online experience where they had to create advertising and marketing proposals for real consumers in Second Life."

"If you were going to charge for similar work in the commercial world, you're looking at $4,000 worth of work per project," adds Hair.

Featured at Imagine RIT will be a virtual design of the Saunders College of Business' Lowenthal Building, created by senior Matthew Anthony—showcasing Hair teaching the world's first in-world advertising class.

"I fully believe this kind of technology will be the next evolution of the Internet, like the World Wide Web was after news groups," Anthony says.

As class participant Ryland Bacorn confirms, "These new 'worlds' are where the consumer economy is moving at a furious rate." ■

Marcia Morphy | mpmuns@rit.edu

Professors Susan Barnes and Neil Hare will be demonstrating the 'Second life' virtual world at the Imagine RIT festival.

Exhibit Highlight

Interactive technologies use high-speed networks

Using a computer mouse, a boy and girl take turns controlling a camera-equipped robot at the Arctic Region Supercomputing Center in Fairbanks, Alaska. A teenage girl types intently into a shared whiteboard program and waits for a response from another girl at the National Library of Medicine in Bethesda, Md. A young boy makes facial gestures into a camera that superimposes a pig's nose onto his video image and transmits it to the University of Puerto Rico.

About 75 youngsters participated in the video collaboration session held April 24 in the Interactive Collaborative Environments Laboratory, part of Center for Advancing the Study of Cyberinfrastructure in the B. Thomas Golisano College of Computing and Information Sciences.

RIT's Research Computing group uses the ICE Lab to engage in the research and development of interactive and multidirectional technologies using high-speed networks and high quality video.

"Giving young kids hands-on experience with advanced computer, network, and video technologies expands their vision and gives them a glimpse into their own future," states Gurcharan Khanna, director of Research Computing.

Research Computing will eventually connect all eight colleges on campus, Wallace Library and RIT's overseas campuses in Dubai, Croatia and Kosovo with live, interactive video links over advanced high-speed networks.

Visitors to Imagine RIT are invited to sample technologies available in the ICE Lab. ■

Submitted by Gurcharan Khanna

Youngsters take part in a video collaboration session sponsored by RIT Research Computing.

Exhibit Highlight

Everything, including the kitchen sink, will be part of this fiery display at School for American Crafts

Visitors to the Imagine Festival can watch a traditional coke fired cupola, a visual labor-intensive process used for several hundred years to produce cast iron objects.

Cast iron bathtubs, radiators and even kitchen sinks are thrown into a furnace burning at a temperature of 3200 degrees Fahrenheit.

"We keep melting iron all day and when the well of the furnace fills up, we open up the furnace and drain the molten iron out into something similar to a large soup ladle and then pour the iron into the molds," says Elizabeth Kronfeld, assistant professor in RIT's School of Art. "We will keep repeating that process all day."

Coke, or condensed coal, serves as the fuel. The coal mixed with the air melts the broken up bathtubs and other materials. The furnace has three segments—the stack area where the fuel and material are added, the melt zone where the iron melts, and the well of the furnace where the molten iron collects. The well holds about 120 pounds.

Students in the College of Imaging Arts and Sciences will be pouring a variety of forms including self-portraits in iron, parts of a human figure and seed pods.

To see the Iron Pour, head to the School for American Crafts village outside of the James E. Booth Building. ■

Kelly Downs | kaduns@rit.edu

Submitted by Glenn Miller

Sculpture students wait for fuel coke and iron to melt before opening up the well to drain the molten metal from the furnace. The College of Imaging Arts and Sciences will do an iron pour for the Imagine Festival.

Imagine RIT festival hits the airwaves

Rochester is "buzzing" with talk of the Imagine RIT festival.

To watch the video of the 30-second commercial that has hit local airwaves or to listen to a podcast featuring festival chairperson Barry Culhane, who recently visited "Studio 86," visit the Imagine RIT Web site at www.rit.edu/imagine. ■

Exhibit Highlight

Students revamp outdoor lighting system

New technology is allowing businesses and organizations of all sizes to both reduce environmental impact and improve economic efficiency in ways that were previously not possible. Currently, RIT students are adding to this development through a multidisciplinary senior design project, which is working to design an LED-based device for the ultimate retrofit of RIT's outdoor walkway lighting system. LED, or light-emitting diode, based lights use less energy, are more durable and require less maintenance than traditional light bulbs and could drastically reduce the $3 million RIT spends annually on lighting.

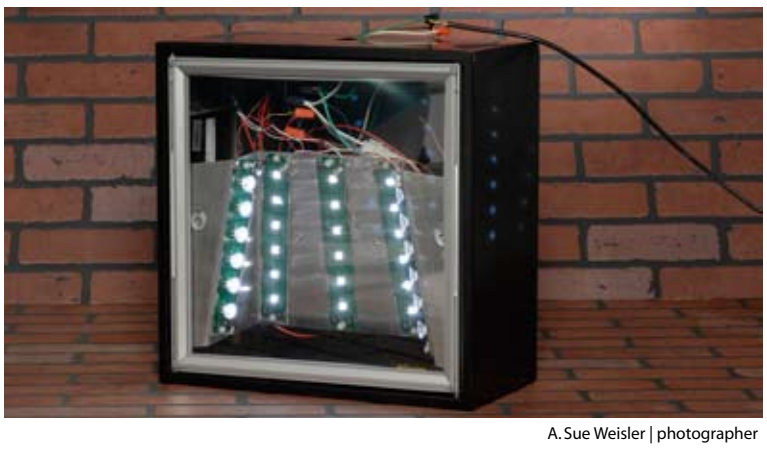
The use of such lights will also decrease the campus' environmental footprint and serve as a model for the introduction of LED lights in other areas of the university, including residence halls and classroom buildings. A project prototype and proposed campus LED system design will be showcased during Imagine RIT.

"We hope this effort will reduce the campus' overall energy use and assist RIT in becoming a more sustainable university," says Shawn Russell, the project team leader.

The LED light design team also includes fellow RIT students Arthur Deane, David Eells, Christine Lagree, Phil Pietrantoni and Taylor Shivell.

In an ongoing effort to increase the sustainability of the RIT campus, the Kate Gleason College of Engineering created a sustainable product, and energy track in its multidisciplinary senior design program in 2006. Projects developed out of the track seek to enhance the energy efficiency and use of alternatives in a wide variety of campus operations. Previous efforts have included the installation of a wind-powered walkway light and improvements to the operations of a heating system for campus buildings.

"The alternative energy projects are designed to enhance engineering students' understanding of sustainable design and technology development while also assisting RIT in increasing the overall environmental quality of campus facilities with innovative technologies," notes Rob Stevens, assistant professor of mechanical engineering and primary faculty guide for the sustainable product and energy track. ■



A. Sue Weisler | photographer

A prototype LED lighting system will be showcased at the festival. The student team hopes to utilize the LED system to retrofit RIT's walkway lights, reducing environmental impact and decreasing the nearly $3 million the university spends annually on lighting.

Viewpoints

RIT festival a natural fit for PAETEC

by Arunas Chesonis

Imagine a world without creativity. I visualize a dull and dreary place, and one in which I would not want to live. Imagine a business always doing what they have done in the past. I see that business preparing to fail.

Therefore, I was thrilled upon learning that President Destler had a vision to celebrate the fusion of art and technology, and I'm excited that PAETEC is involved in the inaugural Imagine RIT: Innovation and Creativity Festival. As President Destler has noted, this festival will help educate the community on the creativity and innovation that is produced by the students and faculty of RIT.

Sponsoring an innovation and creativity festival may not appear to be an obvious choice for a company such as PAETEC; however, we would not have achieved the level of success we've experienced without strong doses of creativity and innovation.

At PAETEC, our belief is that every customer has unique needs, and in order to help them, we need to have creative solutions. PAETEC's success is primarily due to the creative approach our employees take when solving problems. A good portion of that creativity has come directly from RIT.

PAETEC currently employs over 100 RIT graduates in many different departments. There's a reason we look to RIT. It is the ability that RIT graduates have to approach problems from many angles, and to not be afraid to try something new.

One of the earliest PAETEC taglines was, "Where Communications has become an Art." In our view, creativity does not have to be limited to art or film studios; it can very easily come from a software or network engineer.

Leave children on their own, and you will see them approach problems in ways that we, as adults, have somehow programmed out of our brains. Sometimes in the workplace it's frowned upon to say, "I don't know if this will work, but let's give it a try."

The truth is, innovation and creativity are attributes that professionals and prospective graduates must possess. The success of today's companies in our global economy depends on them.

Many folks at PAETEC—including RIT alums—look forward to visiting on May 3 to experience that

what can be imagined can become reality, quite possibly created by future PAETEC employees.

Chesonis is president and CEO of PAETEC, and an RIT trustee.

Exhibit Highlight

College of Science offers new interactive learning techniques

RIT's College of Science is immersed in creativity. A simple idea to wallpaper classrooms with images, movement and sound using digitally networked projectors has taken hold and is inspiring professors across campus to dive into a new way of teaching. Collaborations are ongoing with researchers in the B. Thomas College of Information and Computing Sciences, the College of Imaging Arts and Sciences and the College of Liberal Arts.

The approach is simple, flexible and easily adapted to traditional learning environments and more experimental, active classrooms that incorporate screen displays in either open or cube-like configurations.

"The basic simple idea is that surrounding people with big pictures and sound is a very engaging way of interacting with them," says Ian Gatley, dean of the College of Science. "We can use it for teaching or for entertaining."

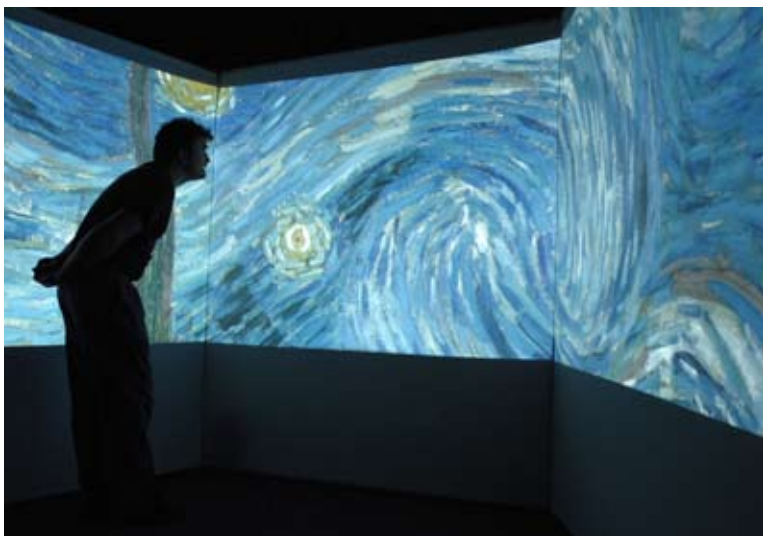
Gatley first suggested the idea to the Rochester Museum and Science Center as a way to upgrade its planetarium projection technology. Gatley, who chairs a task force at the museum and science center, looked into the technology and saw potential applications at RIT.

"There's more you can do within the spaces they're used to working in," says Mitchell Rosen, research professor in color science and director of the iPixLab, the Infinite Pixel Liberation Laboratory, where the projection technology is explored.

A variety of immersive and wide-view large projection displays will be showcased at Imagine RIT. The Gosnell Building, for instance, will house the RIT Immersive Theater in the Van Peursem Auditorium and a huge flat screen over the atrium. Prototype immersive classrooms will be in the Link Building and in Wallace Library, A400, where the "Collabortorium" will be on display.

"It's very, very difficult to get high schoolers impressed by anything technological these days," Rosen says. When using this technology for high school open houses, Rosen says, "we get an auditorium full of high school seniors who are absolutely engaged. This tells us we have stumbled upon something worth pursuing."

According to Rosen, this kind of large projection technology is starting to attract attention from companies and other universities. RIT, he says, is ahead of the wave.



A. Sue Weisler | photographer

A variety of immersive and wide-view large projection displays will be showcased at Imagine RIT. This prototype immersive classroom will be on display in the Link Building.

"RIT has the technologists who understand the capture, the manipulation and the presentation of imagery," he says. "But at the same time we have that creative army of young adults who are just waiting to take off the shackles. And we know that whenever something like that comes along—like YouTube, like other aspects of instant sharing of media—we know that they jump straight in.

"And now, what we're saying is, 'You're no longer constrained to that rectangle on the desk or that rectangle on the wall. The walls are now alive. The desktops are now truly available to you. Everything in the room can be painted by this technology, even your friend's shirt for that matter.'" ■

Susan Gawlowicz | smguns@rit.edu

Formula Car revs up

A. Sue Weisler | photographer

Members of RIT's Formula SAE Racing Team conduct preparatory work to the vehicle prior to test driving. This year's RIT Tiger-themed Formula racecar will be unveiled at the inaugural Imagine RIT: Innovation and Creativity Festival on May 3. RIT competes in the annual Formula SAE competition, sponsored by the Society of Automotive Engineers, May 14-18 at Michigan International Speedway in Brooklyn, Mich. (near Detroit), part of the SAE Collegiate Design Series. The team will also enter the Formula Student Germany contest Aug. 6-10 in Hockenheim.

A decadent display of talent

A. Sue Weisler | photographer

Students in the School of Hospitality and Service Management's Food Product Development course will be showing off some new culinary creations in the Xerox WOW! Center. The students have teamed with Dove Chocolate to create new chocolate recipes for the company's Dove Chocolate At Home product line.

Above, hospitality student Elaine Gilbert shows off her creation at the New York Wine & Culinary Center.

RNews
As It Happens, Where It Happens

University News exhibit spotlights '21st Century News'

News gathering and, equally important, news distribution in the digital age are the focus of an exhibit at this year's Imagine RIT: Innovation and Creativity Festival.

"21st Century News," sponsored by RIT University News Services and R News, will spotlight the tools used to gather and disseminate news today. The exhibit also will feature live news updates direct from event.

■ R News, Rochester's 24-hour news station (cable channel 9), will broadcast from the festival using its "live truck," which will be stationed outside Gordon Field House and Activities Center. Visitors can explore the vehicle and learn about remote-transmission technology. The University News/R News exhibit will be located nearby, inside the field house, which has been designated the festival's "Wow Center."

■ University News will demonstrate how "new media" tools, such as Web sites, blogs and podcasts, along with so-called "Web 2.0" social-networking vehicles, such as Facebook—each emphasizing user-generated content—have changed the way news organizations distribute and react to news. With many of these tools incorporated into its recently redesigned Web site, RIT University News has become a direct provider of RIT news to the public—frequently bypassing traditional mass media outlets such as newspapers, radio and television.

Exhibit visitors will be able to watch live Web site, blog and online photo gallery updates, and possibly even hear themselves on a news podcast. They will also see how "old media" vehicles remain very much a part of 21st Century news gathering and dissemination. For example, *RIT: The University Magazine*, RIT's alumni publication, and *News & Events*, RIT's "newspaper of record," both published by RIT University News, increasingly feature "Web extras" that direct readers to the World Wide Web for supplemental coverage—like this, for example:

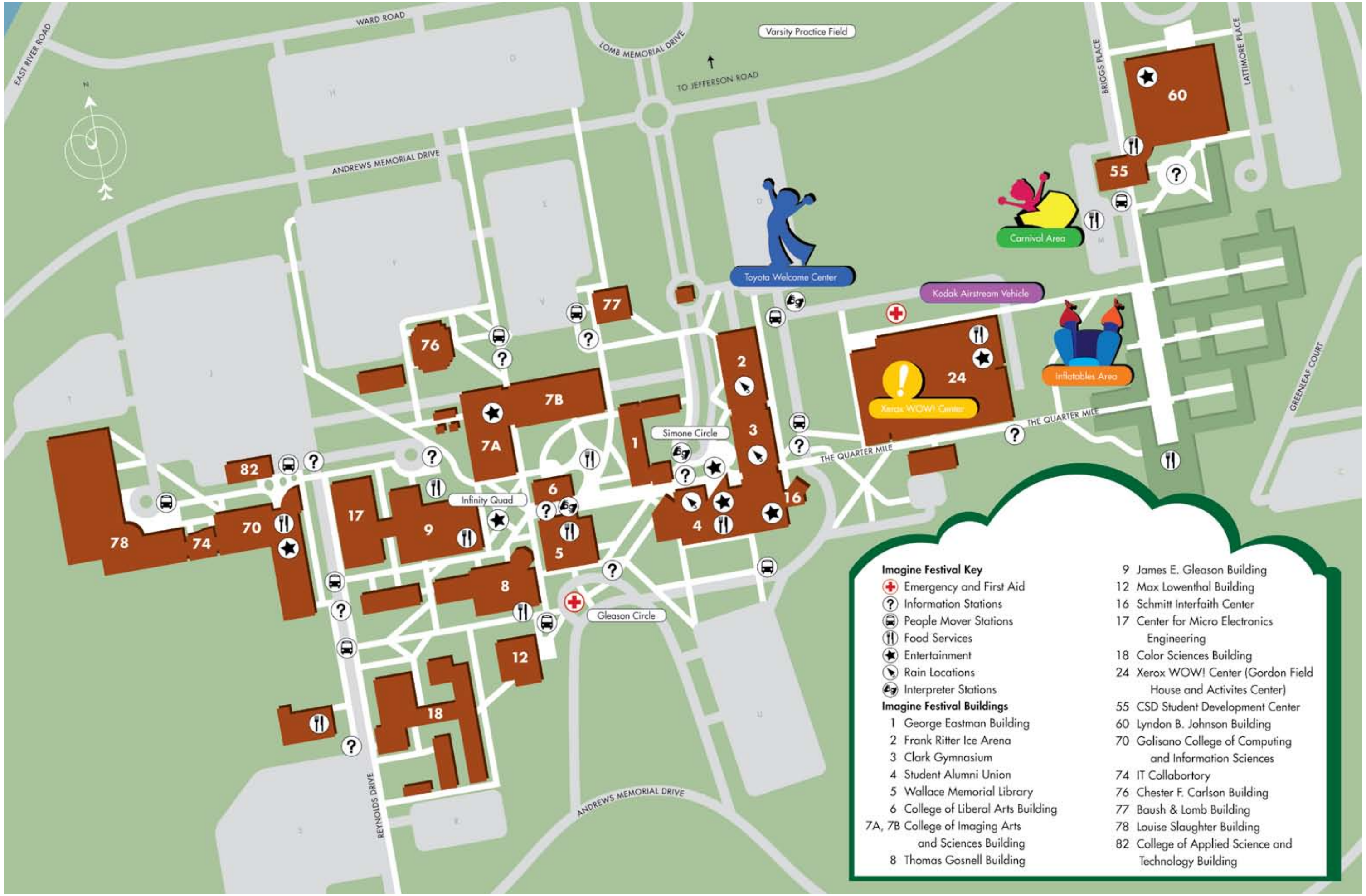
■ For more about the festival, visit www.rit.edu/imagine and listen to Barry Culhane, festival chairman, on the RIT news podcast "Studio 86" at www.thetigerbeat.com/rss/podcasts/studio86_04-15-08.m4a.

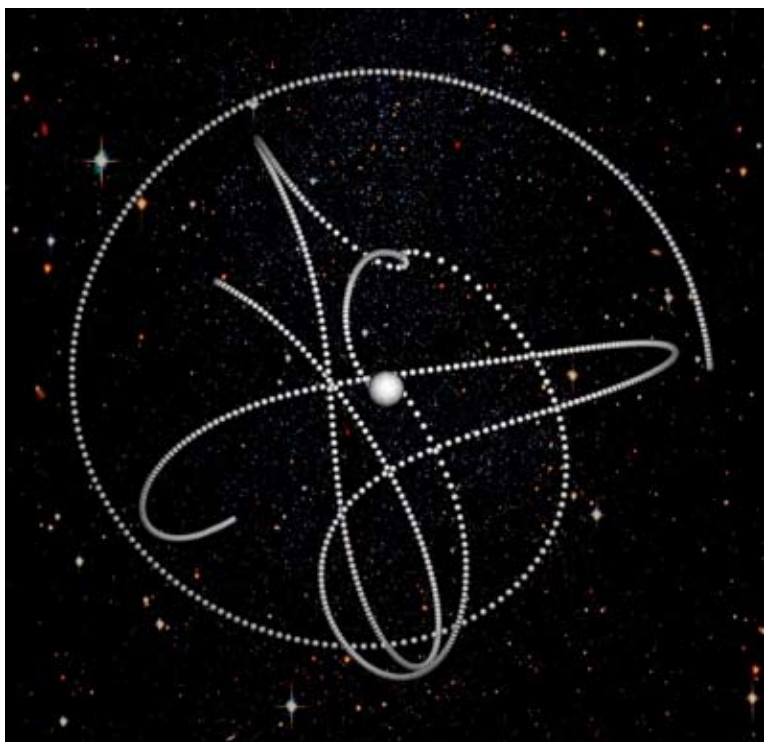
Look for the RIT University News/R News exhibit in Gordon Field House. If you're unable to attend, watch for live updates at www.rit.edu/news. ■

Michael Saffran | mjsuns@rit.edu

See you next year!

The second annual Imagine RIT: Innovation and Creativity Festival will take place on May 2, 2009. Your input will help us make next year's event even better. Please fill out our online survey at www.rit.edu/imagine.


WARD ROAD
EAST RIVER ROAD
LOMB MEMORIAL DRIVE
Varsity Practice Field
TO JEFFERSON ROAD
ANDREWS MEMORIAL DRIVE
BRIGGS PLACE
LATTIMORE PLACE
GREENLEAF COURT
THE QUARTER MILE
REYNOLDS DRIVE
Toyota Welcome Center
Kodak Airstream Vehicle
Carnival Area
Inflatables Area
Xerox WOW! Center
Simone Circle
Infinity Quad
Gleason Circle
60
55
77
76
7B
7A
2
1
3
24
82
6
16
17
9
4
78
74
70
5
8
12
18
Imagine Festival Key
Emergency and First Aid
Information Stations
People Mover Stations
Food Services
Entertainment
Rain Locations
Interpreter Stations
Imagine Festival Buildings
1 George Eastman Building
2 Frank Ritter Ice Arena
3 Clark Gymnasium
4 Student Alumni Union
5 Wallace Memorial Library
6 College of Liberal Arts Building
7A, 7B College of Imaging Arts and Sciences Building
8 Thomas Gosnell Building
9 James E. Gleason Building
12 Max Lowenthal Building
16 Schmitt Interfaith Center
17 Center for Micro Electronics Engineering
18 Color Sciences Building
24 Xerox WOW! Center (Gordon Field House and Activites Center)
55 CSD Student Development Center
60 Lyndon B. Johnson Building
70 Golisano College of Computing and Information Sciences
74 IT Collabortory
76 Chester F. Carlson Building
77 Baush & Lomb Building
78 Louise Slaughter Building
82 College of Applied Science and Technology Building



Three black holes create interesting trajectories before finally merging. This image was taken from a movie tracing the interaction of a trio of same-sized masses. Simulation by Manuela Campanelli, Carlos Lousto and Yosef Zlochower. Visualization by Hans-Peter Bischof. Background image: NASA, European Space Agency and the Hubble Heritage Team (Space Telescope Science Institute/Association of Universities for Research in Astronomy).

RIT 'black hole' scientists create unique celestial union

The same team of astrophysicists that cracked the computer code simulating two black holes crashing and merging together has now, for the first time, caused a three-black-hole collision.

Manuela Campanelli, Carlos Lousto and Yosef Zlochower—scientists in RIT's Center for Computational Relativity and Gravitation—simulated triplet black holes to test their breakthrough method that, in 2005, merged two of these large mass objects on a supercomputer following Einstein's theory of general relativity.

The new simulation of multiple black holes evolving, orbiting and eventually colliding confirmed a robust computer code free of limitations. The May issue of *Physical Review D* will publish the team's latest findings in the article "Close Encounters of Three Black Holes," revealing the distinct gravitational signature three black holes might produce. The story will run under the "Rapid Communications" section.

"These simulations are timely because a triple quasar was recently discovered by a team led by Caltech astronomer George Djorgovski," says

Black holes, page 8

A. Sue Weisler | photographer

Ligia Amada Melo, secretary of state for Higher Education, Science and Technology in the Dominican Republic, sits with RIT President Bill Destler during a visit to RIT in 2007.

Dominican Republic offers RIT scholarships

The Dominican Republic government has partnered with RIT to offer scholarships to the island country's best and brightest graduate students.

James Miller, senior vice president for Enrollment Management and Career Services at RIT, recently signed the agreement with Ligia Amada Melo, secretary of state for Higher Education, Science and Technology in the Dominican Republic, to offer scholarships to RIT in the areas of industrial and systems engineering, sustainable engineering, innovation management, computing, software engineering, telecommunication engineering technology, networking and systems administration, and communication and media technologies.

To date, the secretary of Higher Education, Science and Technology has received more than 25 competitive applications for this upcoming summer quarter. An additional 25 to 40 graduate students from the Caribbean nation will have the opportunity to apply and attend RIT this fall on a full ride from the government.

"This is a significant step in our relationship with the Dominican Republic," says Miller, "and an excellent example of how our global partnerships mature and develop over time."

Interest from the Dominican government in this partnership began last fall when RIT hosted Dominican Republic President Leonel Antonio Fernández Reyna and members of his cabinet on campus. Fernández and RIT President Bill Destler discussed wide-ranging partnerships between the Dominican Republic and the university.

"The collaboration with RIT provides opportunities to our students to have high quality education," Fernández said then. "We need to train our people at a high level to

Dominican Republic, page 8

RIT helps make Brighton a 'greener' place to live

RIT and the town of Brighton have embarked on a research and analysis project that will assist Brighton in reducing its carbon footprint and enhancing overall environmental quality in the region. The collaboration is a component of the town's Color Brighton Green initiative, which is seeking to reduce local carbon dioxide emissions by 10 percent.

The Golisano Institute for Sustainability at RIT is conducting an analysis of Brighton's public vehicle fleet, studying current fuel efficiency and emissions as well as the potential use of alternative fuels and vehicles. The project will provide the town with a set of recommendations on ways it can decrease fuel consumption, improve efficiency and potentially reduce carbon dioxide output. The study is being funded through a grant from the U.S. Department of Transportation.

"Our partnership with The Golisano Institute for Sustainability offers a great opportunity for the town of Brighton to become greener," says town Supervisor Sandra Frankel. "The institute's professional expertise provides a means of assessing fuel efficiency and emissions for the town-owned vehicle fleet and is identifying ways in which we can conserve fuel and reduce emissions. Brighton is serious about doing our part to reduce our carbon footprint and conserve energy."

"This collaboration is enhancing the use of alternative fuel and energy efficiency technologies, while also creating a cleaner environment for the citizens of Brighton," adds Nabil Nasr, director of The Golisano Institute for Sustainability. "I would like to commend Supervisor Frankel and the entire town administration for their leading efforts in this area."

Research conducted through the study includes a comparison of emissions, fuel efficiency and overall performance of a wide variety of alternative-energy vehicles and fuel types to assist the town in making the optimum choice for their transportation needs. It also includes efforts to enhance current fleet operations through the implementation of improved maintenance procedures, fuel optimization approaches and recycled and remanufactured components. This analysis supports the Golisano Institute's larger efforts to develop life-cycle modeling tools and an analytical framework for municipalities or fleet users looking to develop an alternative fuel vehicle fleet.

"The decision to implement alternative energy vehicles is based on a host of factors, including the performance of these vehicles over their entire life cycle," Nasr notes. "Through the analysis of alternative vehicle and fuel performance, we hope to create a suite of tools that can assist other municipalities and fleet users in making the right choices based on the needs of their communities."

"By 'thinking globally and acting locally,' we can have a cleaner, healthier environment now and for the future, save money and reduce energy costs at home and in town hall, and reduce our reliance on imported oil in the interest of national security," Frankel adds. "The well-being of our community, our nation and, indeed, the world depends upon everyone stepping up to meet the challenge of climate change and global warming." ■

Will Dube | wjduns@rit.edu

News briefs

International music fest

The RIT Music Program will present the International Music Festival, featuring Son de la Tierra, Urban Steel, the RIT African Percussion Ensemble and RIT World Beat, at 12:30 p.m. May 3 in Ingle Auditorium in the Student Alumni Union.

Upcoming free performances include the RIT Singers' Spring Concert at 12:30 p.m. May 3 in the Interfaith Chapel and the RIT Concert Band and Jazz Ensembles at 7:30 p.m. May 14 in Ingle Auditorium.

Free spring concert May 4

The RIT Orchestra will hold its free Spring Concert at 4 p.m. May 4 in Ingle Auditorium in the Student Alumni Union.

A question-and-answer session with composer Ethan Haimo will be held 45 minutes before the event. Members of the orchestra will give a pre-concert presentation to the public at 3 p.m. May 3 in Ingle Auditorium as part of Imagine RIT.

Product development talk

Industry leaders from Boeing, IBM and RIT will present at the Product Development and Management Association of Western New York's Cool Products: Aligning Innovation with Reality conference May 13 at RIT's Golisano College of Computing and Information Sciences auditorium.

Kicking off the event at 8 a.m. is RIT President Bill Destler, followed by Pete Guard, manager of the Payloads Concept Center for Boeing Commercial Airlines.

For information and a list of speakers, call 726-4907 or visit www.wnypdma.org.

Guidance for environmental managers

Corporations around the world employ environmental managers to help them develop and realize their environmental policy goals. While there are a variety of associations that help environmental managers do their jobs better, no organization focuses on what the profession ultimately wants to achieve—until now.

John Morelli, the Russell C. McCarthy Chair in RIT's College of Applied Science and Technology, is spearheading the Environmental Management Leadership Initiative. The initiative is designed to create a philosophical home for the profession and a forum for professional environmental managers to collaboratively engage in research and discussion, in an effort to better define the profession.

"Our goal is to elevate and enhance the environmental management profession," Morelli says. "We want to take a step back from our daily tasks and take a look at the big picture of where our profession is and where we want to end up."

The initiative has two main components: the Environmental Management Leadership Symposia series and a Web site, www.EnvironmentalManager.org.

The leadership symposia will be held in the United States, European Union and Asia over the next two years. These events will consist of workshops that will examine specified issues with a long-term goal of developing consensus documents representing the position of environmental managers on a variety of topics and issues. Attendance at each symposium will be by invitation and limited to approximately 60 people. The first symposium is scheduled to take place May 5-6 at RIT. The second symposium will be held June 23-24 at Corvinus University in Budapest, Hungary. A third will be held Oct. 3-4 at the American College of Management and Technology in Croatia. Another is being scheduled for the American University in Kosovo in the fall, and venues are being explored in Italy, China and India in 2009.

Guest speakers from Bocconi University in Milan and Corvinus University in Budapest are going to be speaking at the RIT Symposium in May, addressing topics entitled "Corporate Social Responsibility in Corporate Headquarters and in the Developing World," "Sustainability and Innovation" and "What Makes a Corporation Green?"

EnvironmentalManager.org is intended to serve as an international research collaboratory for environmental management professionals, faculty and students to develop topics and issues for discussion at the symposia, and to provide continuity between events. It will also host published position papers and other working documents.

One of Morelli's primary objectives was to start a conversation between environmental managers around the world—and it's beginning to happen. Already, before the first symposium is held, the Web site has served as a gathering place for environmental managers in the field to discuss various topics and ideas related to their profession.

Morelli believes this initiative takes on added importance as the global community works toward a more sustainable future.

"Sustainability has to be a multidisciplinary effort. Each profession should step and examine where it can contribute," Morelli says. "We want to determine what role environmental managers should play in the sustainability effort. All environmental professionals are invited to visit www.EnvironmentalManager.org and get involved in the discussion." ■

John Follaco | jpfuns@rit.edu

Creative crescendo

Each student in the School for American Crafts will showcase some of their top pieces during "Walk-through." The annual event is from 4 to 6 p.m. May 19 in the James E. Booth Building. The metals work, shown at left, On A Windy Day, *produced by Soo Young Kim, a master of fine arts student in the metals program, will be one of the many pieces on display. All graduate and undergraduate students in the school's clay, glass, metals and wood programs participate in Walkthrough, a tradition that began more than 20 years ago.*

news&events www.rit.edu/newsevents

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(585) 475-5064 | 475-5097 (fax) | news&events@mail.rit.edu
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Brandon Borgna, Kelly Downs, Will Dube, John Follaco, Susan Gawlowicz, Steve Jaynes, Kathy Lindsley, Greg Livadas, Marcia Morphy, Joe Venniro

R·I·T
Rochester Institute of Technology
One Lomb Memorial Drive
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Dominican Republic *from page 7*

fully integrate into the international community."

RIT's relationships in the Dominican Republic began in 1996 with Pontificia Universidad Catolica Madre y Maestra when a small group of students from the university came to RIT to study in industrial engineering and business. Since then, more than 250 Dominican students have completed RIT degrees in disciplines critical to the economic development of the country. There are currently more than 40 students from the Dominican Republic studying in bachelor's, master's and doctorate programs at RIT. An additional 50 students are completing master's degree programs in networking and systems administration and service management in the Dominican Republic.

In 2006, RIT and Pontificia Universidad established the International Center for Innovation in Technology and Management. The initiative is designed to provide support and build capacity in the areas of technological infrastructure, human resource development, collaborative research and innovation in the manufacturing and service sectors.

In 2007, the Dominican government joined the university partnership and pledged significant financial support for programs through the center. This three-way partnership supports the government agenda to increase competitiveness of the country, with emphasis on enhancing cyber-infrastructure, innovation in manufacturing and international business development. ■

Bob Finnerty | refuns@rit.edu

Xerox gift *from page 1*

impact on our planet.

"We were an early leader in the 'green' movement because we thought it was the right thing to do for the environment, but we discovered something else along the way. Every one of our innovations ended up either saving us money or creating new markets and new revenue. We found, in other words, that we don't have to choose between the environment and profit. We can do both."

The Xerox commitment to The Golisano Institute for Sustainability represents the latest chapter in its long-standing relationship with RIT. Most recently, in 2004, the company gave $2 million to support development of a computing doctoral program within RIT's B. Thomas Golisano College of Computing and Information Sciences. Xerox is also a founding partner of the Printing Industry Center at RIT. Each year, Xerox employs more than 50 RIT students in co-op positions within the company, and more than 2,200 alumni currently work for the company.

Plans for the construction of a $50 million 'green' facility to house The Golisano Institute for Sustainability are currently being considered. Last month, the Rochester-area delegation to the New York State Legislature secured $12 million to begin the planning, design and eventual construction of this building. ■

Paul Stella | pbscom@rit.edu

Black holes *from page 7*

Lousto, professor in RIT's School of Mathematical Sciences. "This presumably represents the first observed supermassive black hole triplet."

The RIT team's triple merger simulates the simplest case of equal masses and nonspinning black holes, a prerequisite for exploring configurations of unequal masses and different spins and rotations. The center's supercomputer cluster "newHorizons" processed the simulations and performed evolutions of up to 22 black holes to verify the results.

Specially designed high-performance computers like newHorizons are essential tools for scientists like Campanelli's team who specialize in computational astrophysics and numerical relativity, a research field dedicated to proving Einstein's theory of general relativity. Only supercomputers can simulate the force of impact necessary to generate gravity waves—warps in space-time that might provide clues to the origin of the universe.

"In order to confirm the detection of gravitational waves, scientists need the modeling of gravitational waves coming from space," says Campanelli, director of RIT's Center for Computational Relativity and Gravitation. "They need to know what to look for in the data they acquire otherwise it will look like just noise. If you know what to look for you can confirm the existence of gravitational waves. That's why they need all these theoretical predictions."

Adds Lousto: "Gravity waves can also confirm the existence of black holes directly because they have a special signature. That's what we're simulating. We are predicting a very specific signature of black hole encounters. And so, if we check that, there's a very strong evidence of existence of black holes."

For more information, visit ccrg.rit.edu. ■

Susan Gawlowicz | smguns@rit.edu

Leica Day *from page 2*

scenes moments at the White House opens at the Southeast Museum of Photography in the fall of 2008. His focus of the last two years has been "One of Us," a personal project documenting people displaced by Hurricane Katrina. Usher covered Katrina for *Time* magazine and was profoundly affected by the survivors and their personal accounts as told to him during repeat visits to New Orleans and throughout the United States. His images are currently in development as a book and traveling exhibition. Usher's lecture is sponsored by Leica in cooperation with Eastman Kodak Co.

Webb's presentation will be Tuesday, May 6, at 6:30 p.m. in Webb Auditorium in the James E. Booth Building. Webb joined Magnum Photos as an associate member in 1976. He has published seven photography books, including *Hot Light/Half-Made Worlds: Photographs from the Tropics, Crossings*, and *Istanbul: City of a Hundred Names*. Articles about Webb's photographs have appeared in *Art in America* and *Modern Photography*. His work has been on exhibit in the United States and Europe. Webb's lecture is sponsored by Leica.

"Much like our students, Dr. Kaufmann has a real passion for photographic education and we are thrilled to receive this generous donation," says Bill DuBois, chair of photographic arts in RIT's School of Photographic Arts and Sciences. "Our first-year photography students up through our graduate students will have access to the Leica cameras as they learn about film technology. As long as film is being produced, we are committed to teaching our students how to incorporate it into their professional repertoire." ■

Kelly Downs | kaduns@rit.edu

Green building *from page 1*

savings at over $24,000), which is comparable to the power necessary to service approximately 47 New York state homes.

It also includes two 1,500-gallon cisterns that were installed to collect rainwater from the roof to flush toilets in the restrooms. Rainwater is also used to irrigate some unusual plantings in the main lobby, where a vertically landscaped 'green' wall improves air quality.

"The opening of the new College of Applied Science and Technology Building further establishes RIT's presence as a global leader in sustainable technology, research and innovation," says New York State Sen. Jim Alesi. "This state-of-the-art facility will serve as a model for future building not only in New York state, but throughout the world."

New York state Assemblymember Susan John agrees: "I applaud Rochester Institute of Technology's leadership on sustainability. This facility has the look of a 21st century building and the design of the 22nd century. I know that the College of Applied Science and Technology Building will serve as a model for all construction projects in the county, state and nation."

The College of Applied Science and Technology Building features the William G. McGowan Center for Telecommunications, Innovation and Collaborative Research, the William G. McGowan Student Commons, the REDCOM Telecommunications Systems Laboratory and Lecture Facility, the American Packaging Corp. Center for Packaging Innovation and an Occupational Safety and Health Administration Training Center.

The building is also home to the college's Department of Civil Engineering Technology/Environmental Management and Safety and Department of Electrical, Computer and Telecommunications Engineering Technology.

In addition to RIT's investment, funding for the $10.5 million, 33,600-square-foot facility came from the following individuals and organizations: William G. McGowan Charitable Fund, New York State Higher Education Capital Facilities Program, REDCOM Laboratories Inc., American Packaging Corp., Rock-Tenn Co., Eastman Kodak Co., Joseph Clayton, One Communications, Melles Griot, Mitel Inc., Fibertech Networks LLC, O'Connell Electric and Green Living Technologies LLC. ■

John Follaco | jpfuns@rit.edu

State grant *from page 1*

study and disseminate information on new market and product development opportunities. The programs also work closely with New York's Manufacturing Extension Partnerships and Industrial Development Agencies to identify targeted industries and companies.

The initiatives, created in 2007, grew out of key recommendations of the RIT-led Roadmap for the Revitalization of Upstate New York Manufacturing, a two-year, bottom-up study that identified the need for additional resources to assist companies in implementing new technological innovations and access technical knowledge about new market opportunities and industry trends. ■

Will Dube | wjduns@rit.edu

Imagine Cup *from page 1*

and competed in the software design category.

"The Imagine Cup event is like the Olympic Games, bringing together the best student researchers from around the globe," adds Zhou, a third-year computer science major. "I am thrilled to have a second chance to compete in the Imagine Cup World Finals, and I am incredibly pleased that the judges believed our project was worthy of inclusion."

The Microsoft Imagine Cup, founded in 2003, is one of the premier student design competitions in the world, featuring teams from a host of international colleges and universities that compete in nine categories related to science, engineering and computing. ■

Will Dube | wjduns@rit.edu

Correction

Due to a reporting error in the April 17 issue, the location of the emirate of Dubai was incorrectly identified in a story about Harvey Palmer, the Leo H. East Engineer of the Year award recipient. The correct location is the Arabian Peninsula.