

R·I·T

The University Magazine

Winter 2013-14

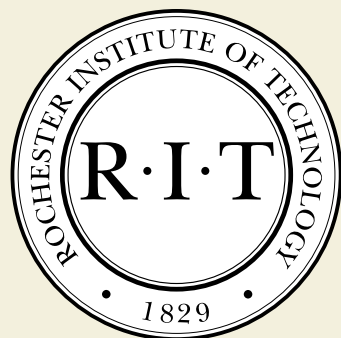


Forever a Team

Star runner's brain
injury inspires
teammates from
30 years ago—
and a new coast-
to-coast journey

Shedding light on Earth-like planets

Search for perfect snowflake ends under microscope



RIT: The University Magazine

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Photo by Elizabeth Lemark/RIT Production Services

Student Adam Munich won the Engibous Prize at the Texas Instruments Analog Design Contest.

FROM THE PRESIDENT

Skunk works and a strategic plan

Student Adam Munich has truly been a pain. In his first year at RIT, he got into trouble for cracking our IT security systems just to show us how easy they were to break into. He also took on several self-directed engineering projects in our various labs and shops by mostly breaking our rules and borrowing material and equipment wherever he could find them.

One of his projects was an advanced Tesla coil, which he wanted to demonstrate at our Imagine RIT: Innovation and Creativity Festival. But since it operated at a high voltage, we told him he could not turn it on for safety reasons. I guess we showed him!

Well, actually, he showed us. His Tesla coil won the Engibous Prize at the Texas Instruments Analog Design Contest and Summit in Dallas this summer, taking home the grand prize of \$10,000. The awards panel at TI was astonished at both the sophistication of his design and the innovation he showed in actually producing a working model. And they were even more astonished to learn that he just finished his freshman year.

Adam has quite honestly attributed a fair amount of his success to his quiet circumvention of our various rules and regulations. I think in the wake of this experience we need to be willing to ask ourselves whether we are getting in the way of talented students like Adam or recognizing their potential and finding ways to support them. As a result, I have asked Adam to work with us to help create a kind of student "skunk works" or "hacker space" that would support student-directed projects more effectively.

These interesting predicaments and opportunities will increase as our national and global visibility continues to rise. Yet we have more to accomplish to accelerate our momentum. What will it take to get there? We need to continue on our path to extend our geographic reach in our recruitment of the most talented students, faculty and staff. We must continue to grow our reputation as a place where innovation, creativity and entrepreneurship flourish. We must continue our efforts to diversify our student, faculty and staff populations and tap NTID's presence on our campus. We must continue to get RIT's name out there across the country and around the world. We must continue to be seen as a place where students and parents get a real return on their investment. And we must continue to develop as a place where the best and brightest come to find their futures.

So what is next? The university's leadership will soon begin a new strategic planning process. RIT's current plan will end in 2015 and it is vital to our continued success that we smoothly transition to a solid plan for the next decade. I am excited to be part of charting the course for RIT's next decade and look forward to active participation from the campus community, our alumni and our many donors and friends.

Cordially yours,

Bill Destler, President
www.rit.edu/president

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Cover

Former cross country runner Brian Nice recreated the historic 1979 coast-to-coast relay, this time photographing the American landscape to show that people with traumatic brain injuries can still do what they love. Items on the cover belong to members of the 1979 relay team. (Photo by A. Sue Weisler, photo illustration by Jeff Arbegast)



Find the free RIT: The University Magazine App in the App Store, Amazon Appstore and Google Play for the iPad, iPhone, Kindle Fire and Nexus 7.



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A devastating brain injury slowed down photographer and runner Brian Nice '84, but he stayed in life's race and finished a new cross-country journey with support from his teammates from 30 years ago.

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Graduates pour their hearts into a new brewery in Kosovo.



Thank you, R. Roger Remington



R. Roger Remington

Roger Remington springboarded my design career 26 years ago, when he challenged me in my senior design project and subsequently recommended me to Xerox Corp. upon graduation from RIT.

I was hired as a graphic designer in Xerox's Industrial Design/Human Interface department. I used the principles of

graphic design from Roger Remington to design flip cards for office copiers, user interfaces for networked office equipment and worldwide networked multifunction products and services. I draw upon the design education I received at RIT on a daily basis and am constantly asking the question that I heard often in RIT design critiques, "How could this solution or system be improved?"

I used design language to bring out the best in customers, product designers, anthropologists, ethnographers and mechanical and software engineers to create

better office systems. I currently operate one of the most successful Drama Kids International franchises in the United States, here in Rochester, where our motto is "Drama Develops Kids." Just like good design, drama develops great self-expression skills in individuals and builds curiosity and imagination in the communities we serve. Thank you again, Roger Remington and RIT, for providing me the design foundation upon which to ask questions and spark imaginations to inspire the next generation of great people in Rochester!

Pamela Spiteri '87 (graphic design)

Professor inspired photographer

It's wonderful how one little sentence at the bottom of a page can trigger memories! Page 22 of the (Fall 2013) RIT magazine asked, "Was there a faculty member who made a difference in your life?"

Indeed, there were many great faculty members in the photography department who both inspired and trained, but the one person who made the greatest influence on my life was not involved in photography.

During the winter quarter of 1969, I enrolled in the elective public speaking. I'm afraid that after nearly 45 years, I do not remember details about the instructor. (I believe his name was Mr. Gray or maybe Mr. Grey.) He kept the class energetic and interesting at all times—much the same as a good speech.

As a result of that class, and his inspiration, I have been able to speak before groups, large and small, with ease and confidence.

Techniques learned for organizing my thoughts in preparation for speaking are equally useful in the field of writing, which became a major part of my professional life.

So, to this fine gentleman go my everlasting thanks. His teaching was the foundation for a great deal of enjoyment in my life.

W.K. (Bill) Longcor '69 (professional photography)

Editor's note: Email us at umagwww@rit.edu if you know this professor. (A man named Ralph Gray taught at RIT from 1949-1976.)

Every dollar counts, parent says

As a parent of a current RIT student, I enjoy reading about what's happening on campus through *The University Magazine*. I started reading the Fall 2013 issue, and stopped at Page 2. What caught my eye was the Development Office's ad.

I read the numbers on giving and I was like, "Really? That's all?" Honestly, I was amazed that only 6,781 alumni out of over 111,000 give annually—6 percent. Then I go on to read they encourage even small donations, like \$5, and it was déjà vu for me. I did not go to RIT, but to a small liberal arts college, and this was something I also would tell my classmates when I was doing giving 30-ish years ago.

Everyone thinks that they have to make a huge gift to make a difference, and that's not true. Every dollar counts. If every one of those 104,000 left gave just \$5, that's another half a million in RIT's coffers. More scholarship money. More campus enhancements. More visiting professors. More abroad opportunities. And more than that, the numbers that give to a university impact corporate giving to the university.

Corporations and foundations that are looking at investing in higher education really do want to know that the alumni support their school. So whether you give \$5; \$5,000; or \$5,000,000, just the fact that you gave is important.

Ann Ruhman, parent to Geoffrey Webster '15

Possibilities endless for math majors

Wonderful to see the article about math education.

One thing you failed to point out in the sidebar is the other paths math majors pursue. As anyone who studies math realizes, the skills of "math majors" permeate practically (and depending upon whom you query) every walk of life.

I continued on into medicine, specifically the sub-specialty of neonatal critical care. This field blends the liberal arts and mathematical arts perfectly. And with electronic medical records overtaking the medical society, a mathematically trained, logically minded individual has a tremendous advantage. And that doesn't even include the need to be facile with numbers, equations and the pure act of decision making ... call it a different branch of game theory.

So please let the math majors know that the possibilities are endless. Math is the basis for life.

Dr. Joseph A. Vitterito II '86 (applied mathematics)

We welcome letters on subjects covered in the magazine and of broad interest to our readers. We edit for space, clarity and style. Send email to umagwww@rit.edu or write to *The University Magazine*, University News Services, Rochester Institute of Technology, 132 Lomb Memorial Drive—Brown Hall, Rochester, NY 14623.

Expert Advice

with Terri Standish-Kuon '88



Terri Standish-Kuon '88 (professional and technical communication) is a public affairs strategist, higher education advocate, nonprofit executive, entrepreneurship researcher and educator. She serves as vice president, communications and administration, for the Albany, N.Y.-based Commission on Independent Colleges and Universities. She has a Ph.D. in management from Rensselaer Polytechnic Institute.

Six ways to be a better communicator

Like a tune-up for your car, or an annual physical, it's good to pause every so often for a check-up of your communication habits. Communication is all about exchanging information and building relationships. It's so natural to us as humans, we often do not take time to think about how and why we communicate, and how we could do so in more effective ways. Whether you are an entrepreneur hunting for capital for a new venture, or a parent working on homework with a child, or a new employee sharing ideas with office colleagues, these six tips should help you communicate more effectively.

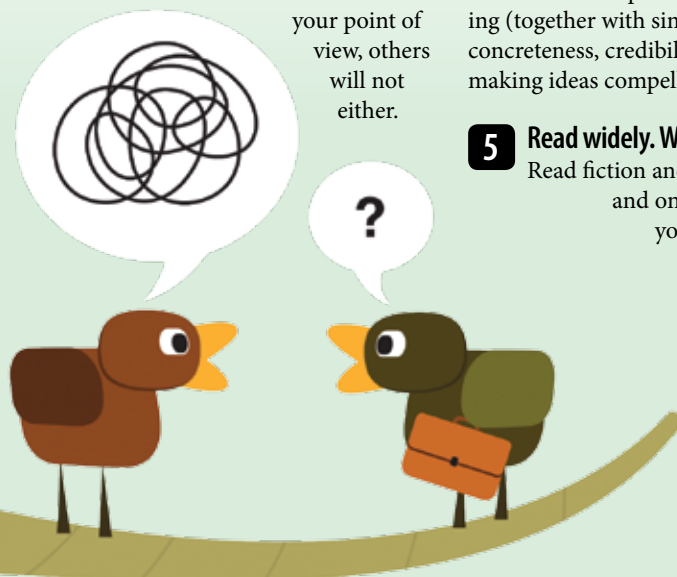
1 Remember to listen.

As I set out to write these tips, I reached out to fellow communication program alumni for their input. I asked what they wanted to be reminded about, and what communication ills they hoped to avoid. You will see their advice sprinkled in below.

I asked this community of the Department of Communication's early alumni because listening matters. Ask yourself about your audience. What is their frame of reference? Age, gender and culture—among a host of other factors—influence how someone will understand and interpret what you are trying to communicate. Knowing whom you want to reach will help you decide what and how you need to say, write or do.

2 Know what you want to communicate.

Be clear in your own mind. Think about what you want to share or convey so your thoughts are organized and coherent. If you do not understand your point of view, others will not either.



3 Decide how you want to communicate.

Communication takes many forms: non-verbal expressions and body language, formal or informal writing, the spoken word, and even pictures, charts or other graphic depictions (think “USA Today Snapshots” and the burgeoning number of infographics).

You may have heard Canadian scholar H. Marshall McLuhan's admonition that “The medium is the message.” It is a helpful reminder that how you choose to deliver a message will affect how that message is understood.

4 Tell a story.

One of my favorite bits of advice came from a colleague who was a magazine editor. No child, he recounted, ever crawled up onto a lap and said, “Read me an article.” Instead, we all know that familiar refrain, “Tell me a story.” *Made to Stick* authors Chip and Dan Heath fill the 300+ pages of their 2008 best-seller with examples of the power of storytelling (together with simplicity, unexpectedness, concreteness, credibility and emotions) in making ideas compelling and memorable.

5 Read widely. Write well. Speak directly.

Read fiction and non-fiction, in print and online. You will learn and you will come in contact with a wider vocabulary. Using the right word is powerful, so actively seek to grow the number of words you know. (Word geeks like me will tell you, a dictionary app on your phone or

Apple's Word of the Day screensaver are painless ways to find new words.)

In the age of 140 characters and SMS or “txt” English, I still have Strunk and White's *Elements of Style* and Zinsser's *On Writing Well* within arm's reach of my office computer. Filled with worthwhile reminders, these classics are just two resources. Alternatively, try the “Grammar Girl Quick and Dirty Tips for Better Writing” podcasts for helpful hints. You may recall others. For example, Josh Weinberg '89 (PTC) quickly replied to my post with this tip: “Get rid of jargon. Spell out acronyms on first use. Assume the audience knows nothing about the subject you are communicating about—even if they are supposed to be in that industry.”

In one-on-one conversations and while giving speeches, be aware of your body language and strive for meaningful eye contact. Remember the power of your voice; use your full range to match the situation.

6 Proofread. Prune. Ask for feedback.

Hear what you say. Read what you write. Review what you are about to post. If you can communicate more directly, with less clutter, do it. What's more, “remember the noise, that between sender and receiver. Always take into account the noise,” cautions Kerry Levison Johnson '91 (PTC). So-called “noise” is all the things that “change, distort and affect the intended message.”

Above all, remember that we communicate to share our perspective, and to foster our connections with others. As Ray Vallese '89 (PTC) points out, “Have fun with it. If you are too tense and too determined to rattle off your message no matter what, that's how you'll come off. Relax, take your time, and interact like a person, not a machine.”

NOTEBOOK



New alumni president

Ricardo Venegas '92

(finance) was installed as the 52nd Alumni Association Board President in July.

His focus for the board during his two-year term will be on getting students to view themselves as alumni before they graduate to ensure that they maintain a relationship with the university after completing their studies. For more about Venegas, go to <http://bit.ly/16Zcg4U> or scan.



Zagreb campus moves

Students at RIT's American College of Management and Technology campus in Zagreb, Croatia, are enjoying a new home this academic year.

ACMT opened 13,000 square feet of new space as part of a new commercial and residential development in Novi (New) Zagreb, an expanding area in the capital city. The Zagreb campus first opened in 2011 in space rented from Croatian Catholic University.



Photo by Mark Benjamin

A ribbon-cutting ceremony for Sebastian and Lenore Rosica Hall was held during Brick City Homecoming & Family Weekend.

Rosica Hall celebrates innovation and research

There's more than brick and glass to Sebastian and Lenore Rosica Hall, the newest structure on the RIT campus. The \$8 million, two-story, 23,000-square-foot building is devoted to innovation and research for students, faculty and staff of the National Technical Institute for the Deaf and RIT.

The design of the building was done with the intention to make it deaf-friendly, incorporating a maximum use of natural light, open line-of-sight paths, safety features such as strobe lights, and minimizing vibrations from the building's air conditioning and heating units.

"Rosica Hall is basically a sandbox where center-based research can take place," says NTID President Gerry Buckley. "It will be the hub for important work that

will benefit generations of deaf and hard-of-hearing people."

Some space has intentionally not been filled yet to make room for future research projects. But research centers and labs already active in the building include:

- DeafTEC, formed in 2011 with a National Science Foundation grant to create a National Center of Excellence as a resource for schools around the country that educate students in science, technology, engineering and math.
- The Research Center for Teaching and Learning, where diverse teams of faculty and students conduct research that will improve deaf education, expose students to research practice and prepare a future generation of RIT/NTID educational research-

ers and scholars.

- Research on Employment and Adapting to Change Center for Studies on Career Success, which studies employment and career success for deaf and hard-of-hearing people.
- The Deaf Studies Laboratory, which studies the cognitive, language and psychosocial aspects of the deaf experience and provides structured mentoring experiences for future deaf scientists.

The second floor of the building houses the Imaginarium, where faculty and students will gather to develop creative and innovative ideas. A meditation garden is on the first floor with native plants that provide a common area where people can sit and think in peace.

Greg Livadas

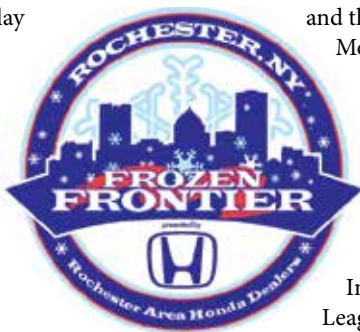
Tigers to play hockey games outside

The RIT men's and women's hockey teams will play outdoor games at Rochester's Frontier Field as part of a doubleheader on Dec. 14.

The women will play Clarkson University at 12:05 p.m., while the men will play Niagara University at 7:05 p.m. Tickets for the men's game are \$25, \$15 and \$10. The women's tickets will be \$10 general admission.

The RIT games will be part of a 10-day festival from Dec. 13 to Dec. 22, serving as a celebration of hockey played outdoors in downtown Rochester.

The festival begins with a regular season American Hockey League game at Frontier Field between the Rochester Americans and the Lake Erie Monsters.



As part of the event at Frontier Field, which is home to Triple-A baseball's Rochester Red Wings of the International League, the downtown ballpark will also

host several Section V high school hockey games, an alumni game featuring former players from the Amerks and Buffalo Sabres and

community events.

"We are absolutely thrilled to be part of this wonderful community event," says RIT Executive Director of Athletics Lou Spiotti. "I speak for all of our coaches and student-athletes when I say that RIT is proud to provide quality collegiate hockey to our fans, alumni and the Rochester community."

This season is the 46th and final season for the Tigers at Ritter Arena.

The teams will move into the 4,500-seat Gene Polisseni Center in time for the 2014-15 season.

To learn more about the arena, go to rit.edu/powerplay. To learn more about Frozen Frontier, go to www.frozenfrontier2013.com.

NOTEBOOK

Tops for quality

RIT is recognized in several categories for educational quality and value in the 2014 edition of *U.S. News & World Report Best Colleges*.

RIT ranked seventh in the "Best Regional Universities (North)" category. RIT also received the second highest peer assessment score, which is a survey of presidents, provosts and deans from other universities judging a school's academic excellence.

Hall of fame

The dean of Saunders College of Business, dt ogilvie, has been inducted into The PhD Project Hall of Fame. The PhD Project, an award-winning program to increase diversity in management, established the Hall of Fame in 2011.

Best value

RIT ranks among the country's best values in private colleges, according to *Kiplinger's Personal Finance*. Kiplinger's annual list ranks 100 private universities and 100 liberal arts colleges.

RIT ranked 67th on the list of private universities.

The full list is available online at www.kiplinger.com/links/college.

phi-lan-thro-py: Tigers who give to RIT. Every year.

Did you know that only 6,781 RIT alumni—out of more than 111,000—are donors? That's around 6%. A year! The nationwide average is 16% among higher education private institutions.

Tigers...your alma mater needs you. Your gift—even \$5—is more than a source of support for RIT. It's a vote of confidence in the university and in your own degree. Show that you believe in RIT. Make a gift today!

rit.edu/makeagift

Make it happen . . . together as one

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About Students



Fashion Week features RIT jewelers



Photo by A. Sue Weisler

Students Senam Akorli, left, and Sarah Fairbank made jewelry for Fashion Week of Rochester.

Ten graduate and senior metalcrafts and jewelry design students created pieces that were featured at Fashion Week of Rochester in October.

Organizers approached Len Urso, a professor in the School for American Crafts, about getting students involved for the first time this year. Urso saw it as an opportunity to help students who have an interest in designing fashion and apparel make connections.

"I consider several of these talented students to be emerging, cutting-edge professionals in jewelry and fashion design," he says.

Fashion Week is a five-day event featuring Rochester-based retailers, boutiques, salons, musicians and other artists in runway shows and other fashion-related events.

RIT students displayed their work in an upscale VIP showroom, where they were able to design and plan the layout of the space.

The students also watched their jewelry go down the runway at a show emceed by Tommy Lee of the band Mötley Crüe. Two students, Sarah Fairbank and Senam Akorli, also modeled some of the jewelry they created.

Fairbank is a fourth-year jewelry design student who makes pieces that stand out by incorporating elements such as fur and feathers into her work. One of the pieces she designed for Fashion Week is an artistic take on a pair of wings that developed out of a free form sketch she did last year. "I'm not afraid to make something louder or more intense than what I originally had in mind," she says.

Fairbank is also a professional model in New York City, often spending weekends and school breaks there to work. She has modeled for designers such as Angela Friedman, Dareen Hakim and Muehleder.

Akorli is a Ghana native and second-

BY THE NUMBERS

CAMPUS SNACKING

10,826

Cookies sold at Artesano Bakery & Café in the Student Alumni Union last year.

26,772

Cups of coffee poured last year at Beans, which is near the residence halls.

More than 1,800 participants raised about \$13,200 at Mud Tug, the tug-of-war tournament on Sept. 28. Zeta Tau Alpha sorority and Phi Kappa Psi fraternity host the event each fall to raise money for Hillside Family of Agencies.



Photo by David Beyerlein

Serenading the crowd

year graduate student in the jewelry design program. Her work for Fashion Week showed traditional aspects of her culture while also employing copper, brass, feathers and precious stones. Akorli says she likes her pieces to make people think.

“I give names to each of my pieces to give them a more symbolic meaning,” she says.

Prior to RIT, Akorli was a finalist in the Miss Ghana competition in 2008. While in Ghana, she worked for a modeling company. Fashion Week was her first modeling debut in America.

“The benefit to our students is clearly allowing them to perform in front of a live and sophisticated fashion audience,” Urso says. “Organization, communication, display, time effectiveness and all those fundamental skill sets required with these experiences put students to a real test.”

Krista Bellardo '14



Photo by A. Sue Weisler

RIT was part of more than 20 performances and exhibits at the second annual First Niagara Rochester Fringe Festival. The Ukulele Club performs above during the 10-day festival.

4,656

Gallons of ice cream scooped at Gracie's dining hall last year.

5,868

Breakfast sandwiches served last year at The College Grind on the east side of campus.

1,758

Pounds of Jelly Belly jelly beans sold last year at Bytes in the Student Alumni Union.



Download The University Magazine app to see a video.

A Jaisha Jackson, a fifth-grader at Rochester Prep, learns multiplication tables. RIT is partnering with the charter management organization Uncommon Schools to develop a charter high school.

B Sixth-grader Joshua Moorer raises his hand during class. Rochester Prep schools currently have about 1,000 students in grades kindergarten through 8.

C The new charter high school will be for students who are already enrolled in Uncommon's four Rochester Prep schools, such as fifth-grader Davin Stevens.

D Discipline is a focus of the curriculum at all Rochester Prep schools. This includes wearing uniforms and walking in lines between classes.



Photos by A. Sue Weisler

Giving Rochester students a head start

RIT, Uncommon Schools develop charter high school



Fifth-grader Taylor Lenear practices her SLANT. When Rochester Prep teachers ask students to SLANT, they Sit up, Listen, Ask and Answer, Nod and Track.



College reminders are in every corner of Rochester Prep schools. A goal of the new partnership is for students to not only attend college but to complete college.



Photos by A. Sue Weisler

Ronald Zarrella, an RIT trustee, is funding RIT's contributions to the partnership. Zarrella for years has been involved in programs that promote STEM education.

The days in which universities can sit idly by and hope that the country's urban school problems solve themselves are over, says RIT President Bill Destler.

That's why RIT is partnering with Uncommon Schools, an award-winning charter school manager, to develop a charter high school in Rochester next year.

"The goal of this program is not just to encourage more students to pursue a college-ready high school education and graduate from high school," Destler says. "Our ultimate goal is to graduate these kids from four-year colleges."

The school will open next fall with a 60-student ninth-grade class, growing by 2018 to about 500 students in grades 9 through 12. The location of the school has not yet been determined. Charter schools are publicly funded so students do not pay tuition to attend, but the schools operate independently from local school boards.

The high school will be the fifth Rochester school operated by Uncommon Schools, which currently manages 38 schools in five cities. It will serve students already enrolled in Uncommon's four Rochester Prep schools, which have about 1,000 students in grades kindergarten through 8.

While the high school curriculum will focus on the fundamentals for college success, the partnership will provide students additional exposure to courses and careers in the STEM fields of science, technology, engineering and mathematics.

The students will have access to the university's classrooms, laboratories and

facilities. RIT students could serve as tutors and mentors and faculty would be encouraged to advise charter school staff on the latest developments in their fields.

"It's a bit of an unusual partnership," Destler says. "RIT does not have a school of education so this isn't a lab school for students to study to become teachers."

The partnership was made possible by a donation from longtime RIT trustee Ronald L. Zarrella, who is funding RIT's contributions to the partnership.

Zarrella, former chairman and CEO of Bausch & Lomb, has been involved in programs that promote STEM education, including serving on the national board of FIRST Robotics for 15 years and as a co-founder of Finger Lakes FIRST Robotics.

Zarrella says he had been talking with Destler about starting a charter STEM high school with RIT for several years. After visiting other successful charter schools around the country, he learned the importance of getting involved with an accomplished charter school operator.

Uncommon Schools has been recognized as one of the top charter school management organizations in the nation, recently receiving the Broad Prize for Public Charter Schools. More than 78 percent of its students are low income and 98 percent are African-American or Hispanic. Across Rochester Prep schools, 84 percent of students were eligible for free and reduced price lunch in 2012-2013, the latest figures available.

Josh Phillips, managing director of Uncommon Rochester, says that when RIT

approached Uncommon officials about collaborating on the creation of a high school, they knew it was a perfect match.

"Rochester Prep has made a commitment to hundreds of families to get our students to and through college," Phillips says. "This partnership, which gives our students early access to college, helps us make good on that promise."

Destler says the university will continue its commitment to affiliations already established with the Rochester City School District, including its Rochester City Scholars scholarships and Middle College readiness skills programs.

Although it's rare for universities to collaborate or establish charter schools, there are other models. The Preuss School UCSD, on the University of California, San Diego campus, is a charter middle and high school for low-income, highly motivated students who strive to be the first in their families to graduate from college, says Principal Scott Barton.

The school opened in 1999 and at least 90 percent of each graduating class has been consistently accepted to four-year colleges and universities. The class of 2013 was the first to have a 100 percent acceptance rate.

Rochester Prep parent Mia Marbury likes that the new high school will emphasize not only college readiness but also college completion. "They'll get to interact with college students and experience college life," she says. "It will give them the sense that they can graduate from college."

Mindy Mozer



Mustafa Abushagur shared his lifetime of advocating for Libya at the 2013 TED Global conference in Edinburgh, Scotland, June 10-14. TED is a nonprofit organization that hosts international leaders for talks about “Ideas Worth Spreading.” Presenters are asked to give “the talk of a lifetime in 18 minutes.”

INFLUENCING A CHANGING WORLD

Engineering professor takes his place on the world stage reshaping Libya's future

Mustafa Abushagur was just a young man when he left his country and his family in the late 1970s, dissatisfied with the direction Libya was taking.

Libyan dictator Moammar Gadhafi was attempting to control citizens within the country by imprisonment and public hangings—and outside the country through a campaign to assassinate Libyan dissidents living abroad.

More than 30 years would pass before Abushagur could return. In that time, the professor of electrical engineering in RIT's Kate Gleason College of Engineering and former president of RIT Dubai saw personal, academic and business successes.

He would use lessons from those successes to become part of his country's history as its first elected prime minister. Although he'd be prime minister for only a short time, Abushagur made an impact and continues to help reshape Libya's future.

Wherever he's been in his distinguished career, Abushagur has found a way to build what had not been there before—programs, colleges, a sense of community—and now, a new foundation for his homeland.

Difficult decisions

Throughout high school and into college in the early 1970s, Abushagur watched Libya become more restricted.

Libya was a monarchy until Gadhafi deposed King Idris in 1969. Gadhafi's controlling grip tightened around the country almost immediately, and a military presence soon became as prominent as the Greco-Roman ruins across the countryside. In a public speech shortly after taking power, Gadhafi stated that Libya needed national unity free of party activities, and that those engaged in these activities were committing treason.

Opposition groups formed, several on university campuses, and Abushagur became involved while he attended the University of Tripoli. He joined the National Front for the Salvation of Libya and participated in public protests challenging the government's policies, and he opposed a dictator who favored a privileged few, he says.

Abushagur graduated from the university in 1974 with a degree in electrical engineering, and the following year he enrolled at California Institute of Technology to pursue a master's degree and doctorate.



Officials in 2008 sign the agreement to establish RIT Dubai. From left, Mustafa Abushagur; the late Mike Morley, former chairman of the RIT Board of Trustees; His Highness Sheikh Nahayan bin Mubarak al Nahayan, minister for higher education and scientific research; His Highness Sheikh Ahmed bin Saeed Al Maktoum, chairman of Dubai Silicon Oasis Authority; Bill Destler, RIT president; Mohammed Al Zarooni, vice chairman and CEO of Dubai Silicon Oasis Authority.

But even though he was living in the United States, he continued participating in the opposition group. In 1981, his name was placed on Libya's most wanted list for his activities.

Under torture, many individuals confessed to crimes against the government that they did not commit, and Abushagur's name was mentioned in some of these confessions.

"My best friend ever, we went to school together from fifth grade to college, was tortured and killed in prison," he says. "And the problem was, those that were in the government, they were my colleagues, my classmates in high school."

The confessions brought problems for Abushagur and his family. Authorities questioned them and confiscated their passports. Abushagur was torn between supporting the opposition and worrying about family members who remained in Libya.

Abushagur had returned to Libya between terms at Caltech, once in 1977 to get married, and then again in 1980. During the latter visit, it would take more than a month for him to get an exit visa arranged.

It was the last time he saw the Libya of his youth.

Journey to RIT

Politics were set aside temporarily. Abushagur and his wife, Fatma, began their family. Keeping them safe would be difficult, but "at the same time, it was fundamental; we needed to stand for the rights of our people.

And my family understood that," he says.

He began teaching at the University of Rochester in 1984 and a year later joined the University of Alabama-Huntsville, where he'd spend 17 years as a professor of electrical and computer engineering and professor of optical science.

As an early innovator in micro-phonic devices and optical communications, he created one of the first optical engineering degree programs in the country and formed two optical-networking companies, Photronix and LiquidLight Inc.

This work brought him to RIT in 2002, where he established the microsystems engineering doctoral degree program. This, too, would be the first of its kind in the nation. Abushagur set the foundation for the sophisticated research in optical signal processing, nanotechnology and micro-phonic devices that continues at RIT today.

Students from around the world have come for the program—several because of Abushagur.

Abdelsalam Aboketaf is nearly the same age now as Abushagur was when he left Libya. He, too, began studies in Libya and traveled abroad for graduate school.

"I was looking for admission for master's studies in electrical engineering. I sent him an email, asking about RIT and the programs," says Aboketaf '09, '13 (electrical engineering, microsystems). "I got an immediate response from him welcoming me. He helped me get admission and picked me up

from the Rochester airport in 2007 when I first came here. Since then he has become my close friend.”

Aboketaf continued his studies, and like his friend and mentor, intends to return to Libya to be part of its rebuilding process.

About that same time, RIT began a global push to establish a satellite college in Dubai. Negotiating that would take a leader with business acumen, academic experience and an ability to connect two diverse cultures.

RIT Provost Jeremy Haefner says the international connections Abushagur developed as an engineer made RIT Dubai a reality.

“He believed this was a real opportunity, and he was aware of the role that we needed to play in setting up a program of the highest caliber, and what Dubai leaders needed to get out of this relationship as well,” Haefner says.

RIT Dubai was established in 2008, supported by its government and accredited by its Ministry of Higher Education.

Abushagur was named president and helped establish both undergraduate and graduate programs.

“He is very internationally savvy,” says Haefner. “The way he brought this relationship to RIT, he was working in a country that was not his home country, but he knew enough of the culture to be able to navigate some very tricky waters for us. And one does not get those savvy skills without having a lot of experience along the way.”

Abushagur was committed to RIT Dubai, but he also kept in touch with colleagues as a revolution was growing in Libya. Within three years of setting the foundation for RIT Dubai, he would be considering another life change.

From academia to politics

Gadhafi was overthrown in 2011. One of Abushagur’s contemporaries, Abdulrahim El-Keib, was selected to lead the transitional government, and Abushagur was asked to assume the role of deputy prime minister.

“I could not say no,” Abushagur says. “I consulted with colleagues about leaving RIT Dubai. They were very supportive. They thought this was far more important to do.”

Haefner agreed but also acknowledged some concern for his colleague’s physical safety and an unexpected mix of emotions.

“To have that clarity about what he is doing in his life, he’s a good role model for all of us, particularly our students,” says Haefner. “I think deep down, perhaps some of us harbor a bit of envy for him only in the sense that here is a patriot, here is someone who has such an extreme passion for his homeland, the mission he was on. Here’s someone

like the Founding Fathers.”

In May 2011, Abushagur returned to Libya during the revolution. The eastern part of the country was liberated first, and the National Transitional Council was formed. It also marked the return of many émigrés like Abushagur.

“When I flew to Benghazi representing Tripoli, that was the first time I had been back to Libya in 30 years—and I went back to a liberated country,” he says. “It was an overwhelming feeling. I was so happy to see it, but at the same time I was saddened because I had seen the 40 years of destruction.”

Yet, what he also saw was a country that wanted change and people who wanted to influence that change. New political parties were formed where once they were not allowed and elections took place in 2012.

The General National Congress opened voting for the new prime minister on Sept. 13. By midday, Abushagur was one of several leaders tied for the position. In a run off, he was elected by two votes.

“That was a really happy moment for me and my colleagues, too,” Aboketaf recalled as he and his classmates watched the election on Libyan television from one of the engineering college’s labs. “Everybody was excited watching him. Libya changed after this revolution specifically in the way people think freely and are open-minded.”

Abushagur’s victory was short-lived but significant.

“It was still a difficult time to form a government, and in the end, the two largest parties decided to vote me out after four weeks because I would not yield to their demands to form a government based on regional and party quotas,” he says.

“I knew the challenges, but at the same time, when I spoke prior to the election, I outlined so many things to be done, the people appreciated that. Many said, ‘Today you have lost the vote of congress, but you have gained the vote of the people.’”

Abushagur’s priorities as prime minister included strengthening the private sector, continuing political reforms, elevating the educational system and keeping citizens safe. Ironically, after he was removed as prime minister and Ali Zeidan was installed in his place, the magazine *Foreign Policy* remarked that Zeidan followed Abushagur’s example by offering a similar make-up of representatives and many of the same initiatives, “daring congress to reject a second prime minister.”

It’s been two years since the Libyan Revolution unfolded. Much remains to be settled in the country.

Abushagur and several colleagues established the Libyan Policy Institute.



Photo by A. Sue Weisler

Mustafa Abushagur visited RIT and the Kate Gleason College of Engineering this fall. Abushagur, who remains part of the RIT family on extended leave, hopes to one day establish stronger relationships between Libyan universities and universities around the world.

As its chairman, he oversees research and policy analysis about economic, social and cultural developments in the country that has an abundance of resources, including a youthful population and vast oil reserves that can be the cornerstone of a new Libya.

Abushagur lives in Libya but regularly visits the United States and Rochester for business and for family.

The youngest of his five children, Noor, is a second-year international business student in RIT’s Saunders College of Business.

He also remains a part of the RIT family on extended leave. He hopes to one day establish stronger relationships between Libyan universities and universities around the world, such as RIT.

Abushagur is setting an example of someone who left his country but never abandoned it.

“He’s a citizen of the world,” Haefner says. “And we certainly haven’t heard the end of him as a player and a builder.”

Michelle Cometa ’00

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Are two snowflakes alike?

According to Kenneth Libbrecht, a professor of physics at California Institute of Technology whose most recent research has focused on the structure of snowflakes, it is extremely unlikely that two complex snowflakes will look exactly alike.

"It's so extremely unlikely, in fact, that even if you looked at every snowflake ever made you would not find any exact duplicates," Libbrecht writes. "The number of possible ways of making a complex snowflake is staggeringly large."

Therefore, Libbrecht concludes, it's unlikely that any two complex snow crystals, out of all those made over the entire history of the planet, have ever looked completely alike.

Search for perfect snowflake ends under microscope



Michael Peres

RIT Professor Michael Peres still vividly recalls driving home a decade ago one cold, snowy night after a conversation with one of his excited students.

Emily Marshall, a student in his biomedical photographic communications

program, had rushed back to campus after attending an exhibit at the Buffalo Museum of Science featuring the work of Wilson “Snowflake” Bentley. The Vermont farmer, after years of trial and error, became the first person to photograph a single snow crystal in 1885.

“Emily wondered if we could somehow carry on Bentley’s work and approached me about us taking similar pictures here at RIT,” recalls Peres, associate chair of the School of Photographic Arts and Sciences and former chair of the biomedical photographic communications program. “I said we didn’t have the right equipment. Here I was telling one of my excited students what could not be done and I felt terrible.”

But after thinking more about it, Peres decided to give it a try.

In the 10 years since that drive home, Peres, fellow RIT professor Ted Kinsman and an eager band of photography students such as Marshall ’04 have been seen scurrying around campus—or outside the garage of Peres’ Brighton, N.Y., home, where he has created a “microclimate” ideal for snowflake catching.

They carry pieces of black velvet draped over trays, desperately looking to delicately snatch the perfect snowflake to photograph under a microscope within scant seconds.

The images of these dazzling snowflakes have not gone unnoticed. Last winter, the director of photography at The Weather Channel came across Peres’ photos on Facebook and worked with the RIT professor to post them for enjoyment worldwide.

“I was really intrigued by the process he uses to make them and I thought our website visitors would be, too,” says Robert Johnson ’94 (photo illustration). “I am always searching the Web looking for photographic ways for our visitors—and what we call ‘weather enthusiasts’—to engage in our content. These scientific and beautifully intricate photos were both stunning and unique.”

Peres says enthusiasm is imperative for finding “scope worthy” snowflakes because

the process can be maddening. “But it’s so much fun at the same time.”

While taking pictures of snowflakes is anything but an exact science—there are tons of variables such as temperature, wind conditions and condensation of the flake—he has developed some relatively basic approaches using common equipment and practical approaches.

Photographing snowflakes can usually be accomplished best at temperatures well below freezing. “I’ve had my best experiences between 16 and 20 degrees,” he says. “That means you’re going to be bone-chilling cold.”

Peres says black velvet is ideal for enabling easy identification of the best flakes and it also provides easy lifting of snow crystals. Demonstrating the meticulous nature of the work, he often uses a sewing needle taped to the end of a pencil to elevate flakes for closer inspection.

Using the needle, he carefully lifts the ice crystal and transfers it to a glass slide. Snowflakes come in many sizes. Peres says using a simple microscope can achieve just the right magnification.

And while there are no easy ways to connect a compact digital camera to a microscope, the RIT professor says it’s possible to make microphotographs using a cell phone or digital camera.

“Whatever you use, be sure to trigger the camera using a self-timer,” Peres says with a big smile. “When you’re cold, you’ll absolutely introduce shake into the image.”

Peres often uses a fiber-optic light to supplement the microscope’s built-in illumination, creating images with fascinating internal reflections.

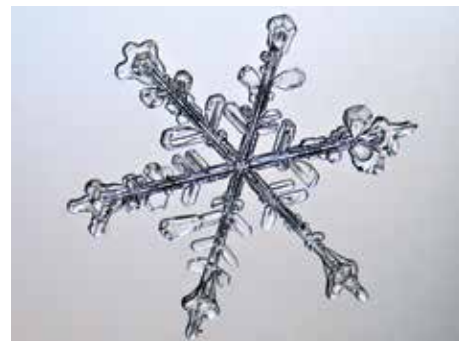
“Last year I took a photo of one I like to call ‘the epic flake,’” he says. “Perfectly symmetrical in every way. My best ever.”

Patience is also a key ingredient. The ideal flakes were slow coming in the early years, Peres says, but now he averages 15 great shots a winter.

For her part, Marshall is thrilled that the tradition she helped start a decade ago continues with zeal today.

“I love winter and snow and have always had an affinity for snowflakes,” says Marshall, who turned her love for the season into a business by starting a boutique winter-hat company in Aspen, Colo. “Seeing the first snowflake photomicrographs at the Bentley exhibit—and then later under my own microscope—is an experience I will never forget.”

Rich Kiley





Download The University Magazine app to see a video of Figer's research.



Don Figer established the Center for Detectors as an academic research center within the College of Science in 2010. The center has received more than \$11 million in funding.

Shedding light on Earth-like planets

RIT advances imaging detector technologies

The road trip to Boston took months to plan.

By September, the scientists and engineers at RIT's Center for Detectors were ready. They loaded equipment worth nearly a million dollars into the back of a rented truck and left for Massachusetts General Hospital to "borrow" the particle accelerator at the Francis H. Burr Proton Therapy Center.

During the week, the proton beam channels energy from atoms to destroy cancer cells in patients; on the weekends, the accelerator doubles as a radiation source for simulating the effects of the harsh atmosphere in space on astronomical instruments. RIT engineer Brandon Hanold had booked the facility for the weekend of Sept. 7 and 8 to irradiate and test three detectors RIT and Massachusetts Institute of Technology are developing for NASA exoplanet missions, or the hunt for Earth-like planets beyond the Milky Way Galaxy.

It's all about the photon. These elementary particles are units of light that emit radiation across the electromagnetic spectrum. Photons are like musical notes on a universal

scale that begins with radial waves and ends with gamma waves. Imaging detectors collect the notes, or packets of light, and record the radiation in signals that scientists read like sheet music to gain new understanding of astronomical objects. The pressure is on for imaging technologies that can withstand the radiation in space and collect more photons with less interference. Future space missions depend on detectors to sharpen the focus and widen the view and to record the symphony of the early universe without static.

"Light is mysterious," says Kim Kolb '08, '11 (microelectronic engineering, imaging science), a Ph.D. student in RIT's Chester F. Carlson Center for Imaging Science. "In astronomy, photons come from a star. The star tells us about our universe—how far the light traveled to get here, how far back in space we're looking, how stars form and die, how planets form. It's not that we need that information tomorrow, but it tells us about how our universe works."

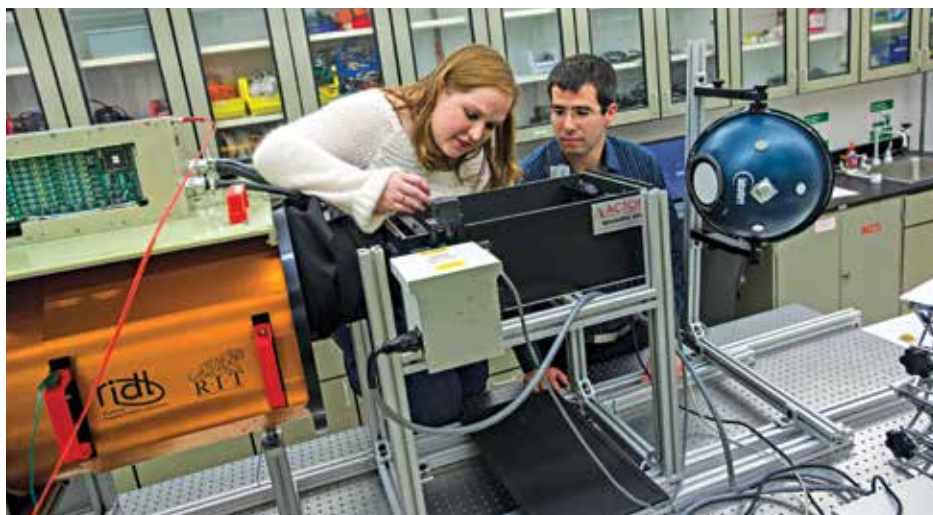
This fall, Kolb won a NASA Earth and

Space Science Fellowship in support of her doctoral research comparing and contrasting three different single-photon technologies. They promise a level of sensitivity that will pave the way for the next generation of satellites and imaging detectors to peer deeper into space than today's instruments.

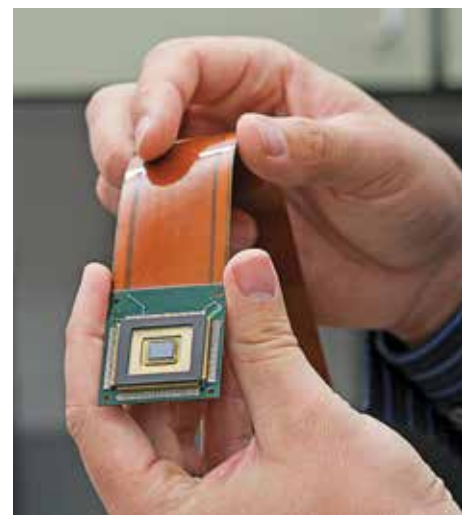
Imaging detectors are cameras that read signals in the electromagnetic spectrum. They provide a way to follow photons through the universe, to look down at Earth or deep into our bodies. The light-sensitive material at the heart of the device determines which wavelengths can be read.

The silicon detectors the RIT team tested at Massachusetts General capture light in the optical wavelength.

"Silicon has a sensitivity range very similar to the human eye, mostly in the visible spectrum," Kolb explains. "Infrared detectors can 'see' photons at lower energies than the human eye is capable of seeing because a longer wavelength equals lower energy. Going the other way on the spectrum, ultraviolet and X-ray



Kim Kolb, a Ph.D student in the Chester F. Carlson Center for Imaging Science, and Brandon Hanold, an engineer in the Center for Detectors, prepare to test one of the detectors grown on silicon wafer substrates.



Photos by A. Sue Weisler

This detector could one day quadruple the collecting power of the largest ground- and space-based telescopes.

detectors ‘see’ photons that have energies too high for our eyes to see.”

Each of the three detectors tested at Massachusetts General took a few hundred steps to make by scientists at MIT’s Lincoln Laboratory, says Don Figer, director of RIT’s Center for Detectors. His lab is one of the few in the world that specializes in testing detectors. Customized equipment and automated software that Figer spent 10 years perfecting capture the state of the intricate hardware.

The center conducted testing for the James Webb Space Telescope and is currently collaborating with Raytheon Vision Systems to assess and advance a new “family” of large-format infrared detectors grown on silicon wafer substrates.

The Gordon and Betty Moore Foundation funded the collaboration between RIT’s Center for Detectors and MIT’s Lincoln Laboratory to advance optical and infrared detector technology for the future ground-based Thirty Meter Telescope. A grant from NASA’s Exoplanet Mission program leverages the technology and requires radiation testing for possible space applications.

Characterizing the parameters of a single detector can take two to three weeks around the clock. The next step in testing detectors built for space applications requires access to a particle accelerator, such as the one at Massachusetts General.

The hallmark of the technology Hanold placed in the path of the hospital’s proton beam is its solution to “read noise,” the interference that muddies the signal as photons hit the sensor. The detector technology, known as Geiger-mode avalanche photodiodes, or GM-APDs, circumvents read noise through a digital—not analog—design that records each

photon-detection cycle with a “0” (no photon) or a “1” (photon). “Eliminating an entire source of noise is a huge deal,” Kolb says.

Imaging arrays of Geiger-mode avalanche photodiodes are a single photon detector technology that could revolutionize astronomy.

“This is the first step in making better and larger single photon detectors,” Figer says. “They are the only ones like them in the world.”

The detector with the ungainly name is comprised of two parts. One component contains the readout electronics.

“It’s almost like a computer chip that controls the voltages and signals that are delivered to the detector material,” Figer says. “It’s the circuit that also reads those pixels.”

The other part of the detector is the light-sensitive material; in this case, silicon.

“This is silicon on silicon,” Figer says. “The detector is silicon and the circuit that reads it out is silicon. And the two layers are electrically connected through indium bump bonds, tiny little dots, one per pixel.”

Before leaving for Boston, Kolb tested, characterized and calibrated the detectors and collected baseline data for post-radiation comparison. RIT engineers Hanold and Joong Lee designed a radiation-testing program compatible with the hospital’s particle accelerator.

The team secured the three detectors (in case one failed) in a vacuum-sealed container called a dewar, outfitted with a side window for maximum exposure.

Working with scientists at the Burr Proton Therapy Center, they irradiated the sensors in steps simulating up to approximately 100 years in space.

“The detectors were incrementally given 10 times the expected dose for a typical

mission lifetime of an instrument in space,” Hanold says.

Instruments in space cannot be easily repaired. They must be robust enough to function while damaged.

Kolb tested the detectors in between radiation doses and monitored the decay during the first 24 hours. She continued testing two weeks later as the radiation reached a settling point.

“The goal is to make something that’s indestructible,” Kolb says. “We’re interested in how this device architecture holds up to radiation damage.”

Testing has confirmed the “noise” she expected to see—a higher dark current, or charge created within the devices. Kolb also confirmed an increase in “afterpulsing” or internal feedback, in the photon detectors.

“The scope of the applications for the sensors we develop doesn’t end at exoplanet missions, though these specific detectors and the radiation testing I did on them is part of a grant in support of that specific goal,” Kolb says. “In biomedical imaging, for instance, we can use detectors to look into the human body. A photon can tell you where the cancer is. Being certain might be the difference of one more photon, one more bead of light.”

Detector technology advanced for scientific exploration holds societal benefits, from new methods of biomedical imaging to remote sensing applications that monitor the health of the planet or the safety of a nation.

“Center for Detectors researchers are pushing the edge of what is possible in ways that will expand future discoveries,” Figer says. “This radiation testing is another example of doing what it takes to advance technology.”

Susan Gawlowicz ’95

FOREVER A TEAM

A devastating brain injury slowed down photographer and runner Brian Nice, but he stayed in life's race and finished a new cross-country journey with support from his RIT teammates from 30 years ago.



Brian Nice, at left, was part of the team that ran across the country in 1979 to celebrate RIT's 150th anniversary. The team stopped at the U.S. Capitol and met with RIT and congressional leaders. Teammates, counterclockwise from bottom left, are Tony DeSimone, Tim Ferris, Coach Peter Todd, Rick Letarte, Nice, Mark Blesch, Don Campbell, Bob Donnelly, Al Willett, Bob Perkins, Mike Massare and Tony Machulskis (hidden).

Brian Nice was at the height of his career. For 25 years, the 1984 photography graduate had been shooting fashion for magazines such as *Elle*, *Madame Figaro* and *Cosmopolitan* and ad campaigns for L'Oreal, Oil of Olay and Givenchy.

His book of portraits depicting celebrities with their dogs was set to come out in a few months. He was living in a dream home he helped build that was steps from the ocean on the south shore of Long Island, and in his free time he was an avid surfer, wind surfer and runner.

But his fast-paced world ground to a halt on Aug. 18, 2009.

Nice was working in Manhattan on a photo shoot when he suddenly became violently ill. He was rushed to the hospital, where doctors discovered that a birth defect, a malformation on his brain stem, was causing devastating internal bleeding that quickly

robbed him of many of his basic motor skills.

Over the last four years, he's had to relearn the simplest things—how to breathe, how to swallow, how to talk.

What has helped Nice through his struggle, he says, are the friends he made—and the lessons he learned—while an RIT undergraduate. Topping that list of friends are his cross country and track teammates, some of whom he ran with in the historic 1979 coast-to-coast relay, and their coach, Peter Todd.

"When you get sick like this, you need friends to help you through it," Nice says. "I've got a good team."

The teammates say Nice—just like in college—is the giver in the relationship, the same fun-loving guy who comes up with unexpected ways to express his creativity. One of those ways involved a trip this fall inspired by RIT's 1979 relay to show that people with traumatic brain injuries can

still do what they love.

"Anyone who is a good friend of his—we all glean a lot of inner strength from him," says Don Campbell '81 (mechanical engineering). "He hasn't given up. If anything, he is making the most out of this and he is trying to do as much as he can, living life to the fullest."

B. Nice

When a new runner joined Coach Todd's cross country team, he was given a nickname, usually by an upperclassman.

Campbell was called "D. Campbell" when teammates discovered that label on his running clothes. He had transferred to RIT from Alfred State College in 1978.

A year later, freshman Nice showed up on campus for pre-season and needed a place to sleep before the dorms opened. He moved into a Rustic Village apartment with Campbell and Bob Perkins '81 (retail). Stenciled on his footlocker was "B. Nice."

"That of course became his nickname," Campbell says, adding that both were later shortened. "To this day I call him B and he calls me D."

Even though Campbell was a few years older, the future engineer and the photographer with somewhat opposite personalities became fast friends. Perkins, known as "Perk" to his teammates, says it helped that they were both handsome and attracted the attention of pretty girls on campus.

Their bond grew stronger that November when Campbell and Nice were part of a 12-man team tapped by Coach Todd to run across the country. Perkins also participated in the run, which was organized to celebrate RIT's 150th anniversary.

Only seven student cross country runners were invited to be part of the group, and Nice was the only freshman. Coach Todd, called "The General" by his runners, and four alumni made up the rest.

The men took turns running two-mile legs, one at a time, 24 hours a day, seven days a week. When they weren't running, they



Brian Nice '84 enjoys spending time at the Therapeutic Equestrian Center in Cold Spring, N.Y. The center was built and is run by Nice's sister, Leslie Nice Heanue '84, '85 (graphic design, business administration). The center offers physical, occupational and speech therapy to people with disabilities. Nice is pictured with his mother, Sandra.



Brian Nice came to RIT from Garrison, N.Y., to study photography and could often be spotted with a camera.

RIT Archive Collections

slept or drove Todd's Chrysler New Yorker and the Winnebago that followed along.

Campbell says the run was challenging and the jokerster Nice did his best to keep the group laughing. He remembers at one point in Kansas, Nice went into a ditch and threw tumbleweeds at the runner passing by in an attempt to make the barren farmland more visual for a photographer documenting the run that day.

"It was little things like that in our aches and pains and sleep deprivation that gave us levity and kept us going," Campbell says.

The coast-to-coast runners finished in 14 days, 4 hours and 8 minutes, fast enough to be listed in the *Guinness Book of World Records*.

Even without the coast-to-coast run, RIT's cross country team was a close group, a fraternity of sorts. During the season, they would run as much as 140 miles a week together, says Perkins, who has worked in the footwear business for 30 years and lives in New Jersey. If they attended all of the weekly practices, Coach Todd would buy them breakfast on Sundays.

Running for most of them was a nine-month sport—after cross country they moved to indoor track and then outdoor track. They would travel to Florida during spring break to train.

Jim "Squirrel" Pasquali '86 (computational mathematics), who joined the cross country team as a freshman when Nice was a junior, said that bond was strengthened because of their coach. During pre-season, the runners sometimes lived in Todd's house so they could focus on their training, sleeping on mattresses on the floor.

"We would run, eat, run, eat and sleep," says Pasquali, a software engineer for Xerox Litigation Services in Albany.

Nice was the spirit of the team, emotionally and in the record books. Nice is part of the group that holds the indoor sprint medley record from 1983. His time of 3:51 in the outdoor 1,500 meters was a school record for 25 years until it was broken in 2008.

World-class photographer

After graduation, the teammates went their separate ways. Nice moved to New York City, where he was told that if he wanted to be more sophisticated as a photographer, he would have to experience the world. So he headed to Australia as a freelance photographer.

There he got his first break shooting for *Cosmopolitan Australia*, which led to jobs for international editions of *Elle*. After Australia, he moved to Paris, where he made photos for *Madame Figaro* each week and continued shooting for *Elle*.

After he returned to New York in 1998, his

portfolio included work for J. Jill, Pendleton Woolen Mills and Norm Thompson catalogues.

He also made time for his own side projects. In 2008, he worked on a landscape photography project with his father, Don, who is an accomplished painter. They traveled to Greenland where they documented icebergs—Nice in photos and the senior Nice in paintings.

A year later, Nice made a book of portraits of 150 celebrities with their dogs called *Rescue Tails*. His own dog, a pug named Buster who was saved from blindness by a doctor recommended by the Humane Society of New York, inspired him. Proceeds from the book benefit the Humane Society.

Throughout it all, Nice and Campbell kept in touch. Nice visited Campbell when he lived in Boston and New Jersey and later made a point to fly through San Francisco, where Campbell had moved, on return trips from Australia. Campbell, a self-employed engineering consultant who has worked primarily in the U.S. nuclear industry since graduation, visited Nice in New York.

One of those visits was about 15 years ago. Campbell remembers walking up Broadway when Nice told him about the deformity in his brain stem.

“He said, ‘I have a birth defect and there’s not much we can do about it.’ What the doctors told him was that over time this could fail,” Campbell says. “I remember standing on a street corner in New York City when he told me and I was speechless.”

Team support

Nice hadn’t been back in Rochester since he graduated when he attended a cross country alumni dinner in 2008. Once a year, Coach Todd organizes a get-together around Thanksgiving. He sends notes with pre-addressed stamped envelopes to the runners he coached between 1965 and 1996. Todd says usually about 30 attend.

As expected, the outgoing Nice became the center of attention, entertaining the group with his travel stories, but not in a bragging way, says Mark “Hoser” Kulzer ’85 (mechanical engineering technology), who first met Nice when Kulzer transferred to RIT in 1982. “I hadn’t seen him in more than 20 years,” he says. “It took 10 minutes and it was like old times.”

John “B.J.” Brennan ’85 (computer science) says Nice was one of the few at the dinner who still looked like he did in college.

Nice made sure to take it all in, running eight miles around the campus before driving home the next day.

He did his best to continue his active lifestyle despite the malformation on his



Photos by Brian Nice

Brian Nice shot these photos for Pendleton Woolen Mills with freelance art director Jeanne Arnold ’83. “He was an amazing fashion photographer and got the best out of everyone,” Arnold says.



Provided photo

From left to right, teammates Jim “Squirrel” Pasquali, John “B.J.” Brennan, Tim “Tank” O’Grady, Chris “Crisco” Roe and Coach Peter “The General” Todd visited Nice at his home in Garrison, N.Y., in June 2012.

brain stem. Nice was born with his condition, which is called a cavernous malformation in the pons area, but he didn’t know anything about it until the late 1990s.

Thinking back, even in college he remembers having periods where he had problems breathing. “I would go to run and it felt like someone was holding me back,” he says. “It was like running with a parachute on.”

But he attributed that to too much partying in college and too much work or surfing after college. When he got an MRI and learned the cause—the malformation was on the brain stem, which controls basic human functions like breathing—he didn’t change his lifestyle.

“You can walk outside and get hit by a

car,” he says. “You can’t live your life thinking something is going to happen.”

Then that August day in 2009, he was shooting the spring line for J. Jill’s fashion magazine. His vision became blurry and he began vomiting. He finished the job and was rushed to New York Presbyterian Hospital’s intensive care unit. Doctors told him if he hadn’t been so close to a hospital, he would have died.

It took three weeks to stabilize him before he had the operation to stop the brain stem from bleeding. Unlike an aneurysm, which bursts, his bleed slowly oozed.

The brain surgery was successful, but smaller surgeries and a long rehabilitation followed. Nice had to relearn everything. He



In the afternoons, Brian Nice likes to paint with his father, Don, an accomplished artist. He paints hearts, stars and circles in yellow, red and blue. "Some days my stars look like circles," Nice says, adding that it has been interesting to see his progression.

Photos by A. Sue Weisler

communicated with his left index finger, the only part of his body he could move. His father would recite the alphabet and Nice would move his finger when he got to the letter in the word he was spelling.

"Here's this guy who ran a 4:07 mile equivalent," Pasquali says. "Here's one of the best runners that I knew, and he could hardly move."

Pasquali and the other teammates visited as often as they could. Both Campbell and Perkins saw him in the hospital before the operation. After the visits, they sent email updates to as many as 60 runners. Coach Todd started sending a card a week. At the alumni dinner that November, the group made a video for Nice, with each person expressing his encouragement and sharing memories of their RIT days.

Nice exceeded all expectations during rehabilitation and progressed to the point where he could walk on his own with a walker. "He put in the same effort he used to put into his career and running and it showed," says Kulzer, who lives in Troy, N.Y., and works as an engineer for the New York State Department of Transportation.

But a year later, doctors discovered another malformation two times as big and in a more complicated spot on his brain stem.

His rehabilitation after the second surgery was slower, and progress was delayed because of a series of seizures in April 2012.

"Three times I've had to relearn everything," Nice says. "I've been through a lot."

Another coast-to-coast

Nice's mother, Sandra, grabs her son's prism glasses and slides them into place on his face. "I look like a trendy French architect," he says, working hard to enunciate so he can be understood.

Nice's vision hasn't been the same since the first operation. When he shuts his left eye, his vision goes up and down, and when he shuts his right eye, he sees side to side. "If I open both eyes, it's a party," he says with a little chuckle. The glasses help subside the dizziness.

One of his first concerns after the surgeries was whether he would be able to shoot photos again with his double vision and shaky hands. Cognitively, Nice is the same guy he has always been and he likes to be working on a project.

A friend gave him a point-and-shoot camera called a Holga. He attached it to a small tripod so he could hold it while someone else pushes the shutter release.

The photos, taken from the front porch of his childhood home or during his trips to the nearby Helen Hayes Hospital Rehabilitation Center, represent how he sees the



Photo by A. Sue Weisler



Nice works hard every day to get back what he lost. Before his cross-country trip, he practiced standing using a lift, with help from his mother Sandra, and worked out on his own on a recumbent cross trainer. His efforts were recognized with an award from Helen Hayes Hospital for his hard work during rehabilitation there.



Photo by Brian Nice

Brian Nice now uses his photography to show people how he sees the world. This photo was shot in South Carolina on his coast-to-coast trip in October.

world. How does he make them blurry?

"It is very technical," he says. "I can't stop shaking."

Last fall, 60 of his photos were in a show called "A Point of View" at the Garrison Art Center.

This fall, Nice recreated the 1979 coast-to-coast run in reverse, traveling 7,000 miles round trip from his home in Garrison, N.Y., to Santa Monica, Calif. Instead of running, Nice photographed the American landscape to show that people with traumatic brain injuries can still do what they love.

He hopes to create a coffee table book, a gallery exhibition of his landscape photos and a documentary about the trip.

Jeanne Arnold '83 (communication arts), a freelance art director who Nice first met in college and then later worked with on catalogue shoots, was in charge of the fundraising. They raised almost \$50,000 through an online fundraising site.

His mother was his primary caretaker and personal assistant on the trip, just like she is at home. Five friends also went along to film it, blog and drive.

Campbell met Nice in Hermosa Beach, Calif., and again in Palm Springs. He says the trip brought back good memories of their first cross-country venture and he was happy he could support his friend. Campbell even dressed in some old track clothing and ran across the dessert while Nice photographed him—just like in 1979.

For Nice, the trip was just as challenging as the first one. Although this time, the challenge was sitting for long periods in the van, which he nicknamed The Beast, and maintaining his energy levels. But it also reminded him of one of the happiest times in his life.

Nice has a lot of time to think about his past, about the friends who have stood by



Provided photo

Teammates Don Campbell, right, and Brian Nice met in Palm Springs, Calif., in mid-October during Nice's trip across the country. The trip brought back good memories for both men of their first coast-to-coast adventure in 1979.

him, about living with his supportive parents at the age of 52 in his childhood home, using a wheelchair for mobility for now.

"I have to listen to my dad's jokes," he quips. "He's happy he has a captive audience."

He longs to do something simple, like jump in the car and go get coffee on his own—the little things people take for granted. But he isn't bitter or sad. He has met other traumatic brain injury patients who don't have a support system.

He has five photo albums full of letters and cards from the past four years from his friends. Coach Todd continues to send a card a week. The teammates visit at least once a year, usually in groups and sometimes before

catching a men's hockey game at nearby West Point. They even drove their former coach five hours to see him.

Just like when they were in college, the runners are family, always pushing each other to be better. Getting better, Nice says, is his next challenge.

"I believe everything I have done has gotten me ready for this moment. The running taught me discipline and endurance. Photography taught me focus," he says. "I learned how to survive from Coach Todd because he expected you to be tough. It all prepared me for what I'm going through. And I'm getting better every day."

Mindy Mozer

A



B



C



D



E



F



G





Download The University Magazine app to see a video of the weekend.

Brick City 2013

A The Brick City 5K Fun Run and Walk took more than 450 participants, including fourth-year interior design students Caili Nizamis, left, and Alexandra Nagle, right, and Nagle's dad, Gregory, on a lap around campus.

Photo: Ken Huth

B Comedians Colin Mochrie and Brad Sherwood from the show *Whose Line Is It Anyway?* entertained the crowd with help from RIT student Samantha Huselstein. "I definitely wasn't expecting to get pulled up on stage. It was a lot of fun and I couldn't stop laughing," says Huselstein, a third-year mechanical engineering student. Photo: Dan Wang

C Ezio DiCristofaro '52 (printing) and his wife, Lena, took a tour of campus before the Golden Circle luncheon. The luncheon is for alumni who graduated 50 or more years ago. "I had a lot of fun during my time here but I am a little jealous that today's students get so much more than I did," DiCristofaro says.

Photo: Ken Huth

D Horton Distinguished Speakers astronaut Mark Kelly and former U.S. Rep. Gabrielle Giffords spoke about goals, perseverance and managing difficult situations. "Bad stuff happens to good people," Kelly says. "You just have to make the best of it." Photo: A. Sue Weisler

E Daymond John, an investor on ABC's reality television show *Shark Tank*, talked about branding to a full house. "I want to start my own business and I was so inspired by his talk," says Kaitleen Crowe, a fourth-year Saunders College of Business student.

Photo: A. Sue Weisler

F The Presidents' Alumni Ball was a highlight of the weekend. The event included dancing, Vegas-style games and live music in RIT's Gordon Field House. Photo: Ken Huth

G Sean Forbes '08 (multidisciplinary studies) performed his unique brand of hip-hop/sign language music. The event was part of NTID's 45th anniversary celebration. Photo: Kevin Keane

H A sell-out crowd of 10,556 cheered on the men's hockey team at Blue Cross Arena in downtown Rochester. The University of Michigan beat RIT 7-4 but the Tigers made Michigan work for the victory, scoring four goals to tie the game in the second period.

Photo: Josh Barber/RIT SportsZone

"It is mindboggling to see the campus. It makes you feel very proud RIT has expanded."

Jane Pfromer '59
(business administration)

"We're just really happy for all the kids who go here. They have four to five years of a wonderful experience."

Jon Roberts '70
(imaging science)

"The campus looks beautiful. It changes every year."

Bonnie Brennan Murphy '91
(business and marketing)

"(The Horton speech) was very inspiring. It definitely makes you feel like your own struggles and tribulations are minimal."

Myles Glickman '11
(applied networking and systems administration)

"My impression is that the students at RIT are happy. The learning atmosphere is innovative, collaborative and fun. I can feel the positive energy on campus."

Parent Andrea Allen, whose son is a first-year computer science major

"It was really exciting. It's not every day you get to meet an astronaut."

Jessica Kramer, fourth-year business management student

Education

- BS in architectural engineering from Pennsylvania State University
- Ph.D. in civil, environmental and architectural engineering from the University of Colorado at Boulder

Work experience before RIT

- Assistant professor, Department of Civil and Mechanical Engineering, United States Military Academy, West Point, N.Y.
- Assistant professor of architectural engineering, University of Wyoming-Laramie

Research

In 2008, Bailey and her team began studying the RIT faculty as part of an NSF ADVANCE IT-Catalyst funded self-study. They found:

- RIT had only 23 percent of its female tenured and tenure-track faculty in STEM (science, technology, engineering and mathematics) disciplines, below the 30 percent average represented in U.S. colleges and universities;
- Gender-based, average salary gaps existed at each faculty rank, and women left the faculty ranks at a rate nearly twice that of their male colleagues.

That led to the \$3.2 million NSF ADVANCE Institutional Transformation grant with the following goals for RIT:

- 30 percent female applicants for STEM and social and behavioral sciences (SBS) faculty positions;
- At least 75 percent of STEM/SBS departments achieving a critical mass of female faculty;
- Retention rates for female faculty that closely mirror those of male faculty.

Margaret Bailey

Margaret Bailey is the principal investigator of a \$3.2 million grant from the National Science Foundation ADVANCE program for a project intended to increase representation and advancement of women in academic science, technology, engineering and mathematics at RIT. The professor of mechanical engineering in the Kate Gleason College of Engineering also is the founding member of the women in engineering program, WE@RIT. Bailey came to RIT after teaching at the U.S. Military Academy, West Point. Here, she talks about her background, her interest in gender equity issues and her research.

I loved listening to Mike Brady on the Brady Bunch talk about architecture. I just thought that was the coolest thing. I had a friend who was a few years older than me who had gone to Penn State and majored in architecture. He came back over a summer and he told me to consider majoring in architectural engineering rather than architecture. It sounded like a good match.

In architectural engineering at Penn State, they only admitted about 90 students a year. Out of the 90, maybe there were seven women. I didn't see myself in my faculty. I think I had over my five years less than a handful of women. Never were there ever any women in engineering, or physics, or math. It didn't make sense.

I worked as a facilities engineer for about five years before I decided I really wanted to go back and get my Ph.D. I started off at Penn State. My old program had started a Ph.D. program and I would have been the first student to get a Ph.D. in that program.

My husband and I wanted to start a family so I got pregnant. Being a female engineering Ph.D. student, the first Ph.D. student in a program, and then you are female and pregnant put a strain on the relationship I had with my adviser. Ph.D. students and babies—we are getting better at it now but 15, 20 years ago it was rough.

I spent a lot of time doing research on what other programs were doing and I found the University of Colorado at Boulder. I finished up grad school there. There were many grad students who had families. There were women.

One of the guys I went to CU-Boulder with, he was going back for his Ph.D. in my same program with the thought he would go to West Point and teach. A position opened up at West Point in mechanical (engineering) and the daily phone calls started from him trying to get me to apply. I think finally just to shut him up I applied.

For the first year it was quite an experience getting used to that sub-culture of the military. There were no other women civilians like myself in my program and in the whole academy there were probably about 10 of us.

I loved West Point and did a lot of things in those five years but there was not a clear career progression there for a civilian. I was growing frustrated with issues around women there and started thinking if I leave this position, I want to get a position where I can make a difference when it comes to gender issues in engineering and education. The Kate Gleason Endowed Chair position came open here and I decided to apply.

My focus was I would teach, do research in thermodynamics and also start looking at opportunities for gender-focused activities. In April 2004, we offered Park and Ride, an outreach experience for middle-school girls. After Park and Ride that summer we started summer camp.

Then other colleges started looking at what we were doing. Over the last 10 years, there's been more and more women in computing and science and technology who have become leaders in their own colleges around gender issues. Those women and I started working together on (grant) proposals.

So much of what I do is driven by students and remembering what it was like for me as a student. I think it's really very important for our women and our male students to have women role models in the classroom and to have a university where women want to stay and where they thrive.

We are all kind of change agents and trying to facilitate change and make it happen as effortlessly and painlessly as possible. But we all know change isn't like that. Sometimes when things are hard we have to step back and say this is good that it is hard. It means people are changing.



Margaret Bailey
holds a voltage meter
in a mechanical
engineering lab.





Saunders College of Business graduates Etida Zeka '09, '10 and Alex Butler '11 have opened a brewery in Kosovo.



Provided photos

Graduates pour their hearts into Kosovo brewery

Alex Butler '11 (MBA) and Etida Zeka '09, '10 (applied arts and sciences, MBA) are introducing American-style craft beer to Kosovo. They have opened a brewery, are bottling the beer by hand and selling it to bars in Pristina.

And it's all because their birthdays are nine days apart.

In August 2009, Zeka left her home country of Kosovo and moved to Rochester to enroll in graduate school after completing an undergraduate degree at RIT's global campus American University in Kosovo. Butler, who grew up in Rochester, had studied music at the Crane School of Music at SUNY Potsdam. He enrolled in RIT's MBA program thinking it would open more doors than a music degree alone.

Their worlds collided on the second day of new student orientation. As part of a game, students were told to line up in order of their birthdays. Butler's birthday is July 31 and Zeka's is Aug. 9.

"I thought he was cute," says Zeka.

"It was mutual," says Butler. "I had no idea where it would go but I said, 'Hello,' and we took it from there."

Butler courted Zeka by inviting her on traditional American dates, such as a haunted hayride. The relationship began with Zeka's two friends, who had come from Kosovo at the same time to get their MBAs, joining them.

"He had to date all three of us before he dated me," says Zeka. "He needed my friends' approval."

"That's true," adds Butler. "I literally had to

pay for tickets for everyone to go to all of these events."

Beer entered the relationship about a year later. Zeka had graduated and returned to Kosovo where she began teaching, and Butler was finishing his last quarter at RIT. His roommate got a home brewing kit for Christmas and Butler quickly became hooked. He continued the hobby in New York City, where he moved after graduation to work as an assistant engineer in the music industry.

"On the weekends I was brewing and getting really serious about being as authentic as possible with the process," he says.

Zeka sampled one of his full-bodied stout beers when she visited him in New York in January 2012. She had never tasted anything like it. On the plane ride home, she hatched an idea—start a brewery with American-style beer in Kosovo. She shared it with Butler and began doing research.

Zeka found a niche in the market and worked on the business plan. Butler visited six months later to make sure he would like living in Kosovo—his first time leaving the United States—and moved there in August 2012. They partnered with Zeka's brother, Genc, secured funding, registered the business, and had the equipment made in Kosovo to their design specifications. On June 1, 2013, Sabaja Craft Brewery created its first batch. By late summer, there was more demand for their beer than they could supply.

In Kosovo, pale lagers dominate the market. Sabaja Craft Brewery produces ales—an India Pale Ale and an Amber Ale.

"I didn't expect a bitter beer to take off in

Kosovo," Butler says. "But people are going wild for it. They absolutely love the IPA."

Butler and Zeka introduced the product to local bars, hauling the beer in a Volkswagen Golf. They also share the beer with guests in a tasting room at the brewery.

Part of their business plan involves educating people about home brewing, a new concept in Kosovo. They are creating a home brewing club to expand the culture of beer appreciation.

A year from now, they hope to have their beer in at least 10 bars and restaurants. In five years, their goal is to expand to a bigger brewery with a more sophisticated system.

"We don't want to get too far ahead of ourselves," says Butler. "We have a lot to accomplish in the next few months, let alone the next year. We are just going to keep working our fingers to the bone and pouring all of our hearts into this beer."

They are saving some room in their hearts for each other.

"There is a proposal in the future," Butler says. "Right now we are both so focused on the business. But something is next."

Mindy Mozer

About Sabaja

The name sabaja was suggested by a bar owner in Pristina, Kosovo. Sabaja is what the ancient Illyrians called the beer they fermented with honey. Today, it also means "dawn" in Turkish Albanian. "To us it's the dawn of new beer," Zeka says.



Clean start in new career

RIT roommates reunite to revolutionize wastewater treatment process

Terry Wright '81 (civil engineering technology) and Greg Westbrook '81 (civil engineering technology) were roommates at RIT.

Each went his own way to find successful careers but have reunited this year to start ClearCove Systems, a business they expect will change the way wastewater is treated worldwide. They say their method not only cleans wastewater more efficiently, but it also produces three times more potential energy from the byproduct of the wastewater treatment process.

"We have something revolutionary that will change the industry," says Westbrook. "We want to solve a global problem. The ideas are pretty powerful. It's not only a good way to make water cleaner, but it turns a liability like a treatment plant into an asset."

Westbrook had a 20-year career with Eastman Kodak Co., working in Kodak's corporate office running its digital capture division. He worked in Asia, became a Kodak corporate officer and left the company in 2005 to join

Flextronics, an electronics manufacturer in California's Silicon Valley, where he ran a \$4 billion division.

Wright is a multi-disciplined engineer who has been self-employed most of his career working on unique projects, such as deicing-fluid recovery at a Toronto airport, designs of an ethylene oxide sterilization facility, a \$15 million wastewater treatment plant to treat toothpaste washwater in the Catskills, a state-of-the-art rigid-plastics plant and multiple wastewater treatment plants using different types of technologies. He worked as a wastewater equipment sales engineer and developed another wastewater product that removed protozoans and phosphorous from wastewater treatment plants in New York City's watershed that resulted in saving New York City residents \$300 million.

Westbrook was working in Silicon Valley when RIT President Bill Destler, who was visiting RIT alumni there, invited Westbrook to join RIT's President's Roundtable.

"I retired in 2012, but I didn't know what I wanted to do," Westbrook says. "I knew I didn't want to be on a plane or sleep in a hotel 200 days a year."

Still friends 30 years after graduating from college, Wright asked Westbrook to help start ClearCove Systems. The two friends, along with Tim Cornelison, an expert in the wastewater treatment industry, formed the company in January and have an office in Venture Creations, RIT's business incubator.

"I like the challenge of creating a product and taking it to the market," says Wright, ClearCove's CEO. Those ideas brewed since Wright began designing treatment plants. "I wasn't willing to accept the conventional design of wastewater treatment plants because most were overly complex, expensive, inefficient and difficult to operate. I knew there was a better way to do this." He has secured three U.S. patents and one Chinese patent involving wastewater treatment processing.

Westbrook says the company has applied



Photos by A. Sue Weisler

Left: Greg Westbrook and Terry Wright were former roommates at RIT. They reunited to help form ClearCove Systems earlier this year.

Above: Westbrook, left, and VP Manager Tim Cornelison oversee the water filtration process in their prototype at the Trumansburg Wastewater Treatment Plant.

for grants but they are currently “adequately funded,” with nearly \$750,000 in personal investments from family and friends.

Westbrook is ClearCove’s COO and his enthusiasm for the company is apparent. He drove to the Ithaca area several times a week from his home in Canandaigua this summer to monitor a prototype at the Trumansburg Wastewater Treatment Plant.

The prototype, which cost more than \$100,000, sits on a large trailer, where their process was tested and samples taken and independently studied. Raw sewage coming into the plant is settled and then decanted. Instead of treating it immediately by mixing air into the sewage as is done traditionally, solids and organics are separated from the water using gravity and a 50-micron (.05 mm) screen. The settled organics and solids are removed. The remaining water is treated using up to 65 percent less energy than would be needed if it

had not been filtered.

In addition, the captured organics are used as fuel. The sludge produced in ClearCove’s process has three times more organic energy than the sludge collected in traditional wastewater treatment. Adding other organic waste to it, such as food waste, creates even higher potential for energy. That energy could be used to provide power to the treatment facility, or even converted to biogas to fuel buses or cars.

“We know we have energy inside the sewer pipe,” Westbrook says. “Today, we’re taking that potential fuel source and spending money to make it dirt. We pay to throw it away. What ClearCove is doing is exploiting the caloric content in the sewage by converting it to biogas, which in turn can be converted to compressed natural gas for use in vehicles or electrical energy for the utility grid.”

Cleaning wastewater is a \$28 billion-a-year industry in the U.S. It’s an industry the American Society of Civil Engineers has given a “D” to regarding current investment for improvements.

“One day we believe wastewater will actually be viewed as an asset, not as a liability,” Westbrook says.

ClearCove’s mission now is to spread the word and get municipalities on board with converting to their system. The retrofit conversion wouldn’t be that difficult for most plants because the existing infrastructure would still be used.

If ClearCove becomes as successful as

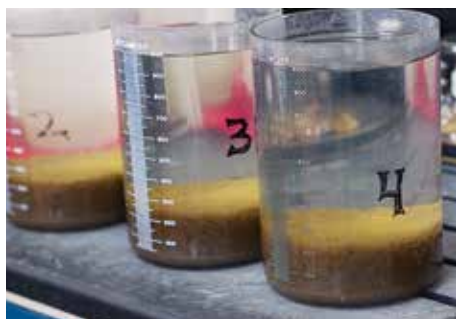
Wright and Westbrook expect, it will keep them busy for as long as they want to lead the company.

“Both Terry and I are committed foremost to bringing about real change in the industry,” Westbrook says.

Greg Livadas

About Venture Creations

RIT’s Venture Creations incubator is where young companies can advance their concepts to become profitable, viable businesses and use resources such as coaching, networking and connections to potential investors. It also is home to RIT’s NYSERDA-sponsored Clean Energy Incubator, a joint industry outreach effort by Venture Creations and the Golisano Institute for Sustainability to assist early-stage clean-energy companies in product development, business and marketing planning and technology commercialization. The incubator is one of six statewide and part of New York state’s clean-energy initiative. Venture Creations is located on Tech Park Drive, near the east side of the RIT campus. Since opening in 2003, it has housed 35 companies, created more than 300 jobs and brought in more than \$30 million in private capital. For more, go to www.rit.edu/research/vc.



Samples of sludge taken from ClearCove’s prototype.

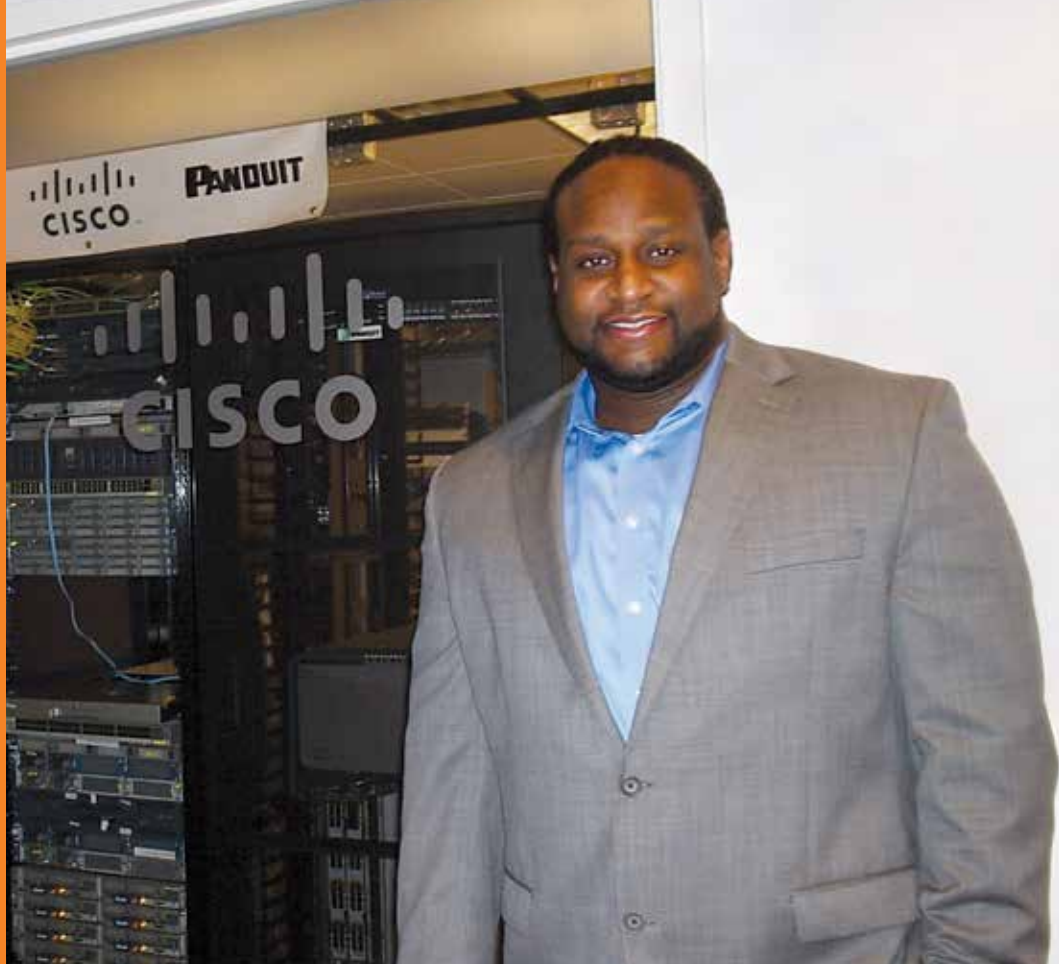
**I MAKE IT
HAPPEN
FOR RIT.**

**MY
EMPLOYER
MAKES IT
HAPPEN
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**CAN YOU
MAKE IT
HAPPEN
TOO?**

Like Cisco™, your employer may be one of the thousands that match employee charitable gifts to higher education. Some employers match gifts from retirees or spouses/partners too. While most match your gift dollar-for-dollar, some match two-to-one.

Visit matchinggifts.com/rit to find out if your employer is a matching gift organization. It is a great way for your gift to RIT to count twice as much.





“ I have been blessed to be where I am in life because of the valuable investments people have made in me. It is the people we meet and the lessons we learn that help shape our experiences and prepare us for the future. The men of Alpha Phi Alpha Fraternity, Inc. Mu Sigma chapter at RIT gave me a once-in-a-lifetime opportunity that helped me create my path to success. It is with great responsibility and pleasure that I give back to the family that has helped me become the man that I am. I was excited to find out that my employer Cisco Systems had a Gift Matching program that allowed me to double what I was able to give to RIT and Alpha Phi Alpha.”

—Richard J. Morrison, Jr. '09
Senior Systems Engineer, Cisco Systems, Inc.
Alpha Phi Alpha Fraternity
Nathaniel Rochester Society

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Stanley Gordon '43 painted the portraits behind him in The Wallace Center of RIT presidents Paul Miller, M. Richard Rose and Albert Simone.

Photo by Michael Peres

Portraits worth a thousand words—and then some

For seven decades, Stanley Gordon '43 (art and design) brought people to life on canvas. He painted well-known Rochesterians, who sat for portraits in his studio on St. Paul Boulevard. He depicted religious leaders and United States presidents using photographs and images in his mind.

More than 280,000 prints of a portrait he painted of Jesus with blue eyes are in homes from the United States to China. "I am known all over the world," says the 94-year-old, leaning in closer to emphasize his point.

And it all began when he signed up for night school in 1939 at the Rochester Athenaeum and Mechanics Institute, which later became RIT.

Gordon says he was inspired to become a portrait painter by his uncle, Joseph Jablonski, an artist who graduated from Harvard in 1923 and later taught there.

"He said portrait painting was the most difficult thing you could do," Gordon says. "And I said I want to record people and put them on canvas."

After completing courses at the Mechanics Institute, Gordon was invited to a summer class in the Adirondacks with prominent

portrait artist Wayman Adams. That led to a job painting family members of a military commander and a job as a USO Camp Show sketch artist during World War II. He created charcoal sketches of 1,000 soldiers, which were mailed home to their families.

Every portrait, Gordon says, has a story—and he is eager to share them.

Rosalynn Carter introduced herself to Gordon in Washington, D.C., at a Gannett Company Inc. stockholders meeting (Gordon was given stock as payment for a painting). Later that evening he saw her standing alone and told her he had read that President Jimmy Carter wasn't going to have a portrait done.

"I said, 'What I'm going to do is I am going to paint his portrait and give it you and you tell me what you think of it.' She says, 'Yes, please do it.'"

When he saw her at the next meeting, he showed her a photo of the portrait. She liked it. The painting is now in President Carter's presidential library, and Gordon keeps a thank-you note from Rosalynn Carter in a box filled with mementos.

His portrait of John F. Kennedy, painted after Kennedy died, hangs in a high school

in Bloomington, Minn., named after the president. Alumni of the school had seen a newspaper story about Gordon and his painting of Jesus and noticed the Kennedy portrait on the easel in the background. They tracked down Gordon and purchased it.

As for the Jesus portrait, a businessman bought it and sold the thousands of prints. Gordon's portraits of three RIT presidents, M. Richard Rose, Paul Miller and Albert Simone, still hang in The Wallace Center.

Gordon says he is grateful to have had such a healthy and long career, which included teaching painting and anatomy at the downtown RIT campus for 25 years.

He doesn't paint much these days since he lost his sight in one eye. But he is still passionate about his craft.

"If I was asked right now, 'Can you teach a class,' I would come in today," he says. "I would tell them, 'I'm not here to teach you how to paint, I'm here to teach you how to see.' I would teach them how to use their eyes to become artists."

Gordon certainly has an eye for capturing the essence of people.

Mindy Mozer

THE YEAR in Review

The health of a university can be measured in many ways. Here is a snapshot of some key metrics illustrating progress at RIT.

A BALANCED BUDGET

Total Revenue	\$694,301,300
Tuition and Fees	61.0%
National Technical Institute for the Deaf	13.0%
Auxiliary Enterprises	12.1%
Restricted and Other Sponsored Projects	7.7%
Other Sources	3.8%
Endowment Earnings	1.7%
Student Government	0.5%
Government Appropriations	0.1%
Unrestricted Gifts	0.1%
Total Revenue	100%

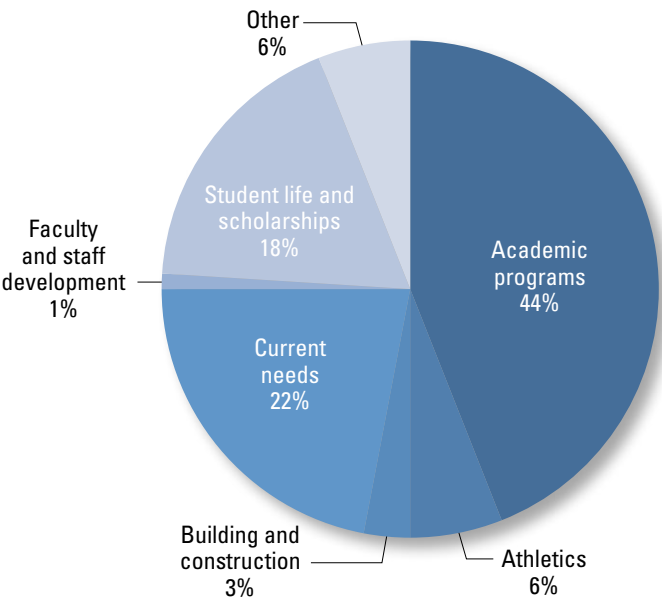
Total Expenditures	\$694,301,300
Instructional/Academic Services	27.6%
Student Aid	20.5%
Institutional Support/Facilities Services	14.6%
National Technical Institute for the Deaf	13.0%
Auxiliary Enterprises	11.5%
Restricted and Other Sponsored Projects	7.7%
Student Services	2.8%
Debt Service-Educational Plant	1.8%
Student Government	0.5%
Total Expenditures	100%

APPLICATIONS BY THE NUMBERS

22,117	Number of undergraduate applications received
6,928	Number of graduate applications received
29,045	Total number of applications, up by almost 4 percent over the previous year
58%	Percentage of freshman applications from outside of New York state
11%	Percentage of freshman applications from outside the United States
60%	Percentage of graduate applications from outside the United States

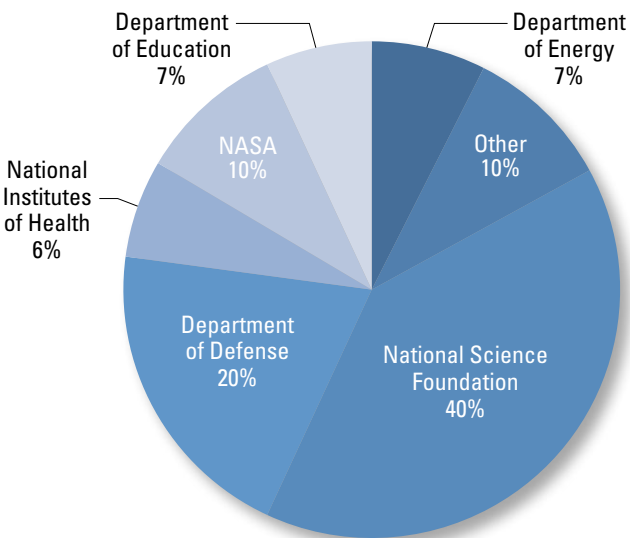
FY13 GIFT DISTRIBUTION

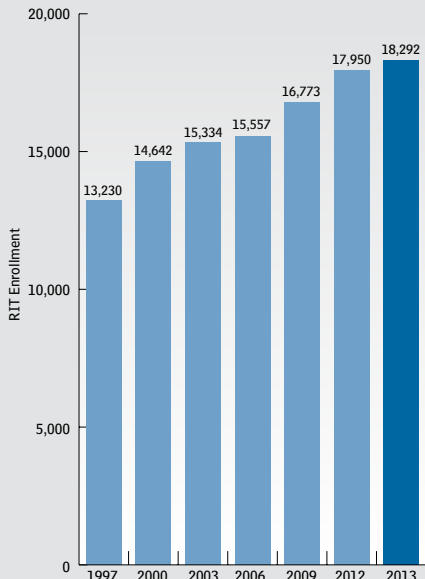
Total: \$26.7 million



FY13 RESEARCH AWARDS FROM FEDERAL SPONSORS

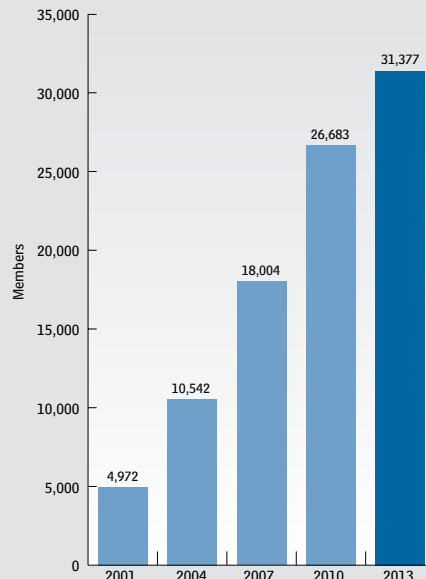
Total: \$18.8 million





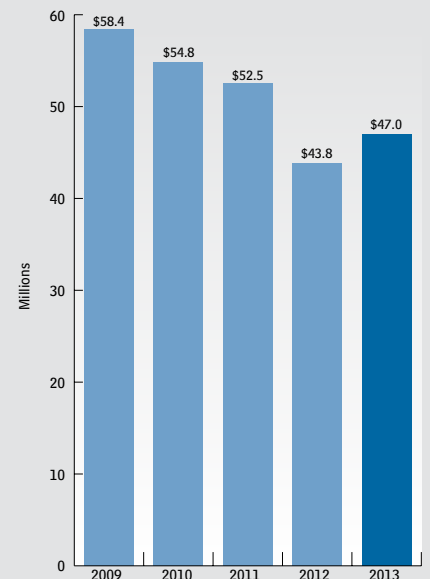
ENROLLMENT HISTORY

RIT's enrollment hit 18,292 this fall, an all-time high.



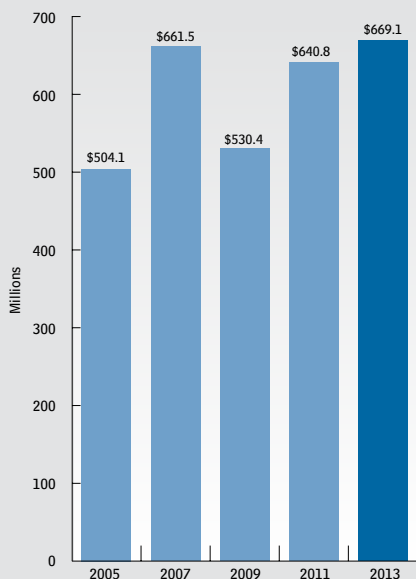
ALUMNI—ONLINE COMMUNITY MEMBERSHIP

Join at www.alumniconnections.com/rit/.



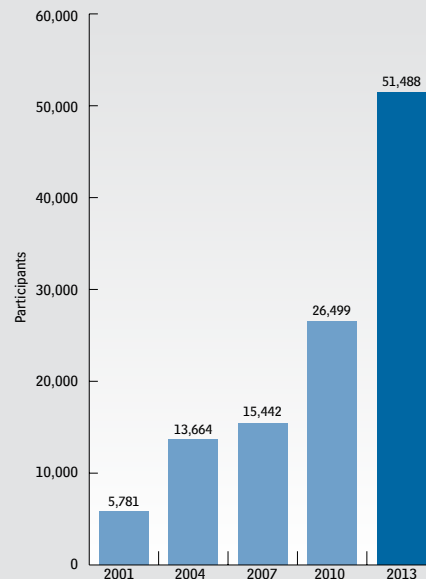
VALUE OF RESEARCH AWARDS

RIT received more than 400 new awards in fiscal year 2013, a record for the university.



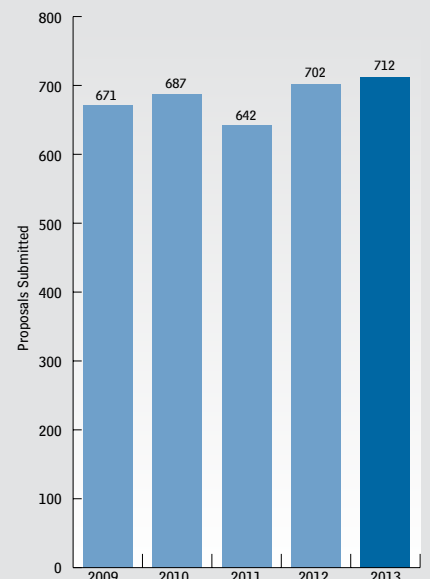
RIT ENDOWMENT

The endowment continues to grow following unprecedented decline in the capital markets during fiscal year 2008-2009.



ALUMNI—EVENT PARTICIPANTS

More than 500 events annually draw thousands of alumni, students, parents, faculty, staff, donors and their guests.



RESEARCH PROPOSALS SUBMITTED

RIT submitted a record of more than 700 proposals in fiscal year 2013.

Regional Alumni Activities

Albany

Alumni remembered RIT student Nicholas Murray by participating in the third annual Rhino Run on Oct. 12. Proceeds will benefit a student from the Albany area who will attend the Kate Gleason College of Engineering.

Austin/San Antonio

On Sept. 21, alumni took the "Ride-It" Segway tour through the city while learning about local history. Thanks to host **Virgil McCullough '78**.

Bay Area

On Aug. 24, alumni gathered in San Mateo at Coyote Point Recreation area for the first ever RIT alumni taste of Rochester picnic. The picnic included Rochester food, such as Zweigle's hot dogs, Grandma Brown's baked beans and Abbott's frozen custard. Special thanks to host **Martin Hendess '94**.

Buffalo

On Aug. 10, alumni gathered at the Buffalo and Erie County Naval & Military Park for a special guided tour. They toured the USS Little Rock, USS Croaker and USS The Sullivans, while learning about the history of these ships.

Cleveland

On Aug. 10, alumni got together for the annual alumni chapter event at the Cleveland Indians baseball game. They caught up prior to the game at the picnic and stayed late for the fireworks display. Special thanks to **Al Tuefen '73** for hosting the event.

Dallas

On Oct. 12, alumni gathered for a homecoming event of their own. They met at Main Event Entertainment for an evening of bowling and friendly competition. Special thanks to host **Scott Saldinger '89, '91**.

Denver/Colorado Springs

On Oct. 19, RIT and Clarkson held a joint alumni event at Ralphie's to watch the RIT vs. Clarkson hockey game. Thanks to host **Luke Netto '12**.

Detroit

On Sept. 21, alumni gathered for a volunteer day with the Greening of Detroit organization. Alumni assisted with tree and shrub planting in parks and along the streets of Detroit. Special thanks to host **Yolanda Lewczuk '00**.

Dubai

Alumni in the Middle East were invited to the first annual Evening at the Oasis alumni reception with RIT Dubai President **Yousef Al-Assaf** on Oct. 3.

Houston

On Sept. 8, alumni gathered at Ninfa's for a reception before a Houston Dynamo Major League Soccer game. Thanks to host **Mark Biscone '99**.

India

Alumni in Delhi assisted RIT at the IIE/USIEF education fair and gathered for dinner at Baluci Restaurant at the Lalit Hotel on Sept. 6. Thanks to host **Shipra Chaturvedi '03**.

On Sept. 15, alumni in Mumbai assisted RIT at the IIE/USIEF education fair and gathered for a reception at alumni-owned design studio Confluence Elite Designs. Thanks to alumni host and owner **Manasi Manjrekar '10** and **Ashutosh Agarwal '01**.

Alumni also gathered for dinner in Chennai, Kolkata and Hyderabad in September.

Istanbul

Alumni gathered for brunch at 5.Kat Restaurant on Oct. 6. Special thanks to **Merve Evran '06** for hosting and planning the event.

Kuala Lumpur

Fifty-four alumni enjoyed a dinner Sept. 26 at the Royale Bintang hotel and heard updates about the university from **Sonja Phongsavanh**, associate director of Part-time and Graduate Enrollment Services. **Nurul Hawa '10** organized the event.

New Jersey

On Oct. 26, alumni from the newly revived New Jersey chapter participated in Make-A-Difference Day and gave their time by helping the community clean up and rebuild in areas still in need after Superstorm Sandy. Special thanks to **Marisa Santiago '04** for coordinating the RIT group.

New York

On Aug. 8, African-American alumni in the NYC area gathered at Inc. Lounge for a networking happy hour.

On Sept. 9, alumni watched Rafael Nadal win the 2013 U.S. Open men's match against Novak Djokovic. Thank you **Mike Larson '93** for hosting.

On Sept. 17, alumni gathered to cheer on the New York Mets against the San Francisco Giants.

Raleigh-Durham

On Sept. 21, **Jim Ferris '81** invited the chapter to Doherty's Irish Pub & Restaurant to come watch the Jim Ferris Trio perform. Alumni had an opportunity to meet and talk with Ferris before he performed. Thank you to chapter leaders **Mike Pail '98** and **Sue Pail '98** for hosting the evening.

Rochester

RIT alumni from Rochester and Buffalo got wet and wild on the Niagara River Jet Boat on July 20. The group enjoyed lunch at the famous Silo Restaurant in Lewiston after the ride. Thanks to alumni hosts **Donna and Tony Kocienski '78**, **Frank Lucas '75** and **Stacy Kurtz '05**.

On Aug. 21, more than 100 alumni with children or grandchildren in RIT's incoming freshman class gathered for the annual Alumni Legacy Dinner on campus.

On Aug. 24, more than 400 alumni and guests attended RIT Day with the Rochester Red Wings. Alumni cheered on the Red Wings as well as the RIT men's and women's hockey team captains as they threw out the first pitch. Attendees also got a special sneak peek of the Frozen Frontier hockey game on Dec. 14.

On Sept. 14, more than 20 alumni and students gathered for a day of service. They cleaned up and landscaped Mt. Hope Cemetery. Attendees enjoyed lunch at The Distillery afterward. Thanks to event hosts **Bob Snyder '56** and **Maggie Reilly '04**.

On Sept. 17, alumni took part in a career fair panel discussion, A Talk with Alumni.

On Sept. 18, Native American alumni gathered at the Elmwood Inn to network with **Jason Younker**, associate professor of anthropology and assistant to the Provost for Native American Affairs; **Nizhoni Chow-Garcia**, research associate, and **Jeffrey Burnette**, associate director of RIT Future Stewards program.

On Sept. 28, alumni attended a special reception at the First Niagara Rochester Fringe Festival Spiegeltent. Attendees were treated to performances by RIT's Vocal Accents a capella group and Culture Clash featuring RIT professor and music department director **Carl Atkins**.

Alumnae attended YWCA's Empowering Women Luncheon on Oct. 8.

AALANA (African American, Latino/a American and Native American) alumni took part in a full schedule of activities at Brick City Homecoming & Family Weekend, including a Happy Hour Kick-Off at Lovin' Cup, a talk by Daymond John, a PlayDate Party and Bon Voyage BBQ with Howard Ward.

Alumni gathered for a special Oktoberfest celebration at Lovin' Cup on Oct. 23. Special thanks to alumni hosts **Stacy Kurtz '05** and **Shirley Murphy '81**.

Seattle

On Aug. 8, alumni gathered for happy hour at the Tap House in Bellevue, Wash.

Syracuse

Syracuse area alumni met in Skaneateles on July 20 for a luncheon boat cruise on the lake.

Tampa

Alumni from the central Florida region gathered to cheer on the Tampa Bay Rays as they faced the New York Yankees on Aug. 24.

Utica/ Rome

On Sept. 28, alumni boarded the W.W. Durant to sail along Raquette Lake, taking in the beautiful fall foliage and historic scenery along the way.

Washington, D.C.

On Aug. 10, alumni toured Port City Brewery in Alexandria and enjoyed a flight of Port City beer at the conclusion of the tour. Afterward, the group continued down the road to Café Pizzaiolo for appetizers and additional networking. Special thanks to chapter leaders **Carlo Costino '04, '07** and **Phil Jones '02** for hosting the event and **Larry Ponzi '92**, who is the owner of Café Pizzaiolo.

Reunions

On Aug. 31, the cross country team held its annual alumni reunion and 5K Race.

On Aug. 30-31, men's soccer held its annual alumni reunion, which included the Doug May Memorial Golf Tournament and alumni soccer game.

On Sept. 13-14, the baseball team held its annual reunion and alumni game.

During Brick City Homecoming & Family Weekend, the following fraternities and sororities held alumni activities: Alpha Xi Delta, Delta Phi Epsilon, Kappa Delta Rho, Phi Kappa Psi, Pi Kappa Phi, Sigma Alpha Mu, Sigma Sigma Sigma, Tau Kappa Epsilon and Zeta Tau Alpha.

The following programs and student organizations held reunions or anniversary activities during Brick City Homecoming & Family Weekend: NTID 45th anniversary, RIT Ambulance (RITA/EMU/SSU) 45th anniversary, electrical engineering 50th reunion, mechanical engineering 50th reunion and RIT Players.

To learn more

Events are being planned in many cities. Check www.rit.edu/alumniactivities for alumni events happening near you.

A



B



C



D



E



Class Notes

Key to abbreviations

CAST	College of Applied Science and Technology
CCE	College of Continuing Education (now CMS)
CHST	College of Health Sciences and Technology
CIAS	College of Imaging Arts and Sciences
CLA	College of Liberal Arts
CMS	Center for Multidisciplinary Studies
SCB	Saunders College of Business
KGCOE	Kate Gleason College of Engineering
COS	College of Science
FAA	Fine and Applied Arts (now CIAS)
GAP	Graphic Arts and Photography (now CIAS)
GCCIS	B. Thomas Golisano College of Computing and Information Sciences
NTID	National Technical Institute for the Deaf
SVP	NTID "Summer Vestibule Program"

About Class Notes

Class Notes are edited for space, clarity and style. Share details and photos of special occasions and professional achievements in your life by going to www.rit.edu/alumni/news.

1959



Suzanne Sokol Hausman '59 (FAA) is still active in the graphic design field. She is currently working as a freelance designer, producing exhibit, signage and print projects for the Brooklyn Tech Alumni Foundation.

1964

Benjamin Lambert '64 (GAP) is a retired consultant in Campton, N.H. He was owner of Media Resources, providing marketing support services.

1965

Ernest Goldberg '65 (GAP) taught graphic arts at the high school level in Philadelphia for 30 years and operated a commercial printing business. On Sept. 6, he held an artist's reception for his solo exhibit at the Grand Opera House Gallery in Wilmington, Del., in conjunction with an area-wide monthly art festival. The exhibit was called "Pigments of the Imagination,"

and featured oil and acrylic paintings as well as block prints. The exhibit ran until Oct. 28.

1967

Donald Ferris '67 (GAP) recently completed his first year as publisher/editor of *The Homer News*, a bi-weekly newspaper serving the community of Homer, N.Y. "It's somewhat a change of career but still affiliated with printing and keeps me in touch with the people in my community."

Harvey Levenson '67 (GAP) retired from Cal Poly, San Luis Obispo, after 30 years of continuous service as a professor and department head of Graphic Communication, the longest ongoing department head or chair service in the more than 100-year history of Cal Poly. He will continue with the university on a half-time basis as director of the Graphic Communication Institute at Cal Poly, an arm of the Graphic Communication Department that provides services for industry.

1970

Brian Nicholas '70 (GAP), '80 (SCB) recently retired from SICPA after having spent the last 25 years in various parts of the security print and packaging industry. He plans to remain in Dayton, Ohio, and do some consulting in strategic business development.

1972



Margaret (Gabler) King '72 (SCB) wrote *Murder at the Book Group*, which will be published by Simon & Schuster

in 2014. The anthology *Virginia is for Mysteries*, coming out in January 2014, will include her short story, *A Not So Genteel Murder*.

Michael Soluri '72 (CIAS) wrote his first sole-authored book, *Infinite Worlds: The Labor and Tools of Human Space Flight*, being published by Simon & Schuster in September 2014. The coffee-table book is based on his nearly three years exclusive access in photographically portraying and documenting the labor force, astronaut crew, launch hardware and space tools involved in saving—one of NASA's last space shuttle flights—the Hubble Space Telescope.

1973

Patricia Ann (Tiffany) Grein '73 (SCB) is working as an associate in sales at Macy's and also with the Rolling Meadows Park District as a program leader. She is married to **Phil Grein '71 (NTID)** and they have two children, Andrea and Timothy.

1977



Kevin Hall '77 (FAA) and **George Platt '76 (GAP)** collaborated to make "The Freedom Poster" to salute and pay homage to America's freedom. The poster won an award in

the 2013 American Graphic Design Awards competition.

1978

Elizabeth Bonni '78 (CLA) has been a tenured faculty member at Hillsborough Community College, Tampa, Fla., since 2005, teaching in the sign language interpretation program. This year, she received her certificate from the Registry of Interpreters for the Deaf, one of a handful of certified deaf interpreters in Florida.

Richard Ross '78 (KGCOE) was promoted to regional product manager for the eastern United States at Westech Engineering in Salt Lake City. He is celebrating 20 years in the water industry, assisting engineering consultants in designing municipal water treatment plants and industrial water treatment processes. He works from his off-grid, solar-powered home in northern New York.

1979



Collette Fournier '77, '79 (GAP) had her artwork exhibited at the CEJES Institute in Pomona, N.Y., this spring. The exhibit included

photographic pieces centered on experiences of people in the African Diaspora. She is an award-winning New York-based photographer whose work has been published and exhibited widely and has been included in a number of museum collections, such as the Smithsonian Institution and the Schomburg Center for Research in Black Culture. She has had six one-woman exhibitions, including a 19-year retrospective.

Glen Barry '79 (GAP) in 2010 left his job as a computer specialist with Westchester County after 25 years. He received Notary Public certification in the state of New York and was issued a license in May.

1980

John Shannon '79, '80 (GAP) has been working as a controls engineer at Precision Combustion Inc. in North Haven, Conn., since 2010. He has been working on control systems and test systems for clean energy technologies for about seven years. He has been a Certified LabVIEW Developer for more than 10 years.

Thomas Heisler '80 (SCB) became an independent SAP consultant in 2010 when he started Patriot Consulting Services in Fairfield, Ohio. He was employed at TITAN Technology Partners as the vice president of delivery.

1981



Nancy Cohen '79, '81 (FAA) had an exhibition Sept. 5 through Oct. 12 at Accolla Griefen Gallery in New York City. The work was made during a collaborative residency at the Corning Museum of Glass in 2012.



Phyllis (Bryce) Ely '81 (FAA) participated in the Memorial Art Gallery's 64th Rochester-Finger Lakes Exhibition and received the Gertrude Herdle Moore/Isabel Herdle Award, given by the Gallery Council of the Memorial Art Gallery, for her painting *High Falls with Trains and Mist*. She has been painting, exhibiting and teaching plein air painting for more than 30 years. Her work is included in many private and corporate collections.

Thomas Sheft '81 (GAP) is currently research associate at Historic Photo Archive in Portland, Ore.

1983

Matthew Huck '81, '83 (GAP) recently repatriated to the U.S. with ASML and is located in Chandler, Ariz., as the senior manager of customer support. "Upon completion of my European assignment, I have returned to the U.S. where I am now manager of the Customer Support Program group. It is a small group of talented project managers."

1984

Christopher Acker '84 (COS) served as part of the team "cycling4acure," a nonprofit cancer fundraising group, which completed a transcontinental bike tour raising money in support of the American Cancer Society and cindyshopechest.org. The group stopped at multiple pediatric cancer hospitals and visited with cancer patients, physicians and nursing staff, and donated bicycles to these facilities for patient use.



T.I. Weintraub '84 (GAP) accepted a position at Riverside Research in Beavercreek, Ohio, as executive vice president/COO. He was employed at Raytheon Technical Services. "**Kathleen**

(Olsen) Weintraub '84 (FAA) and I recently relocated to Ohio from Colorado Springs to lead Riverside Research."

1985

Abraham Greenberg '85 (CAST) writes, "I am impressed. I have not been back to RIT since 1985. I was on the Erie Canal bike tour and decided to stop at RIT. The admissions office was kind enough to show me around the campus. Wow, things have really changed: food court, new fitness center, fantastic educational facilities. I would be happy to be a student at RIT again. Thanks for the tour."

1986

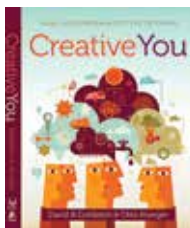
Shannon Davis '86 (FAA) completed an American flag photography project, which was featured on CNN. Davis is currently based in Atlanta and teaches at the Savannah College of Art and Design.

1987

Susanne Loomis '87 (GAP), '97 (CAST) has been at Massachusetts General Hospital for 15 years and is the project coordinator, graphic designer, illustrator and IT for REMS Media Services. REMS services is the radiology department at the hospital. BioCommunications Association (BCA) elected her president for 2011-2013 and she is now the immediate past president. BCA is an international association of media professionals who create and use quality images in visual communications for teaching, documentation and presentations in the life sciences and medicine.

1988

Bruce Everhart '88 (CAST) accepted a position at Task Trainers Inc. in Freeport, Ill., as site project manager. He was employed at Health Care Service Corp. as instructional design consultant. He lives in Naperville, Ill., with his wife, **Jann '96 (CIAS)**.



David Goldstein '87, '88 (GAP) authored *Creative You—Using Your Personality Type To Thrive* (Simon & Schuster),

showing that people can be creative in their own ways, using their natural strengths. The book is based on Myers-Briggs and co-authored with personality-type expert Otto Kroeger.

Chetan Kamdar '88 (COS) accepted a position at BioMarin Pharmaceutical Inc. in San Rafael, Calif., as senior IT manager, business relationship management.

Marc Raco '86, '88 (GAP) was recognized with his eighth Telly Award for video work. Raco is currently an executive producer for a reality TV show



about healthier living starring Tammy Lakatos Shames and Lyssie Lakatos, the internationally known Nutrition Twins. Learn more about the show, which is seeking network placement, at www.livingtwoeat.com.

1989

Kirk Striebich '85 (SCB), '89 (CLA) and LeeAnne Haworth are proud to announce the birth of their first child, Kadri Anne Striebich. She was born on May 19, 2012, in Virginia Beach, Va.

1991

Paul Finkelstein '91 (GAP) and Sara Finkelstein celebrated their 14th wedding anniversary in September. He was recently promoted to Branch Office, Financial Advisor, at Williams Financial Group in Delray Beach, Fla.

1992

Jeffrey Zadoff '92 (CAST) writes that his newest venture in Delray Beach, Fla., Buddha Sky Bar and Buddha Garden—an 11,000-square-foot, three-story Asian concept with design and cuisine influences rooted in Chinese and Japanese interpretations—has been named one of the Top 100 Restaurant Hot Spots in the U.S. by Open Table members. For details, go to Buddhaskybar.com or Buddhagarden.com.

1993



Joseph Brennan '93 (FAA) wants to share one of his latest works of art and his new website, www.josephbrennandesigns.com.

Tammy (Frenc) Due '93 (COS) and Chris Fay are happy to announce their marriage on April 27, 2013, in Newburyport, Mass., where they live.

Bryan Thompson '93 (CAST) and family attended from Western Pennsylvania. Due's oldest son, Devin Fay, also became an RIT Tiger this fall.

Frederick Rueckert '93 (CIAS), third-generation Chautauquan and videographer, presented a behind-the-scenes look at the renovation process for the Massey Memorial Organ, part of the Chautauqua Symphony Orchestra, which celebrated its 20th anniversary of renovations in July 2013 with a screening of his documentary. When the Massey Organ underwent major renovations in 1992, Rueckert decided to document the process for his film studies at RIT, delaying his graduation date by a year to film the renovation in its entirety. Rueckert hopes the documentary piques the curiosity of his audience and motivates the younger generation to be interested in pipe organs.



Jerry Scriven '93 (CLA) retired from military service after 24 years in the Army. His retirement ceremony was July 25, 2013, at Fort Lee, Va. He and his wife of 20 years,

Ronda, and their two daughters will continue to live in the Richmond area. He is pursuing new employment opportunities in the field of operations research and systems engineering.

1994

Sean Morrison '94 (CAST) was awarded International Paper's Design Excellence Award in January 2013 for development and creation of DuraPack, an environmentally friendly and sustainable alternative to paraffin waxed agricultural corrugated packaging.

Charles Sadler '94, '94 (CIAS) is owner of King Garden Designs in Irvington, N.Y. He launched the full-



service landscape design firm in 2013. The company does expert artistic pruning services of ornamental trees, shrubs and fruit trees, including orchards.

1995



James Sims '95 (CAST) and Ebony Sims are proud to announce the birth of a baby boy, James Howard Sims III, on June 6, 2013, in Upper Darby, Pa.

Sisters Evelyn Anderson and Jamia Sims are excited that their new baby brother is here.

1996

Tracy Swan '96 (CIAS) was promoted to director of graphics production for Macy's Inc. in Manhattan. She is working in the visual department, supporting more than 700 stores nationwide by coordinating production and distribution of in-store signage campaigns and creating visual enhancements.

1997



Susan Beckert '97 (CAST) is director of technology, Southeast for Merck and is responsible for engineering and designing or renovating facilities as created for the manufacture of new products. Her journey is showcased in the Spring 2013 edition of *Woman Engineer* magazine.

1998



Alice Merchant '98 (CIAS) co-founded a New York City-based digital asset management consultancy named Asset Atelier. The company focuses on securing the success of digital asset management projects in a range of industries.

1999



Mark Biscone '99 (COS) and Erin Biscone are proud to announce the birth of a baby girl, Lila Elizabeth Rose. She was born on April 27, 2013, in Houston, Texas. Biscone accepted a position at Texas Hospital Association in Houston as the regional executive for Houston and East Texas. He was employed at the Department of Veterans Affairs as health systems specialist for almost five years.

Tiger Love



Photos by A. Sue Weisler

Bethany Choate '06 and Matthew Heimbueger '06 are building their own 2,048-square-foot sustainable home in suburban Rochester. The imaging science graduates say the building process has brought them closer together.



Couple builds on chemistry

On weekdays, Bethany Choate and Matthew Heimbueger are scientists. On the weekends, they become construction workers.

The 2006 imaging science graduates are building their own sustainable home on 28 acres in the Rochester suburb of Rush.

"We always knew we did things somewhat unconventionally," Choate says.

The two first met in AP Chemistry class at Rush-Henrietta High School after Choate had completed an internship at RIT's Chester F. Carlson Center for Imaging Science. She liked it so much that she encouraged her classmates to apply. Heimbueger did, and after he completed it, he was able to continue working part time the following summer. By that time, Choate was an RIT student and they reconnected.

"I had other plans for my birthday that fell through and I ended up at his graduation party that happened to be on my birthday," Choate says, adding that a group trip to Niagara Falls later that summer sealed the deal.

They were married five years later on June 28, 2008.

Last fall, Heimbueger, who works as a

senior laboratory engineer at the University of Rochester Laboratory for Laser Energetics, and Choate, senior associate for outreach and communication for the Center for Imaging Science at RIT (which includes coordinating the same internship program they both attended), decided to build their own home. Choate's parents, who live on the lot next door, gave them the land.

They attended the local Greentopia Festival to get some ideas about building a sustainable and efficient structure. Then, with the help of Choate's dad, Albert, who built his own house in the 1970s, they drew up some plans.

They put the garage in the middle of the one-story home to keep the corners, which have the best views, as living space. The house is 32 by 64 feet and the ceiling is 8 feet tall. The walls are 6 inches thick to maximize insulation. They picked a size that would be easy to build with minimal waste. "It's really not to most people's tastes," Choate says. "It is very different."

Heimbueger says they didn't start out planning to build the house themselves.

"It became a question of how much do

you trust a contractor," he says. "We felt like we would have to be there anyway when most of the work is done."

Before they knew it, they had dug and poured the footers, prepped for the foundation, built the walls, set the trusses and sheathed the roof—with help from family and friends. (Heimbueger's parents, Bob '77 (electrical engineering) and Heather '77 (social work), also met at RIT.)

The house will have solar panels on the roof and use geothermal energy. They worked hard to plan their energy consumption and production to come out to net zero.

"We've grown a lot from this project," says Choate, adding that they hope to be living in the house by the end of the year. "We never had any question as to whether we would be successful at it."

Mindy Mozer

About Tiger Love

There are more than 4,600 RIT alumni couples. If you have a suggestion of a couple to feature, email us at umagwww@rit.edu.

Patrick Gaynard '99 (CIAS) received a Master of Arts in humanities/humanistic studies with honors from California State University, Northridge on May 15, 2013.

Timothy McInerney '99 (CAST) and Stephanie Cinque-McInerney have founded the Resiliency Center of Newtown as a result of the tragedy that occurred in the Sandy Hook Elementary School on Dec. 14, 2012. Resiliency Center of Newtown will offer a variety of programs, services and events designed to help those suffering from trauma to recover and move forward with their lives in a positive way. The organization has partnered with Tuesday's Children, whose long-term healing model continues to support all those impacted by Sept. 11, 2001. The McInerneys and their two children are residents of Newtown. For more information, go to www.resiliencycenterofnewtown.org.



John Miller '99 (SCB) has been hired as a manager for ProNexus LLC, an affiliate of The Bonadio Group. Miller was previously a manager, business process, with Constellation Brands. He lives in Victor.



Samantha Powell '99 (CIAS) has been named the 2014 Women's Council of Realtors, Chicago Chapter President and 2013 Chicago Force—women's tackle football national champions, director of Game Day Operations.



Kelly (Frank) Wilbur '97, '99 (CIAS) and Steve Wilbur are proud to announce the birth of twin boys, John Martin and Logan Harlen. They were born on April 16, 2013, in Minneapolis.

2000

Dori (Lowenstein) Karanikis '00 (CIAS) and **Andrew Karanikis '99 (CAST)** announce the birth of a baby girl, Lauren Violet. She was born on Aug. 11, 2013, in Stamford, Conn. She joins proud big sister Alexa Rose.

Hugh McNaney '00 (CAST) celebrated his fifth wedding anniversary to Amber (Singer) McNaney. They live in Media, Pa., with their two children, Aaron and Cora.

2001



Melinda (Cole) Class '01, '03 (CLA) and **Clipson Class '01 (CAST)** are proud to announce the birth of a baby girl, Rhiannon Waverly. She was born on July 5, 2012, in Rochester. She was welcomed home by siblings Bronwyn and Ronan.



Jeffrey Fasoldt '01 (SCB) and his two sons, Jeffrey Jr. and Nicholas, earned their first-degree black belts in karate on Aug. 10 in Syracuse.

Jonah Goodman '01 (CIAS) is serving in his fourth term as the national president of Phi Sigma Pi National Honor Fraternity. This is a volunteer position managing the national organization, consisting of 133 collegiate chapters, as well as overseeing the professional staff team. In 1998, he helped co-found the chapter of Phi Sigma Pi at RIT.



Adam Rackoff '01 (CIAS) and **Cristina Rackoff** are proud to announce the birth of a baby girl, Emma Natalie. She was born on June 2, 2013, in New York

City. Rackoff and actor Matthew Modine won the "Best App" award for their Full Metal Jacket Diary iPad app at the New Media Film Festival in Los Angeles. The critically acclaimed "app-umentary," released last year, was produced and directed by Rackoff and designed by fellow RIT graduate **Jason Parry '01 (SCB)**. For details, go to www.fullmetalljacketdiary.com.



Cristina (Sustento) Mech '01 (CAST) and **Chris Mech '99 (CAST)** are happy to announce the birth of a baby boy, Ian. He was born on May 19, 2013, in Rochester.



Jacquelyn (Saltsman) Hesler '02 (CIAS) and **Bret Hesler '99 (CIAS)** have started a digital advertising company in Northern New Jersey called Dynamic Digital Displays of NJ LLC. Go to www.dynamicdisplaysnj.com for more information.

Ruth Lyons '02 (CIAS) received a Ph.D. in educational psychology from University of Connecticut on May 11, 2013. She is the principal of a school she helped start, The Renzulli Academy, in Hartford, Conn.



Kathryn (Palmacci) Musiak '02 (SCB) and **Jason Musiak** are proud to announce the birth of a baby boy, James Vincent. He was born on Feb. 20, 2013, in Boston.

Daniel Premo '02 (GCCIS) and **Julie Premo** are proud to announce the birth of a baby boy, Fox Harrison. He was born on June 26, 2013, in Atlanta.

Daniel Xeller '02 (CIAS) and **Svenja Xeller** are proud to announce the birth of a baby boy, Johann August Xeller. He was born on March 7, 2013, in Charleston, S.C.

2003



Kimberly Bonarski '03 (CLA) and **Timothy Bonarski '04 (CAST)** are proud to announce the birth of a baby boy, Travis David. He was born on Aug. 5, 2013, in New Haven, Conn. Older siblings Tyler and Tommy are enjoying life as a family of five.



Carl Gause '03 (CLA) was promoted to the position of major in the U.S. Army on May 31, 2013. He was commissioned as second lieutenant during his time in the RIT/ROTC Tiger Battalion. After

RIT, he went on to achieve first lieutenant on Feb. 18, 2005, and captain on Oct. 1, 2006. He married Crystal Geiger on May 25, 2007, and they have two sons, Joshua, 4, and Caleb, 2.

Sarah Kankiewicz-Arkins '03 (CIAS) accepted a position at Availability in Jacksonville, Fla., as an instructional designer. She will be working from home in Savannah, Ga.

Timothy Kennery '03 (SCB) and **Gina Kennery** are proud to announce the birth of a baby girl, Julianna Josephine. She was born on May 21, 2013, in Winston-Salem, N.C. He also recently accepted a position at Gilbarco Veeder Root in Greensboro, N.C., as finance manager.



Philip Levine '03, '03 (SCB) and **Melanie (Evans) Levine '01, '04 (CLA)** are proud to announce the birth of a baby boy, Ethan Milo. He was born on July 11, 2013, in Boynton Beach, Fla. "Ethan hopes to join grandpa and grandma (Jay and Stephanie Levine) and mom and dad as an RIT graduate in 2031."

Cheryl (Williams) Lomedico '96, '99, '03, '09 (CAST), '11 (CMS) and **Joseph Lomedico** are proud to announce the birth of a baby girl, Cara Anne. She was born on Dec. 31, 2012, in Rochester. Her siblings are Jene Keeney, a future RIT graduate in December 2013, and Joey Lomedico.

Michael Pletka '03 (CIAS) and **Nicole Albano** are happy to announce their engagement. The wedding ceremony will take place in September 2014 in Westhampton Beach, N.Y.

Wanda Strychalski '03 (COS) accepted a position at Case Western Reserve University in Cleveland as an assistant professor in the Department of Mathematics, Applied Mathematics and Statistics. She was employed at University of California, Davis as postdoctoral researcher.

2004



Denishea (Flannagan) Ortiz '04 (SCB) and **Orlando Ortiz '04 (CAST), '08 (SCB)** are proud to announce the birth of a baby boy, Esaias Jaiden. He was born on June 4, 2013, in Rochester.

Meet one of NTID's first students



William Ingraham stands near a tree he helped plant in 1974 with Lady Bird Johnson. President Lyndon B. Johnson signed into law the act creating NTID in 1965. "The big change for me was meeting so many other deaf people," Ingraham says. "I enjoyed it. And I'm happy I could be a pioneer to help the school grow and become successful."

More than 7,300 students have graduated from RIT's National Technical Institute for the Deaf in the past 45 years, and William Ingraham is regarded as the first.

Ingraham, a native of the Rochester area, transferred to RIT in 1968 after taking two years of business administration at Alfred State University. "I was passing in college, but I needed a lot of help," he says.

Coincidentally, Ingraham '71 (business administration) decided to transfer to RIT at the same time RIT was welcoming its first class of deaf and hard-of-hearing students—44 men and 26 women—to NTID.

Throughout his previous school years, Ingraham had always been the only deaf person in his class. He sat in the front row and relied on friends to take notes for him as he focused on the teachers' faces to try to understand what they were saying. Although he didn't know sign language when he arrived, the teachers at RIT were easier to understand, and note-taking services were provided.

Ingraham completed two co-ops with the Internal Revenue Service.

"They liked my job performance during my co-ops and offered me a job one month after I graduated," he says.

That job turned into a 36-year career as an IRS agent, until his retirement in 2004, which has

allowed Ingraham to have more time to play golf, travel and spend with his family. He also spends time as a respite worker for the family of a child with autism.

Over the years, Ingraham has stayed in contact with his RIT/NTID classmates who have moved around the country after graduation. Ingraham stayed close to home and lives in the Rochester suburb of Brighton, just eight miles from the RIT campus.

Other than crediting RIT with training him for a career, it also was where he met fellow student Mary Jo Nixon, who came to RIT in 1969. They were married nearly 40 years ago. She was the first NTID graduate hired as a staff worker and retired after 40 years at NTID. The couple has two children and two grandchildren.

Ingraham has visited the campus many times over the years, including the 45th Alumni Reunion held in October.

NTID President Gerry Buckley is grateful to Ingraham and the others from those early days of NTID's inception.

"It's important as we celebrate the 45th anniversary of NTID's first class this year to remember all of our graduates, but especially our pioneers like Bill who began a tradition of excellence and serve as role models for the following generations," Buckley says.

Greg Livadas



Korrie (Kamp) Tosh '04 (CAST) and Joseph Tosh are proud to announce the birth of a baby boy, Marcus Patrick. He was born on Aug. 6, 2013, in Leesburg, Va.

2005

Brett Hall '05 (CIAS) accepted a position at 9ate7 Productions in Brooklyn, N.Y., as animation director. As animation director for the new PBS preschool series "Peg + Cat," he oversees the pre-production of design and after effects rigging in-house and directs an animation crew based in Toronto.

Allison Keeler '05 (COS) received a Ph.D. in biomedical sciences from UMass Medical School on June 3, 2013. She was selected as class speaker.



Ariya Martin '05 (CIAS) and **Tara Malik '00 (CIAS)** conducted their second photography program for youth in Haiti this summer through One Bird, a youth and community media arts nonprofit they co-founded in 2008. One Bird will travel to Riviere Froide, a community in Carrefour just outside Port-au-Prince, in the summer of 2014 to continue this program. To learn more, go to onebirdprojects.tumblr.com.



Michael Maeder '05 (KGCOE) and Swati (Bhattacharyya) Maeder were married on Aug. 25, 2012, in Saratoga Springs, N.Y. They welcomed their

first child, Shreya Mabel Maeder, into the world on Aug. 11, 2013.

Julianne Muszynski '05 (CLA) received an MBA from the University of Pittsburgh in April 2013.

2006

William Belec '06 (GCCIS) received an MBA June 9 from Simon School of Business, University of Rochester.



Sarah Friedlander '06 (CIAS) and Rodrigo García Segovia are happy to announce their marriage on Aug. 3, 2013, in Calera de Tango, Chile. They live in Santiago, Chile.

She also accepted a position at AIR802 in Santiago, Chile, as director of marketing. She was employed at Super Software S.A. (Tigabytes) as marketing manager.

Joseph Kacyon '06 (CIAS) and **Lisa Jackson** are happy to announce their marriage on May 4, 2013, in Akron, Ohio, where they live. Alumni **David Surovic '06 (CIAS)**, **Brittney Lee '06 (CIAS)**, **Kevin Kilcher '06 (CIAS)**, **Josh Piejko '06 (CIAS)** and **Eric Yellin '06 (CIAS)** attended.

Jason Rodriguez '06, '07 (SCB) accepted a position at Morgan Stanley in Purchase, N.Y., as assistant vice president-strategic partnerships. He was employed at Verizon as a business analyst.

Christian Szabo '06 (CAST) was promoted to director, corporate governance, at Excellus BlueCross BlueShield of Rochester, effective July 1, 2013.

2007

Daniel Farnan '07 (CAST) has become a licensed professional engineer in the state of New York. Farnan has more than six years of experience in civil engineering working on a multitude of projects ranging from small-scale site designs to large highway rehabilitations. He has received both his Certified Professional in Erosion and Sediment Control and Certified Professional in Storm Water Quality certifications.



Kyle Krzywicki '07 (SCB) and **Alan Krzywicki '07 (KGCOE)** are happy to announce their marriage on June 8, 2013, in Rochester. They live in Springfield, Va. Many RIT alumni were in attendance.



Peter Mottola '07 (GCCIS) writes, "I was blessed to have numerous RIT alumni, faculty and staff present for my June 22 ordination to the priesthood for the Roman Catholic Diocese of Rochester. It's amazing what you can do with an IT degree."



Elizabeth Oberg '07, '07 (CLA) and **David Lam** are happy to announce their marriage on June 15, 2013, at the Minnesota Landscape Arboretum. They live in Minnetonka, Minn.

Lenora Reid-Rose '07 (SCB), director of cultural competence and diversity Initiatives at Coordinated Care Service Inc., was recently awarded the Cultural Competence Journey Award from the New York State Office of Mental Health. She is also the co-director for the Center of Excellence in Culturally Competent Mental Health Care at the Nathan Kline Research Institute.

2008

Lisa Hawver '08 (COS) received a Ph.D. in chemistry from Northeastern University on July 15, 2013.

Rachel (Richards) McLane '08, '09 (SCB) and **Daniel McLane** are happy to announce their marriage on June 29, 2013, in Buffalo. **Jamie (Snyder) Whitwood '08 (CLA)** and **Jenna Kilroy '09 (KGCOE)** were bridesmaids. Other alumni in attendance include **Katie Grenga '08 (SCB)**, **Brad Johnson '08 (SCB)**, **Linda (McDonagh) Johnson '08 (SCB)**, **Amanda Morehouse '08 (COS)**, **Kat Springate '09 (SCB)** and **Rick Whitwood '09 (SCB)**.

Scott Pudlewski '08 (KGCOE) accepted a position at the Massachusetts Institute of Technology Lincoln Laboratory as a technical staff member in the Wideband Tactical Networking Group. He received a Ph.D. in electrical engineering from SUNY University at Buffalo on June 1, 2012.



Stephanie Van Dyken '08 (CIAS) accepted a position at Brickyard Internet Marketing in Phoenix as graphic/Web design specialist. She was employed at NAI Horizon as marketing specialist.

Steven Zuk '08, '08 (CAST) accepted a position at Naval Facilities Engineering Command (NAVFAC) in Norfolk, Va., as a structural engineer. He recently completed two years of employment with the United States Army Corps of Engineers where he supported counterinsurgency operations while serving as the civil engineer for the Provincial Reconstruction Teams in the Khost and Gardez Provinces of Afghanistan.

2009



Udochi Okeke '09 (CLA) accepted a position at The Better Brain Center in Alexandria, Va., as neurofeedback EEG technician. "The information I learned in the RIT psychology program was

invaluable to my attainment of and excellence in this position. I have just reached my first anniversary in this position and am excited to receive a raise. I know there are great things on the horizon."

Crystal Phan '09 (NTID) expects to graduate in spring 2014 from Sierra Nevada College of Lake Tahoe with a Bachelor of Fine Arts degree in photography. She says she will be the first deaf student to walk across the stage on graduation day.

Amanda Weissman '09 (COS), '09 (KGCOE) recently graduated from Lockheed Martin's Engineering Leadership Development program and has accepted a position as a manufacturing test engineer.

2010

Bradley Butler '10 (CIAS) has been named gallery director at Main Street Arts in Clifton Springs, N.Y. For more information, go to www.mainstreetartsgallery.com.



Heechan Kim '10 (CIAS) won the grand prize at the 2013 Cheongju International Craft Biennale, a major international competition in Korea drawing submissions by nearly 1,200 professional artists from 55 countries around the world. Kim won for his work titled "#9." The honor includes a monetary award of \$50,000.

Yenory Garcia '10, '10 (CLA) was promoted to college coordinator from college adviser at Harlem Children's Zone in New York City.



Alan Mazur '10 (CAST) and **Lindsay Littman '09 (COS)** were married in July 2013. They met while attending RIT and playing for the men's and women's hockey teams in 2007.



Leif Melhus '10, '10 (KGCOE) and **Rachel (Hart) Melhus '10 (CAST)** are happy to announce their marriage on Dec. 22, 2012, in Clifton Springs, N.Y. They live in Guilford, Conn.

Francis Mule '10 (CLA) received a Juris Doctor from Northeastern University School of Law on May 24, 2013.



Jesse Muszynski '10, '10 (KGCOE) and **Carrie (Crowley) Muszynski '09 (CIAS)** are happy to announce their marriage on June 15, 2013, in Lackawanna, N.Y. They live in Depew, N.Y.

Trevor West '09 (GCCIS) and **Leigh Downes '09 (CAST)** were groomsmen, **Jenna Crawford '08 (CLA)** and **Allie Stevens '09 (CAST)** were bridesmaids and **Laura (Zelanis) Robson '07 (CIAS)**, **Tim Robson '08 (GCCIS)** and **Matt Sansone '10 (CIAS)** attended.



Ihudiya (Finda) Ogburu '10 (GCCIS) completed her 27-month commitment as a Peace Corps volunteer on Oct. 15. She will work with the government of Botswana Ministry of Health as a system analyst/developer in its monitoring and evaluation office.



Matthew Vertrees '10 (CIAS) and **Jonathan Thompson** are happy to announce their marriage on Sept. 21, 2013, in Puyallup, Wash. They live in Auburn, Wash.

Graduate builds successful furniture career



Provided photos



Adam Rogers '10 is the product manager for Thos. Moser Cabinetmakers. His first furniture line, called the Element Collection, was introduced this summer and won an award.

Adam Rogers '10 (furniture design) was working as an interior architect when he realized he wanted to actually make the things he was designing.

He set aside his architecture degree and five years of work experience and enrolled in RIT's furniture design MFA program.

"I threw caution to the wind and committed to this life of making things from wood," Rogers says.

The plan worked. Furniture he designed recently won a silver award in the Best of NeoCon competition. NeoCon is the country's largest tradeshow for architecture and design professionals and features thousands of products and resources from more than 700 showrooms and exhibitors.

Rogers is the product manager for Thos. Moser Cabinetmakers, a company based in Auburn, Maine, which makes American-designed, engineered and built products. Rogers began working for Thos. Moser right after graduation. He started in custom design and his job evolved into new products and product design. He now manages the process for all new products and the Engineering Department.

His first furniture line, called the Element

Collection—featuring a desk/table, credenza/filing cabinet, coffee table, hall table, and bench—was introduced at NeoCon in June. It is the first time Thos. Moser has launched a product designed by someone outside of the Moser family.

Rogers says the joinery he learned at RIT and cut by hand is now being made on a large scale in this collection. He credits his education for helping him land the job at Thos. Moser.

Last school year, Rogers worked with eight RIT students on a collaborative project to design a stool for the Moser furniture line. Rogers checked in with the students every few weeks using Skype. He made Moser experts available to talk to them along the way, provided critiques and then visited in May to see their final products.

Rich Tannen, a professor of furniture design in the School for American Crafts, says that the formal documentation of the students' designs was exhibited in May during Design Week 2013 in New York City.

Tannen says the project—and Rogers—inspired the students. "He is really doing what he hoped to be doing after graduation," Tannen says. "He's a great success story."

Mindy Moser

2011



Liliya (Plotkina) Beckett '09 (CIAS), '11 (CLA) and Stuart Beckett '07 (GCCIS) are happy to announce their marriage on May 18, 2013, in Mendon, N.Y. They live

in Rochester. The bridal party included Gil Ong '02, '05 (SCB), best man, and Jamie Langley '11 (CLA), bridesmaid. Liliya accepted a position at Rochester Museum and Science Center as development associate. She was employed at First Niagara Benefits Consulting as marketing coordinator.



Elizabeth Day '11, '11 (KGCOE) and Cody Willmart '11 (KGCOE) are happy to announce their engagement.



Michael Dobbins '11 (CAST) achieved the professional credential of Certified Hazardous

Material Manager, which is accredited by the Council of Engineering and Scientific Specialty Boards.

David Pearson '11 (GCCIS) received a Master of Science in information security technology and management from Carnegie Mellon University on May 19, 2013. His thesis topic was synchrophasor GPS security.



Sarah Mooney '11 (CIAS) and Brian Treich '12 (GCCIS) are happy to announce their engagement. The wedding ceremony will take place on March 15, 2014. They met and started dating as freshmen at RIT in 2007.

2012

Sanket Gohil '12 (GCCIS) was named Web technology specialist for Development and Alumni Relations at RIT. He started in the department two years ago as a part-time student worker and progressed to the full-time position.

Alumni Updates



Alesha May '12 (NTID) and Stephen Nichols are happy to announce their marriage on June 10, 2013, in Savannah, Ga., where they live. They were expecting their first child in October.



John Mullane '12 (GCCIS) and Amanda Diebel are happy to announce their marriage on Aug. 18, 2012, in Lockport, N.Y. They live in Yorktown, Va.

Mullane accepted a position at NASA Langley Research Center in Hampton, Va., as system administrator for the Air Traffic Operations Laboratory. He was employed at Mac Source Communications as Systems Engineer.



David Mullaney '12 (GCCIS) and **Teraisa Chloros '11** (GCCIS) are happy to announce their engagement. They met as members of the RIT Student Government and worked together

as resident advisors. Mullaney works for iCardiac Technologies in Brighton, N.Y., and Chloros began a Ph.D. program in health services research and policy at the University of Rochester.

Roy Peterson '12 (CLA) is attending the Community College of Beaver County Police Academy in Pennsylvania. He will graduate in December.



Sadie (Flow) Strassner '12 (CIAS) and Daniel Strassner are happy to announce their marriage on Sept. 7, 2012, in Varysburg, N.Y. They live in Boston.

2013

Kate Macken '13 (CLA) has been awarded a 2013 Thomas R. Pickering Graduate Foreign Affairs Fellowship. Fellows receive financial support toward a two-year, full-time master's degree program in fields such as public policy, international affairs and public administration. Upon the completion of their master's degree, they commit to three years of service as a Foreign Service Officer.

Romancing the stone with Zariin jewelry

Move over David Yurman and Harry Winston—Zariin is the new avant-garde jewelry collection making waves across the globe.

Playful, bold and imaginative, Zariin's signature pieces of cuff bracelets, wrap and knot necklaces, tiered earrings and sculpted rings are set in lush 22-carat gold or sterling silver plating and enhanced with a vivid Crayola-palette of raw gemstones.

Founded just three years ago in New Delhi, India, Zariin is the brain-child of Mamta Gupta '03 (MBA) and her sister Vidhi—who were inspired by their cultural roots and their passion for fashion and design.

"I have always wanted to do my own thing—to start something from scratch and grow it from there," says Gupta. "So even as an international student at RIT, my long-term goal was to take the entrepreneurial plunge. I found the co-op program to be a good bridge from knowledge to application in the real world."

Zariin's founders and their jewelry line have been featured in *Harpers' Bazaar*, *Elle*, *Vogue*, *Cosmopolitan*, *Grazia* and *Conde Nast Traveler* magazines. Pieces from the collection are sold in 300 retail stores in more than 19 countries and are available for purchase in the U.S. on Amazon.com and at boutiques like Anthropologie.

The sisters are self-taught designers and employ a team of artisans to ensure flawless execution of concepts, from trending, sketching and designing to sampling. At the heart of their inventiveness is the tonal mix of stones (say, a pink quartz with a smoky topaz), which widens the opportunity to create some very eye-catching and sophisticated pieces.

"Zariin means 'golden' in Persian," explains Gupta. "Our rough, uncut stones wrapped in crushed gold lends our jewelry a unique and identifiable look in the global fashion arena. We have been worn by many on the Bollywood A-list like Sonam Kapoor and Soha Ali Khan, and celebrities like Kelly Rutherford of *Gossip Girl* fame and the stars of *All My Children*."

Gupta says fashion-forward women would find the jewelry line to be all-occasion wear. While subdued earrings could be a great start to the day, a statement cuff or a cocktail ring makes a great conversation piece at a brunch or dinner—and with a change into chandelier earrings, one can easily be prepped for a night on the town.

"Zariin accessories can really enliven any outfit with the natural organic colors of the stones. Our collection is all about reinventing the classics in nouveau forms."



Mamta Gupta '03, left, and her sister Vidhi Gupta.



Provided photos

Marcia Morphy



Support student success. It's simple and easy.

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▼ What are the benefits for you?

- / Avoid potential double taxation.
 - Your estate may save both estate taxes and income taxes on your retirement plan assets if you designate those assets to charity.
- / Or, receive an immediate charitable deduction by transferring ownership of a fully paid up life insurance policy to RIT.
- / Avoid estate taxes by designating RIT as a beneficiary of one of your life insurance policies.
- / You decide how your gift will be used at RIT to support student success.

For more information on beneficiary designations and how you can benefit, please visit rit.planyourlegacy.org

Or, if you wish to discuss this with a member of the Planned Giving team at RIT, call or e-mail: Robert Constantine / Director of Planned Giving / robert.constantine@rit.edu / 585.475.4919

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BOOKS

Books recently published by RIT Press. To place an order, call 585-475-6766 or go to ritpress.rit.edu.



From My Seat on the Aisle Jack Garner

From My Seat on the Aisle chronicles more than 30 years of Jack Garner's experience as a nationally syndicated film critic for

Gannett newspapers. His book compiles the best of his essays, reviews and interviews with many Hollywood celebrities, including Audrey Hepburn, Clint Eastwood, Meryl Streep, Jimmy Stewart, Woody Allen and Philip Seymour Hoffman. Garner offers a unique perspective into the world of film that is humorous, anecdotal and insightful.



New Beginnings: Acquiring and Living with a Cochlear Implant Edited by Michael Stinson and Gerard Buckley

This book contains personal stories written by

deaf or hard-of-hearing individuals who have had cochlear implants. Many contributors to this book noted how their involvement in the deaf community and deaf culture influenced their perceptions of cochlear implants. The 15 authors share the agony over the decision to get an implant and the delights and disappointments in hearing with one.



Becoming Visible Jessica Lieberman

Becoming Visible brings together scholarly discussions of visibility and illness, photographs of an experience in treat-

ment for Hodgkin's lymphoma, and personal testimonial about that time. An artistic and academic contribution to the fields of trauma studies, disability studies and autopathography, this cancer journey reveals how the forces of art and narrative can contribute to social dynamics for change.

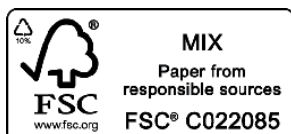
In MEMORIAM

Alumni

- 1940**
Jean W. Groh '40 (SCB), July 31, 2013
- 1941**
Richard F. Eisenberg '41 (KGCOE), Aug. 4, 2013
- 1942**
Elliott Landsman '42 (CCE), May 3, 2013
Margaret L. (Emes) Lewis '42 (SCB), June 3, 2013
- 1946**
Shirley (Anderson) Baker '46 (SCB), Aug. 11, 2013
- 1949**
D. Gordon Hollinger '49 (GAP), May 9, 2013
Robert L. Maurinus '49 (KGCOE), June 21, 2013
Robert P. Kaplan '49 (KGCOE) May 6, 2013
- 1950**
John E. Evans Jr. '50 (CCE), June 4, 2013
- 1951**
Marie E. Martel '51 (FAA), April 28, 2013
Herbert G. Stellwagen Jr. '51 (COS), May 31, 2013
Rosemarie (Rinere) Viavattine '51 (SCB), June 19, 2013
- 1952**
Allen H. Burns '52 (GAP), July 16, 2013
Ellison L. Mayer '52 (CCE), May 13, 2013
Maxine R. (Taylor) Gold '52 (SCB), May 26, 2013
- 1953**
Robert R. Rowe '53 (CCE), June 3, 2013
- 1955**
Charles W. Flemming '55 (CCE), April 29, 2013
Robert P. Schon '55 (CCE), June 19, 2013
- 1957**
Albert S. Hardies '57 (KGCOE), July 29, 2013
Robert E. Porterfield '57 (GAP), July 19, 2013
- 1958**
Carol (Maher) Monroe '58 (SCB), April 30, 2013
- 1959**
Frederick E. Pitt '59 (SCB), July 9, 2013
Robert J. Crowe '59 (GAP), Aug. 8, 2013
Daniel R. Rooney '59 (SCB), Feb. 26, 2013
- 1960**
Gordon W. Gutzmer '60 (KGCOE), April 28, 2013
Harold Vanlare '60 (CCE), July 26, 2013
Harry A. Loomis '60 (CCE), May 31, 2013
John R. Griller '60 (GAP), June 9, 2013
- 1961**
James R. Whitney '61 (GAP), Aug. 1, 2013
Ronald L. Villard '61 (GAP), June 3, 2013
Wendell H. Hutt '61 (COS), April 23, 2013
Nancy (Cole) Hosenfeld '61 (FAA), July 16, 2013
- 1962**
Anthony Reggio '62 (CCE), April 24, 2013
Harold H. Connor Jr. '62 (SCB), May 14, 2013
- 1963**
Donald G. Sundown '63 (CCE), May 16, 2013
Edward C. Deorr '63 (FAA), Aug. 2, 2013
Gordon A. Brown '63 (FAA), June 23, 2013
James C. Rigney '63 (FAA), June 17, 2013
Sheila A. Mason-Truscott '63 (SCB), May 21, 2013
- 1964**
John J. Wallace '64 (CCE), May 8, 2013
- 1966**
Charles A. Eygabroad '66 (CCE), May 12, 2013
Charles D. Krause '66 (CCE), June 5, 2013
- 1967**
Bart G. Guerrieri '67 (KGCOE), July 15, 2013
- 1969**
Edward G. Hoffmann '69 (KGCOE), July 8, 2013
Hugh B. Forsythe '69 (CCE), May 3, 2013
- 1970**
George G. Maderer '70 (CCE), '82 (CCE), May 16, 2013
Terry L. Sherwood '70 (KGCOE), June 12, 2013
- 1972**
William K. Fay '72 (CCE), May 11, 2013
- 1973**
George E. Weed '73 (KGCOE), May 10, 2013
Robert C. Hall '73 (SCB), July 7, 2013
- 1975**
Charles T. Dominici '75 (SCB), June 19, 2013
David N. Hawkins '75 (CCE), July 31, 2013
Joseph G. Heilman '75 (CCE), June 10, 2013
- 1976**
Kenneth L. Waldvogel '76 (KGCOE), April 30, 2013
Kevin J. Mulcahy '76 (SCB), July 3, 2013
- 1977**
Richard S. Elliott '77 (CAST), April 30, 2013
- 1978**
Philip J. Smith '78 (CCE), May 18, 2013
Robert A. Mathisen '78 (KGCOE), '82 (SCB), July 23, 2013
- 1979**
Milton Clair Brown '79 (CCE), June 8, 2013
Peter J. Smith '79 (SCB), July 17, 2013
Richard Clifford Neubauer '79 (SCB), July 22, 2013
- 1981**
Daryl S. Benham '81 (CCE), '83 (CCE), May 15, 2013
Harold Lewis Reitz Jr. '81 (CAST), April 29, 2013
Steven Costa '81 (CAST), June 4, 2013
- 1982**
David N. Owens '82 (KGCOE), June 11, 2013
- 1983**
Kevin Aziz Zoghby '83 (CAST), May 30, 2013
- 1984**
Kevin Michael Pulaski '84 (KGCOE), July 31, 2013
Richard P. Corey '84 (CCE), '84 (CCE), Aug. 4, 2013
- 1985**
Daniel A. Rehberg '85 (COS), June 23, 2013
- 1987**
Marie Manuse '87 (SCB), May 2, 2013
- 1991**
Carmen M. Gallo '91 (CCE), May 26, 2013
- 1994**
Mike Koziol '94 (SCB) '01 (SCB), Sept. 4, 2013
- 2000**
Michele M. Unger '00 (CAST), June 18, 2013
- 2011**
Timothy M. De Bellis '11 (KGCOE), May 8, 2013

Faculty and staff

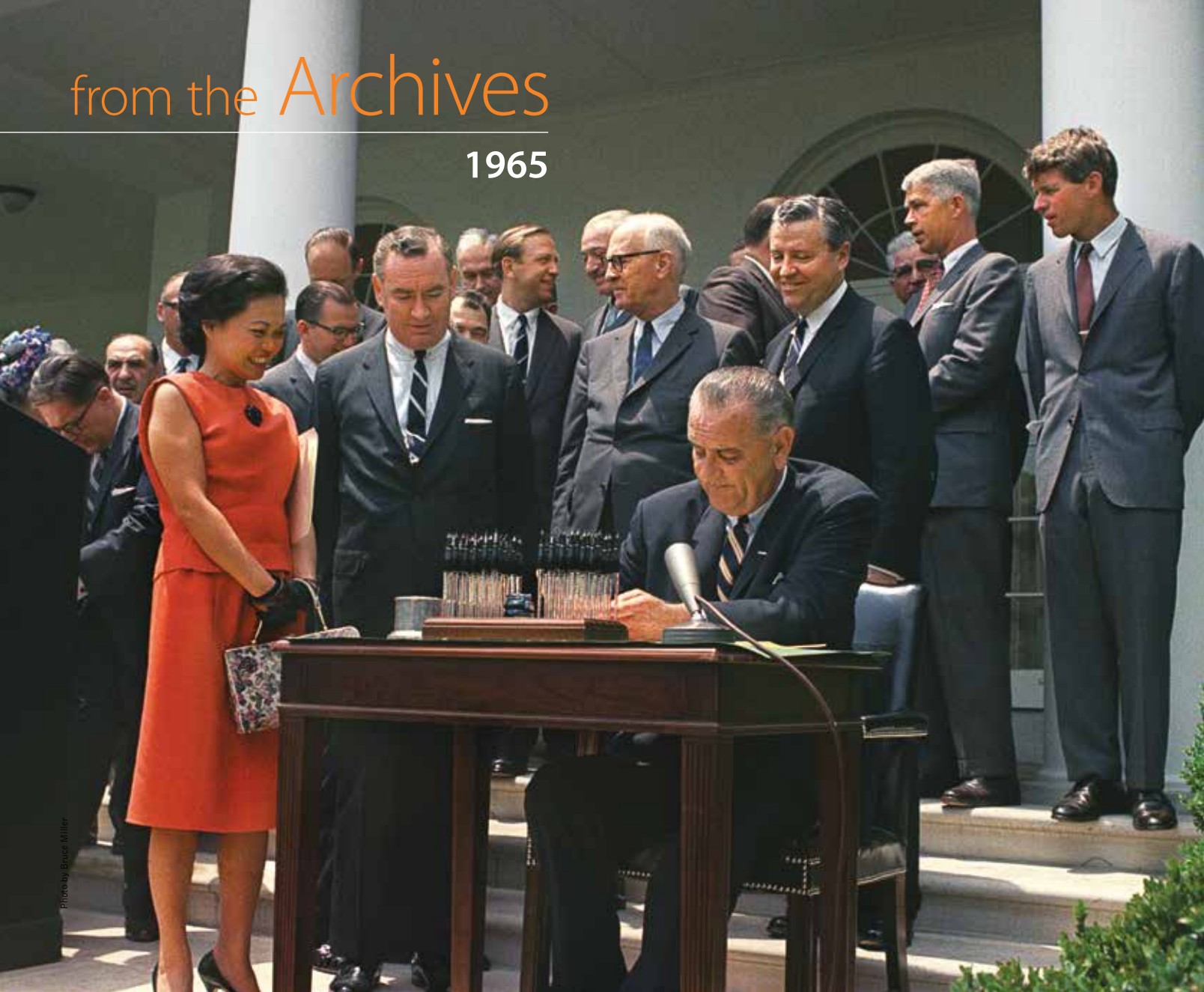
- Nora Faulkner, nurse in RIT's Student Health Center, Aug. 17, 2013
- Linda Keeney, director of communications, Development and Alumni Relations, Oct. 9, 2013
- Mike Koziol, public safety officer, Sept. 4, 2013
- Douglas Marshall, engineering professor and associate dean of the College of Engineering, 1958-1981, July 20, 2013



No. 15, November 2013

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1965



NTID supporters, including Robert F. Kennedy and Hugh Carey, stood behind President Lyndon B. Johnson when he signed the bill that established NTID.

Provided by NTID

Remembering the beginning of NTID

More than four decades ago, surrounded by colleagues and supporters, President Lyndon B. Johnson signed a law that would revolutionize technical education for the deaf community by creating the National Technical Institute for the Deaf.

The need for technical education for deaf students was discussed in 1964. After conferences and a Congressional Advisory Committee were held on the issue, bills were proposed to Congress for the creation of a

single, national technical college for the deaf.

On June 8, 1965, President Johnson signed Public Law 89-36, establishing NTID into law at a special ceremony in the White House Rose Garden.

At least two dozen universities expressed interest in housing the new institute. That number was narrowed down to eight. RIT's strong post-secondary technical education and work-study programs gave it the edge and the official selection was announced on Nov. 14, 1966.

NTID began operations at RIT in 1968 with a class of 70 deaf or hard-of-hearing students. Within six years, 500 students were enrolled.

Today, more than 1,250 deaf or hard-of-hearing students are enrolled at RIT/NTID for both undergraduate and graduate programs.

The main academic building for NTID remains Lyndon Baines Johnson Hall, dedicated in honor of the work President Johnson did for NTID and the deaf community.



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