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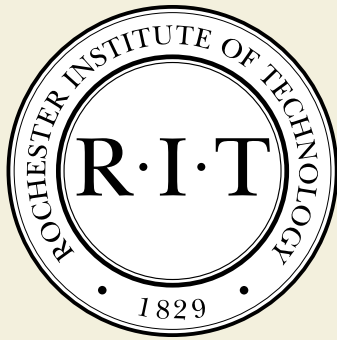
The University Magazine

Winter 2016-17

DOCTORAL U: RIT TRANSITIONS TO TOP-TIER UNIVERSITY

RIT amplifies presence in Silicon Valley

Supporting Native American scholars on campus



RIT: The University Magazine

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Photo by A. Sue Weisler

RIT President Bill Destler welcomes first-year students to campus.

FROM THE PRESIDENT

Surrounded by Greatness

Greatness. What exactly is it?
*It's expecting the unexpected.
It's answering questions before
they've been asked. And it's reaching
conclusions that change everything.
Greatness is finding new ways to design.
New ways to think. And new ways to
communicate. It's agile. It's driven.
And most of all, it is relentless.*

The above is powerful language from our new branding video, "RIT Greatness." Indeed, we have a compelling university story to tell and we are surrounded by greatness. Here are some fresh examples:

- This year's freshman class includes approximately 2,660 students, representing 47 states as well as 54 countries. The quality of this year's class, measured by grade point average, rank in class and scores from standardized tests, reached an all-time high. The mean GPA increased to 92 percent, with 38 percent of students coming from the top 10 percent of their class. Sixty-eight percent of students in the incoming class are enrolled in the STEM (science, technology, engineering and math) disciplines.
- A group of RIT students took first place in the U.S. State Department's international competition for university students to find ways to use social media to combat extremism and terrorism.
- We became the first university to publish a video game on the Xbox One gaming platform. The game was produced in a studio course offered through the internationally ranked School of Interactive

Games and Media and the RIT Center for Media, Arts, Games, Interaction and Creativity (MAGIC).

- A student team from the National Technical Institute for the Deaf won the National Association of the Deaf College Bowl academic competition for the third consecutive year and earned its sixth victory overall.
- Our sponsored research portfolio grew by 18 percent in fiscal year 2016, reaching a record \$73 million in funding. RIT received a record 358 new awards during that time period from a variety of state, federal, corporate and foundation sponsors. Included in that funding was a record \$15 million from the National Science Foundation and \$3 million from the National Institutes of Health.
- RIT is a partner on five of the eight National Network for Manufacturing Innovation centers established by President Obama to increase America's ability to compete in this crucial economic sector.

Our video goes on to state: "Greatness is creating difference—today, tomorrow, forever. Some might say RIT is on the verge of greatness. We say, we've already arrived." To see more examples, please watch the video at: <http://bit.ly/RITGreatness>.

Yours in Tiger pride,

Bill Destler, President
www.rit.edu/president

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RIT's first Alumni House will open in 2017.

Cover

Michele Bustamante received a Ph.D. in sustainability during commencement ceremonies last spring. She is now a post-doctoral researcher at Massachusetts Institute of Technology in the Materials Systems Laboratory. Bustamante was also the graduate delegate for Golisano Institute for Sustainability. (Photo by A. Sue Weisler)



Tiger pride
Students were full of spirit at the men's hockey game during Brick City Homecoming & Family Weekend. For more photos, see the inside back cover.

Photo by Ken Huth

NOTEBOOK

Diversity excellence

RIT is receiving for the third time in as many years a Higher Education Excellence in Diversity Award from *INSIGHT into Diversity* magazine.

The university is being recognized for its successful efforts in the area of campus diversity and inclusion. It is being featured, along with the other recipients, in the magazine's November 2016 issue.

Universities are judged on how historically under-represented students, faculty and staff are recruited and retained, how improvements to campus climate are addressed and on specific commitments to diversity through campus-wide programs, informal dialogues and campus resources.

Ultrasound leader

RIT was ranked among the best diagnostic medical sonography, or ultrasound, programs in the nation, according to an independent on-line ranking authority.

The College Choice of the Best Ultrasound Technician Schools ranked RIT's BS in diagnostic medical sonography No. 10 on a list of top schools that offer four-year programs in ultrasound.

Big Shot takes aim at Kodak Tower

The opportunity to "paint light" on an iconic building to Rochester and the world of photography drew nearly 3,000 people to Kodak Tower in September to help make RIT's 32nd Big Shot photograph a picturesque success.

More than 2,800 volunteers, including 250 RIT students and about 125 alumni, provided the primary light source while RIT photographers shot an extended exposure with Kodak Tower nearly completely darkened. This year's final image was a 60-second exposure at f14 (ISO 50).



Photo by RIT Big Shot team

RIT launches a MicroMasters in Project Management with edX

RIT is taking part as a leader in an innovative approach to education—the MicroMasters program of edX, the leading nonprofit online learning destination, with more than 90 global partners, including some of the world's top universities.

MicroMasters is a new category of master's-level online education that offers a pathway to credit.

The programs are designed for learners looking for in-demand knowledge to advance their careers or follow a path to an accelerated, fully accredited advanced credential.

RIT's MicroMasters in Project Management will provide learners with the knowledge and skills needed to effectively manage a team in any industry. With the program, RIT is helping to meet the demand of a growing field that sees 1.5 million new project management jobs being created each year, according to the Project Management Institute (PMI).

The graduate-level online sequence consists of three modules

and a final capstone exam, equivalent to a semester's worth of work. Those who earn the MicroMasters can then build on their work by applying to RIT's School of Individualized Study for a customized master's degree in professional studies or an advanced certificate in project management. Either degree can be completed by studying fully online or on campus.

"This is a terrific opportunity for RIT to engage with edX's more than 8 million learners and show how RIT can help them advance their careers," said Jeremy Haefner, RIT provost and senior vice president for Academic Affairs. "The MicroMasters program will allow those who might not otherwise have the opportunity to pursue an academic credential faster and at a reduced overall cost."

The RIT MicroMasters consists of modules in Project Management Lifecycle, Best Practices for Project Management Success and International Project Management. The program is 32 weeks of instruction over a 45-week period with the

first modules beginning in January.

While developing the new MicroMasters program, edX and RIT consulted with industry leadership to understand their challenges, both in hiring and developing a smarter, more capable workforce. Leadership expressed a need for project managers who can talk the language of both the customer and the engineer.

Fourteen universities around the world are offering MicroMasters in other areas of study, including MIT, Columbia University, University of Michigan, Thunderbird School of Global Management at ASU and Indian Institute of Management Bangalore.

Scott Bureau '11, '16

To register

More than 8,000 people have already registered for RIT MicroMasters modules. More information can be found at rit.edu/ritonline.

Global Day of Service sees success

More than 250 RIT alumni across the globe—as well as students, faculty, parents and staff—joined together on one day to volunteer for service projects in their communities.

RIT Global Day of Service took place on Sept. 17, when members of the RIT family participated in service projects at 26 spots around the U.S. and at six international locations.

In Rochester alone, nearly 90 volunteers gathered at three different locations including Foodlink, Ronald McDonald House and the George Eastman Museum.

Kelly Redder, assistant vice president of RIT for Life and

director of the RIT Alumni House, said that she was impressed with the day's turnout. Redder also oversaw the success of the Global Day of Service predecessor program, RIT Cares, in 2015.

"So many students, alumni and parents came together, giving up their personal time to make a big difference," she said.

Outside of Rochester, nearly a dozen volunteers gathered at the Ronald McDonald House in Washington, D.C., and Denver and San Francisco both brought alumni together to work at neighborhood foodbanks.

International events saw equal success, including a strong showing



Volunteers worked at the George Eastman Museum on RIT Global Day of Service.

in Mumbai, India, where volunteers taught art classes to underprivileged kids, and Zagreb, Croatia, where alumni worked with orphans.

The next RIT Global Day of Service will be held in fall 2017.

Lauren Peace '17

NOTEBOOK

CMO appointed



RIT has chosen John K. Trierweiler to be vice president

and chief marketing officer, Marketing and Communications, a new position for RIT.

Trierweiler, who has more than 30 years of experience in marketing and advertising, is responsible for creating and implementing a coordinated marketing and branding strategy.

New online courses

RIT is helping to fill the nation's gap in security professionals with new online courses aimed at teaching enterprise security policy and management.

The five online courses will provide students with the critical thinking, problem solving and ethical reasoning skills needed to develop policies and manage organizations for enterprise security. For details, go to rit.edu/ritonline/espm.

First to publish

RIT is the first university to publish a video game on the Xbox One gaming platform.

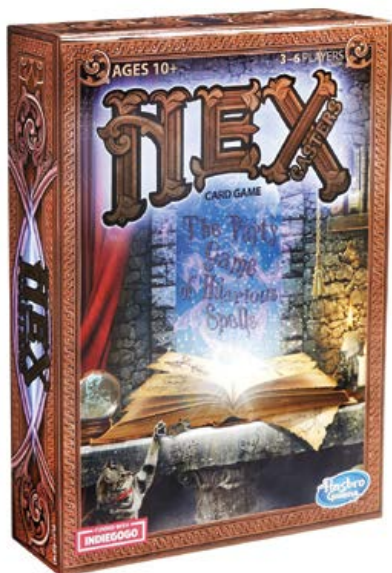
Hack, Slash & Backstab was produced in a studio course offered through the School of Interactive Games and Media, and the RIT Center for Media, Arts, Games, Interaction and Creativity (MAGIC). The game is also available on the Steam platform and the Humble store.

About Students



Students participated in Mud Tug on Sept. 17. In the annual event, teams of 10 compete in a tug-of-war tournament over pits of mud to raise money for charity.

Hasbro licenses student card game



Hex Casters, the card game created by five RIT students for a project in their game design and development class, has been licensed by Hasbro and is available on Amazon for \$14.99.

Last November, the four game design and development students—Douglas Mansell, Norman Greenberg, Tom Smith and Samuel Sternklar—and Alex Bogart, a software engineering student, submitted their game, originally named Hexes!! The Card Game, for a chance to win the top prize of the national Hasbro Gaming Lab and Indiegogo “Next Great Game” contest.

Although the team raised more than \$7,000 on a crowdfunding site as a stipulation of the contest, they didn’t win the grand prize.

Fortunately, Hasbro representatives remained interested in producing the game and it officially launched on Amazon in September.

The students own the intellectual property for the game.

Greenberg, a fourth-year student from West Long Branch, N.J., is the team’s design lead.

“Our goal from the beginning was always to get our game into the hands of as many players as possible,” said Greenberg. “Even if we didn’t earn a dime, we just wanted people to have access to the game.”

Launching this game was a full-time job in between taking classes for the students. Greenberg said that while digital games are popular, he believes that face-to-face games are making a comeback.

“At the end of the day, we’re all graduating with a published game under our belts,” he said. “It’s just unbelievable. We just really want people to love playing our game.”

Vienna McGrain '12



Photo by Michael Owens

Team wins sixth Deaf College Bowl

A student team from RIT's National Technical Institute for the Deaf has won the National Association of the Deaf College Bowl academic competition three times in a row, and earned its sixth victory overall.

Held at the biennial NAD conference since 1988, the College Bowl is a four-day question-and-answer academic competition with topics as varied as literature, science, mathematics, history and current events. The event, which brings together deaf contestants from top colleges and universities serving deaf and hard-of-hearing students, regularly draws more than 1,000 audience members to the finals.

Teams of four students from

each school vie for the trophy and scholarships for their respective colleges. In addition to RIT/NTID, teams at this year's competition held in Phoenix were from California State University-Northridge, Gallaudet University and the University of Minnesota.

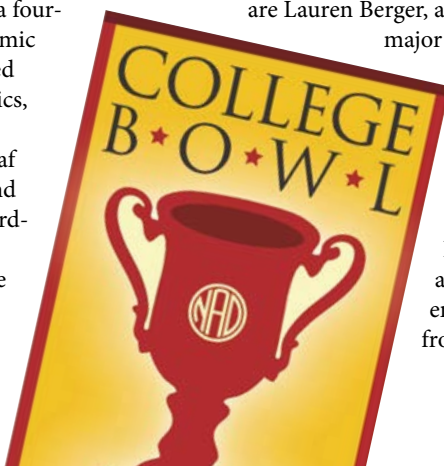
The winning RIT/NTID team members are Lauren Berger, a psychology major from Rochester, N.Y.; Eric Epstein, a software engineering major from Tucson, Ariz.; Asher Kirschbaum, a mechanical engineering major from Washington

Grove, Md.; and Emmanuel Perrodin-Njoku, a biomedical sciences major from Washington, D.C.

The team worked with co-coaches and RIT/NTID faculty members Christopher Kurz and Gary Behm to prepare for the competition.

"The entire RIT/NTID community is so proud of our College Bowl team for bringing the trophy back to campus for another two years," said Gerry Buckley, NTID president and RIT vice president and dean. "Lauren, Eric, Asher and Emmanuel did an extraordinary job against fierce competition. They are carrying on a great tradition, and it was wonderful to have so many of our students, faculty, staff and alumni in the audience cheering on our students."

Vienna McGrain '12



NOTEBOOK

Record funding

RIT's sponsored research portfolio grew by almost 18 percent in fiscal year 2016, reaching a record \$73 million in funding.

RIT received a record 358 new awards during that time period from a variety of state, federal, corporate and foundation sponsors. Included in that funding was a record \$15 million from the National Science Foundation, an increase of \$2 million, and \$3 million from the National Institutes of Health.

"We continue to grow RIT's reputation as a research university," said Ryne Raffaele, RIT's vice president for research and associate provost.

CAREER award

Amlan Ganguly, associate professor of computer engineering, received a CAREER Award from the National Science Foundation, the seventh RIT faculty member to do so in the last three years.

CAREER awards support faculty who are early in their careers and exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.



Photo by A. Sue Weisler

Denis Cormier, left, shows doctoral students Pritam Poddar and Chaitanya Mahajan a mock-up of an engine part, color coded to reveal areas of material weakness that could be stressed, allowing engineers to design reinforcements before manufacturing.

Center raises the bar on 3D printing

3D-printed circuit board patterns processed in milliseconds and using a fraction of the electricity.

Flexible solar cells that can be integrated into wearable technologies. An inner-ear drug delivery system consisting of small, powerful 3D-printed sensors.

This is some of the work underway at the New York State Center for Advanced Technology in Additive Manufacturing and Multi-functional Printing, or AMPrint Center, which officially opened in RIT's Institute Hall in October.

The center brings together university and corporate researcher-scientists to advance two industries that the region is noted for—printing and imaging—in a way that will significantly impact manufacturing in New York state and the nation.

"The vision for this center is to be at the forefront of creating the next generation of 3D-printing technologies, materials and applications," said Denis Cormier, the Brinkman Professor in RIT's

Kate Gleason College of Engineering and director of the new center. "That can take the form of new technologies invented here or through partnerships with really innovative companies."

For RIT, the center offers the opportunity to conduct groundbreaking research, while also training students as the next generation workforce. Corporate partners will have access to research and development to drive their businesses.

The state is investing in an industry that is experiencing growth. According to Wohler's State of the Industry Report, 2016, the additive manufacturing industry, consisting of all additive manufacturing products and services worldwide, grew 25.9 percent to \$5.165 billion in 2015.

Defined as the process of developing single products using a variety of materials with different conductive properties, multifunctional 3D printing opens the door for a wide variety of products to be made faster, stronger and less expensively.

"If I print a copper circuit, that's an electrical function," Cormier said. "If I print a heater, like the heaters on the back of your windshield, that's a thermal function. You can print clear materials in a lens, or with magnetic properties. Or you can use biological materials for imprinting living cells for tissue engineering."

A consortium of universities and corporations led by RIT was awarded the designation as a Center of Advanced Technology by NYSTAR, a division of NYS Empire State Development in September 2015. The designation is for a 10-year period, renewable, based on performance, and includes funding of \$921,000 per year to support the center's research and industry outreach efforts.

The center was also awarded \$500,000 from the state's Higher Education Capital Matching Grant Program, which was used toward building the lab. Xerox Corp. also joined as a founding partner of the center.

Michelle Cometa '00

Undergraduates working with NASA

A team of RIT undergraduates is making a “compass” for rockets using a new kind of detector that will fly on a NASA technology demonstration mission in December.

The students are designing, building—and deploying—a telescope and camera that will orient the rocket payload based on the images of stars. RIT’s Cryogenic Star Tracking Attitude Regulation System is funded by a \$200,000 grant from NASA’s Undergraduate Student Instrument Project Flight Research Opportunity program. The NASA program is designed to give undergraduates experience developing and flying experiments relevant to NASA’s mission.

RIT professor Michael Zemcov proposed the experiment to test detectors made of metal-oxide semiconductor, or CMOS, a promising new material that can operate at liquid nitrogen temperatures, minus 320 degrees Fahrenheit. These cryogenic temperatures can significantly reduce dark current in the sensor and increase instrument sensitivity. In contrast, the standard technology used in astronomical imaging and in consumer electronics—charge-coupled detectors, or CCDs—is inoperable at cold temperatures.

RIT’s prototype represents a step toward a fully cryogenic optical detector that someday could improve the sensitivity of NASA’s deep-space cameras, said Zemcov, assistant professor of physics at RIT. The star tracker will fly in a technology demonstration payload on a suborbital sounding rocket that will launch in December from NASA’s Wallops Flight Facility on Wallops Island, Va., with experiments from other universities and NASA laboratories. Sounding rockets are cousins of military ordnance, like surface-to-air missiles, which fly to an altitude of approximately 200 miles, and represent an affordable way to conduct science experiments in space.

Following a successful initial

flight, a second RIT-built instrument will fly on a NASA rocket experiment to measure the light from faint and distant galaxies. The Cosmic Infrared Background Experiment 2, or CIBER-2, is led by the California Institute of Technology. Zemcov is a member of RIT’s Center for Detectors and the Future Photon Initiative and a co-investigator on CIBER-2.

“We needed to build a star tracker for this science payload,” Zemcov said. “The problem is that most of the detectors we have don’t work at the cold temperatures we require.”

The RIT student team brings the specialty of several disciplines to the project. Everyone has a job: Kevin Kruse, a fifth-year BS/MS electrical engineering major from Port Jefferson Station, N.Y., is the electrical engineer and team leader; Chris Pape, a third-year student in the BS/MS program in mechanical engineering technology/mechanical and manufac-

turing systems integration from Douglassville, Pa., is the mechanical engineer; Benjamin Bonder, a fifth-year BS/MS electrical engineering major from Geneva, N.Y., is the computer engineer; Poppy Immel, a fifth-year BS/MS dual-degree major in computational mathematics and computer science from Castleton, Vt., is the computer scientist; Matthew Delfavero, a third-year physics major from Annapolis, Md., is the physicist; and Hyun Won, a fourth-year international business student born in South Korea and who grew up in Ann Arbor, Mich., is the project manager. Most of the students are using the project as co-op experience.

“The aim is to control this sensor and make it work at cold temperatures,” Kruse said. “Then we’ll launch it into space to take pictures. A future mission would involve us guiding the rocket using the images we take.”

Susan Gawlowicz '95



Assistant Physics Professor Michael Zemcov, center, works with BS/MS electrical engineering majors Benjamin Bonder, left, and Kevin Kruse in the Center for Detectors. The students are building a star-tracking telescope.

NOTEBOOK

\$4.2 million grant

The Upstate New York Alliance for Entrepreneurial Innovation—a partnership of Cornell University, RIT and University of Rochester—has been awarded \$4.2 million from the National Science Foundation Innovation Corps Program to lead entrepreneurship and commercialization support programs targeted at the scientific community through an NSF I-Corps Node site at Cornell.

The grant will allow the UNY Alliance to capitalize on the partner universities’ research to support innovative science, technology, engineering and mathematics-related pursuits throughout the state.

New antibiotics

A professor has received a federal award for research that could help in the critical battle to develop new drugs to combat the drastic rise in the number of antibiotic-resistant bacteria.

André O. Hudson, associate professor in RIT’s Thomas H. Gosnell School of Life Sciences, has been awarded a \$436,989 Academic Research Enhancement Award from the National Institute of General Medical Sciences. The grant will be used to fund research at RIT into the efficacy of using the DapL enzyme as a target in the creation of new narrow-spectrum antibiotics to help combat antibiotic-resistant bacteria.



FUTURE STEWARDS PROGRAM GROWS COMMUNITY OF NATIVE SCHOLARS

Native Americans make up only 1 percent of college students in the U.S. and are often the first in their families to go to college. Naomi Lee was in that 1 percent.

Accepted at several universities, Lee chose RIT for its academics and proximity to family on Cattaraugus Indian Reservation near Buffalo, N.Y. She excelled in science as an undergraduate and continued in graduate school at the University of Rochester as a biomedical research assistant. Today, Lee '05

(biochemistry) is a post-doctoral researcher of molecular genetics and microbiology at the University of New Mexico.

It took some time for her to accept that her identity as a Native American was equally bound to her identity as a scientist and leader.

"When I started studying science in college, I didn't consider myself a 'Native woman in STEM.' I didn't think I was smart enough, or good enough or even Native enough, since I am only half," said Lee (Seneca Nation).

She came to RIT just before the university

formally launched its Future Stewards Program, an academic and cultural program for Native American students. But when she met Jason Younker (Coquille) and Paul Shipman (Cherokee), RIT faculty and Future Stewards Program founders, as they informally gathered Native students together, she became part of a community of Native scholars on campus where one had not existed before.

Going into its 10th year, the Future Stewards Program is the reason why RIT is recognized as one of the top schools in



Honoring the past and preparing for the future

New students in RIT's Future Stewards Program joined program staff and current members at the start of fall semester for the annual Longhouse Overnight and Day of Service event held at Ganondagan State Historic Site. Front row, left to right, are: Avinash Sonilal; Jeremy Hall; Jaelyn Sanchez; Nicole Scott, program co-director; Anna-Lucia Jacobson; Megan Wise; Paola Vega; and Bradley Loranger. Back row, left to right, are: Cianna Hall; Jenna VanStrander; Tiffany Cable; Bruce Jones; Nicolette Barcer; Brianna Hall; Jeffrey Burnette, program co-director; Elizabeth Lawrence; Jean Patrick Kayembe; Evan Rosenberg; Alicia Lazore '15, guide at Ganondagan; and Cooata Pauling.

Photo by A. Sue Weisler

the country for Native American students. Through the program, Native scholars are recruited to RIT, supported while on campus and encouraged to be active in the future of their tribal communities.

Lee would go on to help found RIT's Native American Student Association and forge connections to the American Indian Science and Engineering Society, a national organization focused on increasing representation of American Indians and other indigenous people in STEM careers. She is also an Army National Guard captain training future officers.

"As I got older, even once I began considering myself a Native woman, I thought of my identities as separate. I finally consider myself a Native female scientist. To me that means having the cultural knowledge and scientific training to help my people," she said. "Once I

understood who I am and what I am capable of doing, my career trajectory completely changed for the better."

Starting the program

When Younker and Shipman started the program in 2007, they drew upon their knowledge of American Indian communities and their own experiences in college.

What they also recommended, and what became Future Stewards' distinguishing feature, was a commitment to reach out to tribal leaders before recruiting students, recognizing individual nations and aligning college degrees with specific needs of tribal communities.

"There are Native American programs all over the country, but none going to the lengths the Future Stewards Program had in deciding that the university president

would approach tribes as governments," said Younker, who was an associate professor of anthropology in the College of Liberal Arts until 2014. "That's the big thing. That's what helped solidify our place in the world because no other institution focused on the respect of tribal sovereignty first."

Awareness of tribal nations—especially the importance of family, influence of tribal elders, connection to the past and responsibilities for the future—is essential, said Younker, currently assistant vice president and adviser to the president of the University of Oregon for tribal relations. Approaching tribal leaders for support meant they could be influential in recruiting prospective students.

Younker and Shipman assembled a team that included Nicole Scott (Navajo), now program co-director; Nizhoni Chow-Garcia (Navajo), former research associate; and Jef-



After graduating from RIT, Naomi Lee '05 received her Ph.D. from the University of Rochester and continued studies in the bioethics department and viral immunology section of the National Institutes of Health. Today, she is immersed in the field of molecular biology as a post-doctoral fellow at the University of New Mexico.

frey Burnette (Onondaga), co-director and economics faculty member.

The first RIT group in 2007-08 consisted of 32 students. Some had not met on campus until Younker and Shipman reached out to them.

The program grew in status quickly. In 2010, RIT received national recognition from *Winds of Change* magazine as one of the top schools in the U.S. for Native American students. The ranking looked at admissions selectivity, retention and graduation rates and connections to regional American Indian communities.

RIT continued to receive that recognition in the years that followed, including this fall. In addition, students led efforts to become more visible on campus, especially within Student Government and by starting campus chapters of national Native American associations.

Today, more than 180 students have participated.

The Future Stewards Program also focuses

on increasing the number of Native American students in science, technology, engineering and mathematics (STEM) programs. They earn just under 1 percent of STEM degrees, according to the National Science Foundation. Engineers, environmental scientists, doctors and others with expertise in technical careers are key to sustaining tribes' economic health without losing sight of culture.

STEM support came from RIT faculty-scientists Jane Doctor (Tonowanda Seneca), who supported students from the National Technical Institute for the Deaf, and Roger Dube (Mohawk), who helped lead research studies and mentored students looking to attain graduate degrees.

Robbie Jimerson (Seneca), a computer science doctoral student in RIT's B. Thomas Golisano College of Computing and Information Sciences, is using his education to preserve the Seneca language. As part of the Seneca Language Revitalization Project, a collaboration between the Seneca Nation of Indians and the Future Stewards Program,

he built a web-based dictionary and reference guide for future generations to learn and speak the Seneca language.

A resident of the Cattaraugus Indian Reservation, Jimerson also serves as a board member of Seneca Holdings, a financial management corporation. The role, as part of the economic leadership of the tribe, aligns with his work to preserve the traditions of his nation. It is a great responsibility, he said, but one that is both expected and welcomed.

The next generation

Future Stewards was able to address many of the barriers American Indian students have in completing college, including overcoming loneliness and lack of community, limited financial support and viewing college as intimidating, despite being well-qualified academically.

Program co-directors Scott and Burnette start getting prospective students comfortable with a college setting early by hosting middle-school and high-school-age students from

regional tribes at RIT throughout the year.

Brendan John came to RIT for one of those tours in 2010 when he was in high school. He saw two things—a place to learn more about computers and a community of other Native students.

“I saw I wasn’t going to be the only Native student here. It’s pretty hard with RIT being such a large school, it could be intimidating,” said John (Seneca). Attending high school on the Cattaraugus Indian Reservation, his graduating class numbered 100. “There are single classes at RIT with more people than that.”

A year later as a student at RIT, he joined the Future Stewards Program, held several leadership positions and was mentored as an undergraduate by Dube, research professor in the Chester F. Carlson Center for Imaging Science.

“I started research really early, just after my second year,” John said of his work in eye-tracking for image analysis. “I would not have known about these things or been encouraged to pursue them if not for Roger.”

Currently John is on co-op at Intel in Portland, Ore., and will graduate in May with a BS/MS degree in computational mathematics/computer science.

He hopes to get his Ph.D. in computer science and one day become a professor. He would like to build a similar program wherever he teaches.

“It’s that final part of the circle,” said John. “You start at the beginning as a student, become a more senior student, then finally graduate and move on to the next stage of your life.”

Sharing their culture

The Future Stewards Program not only educates participants about their cultures but, with help from RIT’s Office for Diversity and Inclusion, includes programming to educate the entire university. During Native American Heritage Month in November, for example, the campus celebrates the richness of Native communities through speakers, artists and dance.

At the Imagine RIT: Innovation and Creativity Festival, students and tribal representatives share arts, perform dances and music and provide participants the chance to learn more about regional tribes.

Career and culture are intertwined for Alicia Lazore ’15 (environmental management, health and safety). She came to RIT to study environmental science after participating in a field work exploration program in high school.

As an undergraduate at RIT, she ventured

to Costa Rica to help conduct water quality studies through the Native American Pacific Islander Research Experience, but also volunteered on environmental projects at Ganondagan State Historic Site.

The volunteer work turned into a full-time job. After graduation, Lazore became a guide at the site and works with new Future Stewards students, helping with the program’s annual Longhouse Overnight and Day of Service in the fall, sharing stories of the site and the influence of the Haudenosaunee. It was a way for her to have a career and make way for the next generation.

“I had no idea I’d be doing this. It was not the path I envisioned, but I always wanted to have closer ties with my culture, and this job does exactly that,” said Lazore (St. Regis Mohawk), who grew up in Syracuse, N.Y. “They saw something in me. The whole experience at RIT and in the Future Stewards Program helped me become a better communicator. It helped me prove that I was capable of a lot more than what I had thought.”

Michelle Cometa ’00

Peter Jemison has acted on behalf of the Seneca Nation as special adviser to RIT’s president. He has performed at Imagine RIT: Innovation and Creativity Festival as part of the Allegany River Dancers.

Brendan John is an undergraduate computing major intent on becoming a university professor. He hopes to start a Future Stewards Program wherever he one day teaches.

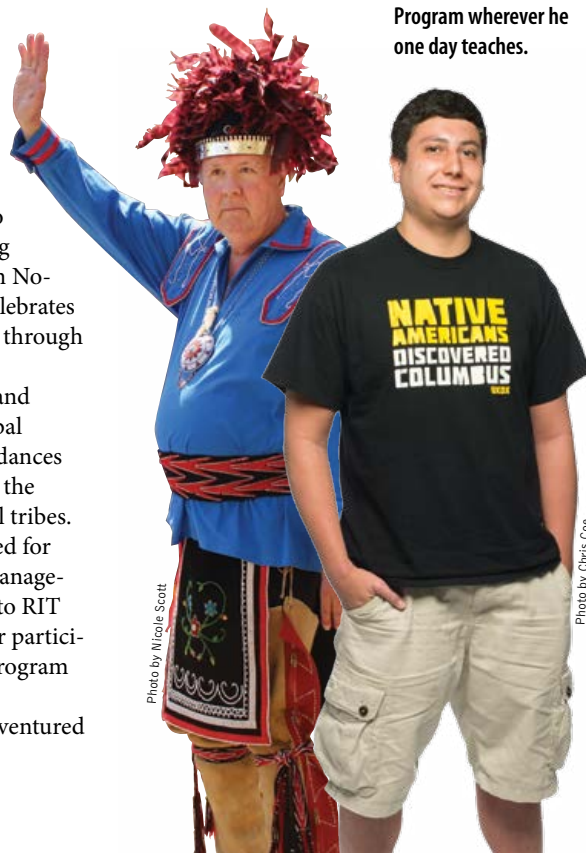


Photo by Nicole Scott

Photo by Chris Coe

Leader influences RIT’s connections to Native American community

What many at RIT know of the Haudenosaunee (*hoe-dee-no-SHOW-nee*) and Ganondagan State Historic Site is because of Peter Jemison, the acclaimed artist and educator, a member of the Heron clan and a *Faithkeeper* for the Seneca Nation.

During the 2007-08 academic year, Jemison became RIT’s first Native American Minett Professor and taught a course about New York Native Americans, highlighting one of the most influential of those communities, the Haudenosaunee, known also as the Iroquois Confederacy. Consisting of the Seneca, Mohawk, Onondaga, Oneida, Cayuga and Tuscarora—its democratic principles are the basis for the U.S. Constitution. Its recognition of women as leaders also inspired suffragette principles adopted by Susan B. Anthony.

Jemison has shared the history of Ganondagan, a major 17th century Seneca town in Victor, N.Y., where he is manager of the national site; performed with the Allegany River Dancers at Imagine RIT: Innovation and Creativity Festival; and worked with RIT’s School of Film and Animation, Friends of Ganondagan and Garth Fagan Dance to create a film featuring Haudenosaunee actors depicting the Iroquois creation story. His artwork can be found in museums around the country, including the Seneca Art & Culture Center on the Ganondagan site.

Jemison will continue his influence as RIT’s first Special Adviser to the President on Native American Issues and Partnership with Tribal Organizations, to help encourage more partnerships between the Native American community and RIT, and to help make higher education more attractive to Native American scholars.

Anne R. Haake

Education

Anne Haake received a bachelor's degree in biology from Colgate University and a master's and Ph.D. in developmental biology from University of South Carolina. She was a postdoctoral fellow at the University of Rochester School of Medicine & Dentistry. She also completed the master's in software development and management at RIT, while on the faculty at the University of Rochester School of Medicine & Dentistry.

Academia

At RIT, Haake has served in interdisciplinary curriculum development roles for several programs, including bioinformatics, medical informatics, the Ph.D. in computing and information sciences and the human-computer interaction master's program.

Research

She has been a leader in interdisciplinary research, as principal investigator of National Science Foundation and National Institutes of Health-funded research and as a mentor for undergraduate and graduate student research. In 2012, she was named RIT's first National Science Foundation Expert in the foundation's Division of Biological Infrastructure and served as a program director for the division.

Anne R. Haake became dean of the B. Thomas Golisano College of Computing and Information Sciences on April 1. She had been serving as interim dean since July 2015. The appointment made her the first female dean of the college, home to RIT's School of Interactive Games & Media and computer science, information sciences and technologies, software engineering and computing security departments. Here she talks about her background, research experience and plans for the college.

I grew up in Scottsville, N.Y., and my dad was the Scottsville town doctor. I went to Colgate University and studied biology. I was always interested in life sciences.

I got inspired by a faculty member who gave me an opportunity to work in a lab. He studied a fungus that threw its spores. One job was measuring how far these spores went. He also had me doing some biochemistry.

I have always loved school and I wanted to be a professor. That was probably my motivation to go to graduate school, rather than just research, because that's the way you get to be a professor. You go get a Ph.D.

I went to the University of South Carolina. I did both my master's and Ph.D. studying feather and scale development in chickens that had a mutation. It's called the scaleless mutant chicken. That's the power of genetics. You study something that is abnormal and that helps reveal the normal process.

We moved back to Rochester in June 1986 and I was an instructor and fellow at the University of Rochester Medical School. I was in the department of dermatology, getting more into understanding human skin development and disease. I was there 14 years.

The late '80s to '90s were when molecular biology really took off—genomics and gene sequencing, along with the Internet. That's really what made me do a master's part time at RIT in the information technology department. Biology was one of the first to become a digital information science because the genome is essentially

strings of characters that carry information. Computing became very important.

I had just finished my degree and I got an opportunity to adjunct here. The thing that was really interesting to me was the whole area of human-computer interaction because it is very scientifically based. Say, for example, you are designing systems for biologists or doctors, you still have to understand their point of view in order to design well. I never wanted to leave behind everything I had done. I was looking for ways to combine it.

IT hired 11 people in 2000. I knew I wanted to do something different, so I applied and got an interview, gave a seminar on my ideas for bringing computing into life sciences and I got offered the job.

I wanted to do more computing research, so I did a mini-sabbatical at the NIH in 2007-08. I did two months at the National Library of Medicine, and I worked with the communications engineering branch. I went to work with a group that works on images and trying to retrieve biomedical images and make them useful for doctors and scientists. I helped them out with their user-interface design and usability studies of that. That brought the biomedical back to the computing.

Being a dean was never in my game plan. I tell my kids—always have a plan B. You never know what the next opportunity will be, and it's good to be prepared.

Part of our mandate is to grow our research. GCCIS faculty and students are engaged in interdisciplinary research in cybersecurity and personalized health care technology, and we also have research emphasis in computing for accessibility, computing education and computing theory, among others.

Another area of focus is diversifying all of our programs. We have already made great strides with women in computing.

My primary approach is to be collaborative and to enable the people in the college to reach their best. I like to find opportunities for people. I like to put things together and find who can do it.

Anne Haake is the dean of the B. Thomas Golisano College of Computing and Information Sciences.





RIT leaders visited Silicon Valley this summer to learn how the university can amplify its presence there. More than 4,000 alumni live in the San Francisco Bay region, a figure that has doubled in the last decade. Another 700 co-op students each year work in California, mostly in Silicon Valley.

RIT eyes deeper engagement in Silicon Valley

SAN JOSE—From serving as a vice president at Apple to being involved in eight startup companies, Mark Oney personifies the enterprising culture of Silicon Valley. Now Oney '81 (electrical engineering) envisions a perfect alignment with his alma mater and the region that is world-renowned as the heart of innovation.

“Think of all the opportunities RIT has out here,” said Oney, a member of RIT’s West Coast Board of Advisors, a team that is advising university leadership on strategies along the Pacific. “Just having more co-op students work with alumni is one easy way to get connected to Silicon Valley. Geek is chic in the Valley. And RIT produces problem-solvers and doers.”

Oney joined other San Francisco Bay area alumni in July to provide feedback on how

RIT can amplify its presence and network out West. An 82-member delegation also held strategic meetings with 27 global high-tech companies and organizations. Discussions during the “Silicon Valley Engagement Initiative” centered on innovation, entrepreneurship, corporate research and development, philanthropy, recruitment and alumni engagement.

“RIT aspires to be more engaged with the West Coast, particularly in Silicon Valley,” said RIT President Bill Destler. “We are building deeper relationships with our alumni, companies and foundations. We are exploring what key opportunities there are for RIT to become more aligned with this incredibly enterprising region. We have the talent, how can we help? RIT is a place where innovation is in our DNA.”

Corporate takeaways

The delegation heard many common themes from companies such as Adobe and Tesla that could strengthen corporate relationships. Areas where RIT can make a difference include:

- Big data analytics
- Cybersecurity
- Diversity (increasing the talent pipeline)
- Machine learning/artificial intelligence
- Mobile/wireless
- Photonics
- Program and project management
- Sustainability
- UX (user experience)

Land of risk takers

As president and CEO of Sunnyvale Silicon Valley Chamber of Commerce, Don Eagleston '73 (photography) has a front-row seat to the flurry of disruptive technology that drives the region.

He believes RIT can be a larger part of the action in the land of risk-takers and curiosity-seekers. California is the sixth largest economy in the world and Silicon Valley—home to many of the most valuable technology companies on the planet—is the 10th largest. The region has an abundance of patent holders and traditionally attracts more than 40 percent of all venture investment in the U.S.

RIT's presence in California is growing. More than 4,000 alumni live in the San Francisco Bay region, a figure that has doubled in less than a decade. About 700 RIT co-op students complete 1,200 work assignments each year in California, mostly in Silicon Valley. And California is the fifth highest state for RIT freshman applications; sixth highest in freshman enrollment.

"University leadership visited Silicon Valley in 2008 and incorporated many of the recommendations provided by the tech community into our curriculum," said Christine Whitman, chair of the RIT Board of Trustees. "Since then, RIT's momentum in research, innovation, entrepreneurship, sustainability and online education has produced impressive results. We came out again to learn what the next generation of jobs will require in terms of additional skills. As times change, what do our students need going forward?"

Pivot West

The RIT delegation split into teams and made house calls to each of the 27 companies and organizations. The delegation included members of the Board of Trustees, Alumni Association Board of Directors, President's Roundtable, West Coast Board of Advisors, governance groups and campus leadership. They saw firsthand RIT students at work on co-op assignments.

"I've been able to dive into the work since day one," said Kaitlyn Keenan, a computer science student who spent her summer on co-op with Juniper Networks. "I immediately felt like I was part of the Juniper team and RIT prepared me for that."

Each delegation looked for future strategic opportunities with the firms, varying from cybersecurity to UX (user experience). Discussions with alumni spurred a recognition that RIT must increase its visibility in the region.

RIT is committed to hiring a full-time director of West Coast Engagement. The director will be the face of RIT in Silicon



Photo by Seth Affumado '84 (photo illustration)

RIT mascot Ritchie hams it up with Sourdough Sam, the San Francisco 49ers mascot, as well as Hrushikesh Sagar '14, Student Government President Andrea Shaver and Snehika Koka '12 at Levi Stadium in Santa Clara, Calif. An 82-member delegation from RIT held strategic meetings with global high-tech companies from July 20 to 23. RIT also met with several hundred alumni on the trip, including Sagar and Koka, who work at Tesla Motors.

Valley and seek opportunities for research and philanthropic partnerships, as well as advance new relationships for career and co-op placements. Some alumni during the visits already volunteered to establish corporate alumni chapters within their firms. "Our alumni have been extremely instrumental and passionate in helping the university develop a strategy out West," said Lisa Cauda, vice president for Development and Alumni Relations. "We are building off that momentum and it will be exciting to have a director living and working in the Valley."

RIT plans to offer certificate programs in information assurance (cybersecurity) to residents in the San Francisco Bay area starting this spring.

The certificates are designed for working professionals who will study in a hybrid format which features an online component and a lab environment with faculty. The "stackable" courses allow students to progress toward a master's degree. RIT plans to lease space in a convenient Silicon Valley location, which will facilitate the delivery of hybrid programs and create a sense of community for RIT alumni and current students. "Ultimately the space will serve as a foothold for a greater presence and recognition in the Bay area," said Jeremy Haefner, provost and senior vice president for Academic Affairs.

From Danielle Valliere '01 (information technology) and Marc Weil '10 (software engineering), who work at startups Jetlore and CloudMine, to Tad Hunt '97 (computer science) at Google, RIT alumni are proud to see the strategic direction of their alma mater and are willing to assist "flying the orange RIT flag" in Silicon Valley.

Kevin Surace, the 2009 *Inc.* magazine "Entrepreneur of the Year," was a lead organizer for the initiative and was inspired by the visit.

"Our engagement with technology companies is critical as we deliver students with the skills they require in the coming decades," said Surace '85 (electrical engineering technology), an RIT trustee. "We're producing students that will be sought after by more companies. And the best ambassadors for RIT are the alumni because we can learn so much from each other."

Bob Finnerty '07

Valley visits

RIT leadership met with the following companies and organizations during the university's Silicon Valley Engagement Initiative:

- | | |
|--------------------------|------------------------------------------------|
| • Adobe | • Juniper |
| • Advanced Micro Devices | • Networks |
| • AutoDesk | • LinkedIn |
| • Cisco | • Lockheed Martin |
| • Cisco Meraki | • Oracle |
| • Dolby | • Plug & Play |
| • Electronic Arts | • Qualcomm |
| • Facebook | • Silicon Valley Community Foundation |
| • Fluidigm | • Sony Interactive Entertainment |
| • GE Digital | • Sunnyvale Silicon Valley Chamber of Commerce |
| • Google | • Tesla Motors |
| • GoPro | |
| • HP Inc. | |
| • IBM | |
| • Intuit | |

DOCTORAL U:

RIT TRANSITIONS TO TOP-TIER UNIVERSITY

Robert Loce was working on his master's degree in optics at the University of Rochester when he heard that RIT was developing a Ph.D. in imaging science.

Loce, who also worked full-time at Xerox, knew that working toward a Ph.D. would help him develop skills critical to leading research teams. When he finished the optics degree, he entered the master's degree in imaging science program at RIT so he would be ready to go when the Ph.D. program was in place.

The move paid off. In 1993, Loce became the first person in the world to earn a Ph.D. in imaging science, which is the study of the processing, transmission, display and perception of images. He also became RIT's first doctoral degree recipient.

More than 250 others have followed in his footsteps in six doctoral programs: imaging science; microsystems engineering; computing and information sciences; color science; astrophysical sciences and technology; and sustainability.

The increase in Ph.D. programs has grown so much that last year the Carnegie Classification of Institutions of Higher Education changed RIT from Masters-Comprehensive to Doctoral Uni-

versity. This change occurs when a university graduates more than 20 Ph.D. degrees per year. In 2014-15, RIT awarded 33 doctoral degrees and in 2015-16, 35 people received Ph.Ds.

In the coming years, those numbers are expected to rise. The Ph.D. in engineering—RIT's seventh doctoral program—has its

first student on track to graduate next spring or summer with five others in the pipeline to graduate in 2017-18. Next fall, students in RIT's eighth Ph.D. program, mathematical modeling, will begin their studies.

"Our Ph.D. programs are not the traditional academic programs that you often hear about," said RIT President Bill Destler. "They are different and we capitalize on that differ-

ence to make a truly unique experience for our students."

Getting approval

RIT began talking about creating its first Ph.D. program as early as 1980 when John Schott was recruited from the remote-sensing industry to the photographic science program to do research.

"I got here and found out that not only did they want to add a Ph.D. program but that it would be the first Ph.D. program at the university. I didn't realize RIT didn't have any doctoral status. I hadn't even thought to look at the rest of the university."

But Schott needed doctoral students to do sophisticated imaging science research, so he became a champion for adding the first Ph.D., working with others to convince a university governing board called Policy Council and then the Board of Trustees to support asking the state to change the university's charter.

The campaign wasn't easy because many on campus were worried that the emphasis would move from teaching to research across the entire university. But the trustees eventually agreed to adding one doctoral program, and the Chester F. Carlson Center for Imaging Science, which formed in 1985, was ready with a proposal.

The degree, approved in 1989, was unique, said Schott, who is now retired from teaching. Other universities had programs in optics, remote sensing or electrical engineering with an emphasis on imaging, but this was the first Ph.D. in imaging. It also fit perfectly into the Rochester ecosystem, with companies such as Kodak and Xerox paying for their employees, like Loce, to get this advanced training.

The doctoral programs that followed also were unique.

Microsystems engineering, which graduated its first two students in 2004-05, was the first of its kind in the nation. There are currently 45 students enrolled in the multidisciplinary program, said director Bruce Smith, who in 1994 was the second person to get a Ph.D. in imaging science. Research in the program focuses on the unique challenges of materials, processes and devices on the micro- and nano-scale.

RIT has the only Ph.D. program (and mas-

ter's program) in color science in the United States, said Mark Fairchild, director of the MS/Ph.D. color science program. The field blends physics, chemistry and visual perception, among other sciences, to understand why materials look the way they do.

The doctorate program in sustainability, which has 23 students, is the only program in the world to focus on sustainable production systems, said Thomas Trabold, associate professor and department head.

RIT's astrophysical sciences and technology Ph.D. stands out by offering a wide variety of research topics for students, including numerical general relativity and gravitational wave astronomy, observational astrophysics, experimental cosmology and instrument and detector development, said Andrew Robinson, director of the program. Twenty-three students are currently enrolled.

The Ph.D. in computing and information sciences, which enrolled its largest class ever of 16 this fall for a total of 52, was designed to focus on real problems in both computing itself and business, engineering, medicine, science and social science from a fundamental research perspective, said Pengcheng Shi, director of the program.

While other computing programs may touch upon a real-world focus, it's not the main goal, which makes RIT's Ph.D. different.

The Ph.D. in engineering also has a unique real-world focus with research concentrated on solving global problems from the transportation, energy, communications and health care sectors, said Edward Hensel, director of the program.

"We do engineering in the context of the greater societal need," Hensel said.

And the Ph.D. in mathematical modeling, which will begin next fall, is the first of its kind nationally, according to Sophia Mangelakis, dean of the College of Science.

"It promises to serve as a model for a new kind of doctoral training in the mathematical sciences and to position RIT as a leader in that area," she said.

Learning to solve problems

David Messenger, director of the Carlson Center for Imaging Science, said 81 students are currently enrolled in the imaging



science Ph.D. program. Fourteen people in the program were awarded doctoral degrees in 2015-16.

"I can't think of any graduates the past five to 10 years who haven't gotten employment in an imaging related field," Messenger said.

The degree has helped Loce, who also received his BS in photographic science in 1985 from RIT's College of Continuing Education.

After he finished his Ph.D., he was promoted from a senior level researcher at Xerox to a principal scientist. He later became a research fellow. Two years ago he became a research fellow at PARC, a subsidiary of Xerox.

At PARC, he has worked on imaging for health care and is currently doing research in public safety surveillance, looking at ways to automate video redaction to help police departments comply with Freedom of Information Act laws. Loce holds more than 200 patents.

He is still involved with RIT as a member of advisory boards and he was the convocation speaker for the College of Science in 2010. Loce said his connection to RIT will remain strong, particularly because the campus is on farmland originally owned by his grandparents, Dominic and Frances Bianchi. "I am proud to be the first Ph.D.," he said. "The fact that I learned how to milk a cow and ride a horse on the same land makes it kind of special."

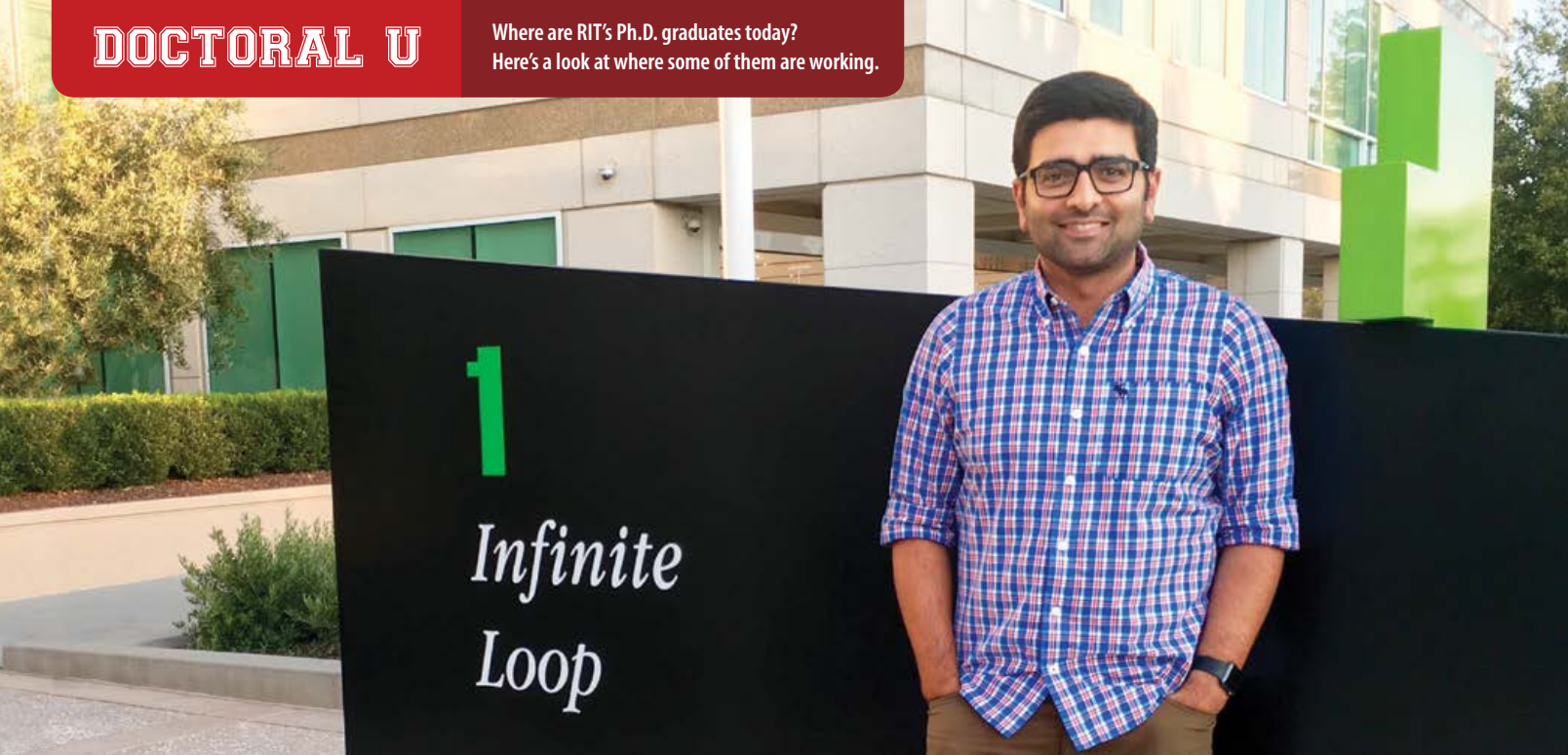
Mindy Mozer

Change in rankings

RIT is being recognized as a top-tier national university for the first time in the 34-year history of *U.S. News & World Report* rankings. The change is a result of the university's reclassification in becoming a "doctoral university."

The 2017 edition of *U.S. News & World Report* Best Colleges ranked RIT 107 in the "National Universities" category. RIT had previously been listed among "Regional Universities." RIT also ranked 33rd among best value schools—"Great Schools, Great Prices."

Robert Loce '93 (imaging science) is RIT's first Ph.D. recipient. More than 250 others have followed him.



Ph.D. in imaging science—Siddharth Khullar '09, '13, Apple Inc.

Siddharth Khullar '09, '13 (electrical engineering, imaging science) sees a healthy future in wearable devices that help consumers monitor their activity and wellness.

Khullar, now a senior researcher and product innovator at Apple Inc., integrates algorithms and sensing devices in products that advance human-machine interaction and wellness computing.

Drawn to the medical field—but not to medical school—Khullar learned the “engineering-side of medicine” at RIT. He developed a hybrid skill set from his MS in electrical engineering and then his Ph.D. from the Chester F. Carlson Center for Imaging Science. His research included graduate work at the Mind Research Network for Neurodiagnostic Discovery in Albuquerque, N.M., and resulted in image-processing techniques for assessing people with schizophrenia, autism spectrum disorder and bipolar disorder.

A sabbatical during his Ph.D. gave Khullar hands-on experience at the Massachusetts Institute of Technology's Media Lab. He joined the Camera Culture Group and developed low-cost solutions to mobile health care in developing nations. Khullar repurposed mobile phones as medical screening devices for eye diseases and led the team that built an award-winning retinal imaging system for the early detection of diabetic retinopathy and hypertension. A connection at the Media

Lab helped Khullar segue his sabbatical into an internship at Microsoft Research in Redmond, Wash.

Taking a break during his Ph.D. was a bold move his advisers supported—literally. The generosity of his mentor, Stefi Baum, former director of the Center for Imaging Science, funded Khullar's time in Boston.

That was the tipping point for him.

“My degree helped me not to be afraid of thinking and executing on something that's different,” he said. “Another thing I learned from my degree—leadership. It's not just about leading other people. It's also about leading your own self.”

RIT prepared Khullar to be part of the new paradigm in human-machine interaction. The relationship to technology has “empowered people to have more accessible means to understand their health,” he said. The paradigm continues to evolve.

“Before, it was ‘How do people interact with machines?’” he said. “Now, it's ‘How do you make machines interact with people?’ There's a little bit of a difference, a thin line. If you start digging in, that line becomes thicker. The paradigm shift has already happened.”

Khullar knows this first hand. After graduation, he returned to Microsoft as a post-doctoral researcher where he developed new camera-powered health sensing applications and a camera-based heart-rate system using web cameras. His research also contributed

to the heart-rate monitor in the Xbox One Kinect camera.

Following Microsoft, Khullar moved to Quanttus Inc., an MIT start-up in Boston, to develop a wearable device for monitoring multiple vital signals. He returned to the West Coast in September 2015 to work on “exciting things” at Apple.

“I was very lucky to be born in the right era,” Khullar said. “This is an incredible age of innovation in health and technology, computer learning and making computers smarter. There are literally no boundaries to how much you can innovate in this space.”

Susan Gawlowicz '95

Imaging Science Ph.D. degrees awarded	
1992-93	1
1993-94	1
1994-95	1
1995-96	5
1996-97	4
1997-98	3
1998-99	4
1999-00	4
2000-01	3
2001-02	2
2002-03	6
2003-04	6
2004-05	4
2005-06	7
2006-07	4
2007-08	15
2008-09	8
2009-10	8
2010-11	11
2011-12	6
2012-13	9
2013-14	11
2014-15	8
2015-16	14
TOTAL	145

Alumni today

Graduates build careers in consumer electronics or the aerospace industry at companies like Apple, Boeing, Google, Lockheed Martin and Raytheon or at government and national laboratories, such as Los Alamos National Laboratory, NASA Goddard Space Flight Center, the National Geospatial-Intelligence Agency and the National Oceanic and Atmospheric Administration.



Ph.D. in microsystems engineering—Archana Devasia '05, '11, NASA

High-tech equipment launched by NASA is exploring the origins of the universe in the farthest, most remote reaches of space. Archana Devasia's work building some of the complex detector systems on that equipment ensures that data is being successfully transmitted back to Earth.

The microsystems engineering Ph.D. graduate is a research associate with NASA's Center for Research in Space Science and Technology (CREST) and is part of the team developing custom detectors that span the entire electromagnetic spectrum for astrophysics applications.

"One of the projects I'm working on is about taking measurements of the Cosmic Microwave Background, the radiation which was emitted thousands of years after the Big Bang," said Devasia '05, '11 (electrical engineering, microsystems engineering). Her team fabricated the space-based Fourier Transform Spectrometer, designed to measure polarization and intensity spectra of that radiation phenomena.

"It is almost like taking pictures of the start of the universe. It is so exciting to be learning about this"

At CREST, based at Goddard Space Flight Center in Maryland, Devasia works in a clean room environment. Many of the tools and processes she uses to build micro-scale detectors there are similar to those she worked

on in the Semiconductor & Microsystems Fabrication Laboratory in RIT's Kate Gleason College of Engineering.

During her doctoral studies, she ventured to Brookhaven National Laboratory in 2009 as a visiting researcher and the following year worked as an advanced substrate research intern at IBM. While there, she worked with her adviser, Santosh Kurinec, RIT professor of microelectronic engineering; Kris Campbell, associate professor of electrical engineering at Boise State University and an expert in microfabrication and optoelectronic circuit design; and Simone Raoux, a former researcher in electronic materials and nanospectroscopy at IBM.

"Dr. Kurinec gave me so many opportunities to collaborate with different scientists," Devasia said of her faculty mentor. "Because of her, I was able to learn firsthand from experts."

That familiarity helps her deal with technical challenges associated with building intricate microscale devices for use in space. After graduation in 2011, Devasia became a process yield analysis engineer at Micron Technology where she monitored wafer level reliability performance of advanced memory and storage technologies. She became a postdoctoral research associate at NASA Goddard in 2014 before moving into her current position with the CREST team.

"When you are doing your Ph.D., it is very isolating. Your work is your bubble. You don't

often know what work is going on in other groups across the country and because of these experiences, I was able to come to know what was happening in other fields firsthand. It made me look beyond that bubble. It helped broaden my outlook."

That broad outlook now includes her helping to discover the vast mysteries of space.

Michelle Cometa '00

Alumni today

Many of the graduates hold positions at semiconductor corporations—and the companies that use these complex, integrated circuit technologies—around the world. They are research scientists and materials research engineers on teams at the U.S. Naval Research Center; process integration engineers for Apple Inc. developing next generation display panels and sensors; directors of R&D at Megachips America Inc.; and research faculty at major universities. Companies with RIT graduates are NASA, Intel, GE, Analog Devices, Samsung, IBM, Sandia National Laboratories, Texas Instruments, Global Foundries, Mentor Graphics and IMEC (the Interuniversity Micro-electronic Center in Belgium).

Microsystems Engineering Ph.D degrees awarded

2003-05	2
2005-06	4
2006-07	3
2007-08	4
2008-09	0
2009-10	2
2010-11	9
2011-12	6
2012-13	3
2013-14	11
2014-15	8
2015-16	5
TOTAL	57

extend human ability




Ph.D. in computing and information sciences—Ken Wong '10, IBM

Ken Wong '10 (computing and information sciences) is working with IBM Watson Health to help save lives.

As a research staff member at IBM Research since earlier this year, Wong is teaching the artificially intelligent computer system Watson—made famous by its winning run on the quiz show *Jeopardy!*—how to identify specific features in X-rays, MRI scans and other medical images.

Using Wong's work and the cognitive computing power of Watson, doctors will be able to diagnose diseases faster and more accurately.

"Medical images are essential for finding problems, such as tumors, but it can be very time consuming and easy for humans to miss things," said Wong. "With the help of a trained eye like Watson, physicians will know what areas they should concentrate on for each individual patient."

Wong began his work with computational physiology and medical image analysis as a student at Hong Kong University of Science and Technology. In 2007, he made his way to RIT on the tails of his Ph.D. adviser, Pengcheng Shi.

Shi had been hired to lead the new Ph.D. program in RIT's B. Thomas Golisano College of Computing and Information Sciences.

The interdisciplinary degree would allow Ph.D. students to conduct both hard-core computing research and work in other fields—including medicine, art and engineering—that can be assisted, enabled and inspired by research in computing.

"I invited Ken and several other students to come with me and finish their degrees," said Shi, director of the Ph.D. program and associate dean for Research and Scholarship. "Ken sets high expectations for himself and has a true passion for his work."

As a student, Wong's research challenged him to use imaging data to understand the mechanics of the human heart. Collaborating with Linwei Wang, fellow Ph.D. student and current associate professor in the Ph.D. program at RIT, the team created a computer simulation of the complete electro-mechanical physiology of the heart.

After graduating, Wong continued this work and moved to France to become co-leader for the \$25 million euHeart Project with the French Institute for Research in Computer Science and Automation. The group developed individualized, computer-based, human heart models that could provide insight into the origin and progression of specific disease patterns, including those associated with heart rhythm disorders and

coronary artery disease.

"Usually, the computer-generated models are not patient specific," said Wong. "But with individualized models, a surgeon can run countless simulations before actually operating on a patient."

Wong has tested the waters in academia—teaching several Ph.D. courses at RIT as a visiting assistant professor. He also spent time at the National Institutes of Health creating personalized models for predicting tumor growth.

"I have discovered that if I work for a private company like IBM, my research will make its way to products faster," Wong said. "This gives me a higher chance to really contribute to patients and society as a whole."

Scott Bureau '11, '16

Alumni today

Graduates take on roles in computer theory, networking, software engineering, finance, big data, animation, cybersecurity and academia. They work at Intel, Qatar Computing Research Institute, Google, Microsoft, Uber, RIT and Stevens Institute of Technology.

Computing and information sciences Ph.D. degrees awarded

2007-09	2
2009-10	1
2010-11	0
2011-12	1
2012-13	1
2013-14	4
2014-15	9
2015-16	4
TOTAL	22



Ph.D. in color science—Yuta Asano '15, Motorola Mobility

Picture taken with a Moto Z Force Droid

Yuta Asano '15 (color science) puts the magic in mobile devices and enhances the tiny cameras we carry everywhere.

His work as a camera image algorithm engineer at Motorola Mobility in Chicago has improved the color image quality of Motorola's smartphones: the Moto G4, Moto G4 Plus, Moto Z Droid and the premium Moto Z Force Droid.

"It's useful to apply how we perceive color," Asano said. "It can make images appear more pleasant to people."

Asano joined Motorola in July 2015, shortly before officially graduating. The mobile communications company employs a handful of RIT alumni with master's degrees in color science—a field that combines physics, optics, chemistry, computer science and mathematics with knowledge of the human vision system. Asano is the first Ph.D. from RIT's Munsell Color Science Laboratory to work at Motorola; his doctoral degree puts him in a rarified club of alumni who share a curiosity about color and an impulse to parse light on a high level.

"I came to RIT to study in the color science program because it's pretty much the only one around the world," Asano said.

Asano is originally from Okayama, Japan, about a day's drive from Tokyo, and earned

his BS and MS degrees in architectural engineering at Kyoto University. His graduate work concentrated on lighting engineering and the perception of brightness and included an internship with Panasonic Corp. in Osaka, Japan, developing LED back-lighting for televisions. Manipulating light in architectural space and on screens made Asano curious about how people perceive color—or light at different wavelengths.

"Lighting is not just limited to architecture, and I wanted to expand my knowledge to other applications," he explained.

At RIT, Asano moved beyond illumination to learn how the human eye sees color. His interest in color vision led to two internships with Technicolor in Rennes, France, where he worked on color-image quality and color perception related to digital cinema. Another research project related to color-vision and printers took Asano to Munich and Darmstadt, Germany, to collaborate with scientists at the Fogra Institute, a German-based association that promotes standards and technology in the graphic arts.

Asano published his thesis research on personalized color management for digital cinema in the Feb. 10 *PLOS ONE* article, "Individual Colorimetric Observer Model." His co-authors on the paper are Mark Fair-

child, RIT head of color science and associate dean of the College of Science, and Laurent Blondé, principal scientist at Technicolor.

"The mathematical model—for the first time—can be used to predict accurately and precisely how individuals perceive color," Fairchild said. "This research makes it entirely feasible that, for instance, moviegoers could choose 3-D glasses from among a small set of alternatives to experience the most accurate reproduction of the motion picture."

The reverse is true too. Asano's research would also allow manufacturers of colored materials to reliably predict color mismatches for a product.

Susan Gawlowicz '95

Alumni today

Some work at Apple, Motorola Mobility, Onyx Graphics and Qualcomm. Others have chosen academic careers at RIT and the University of Rochester.

Color science Ph.D degrees awarded	
2008-14	3
2014-15	3
2015-16	3
TOTAL	9



Ph.D. in astrophysical sciences and technology—Grant Tremblay '11, Yale

Grant Tremblay '11 (astrophysical sciences and technology) uses some of the most powerful telescopes in the world to study supermassive black holes and young stars that form around them, and the dynamics of galaxies as they grow and evolve.

Tremblay is an astronomer and a NASA Einstein Fellow at Yale University whose research appeals to the popular press with exotic discoveries like a cold “rain” of gaseous clouds falling toward a supermassive black hole, “fountains” of cold gas pumped by black holes and beaded strings of young stellar superclusters winding around ancient galaxies.

Tremblay is grateful to make a living by asking his own questions about the universe and pursuing the answers. His enthusiasm for discovery is driven by the sobering reality of one who studies the effects of time on the universe.

“I think the human species will be a short chapter in the history of the universe,” he said. “We’ll come and go. And I think it’s important in an abstract sense and in a real fundamental sense that during our time here we learn as much about the universe as we possibly can.”

Tremblay, a self-described “space-nerd kid,” went to college to become an astrophysicist. He earned a BS in physics and astronomy from the University of Rochester and, while

there, met two RIT professors who would become his mentors, collaborators and life-long friends. Stefi Baum, former director of the Chester F. Carlson Center for Imaging Science, and Chris O’Dea, then-professor of physics, encouraged him to enroll in RIT’s upcoming graduate program in astrophysics.

Baum helped Tremblay land a job at the Space Telescope Science Institute, where he waited for two years for RIT’s astrophysical sciences and technology program to start in 2008. “It turned out to be one of the greatest decisions of my life,” he said.

Tremblay learned the tool set he would need to conduct his Ph.D. research and was one of the first to graduate from the program. Shortly after defending his dissertation, Tremblay began a post-doctoral fellowship at the European Southern Observatory near Munich, Germany. The three-year research position included working as a support astronomer at one of the most advanced ground-based telescopes in the world.

“I was living in Munich, but every other month flying to Chile to live in the desert at the Paranal Observatory and operate the Very Large Telescope,” he said. “That was an immense privilege and a great adventure.”

Tremblay returned to the United States to accept an Einstein Fellowship supported by NASA’s Physics of the Cosmos program. He picked Yale as his host university during

the three-year fellowship to collaborate with C. Megan Urry, director of the Yale Center for Astronomy and Astrophysics.

While at Yale, Tremblay inherited an outreach role as organizer of the New Haven, Conn., chapter of Astronomy on Tap, a series of informal talks about space held at bars or casual restaurants.

“We are now in 13 cities worldwide,” Tremblay said. “It’s a really popular event and a unique way to do outreach.”

Susan Gawlowicz '95

Alumni today

Many have started their professional careers as postdoctoral fellows and research scientists at observatories, institutes and universities around the world, including the European Southern Observatory, the SRON Netherlands Institute for Space Research, the University of Guelph in Canada and the Universidad Diego Portales, Santiago, Chile. Others have become lecturers, outreach astronomers and web developers at Joliet Junior College; RIT; West Virginia University; the Dudley Observatory at the Museum of Innovation and Space in Schenectady, N.Y.; and Bowst in Portsmouth, N.H.

Astrophysical sciences and technology Ph.D degrees awarded	
2009-11	1
2011-12	3
2012-13	1
2013-14	0
2014-15	1
2015-16	5
TOTAL	11



Ph.D. in sustainability—Xue Wang '10, '14, (UL) Underwriters Laboratories

Photo by Deborah Kupczyk-Horton/UL Northbrook campus

Take a look at most any household appliance, light bulb or even your mobile phone and you'll likely see the UL (Underwriters Laboratories) mark—the single most accepted certification and safety standard for electrical devices in the United States. The iconic symbol appears on 22 billion products annually.

Xue Wang '10, '14 (applied statistics, sustainability) is a project coordinator on the advisory team at UL's Northbrook campus in Chicago. The 122-year-old company's business unit helps manufacturers capture value for their sustainability efforts.

"After learning there is a UL division working to advance global sustainability, environmental health and safety by supporting the growth and development of environmentally preferable products and services, I realized this is the place I want to be," Wang said.

Growing up in China, she witnessed the unfortunate toll that nearly 1.4 billion people took on a region's environmental resources. "As a member of the post-'80s generation, I witnessed China's rapidly developing economy and the environmental costs at the same time," Wang said.

She decided to explore environmentally friendly technologies after watching a documentary on e-waste recycling in Guiyu, China, where people burn wires and printed circuit boards to attain valuable metals such

as gold and copper.

After enrolling in the master's program in applied statistics at RIT, Wang attended a seminar presented by Gabrielle Gaustad, an associate professor in the Golisano Institute for Sustainability (GIS). Wang recalled being riveted by Gaustad's research into the implications of material scarcity and criticality on future clean energy technologies for which she received the Faculty Early Career Development (CAREER) Program Award from the National Science Foundation in 2015.

"I had a great conversation with her learning more about her research and I applied to the doctoral program in sustainability," Wang said. "She later became my Ph.D. adviser."

At UL in Chicago, Wang conducts scientific studies and writes feasibility study reports while also developing UL Environmental Claim Validation protocols.

She also keeps busy preparing proposals while helping ascertain a wide range of project data, including collecting, maintaining and analyzing sustainability metrics when it comes to the energy consumption of tested equipment.

During her job interview at UL, Wang's manager introduced her to several UL sustainability standards, including its benchmark for mobile phones.

"It's a multi-attribute standard based on the environmental and human health aspects

of a mobile phone's entire lifecycle," she said. "I believe that my unique academic training and research background at GIS made me a perfect fit for the job."

She said she's confident that her rigorous GIS coursework prepared her for the strong foundation upon which she can build a successful career in the sustainability field.

"My laboratory experience in lithium-ion battery recycling research enhanced my analytical skills and prepared me to be a critical thinker," Wang said.

"My goal is to help companies make more sustainable products and lower the environmental impacts of their products and services. GIS has positioned me to do just that."

Rich Kiley

Alumni today

Alumni follow various career paths, including corporate sustainability director, industrial research and development specialist, environmental policy analyst and university professor. They work for organizations such as Praxair Inc., MIT, U.S. Environmental Protection Agency, New York State Energy Research and Development Authority, Rochester Regional Health and Michigan State University.

Sustainability Ph.D. degrees awarded	
2009-11	1
2011-12	0
2012-13	4
2013-14	0
2014-15	4
2015-16	4
TOTAL	13



Lorne Farovitch '16 (environmental science) was part of the Rochester Bridges to the Doctorate program, which helps eligible students enrolled in master's programs at RIT prepare and apply for doctoral programs in behavioral or biomedical science.

RIT/NTID program encourages students to pursue doctoral degrees

Photo by Mark Benjamin

RIT alumnus Lorne Farovitch understands the difficulty that many deaf and hard-of-hearing students face when pursuing careers in scientific research. Perceived communication barriers, a shortage of qualified interpreters and the lack of networking opportunities with deaf and hard-of-hearing mentors in research roles can all be deterrents.

In fact, according to a report from the National Science Foundation, less than 1 percent of scientists in the world are deaf or hard of hearing.

But Farovitch is helping to change that. He was part of the Rochester Bridges to the Doctorate program, which helps eligible students enrolled in master's programs at RIT prepare and apply for doctoral programs in behavioral or biomedical science.

The RIT/NTID program, in partnership with the University of Rochester, is funded by a \$2.1 million grant from the National Institute for General Medical Science.

After earning dual undergraduate degrees in chemistry and biology from Gallaudet University, Farovitch, from Tucson, Ariz., considered taking a gap year to narrow his focus on a field of study before committing to a master's degree program. A chance encounter with NTID Professor Peter Hauser, himself an accomplished scientist who just happened to be visiting Gallaudet's Brain and Language Lab for his own research, altered Farovitch's plans.

"I immediately discouraged Lorne from taking time off," said Hauser, director of RIT/NTID Center on Cognition and Language. "He was a perfect candidate



Peter Hauser is director of RIT/NTID Bridges to the Doctorate program.

Photo by Mark Benjamin



Photo by Mark Benjamin

Jessica Contreras '14, '16 (psychology, experimental psychology) credits Bridges to the Doctorate for preparing her for a doctoral program at the University of Connecticut.

for the Bridges program.”

Up to three graduate students are selected each year for entry into the Bridges program, which was created in 2013. Most of their tuition is paid, and they also gain experience—and earn a paycheck—working in laboratories at RIT and UR. Throughout the program, they meet regularly with mentors who help prepare them for the academic rigors of earning a doctorate, attend at least two professional conferences and complete three research rotations at UR laboratories. Currently, there are six students enrolled in the Bridges program, and potential students are encouraged to apply.

Farovitch used the program to hone his specialty. He worked with Professor Martin Zand at UR to study lymphocytes and their capability to migrate through the body and Professor Jeff Lodge at RIT to analyze water samples from Lake Ontario to determine pollution levels from medications that are distributed through open water. He also studied how pathogens in water help spread disease and impact our health and completed internships in polymer science, neuroscience and marine biology.

“I was able to find my passion for microbiology through the Bridges program,” Farovitch said. “My eyes were opened to a variety of skills, all of my questions were answered, and I was able to determine the path that I wanted to take.”

After two years at RIT, Farovitch graduated in 2016 with a master’s degree in environmental science. This fall, he was accepted into a new integrated Ph.D. program at the University of Rochester that aligns science with public health. Farovitch explained that a roughly 10-year gap exists between scientific research, the release of findings and the impact of the research on public health and policy. He hopes his work will narrow that gap.

When he graduates from the University of Rochester with his doctoral degree in translational biomedical science, Farovitch will be part of the first cohort that demonstrates the success of the Bridges program.

“To date, this is the first educational program specifically tailored to deaf and hard-of-hearing scholars who want to pursue advanced degrees,” explained Hauser, principal investigator for RIT and an internationally recognized expert in deaf cognition, sign-language research, psychosocial well-being and post-secondary science mentoring. “We are proud to have started this program in Rochester, a community characterized by a well-educated and large deaf population, with a unique and collaborative atmosphere.”

In addition to the University of Rochester, Bridges scholars have been accepted into doctoral programs at the University of Connecticut and Indiana University-Purdue University Indianapolis.

Jessica Contreras ’14, ’16 (psychology, experimental psychology) began her doctoral studies in developmental psychology this fall at the University of Connecticut.

She said that many deaf and hard-of-hearing students grow up believing that significant accomplishments are out of reach or that they can’t compete with hearing counterparts. But, in her words, Contreras said, “Deaf can.”

“Equally as important as the lab work and mentoring opportunities is the way that the Bridges program helps students develop their own identities as deaf people and as scientists,” said Contreras, from Anchorage, Alaska, who is interested in how the language experiences of deaf people, such as those who sign or are oral from birth, impact cognition.

“Bridges has given me the confidence to succeed in a research setting alongside hearing peers and establish myself as an equal. Without the Bridges program, I’m not sure that I would have been able to pursue my dream. I’ve grown to become a competent, intelligent and capable scientist.”

Vienna McGrain '12

To learn more

For more information on the Rochester Bridges to the Doctorate program, go to <http://deafscientists.com>.



A private estate adjacent to campus is being renovated to create RIT's first multipurpose welcome center for alumni.

Photo by A. Sue Weisler

RIT's first Alumni House opening in 2017

RIT's first multipurpose welcome center for alumni on campus is expected to open in the coming year.

In December 2013, RIT purchased a private estate home and surrounding grounds adjacent to campus across from the Red Barn. Renovations began this fall to include meeting space, an alumni library, an Alumni Association boardroom, business center, event space for large and small gatherings and two executive sleeping suites for alumni traveling long distances.

Kelly Redder, assistant vice president, RIT for Life, and the director of the RIT Alumni House, said the house will give alumni a place to pick up a parking pass and an alumni ID, which will provide them access to The Wallace Center and the Gordon Field House.

They can buy Tiger apparel, be taken on a tour of campus or given directions and a map.

"When alumni come back now, they are completely flummoxed by the scenery around them because nothing looks familiar. We have just grown so big," Redder said. "This will give alumni coming back to campus an orientation stop."

To date, \$685,000 has been raised to create the welcoming facility from 1,000 donors. The fundraising goal is \$1.2 million.

Alumni centers on college campuses are common.

Gregory Fansler, senior associate director and director of marketing for Alumni Relations at Virginia Tech, said Virginia Tech built the Holtzman Alumni Center in 2005. The building houses the Virginia Tech Alumni Association, as well as the Grand Hall, museum, special collections library and meeting rooms. It is connected to a conference center that has 147 hotel rooms and a 500-seat ballroom, which was also built in 2005.

"It certainly helped increase the connection alumni have with the university, providing a home on campus for them," Fansler said. "I can't imagine not having one."

Jill Smith, senior associate director for communications and membership with the University of Kentucky Alumni Association, said UK's alumni house opened more than 50 years ago in 1963. That facility has event areas, two suites for visiting alumni, a library and staff offices.

"It's a stopping point for alumni returning to campus," she said.

Redder said the challenge for RIT will be educating the campus community about the opportunities an Alumni House creates for them.

"I want students leaving here to know the house is there and it's theirs," Redder said. "That's where they will start when they come back to RIT."

Mindy Mozer

Supporting the Alumni House

Alumni have made gifts to support several spaces and rooms in the Alumni House already:

- Great room—Bill Buckingham '64
- Welcome center—Chuck '61 and Elaine Maginness
- Board room/multi-purpose room—RIT Alumni Association Board of Directors
- Bar—Kevin Surace '85
- Three-season porch—Jim '93 and Audrey Janicki
- Conference room—Bud '56, '91 and Joan Rusitzky
- Fireplace—Members of Gamma Epsilon Tau
- Main entryway—David A. Blonski '07 and Michelle K. Nicholson Blonski '06, '07
- Garden benches (multiple)—One by Dave and Patti '85 Neumann and family
- Large art wall—Two by Greg Penoyer '06 and one by Scott Hecker '65

To learn more

For more details about the Alumni House, go to rit.edu/alumnihouse.

Napier named Outstanding Alumna for 2016



Sharon Napier '04

When Sharon Napier '04 (service leadership and innovation) chose to pursue graduate studies at RIT in 2002, she had two things in mind: the evolution of her career and the prospect of someday returning to teach at the collegiate level.

Napier, who was president and CEO of Wolf Group from 1996 to 2004, later went on to buy out local offices and form her own creative ideas agency, Partners + Napier, following her graduation from RIT. As founder and CEO of the agency, she has drawn in a multitude of big names, serving clients

such as Constellation Brands, Capital One, BMW Financial Services, Delta Private Jets, ConAgra Foods and Keurig Green Mountain.

"In going to RIT, I chose to step way outside of my comfort zone," Napier said. "I hadn't been in a classroom in over 20 years, but in order to grow, you have to push yourself—be uncomfortable—be brave enough to step outside your comfort zone."

Napier is RIT's Outstanding Alumna for 2016, the highest honor the university can bestow upon an alumnus or alumna. She received the award during the Presidents' Alumni Ball on Oct. 14 during Brick City Homecoming & Family Weekend.

"I am extremely honored to be receiving the award. It is one of the highlights of my personal and professional career," Napier said. "As a member of this community, I could not be more proud. I feel so fortunate that RIT is

in and a part of Rochester, it gives us all access to something great."

Since attending RIT, Napier has lent herself back to the university as a resource, notably working as a career mentor and speaker, supporting various RIT creative projects and helping RIT's School of International Hospitality and Service Innovation with internal branding initiatives.

In addition, her work has been recognized both nationally and internationally in *Ad Age*, *Adweek*, *Campaign US*, *The New York Times*, *The Wall Street Journal*, *Fast Company* and *Forbes*.

"In everything it does, RIT is not afraid to innovate or try new things. RIT is an ever expanding, fearlessly exploring entity," Napier said. "I take a huge sense of pride in my education and my community."

Lauren Peace '17

Krupnicki honored for outstanding volunteer work

When Michael Krupnicki '99 (MBA) heard that the all-female racing team at RIT needed some skills in welding last year, he was quick to step in.

Krupnicki, president of Mahany Welding Supply in Rochester and founder of the partner company Rochester Arc + Flame Center next door, not only allowed them to take classes for free, but he also provided them with space in his business to build the car's frame.

"This is how I give back as an alumnus," said Krupnicki. "I get satisfaction knowing that my organizations have contributed to their education at RIT."

Krupnicki is RIT's Volunteer of the Year for 2016. He received the award during the Presidents' Alumni Ball on Oct. 14 during Brick City Homecoming & Family Weekend.

"I'm surprised that with all the terrific alumni scattered all over the country that the committee involved with this decided I

was the most worthy out of all of them," he said. "I am very flattered and humbled by the whole thing."

Krupnicki began giving back to his alma mater long before the Hot Wheelz racing team approached him. Sculpture, mechanical engineering technology and industrial design students have learned how to weld at his facilities. He estimates nearly 1,000 RIT students have taken credit-bearing classes at Mahany since 2004.

In addition, Krupnicki has sponsored the annual Glass Pumpkin Sale and RIT Formula Racing and RIT Baja Racing teams. He has hosted team-building activities for Saunders College of Business students at Arc + Flame, volunteered as a judge in campus business competitions and worked as an adjunct professor in Saunders College of Business from 1997 to 2012. He also hires RIT alumni to work in his businesses.

"Maybe this will inspire other local alumni with businesses to give back," he said. "Who



Photo by A. Sue Weisler

Michael Krupnicki '99 works with Maura Chmielowiec, last year's Hot Wheelz co-leader, at Mahany Welding.

would have thought a welding supply business could do what we do now?"

Mindy Mozer

Your gift. Your choice. Your impact.



77%

of full-time undergraduate students received financial assistance



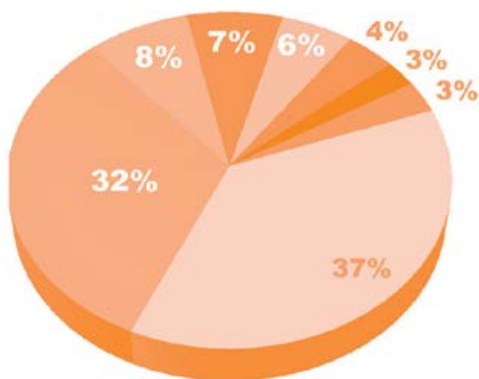
\$5.1 million
in annual giving



35%

increase in corporate matching gifts (thanks to alumni, parent and friend donors)

RIT donors designated gifts to:



- Colleges & Academic Programs (37%)
- Scholarships & Student Aid (32%)
- Areas of Greatest Need (8%)
- Student Life, Clubs & Organizations (7%)
- Facilities & Campus Enhancements (6%)
- Supporting/Expanding Faculty & Staff (4%)
- Athletics (3%)
- Other (3%)



5,863
alumni made a gift to RIT



13,578

alumni, students, parents, faculty, staff and friends made a gift to RIT

**Give every year.
Make a difference every day.**

rit.edu/givetoday



Alumni Updates



Chuck Cerankosky '03 (industrial design) is a co-owner of Good Luck restaurant in Rochester. Good Luck recently made *Esquire's* list of the 18 best bars in America.

Photo by A. Sue Weisler

'Esquire' raises a glass to graduate's restaurant

Chuck Cerankosky '03 (industrial design) had never served a dinner table or bartended when he opened Good Luck restaurant in Rochester eight years ago.

But he had been trained in industrial design, and as part of that training he was prepared to solve problems.

"Opening a restaurant is a design project," Cerankosky said. "Not only is it a design project, but it's a nexus for other design projects. There's how the restaurant looks itself but there's all of the collateral that goes with it, from your menus to the napkins to the coasters to the website."

His design project recently received high praise when Good Luck made *Esquire's* list of the 18 best bars in America. As part of the list, Cerankosky, who runs the restaurant with two partners and oversees the bar, provided a recipe for a New York Sour.

"It's loud, boisterous, busy. It's also excellent, even down to the (okay, now cliché) on-tap Moscow Mule, which they live up, unconventionally, with a splash of Scotch ale," wrote *Esquire* writer David Wondrich, who is known as a founder of the modern craft-

cocktail movement.

Cerankosky, a fan of Wondrich's books including *Imbibe*, which was the first cocktail book to win a James Beard award, met the author years ago at a conference and handed him a Good Luck cocktail menu. Last year, he learned that Wondrich would be coming through Rochester and planned to stop at Good Luck.

After the visit, Cerankosky was contacted by the magazine's parent company, Hearst Corp., for more information about the restaurant. He was thrilled when the magazine was published because it validates his staff's hard work.

"It makes everyone feel good about the bar and Rochester," said Cerankosky, who with his partners also owns a smaller restaurant called Cure in Rochester's Public Market. "That place you proposed to your wife is nationally known."

When Cerankosky attended RIT, he worked at Java's Café and rose to the rank of manager. At Java's he began to see the parallels between the restaurant business and being a designer.

He did work in the traditional industrial design field for a time after graduating, but he became more and more fascinated with restaurants. He approached his boss at Java's about opening a restaurant and they became partners. They then found a third partner who was a professional chef.

Cerankosky said he started researching the craft-cocktail movement and wanted to bring it to Rochester. ("It's not the hardest thing to research," he said. "You get to drink the research after you are done.")

Although their first summer open was a little slow, the community has embraced the Good Luck concept and the focus on quality ingredients. "It's pretty neat how a food service business can touch your life," he said. "I think Good Luck has become a valuable part of the Rochester culture."

Mindy Mozer

To learn more

To see the *Esquire* list, go to <http://bit.ly/EsquireGoodLuck>.



Former roommates Rob Glaspy '13, left, and Bill Gerken '15 visit RIT four months after Gerken donated a kidney to Glaspy.

Photo by Jacob Kaucher

Organ donation bonds former roommates for life

Two former RIT roommates now share a bond that goes beyond memories of their time on campus: One donated his kidney to the other.

They met by chance in 2011 when Bill Gerken '15 (political science, journalism) needed a roommate. A friend of his told an acquaintance also looking for a roommate about the opening, and Rob Glaspy '13 (civil engineering technology) moved in. Both were from the Buffalo area, but that's all they knew about each other.

Glaspy, who has Alport Syndrome, which affects his hearing, eyesight and kidney function, didn't talk about his failing kidneys while at RIT.

"I had no idea," Gerken said. "One night we were at a club and he said he couldn't drink. But we didn't know why."

The roommates remained in contact after their graduations.

Last fall, Glaspy told Gerken he began dialysis treatment and was on a list to receive a kidney transplant. Gerken, who coincidentally had done a sixth-grade project about kidney disease, immediately was screened to

see if he could be a donor. It was a long process that included blood and psychological testing, but he was a perfect match.

"It was a quick decision to make," Gerken said.

They underwent transplant surgery on March 22, and both are doing well.

"As soon as they hooked it up, it started working right there in the operating room," said Glaspy, an engineering technician in Buffalo. "I have improved. I was constantly tired before. Now I have more strength, I'm going back to the gym."

He takes 28 pills a day to help prevent rejection.

Gerken was back at work as a public relations assistant two weeks after the surgery.

"If I didn't have the scar to prove it, I wouldn't even know I donated a kidney," he said.

The friends want to share their story to encourage others, especially college students, to talk about organ donation with their loved ones, and decide if it is something they would consider.

"College kids think they are invincible,"

Gerken said.

The Finger Lakes Donor Recovery Network says 120,000 people nationally are in need of a lifesaving transplant—more than 100,000 of them need a kidney. More than 8,000 people are waiting for kidneys in New York state.


Gerken has volunteered to tell his story to students, clubs and organizations in the Buffalo-area "Talk it Up" program in hopes others will consider organ donation.

The former roommates have never been closer. "We hang out a lot, talk at least a couple times a week and go to Rochester together to visit friends," Gerken said.

"We're like brothers now," Glaspy added. "And I'll be there when he needs something from me."

Greg Livadas

To learn more

To see a video about the donation, go to <http://bit.ly/KidneyBuddies>. 



Linda Hummel '71, center, with her SWBC team, which includes from left to right sitting: Gary Birdwell, VP of operations; Andrew Grove, VP of sales and market development; and Jonathan Amato, employee benefits consultant. Standing are Blanca Gonzales, communications manager; Bruce Massey, VP of account management & compliance; John Sommer, employee benefits consultant; Scott Foley, employee benefits consultant; and Leigh Ennis, wellness program manager.

Successful alumna most proud of mentoring role

Linda Hummel '71 (fine and applied arts) didn't think much at the time that she was one of few female senior leaders in the banking industry in Texas in the 1980s.

But looking back now, the self-described workhorse realizes that the experience not only paved the way for others but opened a door for her with the San Antonio community.

"I was never that impressed with it at all," said Hummel. "People would say to me, 'My goodness, look at what you have accomplished.' I'm thinking it has been so much fun it never felt like work—ever—to me."

Hummel moved to Texas in 1973 to pursue a career in advertising with the Pitluk group, which was the largest advertising agency of its kind in South Texas. She learned there that she enjoyed the business aspect of the account manager job more than the graphic arts aspect.

After a two-year stint with Trinity

University in the community and development program, she entered the banking business, first with First City Bancorporation, where she worked as a vice president, and then the San Antonio Savings Association, where she was a senior vice president of retail sales and marketing.

At the time, she was on a lot of community boards, including the board of Humana Women's and Children's Hospital. In 1990, she was recruited to join Humana as an associate director for the health plans. It was a big job because Humana was going through the transition of divesting itself from hospitals.

"That was a huge challenge," she said. "When I joined the company I thought, 'What have I got myself into?' It ended up being a very gratifying experience."

Hummel worked with Humana for 23 years, working her way up to president of the employer group division for Humana Texas. In 2008, Hummel was named Texas Business

Woman of the Year by the Women's Chamber of Commerce of Texas.

Then three years ago she was recruited to join the privately-held company SWBC, which is headquartered in San Antonio. She is chief executive officer for the SWBC Employee Benefits Consulting Group.

"At this stage of my career, where do you have a chance to redefine who you are and bring up a team and operate autonomously," she said about her role at SWBC. "It's just a dream come true for someone with my background."

Hummel said she is most proud of her role as a mentor and the impact she is having on future business leaders. She is enjoying her position so much that after 45 years in the workforce, she has no plans to slow down.

"I would never have thought in a million years starting out that my career would have taken this turn, but it has and I'm very grateful," she said. "It has been a lot of fun."

Mindy Mozer



Remy Glock '11 installs *Point*, one of seven pieces from her project *Deaf-iculties* for the "Typeforce 7" exhibition. Other pieces shown are *Repeat*, *Trim* and *Eye Hear You*. The project was displayed in Chicago in February.

Photos by Adam Howarter and Anna Zorn

Graduate works to educate through her artwork

In the fall of 2008, Remy Glock '11 (graphic design) made the bold decision to transfer more than 2,000 miles from her hometown in Reno, Nev., to RIT/NTID—a choice she said helped to shape her perception of community.

Five years later, the Chicago-based designer is using typography as a medium to educate people on the overlooked challenges of the deaf community, particularly those that arise in professional environments.

Glock excelled in the classroom, but after graduating in just three years, she found herself navigating the challenges of life outside of RIT—something that proved to be a difficult adjustment.

"I took a job in Chicago following graduation, where I didn't know anybody," said Glock, who was born deaf. "It took me a while to adjust back to life without an interpreter or a note taker. I felt kind of alone, and I didn't have anyone to relate to. It was

frustrating and consumed a lot of my energy."

Over time, Glock was able to hone in on her design background and channel her challenges into a personal project. In February 2016, she was selected as one of the featured artists for "Typeforce 7" and her work captured the attention of the Chicago community.

"Typeforce," a highly recognized and competitive typography exhibition held annually in Chicago, gives emerging typographic artists a chance to showcase a typography-based installation on a 10-by-10-foot wall in a well-trafficked gallery. The exhibition, which showcases a mere 20 installations out of more than 200 submissions, prompts artists to conceptualize a thought-provoking display that can be assembled in just two nights and remain up for about two weeks.

"I was accepted to 'Typeforce' on my third application," said Glock, whose installation, called *Deaf-iculties*, included seven individual pieces, each intended to shed light on

difficulties experienced in common situations. "It gave me a chance to turn something personal into something educational."

The seven pieces—*Trim*, *Vibes*, *Eye Hear You*, *Cocktails*, *Point*, *Repeat*, and *May the Fort Be With You*—each cleverly communicates an individual aspect of deaf culture.

Vibes, which was assembled out of guitar picks, plays on the fact that music is limited to the vibrations felt and less about the lyrics. *Cocktails*, which features an intricate design laid on a dark background, is about the difficulty of lip-reading under dim lighting in bars, where much of post-work socializing takes place. *Repeat* is composed of multiple layers—starting out cloudy but getting increasingly clearer.

"Typeforce" allowed me to capture the attention of the community and to create awareness through my work," she said. "It was an incredibly rewarding opportunity."

Lauren Peace '17



Frame.io's team from left to right includes: John Traver '10, co-founder/CTO; Todd Kramer, lead iOS engineer; and Harris Gani, software engineer.

Photo by Daniel D'Ottavio

Graduate's company wins Apple Design Award

After graduating from RIT, John Traver '10 (motion picture science) began working for a post-production company and soon became frustrated with video collaboration offerings for the creative industry.

"We were working on multiple projects with freelancers and clients and found it extremely difficult to manage them," Traver recalled. "We looked to see if there were solutions for our industry and were pretty disgusted with the options available."

Most software was "really expensive, really poorly executed, or both," Traver discovered. So he and Emery Wells, the post-production company's owner, set out to spend a few months building a better solution.

"We quickly realized that we weren't the only ones experiencing this issue, and that we should spin it out as its own company and focus on it full-time," he said.

Last June, frame.io—the New York City-based company's video collaboration platform—was one of only 12 apps to win the Apple Design Award in San Francisco.

Apple praised the platform for "filling a big gap in the creative workflow" together with "elegantly solving the complicated collaboration process of reviewing and providing feedback ... and was picked as a winner because it solves a real problem in an elegant way."

Used by companies like Facebook, Spotify, NASA, Uber and Snapchat, the platform enables people to create private workspaces where they can upload video, still and audio assets; invite others that need access to those assets; communicate in-line with time-stamped comments and annotations; manage multiple versions of those assets; and ultimately distribute to external stakeholders.

Despite the platform's quick adoption and wide industry acclaim, Traver said he and co-founder Wells were almost in disbelief that night in San Francisco. "Disbelief that it happened so fast," he said. "We were aware of the potential for a while. Winning a design award was certainly a goal of ours that we are so excited to have achieved."

It hearkened Traver back to why he chose RIT and its motion picture science (MPS)

program for its unique combination of film, animation and engineering he didn't see anywhere else.

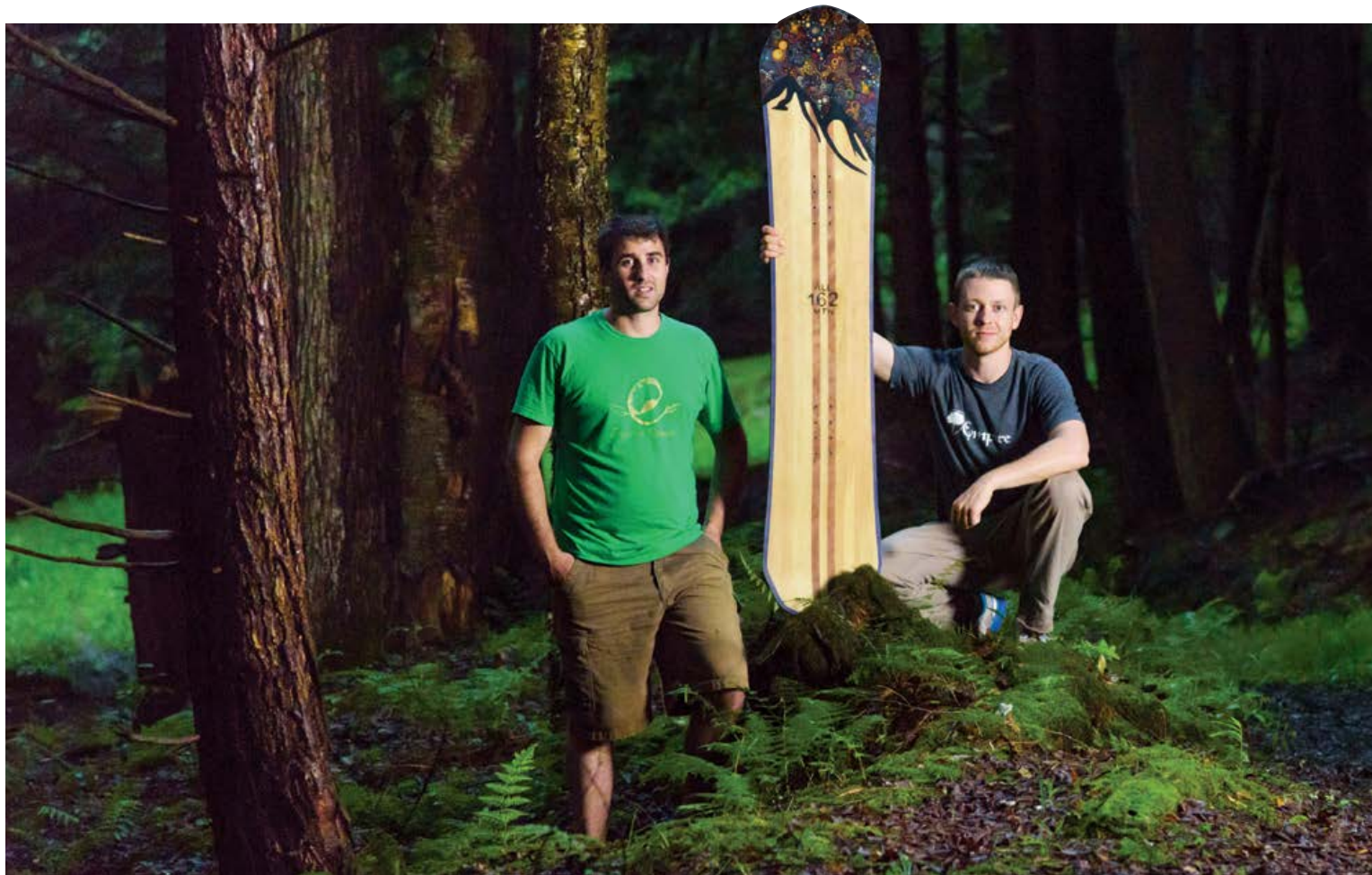
"I grew up making skateboarding videos and was very interested in CAD, 3D modeling and animation," Traver said. "RIT—and MPS in particular—allowed me to explore a wide range of disciplines across the fields I found most interesting."

Traver also serves as frame.io's chief technology officer. He built and deployed the platform's initial version, including the web client, application programming interface, media processing stack and real-time servers. He also created a custom animation framework for achieving "super smooth" 60 frame-per-second animations on the web.

Winning the Apple Design Award proves "we truly believe we can build the best software in the world," Traver said.

And how does frame.io plan to leverage the honor? "We hope to use the award to attract more talent and more investments to fuel our growth."

Rich Kiley



Ben Beisler '10 (civil engineering technology), left, and Zhenya Grinshteyn '09 (marketing) started the snowboard company Empire Grown.

Alumni awarded highest rating for snowboard

After Zhenya Grinshteyn '09 (marketing) saw a YouTube video one night where surfers were making their own surfboards, he sent a text to his former college roommate Ben Beisler '10 (civil engineering technology).

"I figured if these guys can figure out how to make surfboards, we can probably figure out how to make snowboards," Grinshteyn said.

Five years later, the duo's company, Empire Grown, produced one of the best snowboards for 2017, according to the online publication *Board Insiders*. The company's all-mountain board received a gold rating in its annual Shred Cred Awards.

The road from YouTube video to successful snowboard was a little icy for Grinshteyn and Beisler, who spent about a year researching what goes into making a snowboard before they decided to build their own. They purchased a snowboard kit and adapted it in a way they thought was improving it.

"It looked great and everyone loved it," Grinshteyn said. "Then we rode it and it was like trying to ride a brick down the mountain."

But the project was validation that they could build a snowboard. And by the end of their second year, after more research and experiments, they had eight prototypes ready to test. One was a favorite among their friends.

They took the winning design and created a Kickstarter campaign around it. The money was used to build a CNC machine and a heated pneumatic press—both of which were also designed, fabricated and assembled in-house by Grinshteyn and Beisler.

"We start by taking in a rider's height, weight, shoe size, and riding style to design a board truly fit for them," Grinshteyn said, adding that people don't realize a custom board is more than personalized graphics.

Today, the friends have made more than 60 snowboards and their client base is international, with customers in Japan, France and Australia, Beisler said.

"There aren't many out there compared to the big brands, but the ones that are all over the world," Beisler said.

Beisler and Grinshteyn work on the business, which is based in Beisler's hometown

of Oneonta, N.Y., in their free time. By day, Beisler is a civil engineer for James Forbes, P.E. in Oneonta. Grinshteyn is a marketing consultant in South Euclid, Ohio.

They hired two RIT co-op students, James Wagner, mechanical engineering, and Luke Shadler, physics, to help remotely with improving the mechanical design of the snowboard.

Both Beisler and Grinshteyn said they hope one day this can be a full-time business. For now, they are happy to be included in the *Board Insiders* ranking.

"Everything has been a learning process," Grinshteyn said. "Knowing that we can compete with companies hundreds of times our size has made all of the challenges worthwhile and motivated us to do even greater things in the future."

Mindy Mozer

To learn more

Go to empiregrown.com.

Alumni Activities



Albany

On July 11, alumni welcomed incoming students and families from the Capital District into the RIT family at a summer sendoff event in Saratoga Springs. Thanks to **Patrick Pipino '90** for hosting.

On Oct. 8, the sixth Annual Rhino Run 5K took place in Loudonville. All proceeds fund the Nicholas F. Murray Memorial Scholarship to support students from the Albany area attending the Kate Gleason College of Engineering.

Bay Area

On July 19, alumni welcomed incoming students and families from the Bay area into the RIT family at a summer sendoff event in Los Altos Hills. Thanks to **Kathy O'Shaughnessy** and **Jerry Wittenauer**, parents of **Sarah Wittenauer '20**, for hosting.

On Aug. 14, the fourth annual Taste of Rochester took place in Sunnyvale. Thanks to host **Martin Hendess '94**.

Boston

On Aug. 6, alumni welcomed incoming students and families from the Boston area into the RIT family at a summer sendoff event in Sudbury. Thanks to **Sarah Klofft '17**, **Jeffrey** and **Kathy Klofft** for hosting.

Buffalo

On July 28, alumni welcomed incoming students and families from the Buffalo area into the RIT family at a summer sendoff event in Clarence Center. Thanks to **Becky Brubaker '93** for hosting.

On Nov. 19, alumni, family and friends toured the Buffalo Transportation Pierce Arrow Museum and then gathered together at Chef's for lunch.

Charlotte

On Sept. 24, a team of alumni, family and friends walked in the 2016 Walk to End Alzheimer's. Thanks to **Elizabeth Pettrone '00** for organizing.

Chicago

On July 31, alumni welcomed incoming students and families from the Chicago area at a summer sendoff event in Winnetka. Thanks to **Henry '20**, **Paula** and **Gifford Zimmerman** for hosting.

Dallas / Fort Worth

On July 23, RIT's seventh Annual Sailing on Lake Lewisville event took place. Thanks to host **Scott Saldinger '91**.

Denver

Alumni gathered for a tour and tasting on July 16 at De

Steeg Brewing, owned by **Craig Rothgery '05**. Thanks to **Emily Levine '13** for hosting.

Los Angeles

On July 17, alumni welcomed incoming students and families from Los Angeles into the RIT family at a summer sendoff event in Corona Del Mar. Thanks to RIT parents **Brian** and **Teri Mayhugh** and their son **Nathan Mayhugh '17** for hosting.

Mid-Hudson

On Aug. 6, alumni, family and friends enjoyed a cruise along the Hudson River. Thanks to **Sergey Katsev '06** for hosting.

Mumbai

Manasi Manjrekar '10 hosted a dinner for alumni and friends in Mumbai on July 3.

New Jersey

On July 28, a summer sendoff event was hosted by **David '97** and **Nancy '98 Torrente** in Randolph, N.J., to welcome incoming students and families into the RIT family.

New York

On July 13, alumni welcomed incoming students and families from the Tri-State

area into the RIT family at a summer sendoff event in New York City. Thanks to **Mitch Klaif '79** for hosting.

RIT alumni cheered on the home teams on Aug. 2 for a Subway Series game at Citi Field. Thanks to hosts **Cindy Rosenshein '90** and **Nikhil Nampalli '07**.

RIT alumni gathered at Houston Hall on Aug. 18 for the first event in a series of socials taking place in New York City this year. Thanks to hosts **Nikhil Nampalli '07** and **Ben Harris '07**.

Philadelphia

Alumni gathered at Twenty9 Restaurant in Malvern for a night of networking. Thanks to host **Greg Warchol '13**.

Rochester

On July 23, alumni and friends had an exclusive chance to race on the famed Watkins Glen racetrack. Guests also enjoyed lunch overlooking the course.

Alumni enjoyed a Whirlpool Jet Boat tour on Aug. 13. After the tour, guests had lunch at The Silo in Lewiston, N.Y. Thanks to hosts **Tony '78** and **Donna Kocienski**.

On Aug. 18, alumni and friends had an exclusive networking night at Park Point's newest restaurant, Shram-

rocks Irish Pub.

Alumni visited Wagner Winery, owned by **John Wagner '88**, in Lodi on Aug. 28. Thanks to **Rick '79** and **Patty '88 Stoffel** for hosting.

Syracuse

On Aug. 8, alumni welcomed incoming students and families from the Syracuse area into the RIT family at a summer sendoff event in New Hartford. Thanks to **Cathy Newell-Walters '79**, **Richard Walters '78** and **Blake Walters '18** for hosting.

RIT alumni attended Brew at the Zoo and Wine Too! at Rosamond Gifford Zoo on Aug. 5. Thanks to **Heather Andersen '07** for hosting.

On Sept. 11, alumni cruised along Skaneateles Lake enjoying an afternoon of sights and networking. Thanks to host **Heather Andersen '07**.

Washington, D.C.

Brian '81, **'84**, **Kim '83**, **'85** and **Emily '16 O'Shaughnessy** hosted a summer sendoff event in their home on July 30, welcoming incoming students and families from the D.C. Metro area to the RIT family.

WELCOME HOME . . .



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Class Notes

Key to abbreviations

CAST	College of Applied Science and Technology
CCE	College of Continuing Education (now SOIS)
CHST	College of Health Sciences and Technology
CIAS	College of Imaging Arts and Sciences
CLA	College of Liberal Arts
COS	College of Science
FAA	Fine and Applied Arts (now CIAS)
GAP	Graphic Arts and Photography (now CIAS)
GGCIS	B. Thomas Golisano College of Computing and Information Sciences
KGCOE	Kate Gleason College of Engineering
NTID	National Technical Institute for the Deaf
SOIS	School of Individualized Study
SCB	Saunders College of Business
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.

1964



Ronald Sherman '64 (GAP) has two black-and-white photos of 1970s Atlanta on permanent display at the Smithsonian's National Museum of African American History and Culture, and a black-and-white print of Coretta Scott King and Jimmy Carter at the Martin Luther King Jr. National Historic Site. During the month of October 2015, 12 color and black-and-white prints were displayed at a Roswell, Ga., arts exhibition.

1966

David Rylance '66 (GAP) and **Raymond Rignel '66 (GAP)** planned to attend Brick City Homecoming & Family Weekend on Oct. 14-16, including the Golden Circle Luncheon celebrating the 50th Reunion Class.

1969

Carole Ozark '69 (COS) celebrated 45 years at Upstate University Hospital in Syracuse. The first part of her career was spent in clinical pathology within the chemistry department. In 1983, she started in the new Regional Perinatal Center Laboratory, where she is the laboratory manager/supervisor. She was honored June 9 at Upstate's 2016 Employee Recognition Day.



Diana (DeSio) Hauman '69 (SCB) retired in 2014 after three decades as a learning and development professional. Later that year, she joined the Bloomington (Ill.) City Council as Alderman from Ward 8. In addition to her public service, she is involved in Kiwanis, the Multicultural Leadership Program, Illinois State University's Senior Professionals and the League of Women Voters. Hauman and her husband, Dave, also retired, enjoy traveling, reading and road trips in their vintage British cars.

1970



Frank Argento '70 (FAA), associate professor emeritus, opened a studio and gallery in September at 510 Park Ave., Rochester. Argento, an American contemporary artist who retired from NTID/Visual Communications in July 2015, will be showing his paintings, drawings and prints. For details, go to www.frankargentoart.com.

1972



Nov. 15, 2016. For details, go to www.maggieking.com.

Margaret (Gabler) King '72 (SCB) will see the second mystery in her Hazel Rose Book Group series, *Murder at the Moonshine Inn*, published on



retired in March 2016 from Dominion Resources after a 44-year career in procurement, construction, OEM and utility experience. He now works as a senior consultant with WorleyParsons in Reading, Pa., working from a lake house near Roxboro, N.C.



Ronald Janicki '72 (SCB) retired first after 30 years with the Eastman Kodak Co., where he lived in major cities in the East and Midwest, and then from the Arizona Small Business Association in Tucson. He lives in Oro Valley, Ariz., where the sky is blue, the sun is hot and the beer is cold.

1973



Michael (Rothman) Havelin '71 (GAP), '73 (GAP) completed his eighth novel, *The Embezzler Didn't*. It is expected to be

released on Amazon, Kindle and Smashwords this fall. He also has written two photography books, *Photography for Writers* and *Complete Manual of Captive Animal Photography*, as well as a book on mystery writing, *Mystery Mastery*.

1975

Jack Romano '75 (SCB) has been awarded the Chartered Property Casualty Underwriter (CPCU) designation and diploma by The Institutes for successfully completing courses and examinations on risk management principles, insurance policy contracts and coverage analysis. He is a process analyst with State Farm Mutual Insurance Co., stationed at the Atlanta Hub in Dunwoody, Ga. Before that, Romano was a commissioned officer in the U.S. Army, worked in the software industry for 18 years and in real estate for 10 years. He and his wife, Susan, have two grown sons.

John Green '75 (FAA) closed his graphic design, illustration and advertising business, Creative Colleagues, which he owned and operated from 1985 to 2015. Since then, he spends half of his time at his 40-acre off-the-grid ranch in northern Arizona. When not dodging coyotes, cows or rattlesnakes, he has found time to write and publish three books, including *Confessions of a Graphic Prostitute*, which opens with an excerpt from a lecture given by Professor Jack Slutsky at RIT in 1971. His books are available on Amazon, Lulu or directly from the author. For more information, go to www.2035TheElephantintheRoom.com.

1976

Michael Bradbury '76 (COS) moved last year to California to take up a position as professor of biochemistry, molecular biology and genetics at the new California Northstate University College of Medicine. This is the second medical school where he has been a founding faculty member. Last spring, he was made chair of the Department of Basic Sciences.

1977

Alan Frohlichstein '76 (GAP), '77 (CIAS) has been elected to the Ophthalmic Photographers' Society Board of Directors.

1978

Dudley Boden '77 (GAP), '78 (GAP) has been promoted to president and CEO of Magnetic Analysis Corp. Previously he was vice president of sales and marketing. He has been with Magnetic Analysis for 15 years.

Susan (Connolly) Applegate '78 (GAP), '78 (CIAS), '81 (SCB) is now vice president of strategic pricing at AECOM. She is based in Northern Virginia.

1979

William Ehrlich '77 (GAP), '79 (GAP) has returned to ColorDynamics as director of sales. He has responsibility of the sales team as well as serving on the executive committee.

1980

Richard S. Cowan '80 (KGCOE) has been elected as a Fellow of the American Society of Mechanical Engineers (ASME) in recognition of his achievements in and advocacy for the mechanical engineering profession. He serves as director of the Laboratory for Extreme Tribology and Diagnostics at Georgia Institute of Technology.



Kenneth Kuzia '78 (CCE), '80 (CCE) retired from the human resources department at Rochester Gas & Electric in 2003 after

34-plus years and is enjoying his retirement with some small-scale consulting, art and photography, writing and other activities. He is sharing his retirement

with his wife, Sharon, who recently changed careers when she obtained her teaching certifications in New York state. He also is a charter member and web manager for the Victor Art Group. See his art at <http://vicartgroup.wixsite.com/the-art-of-ken-kuzia>.

1981

Kenneth Dunner '79 (COS), '81 (COS) marked 28 years of employment at University of Texas MD Anderson Cancer Center in April 2016. In May 2016, he was promoted to research laboratory manager in the department of cancer biology. He is the manager of the High Resolution Electron Microscopy Facility, running the day-to-day operations to provide electron microscopy services to all research investigators who require data analysis at the surface or ultrastructural cellular level.



John Bale '79 (GAP), '81 (GAP) wrote and launched his first novel, *Phoenix in the Middle of the Road*, which reached Amazon's No. 2 spot for political fiction (amzn.to/1EdBi6G). His political thriller/epic follows how a frustrated citizen running for Congress as an Independent is propelled into a world of partisanship, scandals, backstabbing and secret deals. However, in an unusual turn of events, he ends up in a unique position to prevent a bizarre constitutional crisis. He expects to have his second novel published sometime in 2017.



Lynne Damianos '79 (GAP), '81 (GAP) was interviewed by Radio Entrepreneurs to discuss how she integrated publishing into her commercial photography business. See the video at <http://tinyurl.com/htdcfg5>.

Mary Manton '80 (COS), '81 (COS) graduated from the Mount Sinai School of Medicine in New York City

in 1985. She completed her residency in family medicine at Middlesex Hospital, Middletown, Conn., in 1988. She is a college health physician at the University of Connecticut. She completed a master's degree in public health through UConn in 2004. She presented a lecture at the 2016 Annual Meeting of the American College Health Association in June 2016 in San Francisco on the topic of "Directly-Observed 3-Month Therapy to Treat Latent Tuberculosis Infection" in the college setting.



Nancy Cohen '79 (FAA), '81 (FAA) lives and works in Jersey City, N.J. The artist's most recent installation, *Hackensack Dreaming*, is made of glass, handmade paper, rubber and other materials. It was on display in the UrbanGlass gallery space in Brooklyn from Sept. 7 until Nov. 5. Other projects include installations in Karmiel, Israel; the CODA Museum in Holland; the Katonah Museum of Art in New York; and a collaboration with environmentalists based on the Mullica River for the Noyes Museum of Art in New Jersey.

1982

Gary Sutto '82 (GAP) is a photographer in Seattle who produces commercial, editorial, documentary and personal photography projects. He was a visual information specialist/industrial and corporate photographer for the Department of the Navy under the Department of Defense at the Puget Sound Naval Shipyard in Bremerton, Wash., from 2011 until 2014. To learn more, go to www.GarySutto.com.



Thomas Cardinali '80 (GAP), '82 (GAP), '91 (KGCOE) and Denise Ames Cardinali are proud to add another generation to the RIT family as their daughter, Natalie, began this fall in the B. Thomas Golisano College of Computing and Information Sciences. Natalie has joined Computer Science House and the Women in Computing group within that college. Thomas is a microlithography engineer at HP Inc.

1983



Oliver Cannady '83 (CCE) has a long résumé of volunteer activities, including director and board president of the Pennsylvania Health Access Network; team

member/communications specialist with the Pottstown Area 1 Democratic Action Committee; volunteer with Area 4 Montgomery County PA Democrats; certified application counselor, Patient Protection and Affordable Care Act; and certified PP and ACA Trainer with the Pennsylvania Health Access Network.

1984



Seth Affoumado '84 (GAP) has been living in the San Francisco Bay Area for more than 30 years. He is the manager and lead teacher at Bandworks, a music program in San Rafael, Calif., for children and adults. He recently married Veronica Page-Affoumado in a small ceremony in San Rafael. His RIT classmate and roommate, **Curtis Anderson '84 (CIAS)**, and his wife, Linda, attended the wedding. His other passion besides music is restoring and re-seasoning cast iron cookware, as he is known as TheSkilletDoctor.com.



Gregory Curtis '84 (FAA) was building a log cabin in Vermont when he signed for a FedEx package with an engagement ring inside. He opened it and proposed to his girlfriend, Rose Weinberger. She said "Yes."



Martha DiMeo '84 (GAP), along with fellow Wolf PAC volunteers, worked to make history in the state of Rhode Island. Through the efforts of Wolf PAC, Rhode Island became the fifth state to call for an Article V Convention to propose a Free and Fair Elections Amendment to the U.S. Constitution. The amendment would restore repre-

sentative democracy by reversing Citizens United and remove the corrupting influence of private money in public elections. DiMeo is pictured in the first row, first from the left.



Ruth (Detrick) Lefton '84 (SCB) has been appointed chief operating officer of Einstein Medical Center Philadelphia. Lefton has been part of Einstein Healthcare Network for more than 20 years, having served as chief operating officer for MossRehab, Einstein Medical Center Elkins Park and Willowcrest for the past 14 years. Prior to that she was assistant vice president for MossRehab.

1986

Albert Zahniser '86 (CAST), cloud architect at Philadelphia-based Anexinet, has passed the Amazon Web Services Certified SysOps Administrator—Associate Level Exam. This is his second of the five AWS certifications available.

1989

Melisa Tanger-Brown '88 (COS), '89 (COS), '01 (CAST) earned a Doctorate of Education in higher education leadership from the University of Rochester, Warner School of Education, in May 2016. She teaches as an adjunct at the Warner School of Education while continuing to work in University Information Technology at the University of Rochester, overseeing the management of the Learning Management System.

1992

Loren "Jake" Hendrix '92 (FAA) recently released a feature length movie entitled *3 The Motion Picture*. Go to www.JakeHendrix.com for more information.



Mark Pizza '92 (GAP) has recently been promoted to vice president, Operations at Catalyst, Viacom in New York City.

He joined the Catalyst team in 2014, which is a full-service in-house advertising, branding and marketing studio. He also continues his personal photography career at www.markpizzaart.com.

Tiger Love



College of Applied Science and Technology graduates Steve Skurski '15 and Danyelle Greene '13 met as housemates in 2012. They were married in October.

Grads shift gears from roommates to more

Danyelle Greene '13 (civil engineering technology) and Steve Skurski '15 (mechanical engineering technology) weren't always a package deal. In fact, they started out as far from one.

In 2012, Danyelle was in her fourth year of study at RIT. She was working to recruit a friend, David Donaldson '13 who goes by "Shades," to fill the last empty room in her five-bedroom house when a conflict arose. Shades, a mutual friend of Danyelle and Steve, had already committed to rooming with Steve and had no plans to leave him behind.

"My housemates and I needed one more person to help with the rent," said Danyelle. "I had met Shades through line dancing and was pushing him to abandon Steve, who I didn't know at the time, but he wouldn't budge."

After fierce negotiations, an agreement was reached and Shades joined the lease. Steve did too.

Four years later, Steve and Danyelle have signed a contract of their own. This time Shades was simply an onlooker.

Steve and Danyelle met in person three months following the arrangement in 2012. Danyelle was moving into the off-campus home, which Steve had already moved into, when they found their first bit of common ground. Steve drove a 2000 Chevy pick-up

truck. Danyelle drove the same in an earlier model.

"I was bringing more boxes into the house through the garage when Steve was arriving back home with Shades," said Danyelle. "There was a moment where I glanced to the side to look at him and our eyes locked because he was looking at me too. It was like a scene from a movie."

Despite the storybook moment, sparks weren't flying yet. Danyelle was in a relationship with a boy from back home and Steve was revisiting a high school fling, but a strong friendship was beginning to form.

"I was on the Baja team at RIT, and Danyelle had a lot of friends who were on the team as well," said Steve. "She wasn't on it because of the time commitment, but she could have been. We hung around with the same people and we got along really well."

From engineering, to racing, to hunting and farming, to line dancing, Danyelle and Steve had a lot in common, so much so that when the timing was right and both had broken off their previous relationships, they opted to pursue one of their own. They began dating in December of 2012.

"It was quick. We had our first kiss in the back of a Ford pick-up truck, which felt so wrong because we're both Chevy people," Danyelle said. "We've been stuck with each



Photos by Jamie Lynn Zambori

other ever since. It was a really redneck romance."

The romance turned into an engagement in July 2015.

Steve and Danyelle were married on Oct. 1. Their wedding guests included 15 former and current members of the Baja team.

The two live in Thompson, Pa., on a farm about two miles up the road from Steve's childhood home.

"My mom and my grandma both met Danyelle early on when we were just friends," Steve said. "The day that they met her, they told me that she was going to be the one that I would marry. I rolled my eyes at the time, but they were right."

Lauren Peace '17

1993



Joseph Brennan '93 (FAA) would like to introduce *Rock-N-Roll*, one of a two-piece commission from a client. He was sent the Rock-N-Roll license plates and asked to display them.

Brian Esque '93 (KGCOE) was in the news when Avera, an industry-leading developer of test solutions and services for electronic device-makers worldwide, acquired U.S.-based Nexjen Systems. Nexjen specialized in the design and fabrication of custom test, measurement and automation systems for industrial clients. Esque, vice-president of Nexjen, will continue to participate in day-to-day operations and expansion plans as an Avera employee.

1994

Gloria Slomczynski '94 (SCB) is the owner of GeoMetrick Enterprises, which was included in the *Global Health & Pharma* magazine 2016 International Life Sciences Awards. The magazine named the Ann Arbor, Mich.-based business "Best Laboratory Informatics Solutions Company—USA." GeoMetrick Enterprises provides laboratory software services for systems such as LIMS, ELN and LES. These services include working with customers to select the right type of and brand of software, as well as implementations services such as configuration, programming and documentation.

1995

Kurt Stoskopf '95 (CIAS), '00 (CIAS) recently finished his first year as chairperson of the NTID Visual Communications Studies department at RIT and is looking forward to the next year working with students, faculty, staff and alumni.

1996



Aimee Zakrewski Clark '96 (CLA) has taken on managing her daughters in Hollywood, in addition to having a private practice as a marriage and family therapist. Her 7-year-old, Olivia, is in commercials and on toy boxes. Her 5-year-old, Maya, can be seen on Nickelodeon's *The Thundermans* as Chloe Thunderman. The show just won the 2016 Kid's Choice Award for Best Children's TV Show. Linking therapy

with Hollywood, she started the Conscious Hollywood movement—with the intention of creating a higher awareness and sense of community in the entertainment industry.

1997

Alyson Lim '97 (CIAS) has just completed her master's degree from Pennsylvania State University in homeland security.



William Traut '97 (CIAS) designed The Dirty Bird, a bird bath that fits over an existing septic vent and can be installed in about five minutes by homeowners. It is the only product specifically designed as a decorative septic vent concealer. Learn more at www.thedirtybird.com.

1998



Kuljit Chadha '98 (SCB) is married to Preeti Chadha. They have two children. He works at Verizon Wireless in Basking Ridge, N.J.

1999



Sheri Scavone '99 (CAST) has been recognized as one of Western New York's outstanding Women of Influence for her nonprofit leadership. She is the executive director of the WNY Women's Foundation, dedicated to removing barriers and creating opportunities for girls and women to thrive and contribute to the community.

2000

Jennifer Louten '00 (COS) wrote the textbook *Essential Human Virology*, published by Elsevier/Academic Press.

2001

Jeffrey Fasoldt '01 (SCB) recently joined Annese & Associates Inc., an upstate New York-based technology company, as executive vice president and chief financial officer.

2002

Cheri McKee '88 (NTID), '02 (CLA) earned a Master of Arts degree in ministry from Piedmont International University in May 2016.

2003



Eric Willis '03 (GCCIS) is the director of engineering at Flickr and when not browsing endless high-resolution pet photos is keeping things exciting at this 13-year-old startup.



Kelly (Schottler) Petersen '03 (CIAS) married Brent Petersen on July 30, 2016, in Birchwood, Wis. The couple celebrated their wedding weekend surrounded by close family and friends, including a few other RIT CIAS graduates. They live in St. Joseph, Mo.



Tara Simpson '03 (CIAS) married Jeff Simpson on July 9, 2016, in Alexandria, Va. The wedding included a surprise Bollywood dance performance by the couple and their bridal party and a

colorful Alexandria fireworks display. Alumni in attendance included: bridesmaid **Jessica Latos '05 (CIAS)**; groomsman **Kurt Nelson '11 (CAST)**; and father of the flower girl, **James Cordero '03 (KGCOE)**. It was also attended by Greg Moss, senior director of the Center for Recreation and Intramurals at RIT.

2004

Adam Grein '04 (CAST) is a 2016 MIT Infinite Mile Award winner, which recognizes those individuals who have made extraordinary contributions within their own labs to help the Institute carry out its mission. The nomination was based on the capital project management of new radiation detectors and associated equipment re-designs for the MITR effluent system. Grein has been a mechanical engineer and senior reactor operator at the Massachusetts Institute of Technology Nuclear Reactor Laboratory since graduating in 2004.



Kathy McClure '04 (CIAS) co-authored her first book, *There's an Easier Way: 21 Ways to Lovingly Raise Your Children Without Regrets*. It reached the top 50 in the Amazon Best Sellers List for Mothering in less than three days.

Sonja Lengel '04 (CIAS) received her Master of Science degree in historic preservation from the University of Pennsylvania. She is working in Cranbury, N.J., as an architectural historian.

2005



Christopher Taylor '05 (GCCIS) received a promotion to QA team lead at Lifeway Christian Resources, in which he develops Java-based automation for microservice-based platforms as well as lead local user groups on quality assurance and agile practices.

Tiger Cubs



1 Ronald Swanson '70 (GAP) and his wife, Pam, announce the birth of Emmitt, their second grandchild. Their daughter, Courtney, and her husband, Jason Pleiss, also have a 3 ½-year-old daughter, Gretchen, who adores her new little brother.

2 Thomas Marz0 '79 (GAP) is proud to announce the birth of his grandson, Thomas Christopher Marz0, in June 2016.

3 Stephen Mac '98 (CIAS) and Jen Mac welcomed Alison Jeanne "Ali" into the world on Feb. 6, 2016. She joins big sister Gabby.

4 Ellen "Marie" Nye '03 (CIAS), '05 (CIAS) and Andrew Nye '05 (CAST) welcomed Albright Carleo Nye on April 14, 2015.

5 Eric Nickerson '03 (GCCIS) and his wife, Kerri, welcomed their first child, Ethan Howard, on July 10, 2016.

6 Geoffrey Martin '04 (CIAS) welcomed a daughter, Julia, in April 2016. She joins her sister, Nora, and brother, Peter, as potential RIT alumni.

7 Jocelyn (Anama) Banyard '05 (CAST) and Jared Banyard '06 (CAST) welcomed their daughter, Alani Rose Banyard, on May 3, 2016, in Ridgewood, N.J.

8 Seth Burgess '06 (GCCIS), '09 (SCB) and Jessica Burgess are proud to announce the birth of a baby girl, Briana Mae, on April 10, 2016, in Newark, N.Y.

9 Michael Muttitt '06 (GCCIS) and his wife, Julia, welcomed a son, Jack Philip Muttitt, in May 2016.

10 Jonathan Arbogast '06 (KGCOE) and his wife, Amy, are proud to announce the birth of their son, Alexander, on May 3, 2016.

11 Alan Krzywicki '07 (KGCOE) and Kyle Krzywicki '07 (SCB) welcomed Lucy Caroline Krzywicki on April 5, 2016.

12 Ryan Hallermann '07 (NTID) is the proud parent of Jack Francis Hallermann, born in Minneapolis.



Sean Scott '07 (CLA), '07 (CLA) and his wife, **Claire Young Scott '07 (CLA)**, welcomed twins, Patrick and Evan, born in December 2015.

13 Narin Nhem '07 (GCCIS) and his wife, Amy, welcomed their first child, George Nhem, in May 2016.

14 Kristen Mayer '07 (CIAS) and **Justin Mayer '07 (CIAS)** welcomed their first child, James Robert Mayer, on July 12, 2016. Proud uncles include **Eric Madar '12 (CIAS)** and **Alex Madar '16 (CAST)**.

15 Matthew Wavrek '08 (KGCOE), '08 (KGCOE) and **Jamie (Winch) Wavrek '09 (COS)** are excited to announce the birth of their daughter, Fiona Grace Wavrek, on April 30, 2016.

16 Brittany (Wooten) Nimeh '07 (CIAS) and **Tony Nimeh '08 (KGCOE)** are proud to announce the birth of their twins, Lucas and Paige Nimeh, on June 15, 2016, in Winston-Salem, N.C.

17 Erin (Schmidtman) Purington '10 (COS) and **Jonathan Purington '10 (COS)** welcomed their first child, Calvin Thomas, on June 24, 2016. He wears his tiger stripes well.

18 Elizabeth (Giraldi) McGlone '07 (NTID), '09 (SCB) and **Todd McGlone '99 (NTID)** welcomed their second daughter, Sofia Paras McGlone. She joins big sister Michaela Elizabeth, 2.

19 Jason Romer '09 (CAST) and his wife, Lauren, welcomed a son, Corey Robert, on May 30, 2016. **David Doty '09 (CAST)** has been named Corey's godfather.

20 Laura Rocco '09 (NTID) and her husband, Ronnie, met in 2006 and started dating in 2009. They got engaged in 2015 and had their first child, Bryan, in December 2015.

Allison La Carte '09 (CAST) welcomed a baby girl in May 2016.

Ercan Erciyes '11 (KGCOE), '11 (KGCOE) and his wife, Ebru, are happy to announce the birth of their son, Alp Erciyes, on May 23.



Margarita Abaunza '05 (SCB) married Timothy Connor of Baltimore on Sept. 19, 2015, in Masaya, Nicaragua. Alumni who attended include: **Alethia Jimenez '06 (COS)**; **Maura Pincay '05 (SCB)**; **Grissell Cachicatari '05 (CLA)**, '07 (SCB); and **Barbara Varas '05 (CAST)**.



Brett Hall '05 (CIAS) was nominated for a Daytime Emmy award for his role as animation director on the PBS Kids show *Peg + Cat*, for the third year in a row. This year, he received dual nominations in the Outstanding Pre-School Children's Animated Program as well as Outstanding Directing in an Animated Program categories.

2006

Ashish Vora '06 (KGCOE) is a director of product engineering, new product introduction at InvenSense Inc. in San Jose, Calif.



Merve Ikiisik '06 (KGCOE) and **Bulent Ikiisik** are happy to announce that they got married on Sept. 5, 2015, in Istanbul, Turkey. Family, friends and RIT alumni **Tayfun Uslu '04 (CAST)**, '07 (CAST) and **Manaal Eisa '08 (KGCOE)**, '10 (KGCOE)—also the bridesmaid—attended the beach and pool-side reception. The couple honeymooned in Seychelles. Ikiisik accepted a project management position at National Cash Register Co.



Brian Dye '06 (CAST) graduated with his Master of Science in industrial hygiene from Montana Tech of the University of Montana in

December 2015. He now serves as a certified safety professional for the Air Force Safety Center, while also being the chief executive officer for his own company, Unified Safety Group.

Cameron Jones '06 (CIAS), '06 (CAST) graduated last May from Arizona State University with a master's degree in business administration, specializing in supply chain management. After a successful internship at Apple last summer, he recently re-joined his team full-time in corporate procurement as a global supply manager.

2007



Lou Ann Wyr '82 (COS), '07 (CAST), laboratory director from Sentara Laboratory Services in Norfolk, Va., and **John Hall '14 (SCB)**, laboratory manager, were honored to be members of the team awarded the MLO 2016 Lab of the Year.



Rachel (Mann) Ferraro '07 (SCB) left the Rochester area in 2010 after graduation to pursue opportunities in the Sunshine State. In Florida,

she happened to run into an opportunity working for Rochester-based company Paychex. She's been with the company for over five years now and holds the position of senior payroll specialist.

Bryan Ijeoma '07 (GCCIS) has been awarded a fellowship from the New York Foundation for the Arts (NYFA) in Architecture/Environmental Structures/Design. Less than 4 percent of applicants receive this prestigious award. The organization awarded a total of \$647,000 to 98 artists (including five collaborations) throughout New York state. The program is highly competitive and this year's recipients and finalists were selected by discipline-specific peer panels from an applicant pool of 2,669.

2008

Matthew Wavrek '08 (KGCOE), '08 (KGCOE) is now the director of engineering for Big Joe Forklifts. He has relocated to the Wisconsin area and is based at the company factory. He is responsible for product strategy, special designs, compliance testing and development support for new products and options. Big Joe is a supplier of pedestrian-type pallet trucks and stackers to the lift truck industry.

Geoffrey Will '08 (KGCOE) achieved entry into the 1,000-pounds club on Feb. 3, 2016. Originally expecting to take one year to complete, he is ecstatic having actually completed a New Year's resolution. Current lifts as of August 2016 are 445-pound deadlift, 355-pound squat, 245-pound bench.

David Clarke '08 (COS) celebrated his 35th wedding anniversary with his wife, Kathy, on Aug. 21, 2016. They have two grandchildren: Carter Shaughnessy, 2, and Cooper Shaughnessy, 5 months.



Aditi Khare '08 (KGCOE) started her journey as an engineer at Eaton in 2010. She considers the first three years an endurance test, challenging her to navigate tough situations, on many different assignments. Khare was recognized and rewarded by the company for her accomplishments as she took on the next level of challenges. She received her second promotion as engineering manager, increasing her responsibilities from managing five to 10 employees to overseeing an engineering team of 12 team members. Khare is also a recipient of the American Council of Engineering Companies Women in Engineering Excellence Awards for 2016.

2009



Ivanka Neary '09 (SCB), '15 (KGCOE) married Michael Neary on Dec. 8, 2015, on the Island of Hawaii (Big Island). The ceremony was attended by family, friends and numerous RIT alumni.



Daniel Maffia '09 (NTID) married Justin DeMartin on May 29, 2016. The ceremony took place in Buffalo, N.Y., and was attended by family, friends and numerous RIT faculty, staff and alumni.

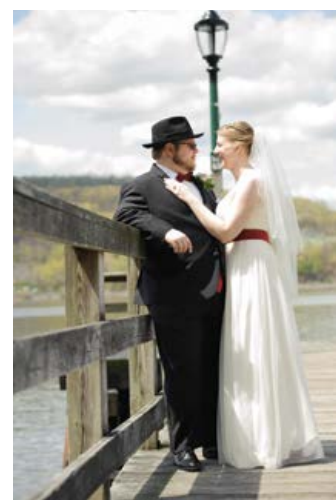
Mark Tiffany '09 (CLA) accepted a position as principal trainer at the University of Rochester Medical Center. Primary responsibility is training

electronic medical records software for perioperative and anesthesia end users. He is officially certified in Epic Systems' OpTime and Anesthesia modules.



Crystal Phan '09 (NTID) has worked at WIS International as an inventory associate since March 2016.

Amanda (Kristoff) Weissman '09 (KGCOE), '09 (COS) has been recognized by the Society of Women Engineers (SWE) for her impact on the society as well as the engineering community with the Distinguished New Engineer award. She was expected to accept the award at SWE's annual conference in Philadelphia on Oct. 28, during the formal awards banquet.



Thomas "TJ" Wasik '09 (GCCIS) married Megan Bodenschatz on April 30, 2016, in Rosendale, N.Y. Alumni who attended include: **David Rigolo '08 (KGCOE)**, '09 (KGCOE); **Mike Delles '11 (KGCOE)**; **Todd Duncan '08 (KGCOE)**; **Ted Janiszewski '09 (KGCOE)**; **Peter-John Rowe '14 (GCCIS)**; **Veronica Zoeckler '16 (CIAS)**; **Emmanuel Magsino '12 (CHST)**; and **Rev. Peter Mottola '07 (GCCIS)**.

Brady Marrinan '09 (CIAS), a U.S. Navy submarine veteran, and his wife, Jessica, recently opened PGHC Graphics in Bowie, Md. PGHC Graphics offers a full line of promotional screen print services focused on supporting bands, local small businesses and veterans.

2010



Nicholas Cheong '10 (CLA) joined Colorado State Bank and Trust as a mortgage banker in March 2016. He serves in their downtown Denver location. He represented Singapore at World Trade Day Denver 2016 on May 19.

He was the only non-diplomat country representative at the event and met numerous business, government and nonprofit leaders from Colorado.



Erika (Soltis) Griffith '10 (KGCOE), '10 (KGCOE) and John Griffith '10 (KGCOE) are happy to announce their marriage on April 16, 2016. The wedding took place on the beach in Cancun, Mexico. They live in Dallas. RIT alumni friends in attendance included: **Tommy Giuffre '10 (KGCOE); Nick Griffith '12 (SCB); Jess Kopitz '11 (CLA); Rob Laiacona '10 (KGCOE); Pete Lowry '10 (KGCOE); Noah Nelson '11 (CAST); Dan Pulito '11 (KGCOE); and Jesse Steiner '10 (KGCOE).**



Richard Rydza '10 (CAST) has been hired as the risk manager for Clark Rigging and Rental in Lockport, N.Y.



Sophie Schillaci '10 (CLA) and Mike Boya '11 (GCCIS) celebrated their wedding in Napa, Calif., on July 2, 2016, with close friends and family, including RIT ZTA sisters and RIT lacrosse alumni. The bride's ZTA sister Kayla Himelein, whom she met on the first day of orientation at RIT, officiated the wedding. Several RIT ZTA sisters and RIT lacrosse alumni also served in the wedding party. Schillaci moved to Los Angeles for work in January 2011, and Boya followed her in June 2012. She worked for RIT SportsZone for all four years at RIT, starting as a reporter and winning a college Emmy in her senior year as executive producer. He played for the RIT men's lacrosse team from 2007 to 2010. Schillaci is currently working for *Entertainment Tonight* as a contributing correspondent and EOnline.com as a senior writer. Boya is employed at Warner Bros. as senior information security engineer.

2011



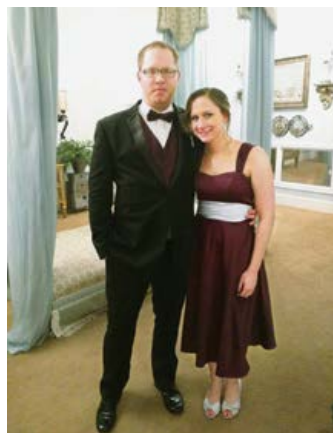
Anthony Blatner '11 (KGCOE), '11 (KGCOE) co-founded Jackrabbit Mobile in Austin, Texas. Jackrabbit Mobile moved into its new office in downtown Austin in a renovated old bike shop. For more information, go to www.jackrabbitmobile.com.



Joshua Rodems '11 (CAST) was promoted to associate by Erdman Anthony's board of directors. He is a structural engineer and a member of the transportation core business team in the firm's Rochester office. The Rochester resident is an adjunct professor at the University at Buffalo and serves as a director on the board of the Rochester section of the American Society of Civil Engineers (ASCE).

2012

Corey Sinay '12 (GCCIS) was promoted to associate at Booz Allen Hamilton in July 2016.



Jason Scott '12 (CAST) got engaged to longtime girlfriend Brianna Worthington on March 31, 2016. With their journey starting as high school sweethearts, they look forward to beginning the next chapter of their lives.

2013

David Cardenas '13 (GCCIS), '13 (NTID), '15 (GCCIS) accepted a position as an information technology specialist with the Headquarters, U.S. Military Entrance Processing Command in North Chicago, Ill. The job involves the installation, configuration and management of the network infrastructure in support of the organization's IT needs.

2014



Certified Six Sigma Black Belt
The Global Voice of Quality™

Grissell Gutierrez '14 (CAST) took and passed the ASQ SSB Exam and is now a Certified Six Sigma Black Belt.



Lisa Barber '14 (CLA) and Lucas Barber '14 (SCB) resigned from their positions at RIT to travel the world, starting with a one-way ticket to New Zealand. They are the co-authors behind the travel blog, Barbers Go Global. Their goal is to simplify their daily lives to create memorable global experiences. Throughout their travels, they are working on a long-term project that examines the intersection of traditional and contemporary culture as experienced by indigenous creatives. They hope to connect with RIT alumni around the world.



Nadya Spice '14 (COS) started a new position in July 2016 as a program analyst at the U.S. Environmental Protection Agency's Office of Enforcement and Compliance Assurance in Washington, D.C. She will be working on Superfund enforcement activities.



Liana Charles '14 (CIAS) won a grant in Charlotte, N.C., to make an interactive adult coloring wall, inspired by adult coloring books. The goal is to bring the Charlotte community together.

2015

Andrew Lambert '15 (KGCOE) won the GEM Fellowship and was accepted into the University of Wisconsin-Madison Ph.D. program for electrical engineering. His research focus is experimental quantum computing. He also interned at Intel in the summer prior to his Ph.D. studies.

Jesse Redlo '15 (CAST), '16 (CAST) graduated with her master's degree in May of 2016 and is now an adjunct instructor at RIT in the Academic Support Center.

Jarlisa Corbett '15 (SOIS) will be starting with AmeriCorps VISTA this fall. She will be acting as community liaison for D.C. Public Schools Office of Out of School Time Programs in partnership with George Washington University Center for Civic Engagement and Public Service.

Josh Dranoff '15 (GIS), recycling coordinator for the City of Rochester, was named to the inaugural Waste360 40 Under 40 awards list, a program recognizing inspiring and innovative professionals under the age of 40 whose work in the waste, recycling and organics industry has made a significant contribution to the industry.

2016

Geoffrey Berl '16 (GCCIS) got a new job at PTC Thingworx as a software engineer in the sustaining and reliability department.

Kristyn Wasikowski '16 (SCB) is now an IT analyst in the Technical Development Program at Liberty Mutual. She is currently in her first rotation as a business systems analyst with the U.S. Consumer Markets Product Innovation Systems team.

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RIT remembers Provost Emeritus Stanley McKenzie



Stanley McKenzie

Stanley McKenzie, RIT provost emeritus and former vice president for Academic Affairs, died Nov. 8 in Tucson, Ariz. McKenzie served for 41 years in several roles at RIT until his retirement in 2011.

McKenzie joined the RIT English department in 1967 and taught for 34 years before assuming his role in the RIT administration in 1994. His other roles included director of judicial affairs, assistant to the provost and acting dean of the College of Liberal Arts. He also presented the keynote addresses at RIT's Academic Convocation and Commencement ceremonies in 2008.

Other milestone contributions include

serving as co-vice-chair of the RIT Strategic Planning Committee, co-chair of the RIT Priorities and Objectives Committee, chair of Academic Senate, President's Search Committee member, *Reporter* magazine advisory board member, Residence Life Advisory Board member, and faculty adviser of Phi Kappa Tau fraternity. He earned NTID's National Advisory Group Outstanding Service Award and the Division of Student Affairs' A+ Participation/Leadership Award, among other honors. He also presented and edited numerous papers and was published often in academic journals. He earned a bachelor's degree in science and humanities from MIT, and he holds a master's degree and a doctoral degree in English literature from the University of Rochester.

"Stan McKenzie is an RIT icon," said RIT President Bill Destler. "As an administrator, he played a major role in the advancement of the university into the ranks of the nation's largest and finest private universities. As an

educator, he had the innate ability to impart his zest for learning to his students. He was a beloved member of the RIT family and will truly be missed."

Shortly before retiring, McKenzie returned to his roots: teaching literature, primarily Shakespeare, to undergraduates.

In 2013, he pledged \$300,000 to the College of Liberal Arts to create the Stan McKenzie Salon Endowed Fund that allows faculty, staff and students to gather to discuss research and current events, provides an honorarium to featured speakers, helps with event marketing and provides released time for up to one course for a faculty coordinator each academic year. In addition, extensive renovations created The Stan McKenzie Commons in Liberal Arts Hall.

"Stan's most endearing, enduring and enviable personal quality was authenticity," said Bruce Austin, director of RIT Press and longtime friend and colleague of McKenzie. "He was genuine to the bone."



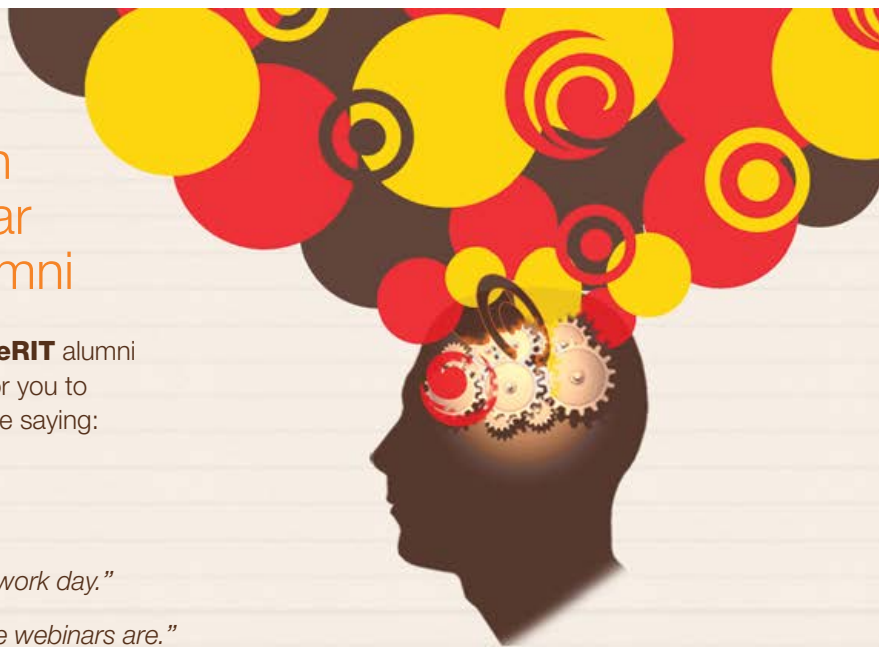
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In MEMORIAM

Alumni

- 1934**
Mildred (Whiting) Whaley '34 (FAA), July 10, 2016
- 1936**
Florence (Armstrong) Field '36 (FAA), May 29, 2016
- 1939**
Ralph R. Stowell '39 (KGCOE), June 19, 2016
- 1941**
Joseph P. Navik '41 (KGCOE), July 17, 2016
- 1942**
John F. Horn '42 (KGCOE), July 1, 2016
- 1944**
C. Richard Coburn '44 (GAP), July 7, 2016
- 1948**
Anthony J. Amorese '48 (KGCOE), Aug. 7, 2016
Rachel (Reed) Long '48 (SCB), June 12, 2016
Raymond K. Spencer '48 (COS), July 21, 2016
Richard B. Ambrose '48 (COS), May 25, 2016
Franklyn Dillon '48 (GAP), Aug. 18, 2016
- 1949**
Nancy (Olson) Griffin '49 (SCB), Aug. 11, 2016
- 1950**
Harley R. Schneider '50 (CCE), May 23, 2016
Ralph A. Fuller '50 (KGCOE), May 29, 2016
- 1951**
Phyllis (Mull) Allen '51 (SCB), July 01, 2016
Jimmie F. Condon '51 (KGCOE), '69 (KGCOE), April 27, 2016
Mary (Wilbur) Emmel '51 (SCB), July 9, 2016
- 1951**
Charles B. Swartz '51 (CCE), May 6, 2016
Robert F. Garty '51 (GAP), June 24, 2016
- 1952**
Elaine (Cohen) Nusbaum '52 (FAA), '75 (FAA), June 24, 2016
- 1953**
Katharine (Murray) LaLonde '53 (SCB), April 28, 2016
Georgia (Watson) Hannold '53 (SCB), April 28, 2016
Mario L. Grossi '53 (CCE), June 14, 2016
- 1954**
Raymond Dimuro '54 (KGCOE), Aug. 5, 2016
Robert G. Vansice '54 (CCE), May 25, 2016
- 1955**
Edward Meyers '55 (GAP), '57 (GAP), June 10, 2016
Michael A. Pena '55 (CCE), July 6, 2016
Norma (Furst) Gibson '55 (SCB), July 20, 2016
John R. Mayne '55 (KGCOE), Aug. 14, 2016
Joseph S. Shanto '55 (CCE), Aug. 2, 2016
- 1956**
Arno O. Bohme Jr. '56 (GAP), Aug. 4, 2016
- 1957**
John P. Mertz '57 (GAP), May 11, 2016
Laurence C. Davis Jr. '57 (CCE), July 20, 2016
William E. Losee '57 (CCE), June 5, 2016
- 1958**
Joseph P. Russo '58 (GAP), Aug. 2, 2016
- 1959**
Jack R. Barker '59 (CCE), June 8, 2016
Charles C. Bement '59 (CCE), June 13, 2016
Richard M. Bobbe '59 (GAP), May 7, 2016
Thomas J. Cunningham '59 (CCE), July 3, 2016
Patricia (Burke) Gifford '59 (GAP), July 1, 2016
Richard J. Renahan '59 (COS), July 3, 2016
George M. Scheg '59 (CCE), Aug. 13, 2016
James E. Schneck '59 (CCE), May 27, 2016
J. Lynwood Smith Jr. '59 (FAA), May 17, 2016
Robert C. Berl '59 (KGCOE), '88 (CAST), June 4, 2016
- 1960**
Nicholas Mihal '60 (GAP), June 29, 2016
F. Newell Follett '60 (SCB), May 6, 2016
- 1961**
Andrew Demarco '61 (SCB), July 23, 2016
Judith (Miller) Maltby '61 (SCB), August 2016
Sandra (Spears) Norris '61 (SCB), June 19, 2016
Carl A. Ott '61 (CCE), June 2, 2016
- 1962**
Howard N. Weinberg '62 (GAP), June 26, 2016
- 1963**
Norman J. Weinreber '63 (KGCOE), July 8, 2016
Donald D. Leenhouts '63 (CCE), July 31, 2016
Eric L. Seablom '63 (KGCOE), May 16, 2016
- 1964**
Norman S. Gershon '64 (GAP), July 10, 2016
James H. Hance '64 (COS), June 11, 2016
David L. Palmer '64 (CCE), June 22, 2016
David K. Stern '64 (SCB), May 10, 2016
Gordon T. Allen '64 (CCE), June 24, 2016
- 1965**
James R. Passier '65 (GAP), Aug. 18, 2016
Johanne (Mieczkowski) Macner '65 (SCB), June 22, 2016
- 1966**
Clyde W. Baker '66 (CCE), July 24, 2016
Daniel W. Hogan '66 (CCE), June 10, 2016
George Robert Geyerhahn '66 (GAP), '81 (CAST), April 27, 2016
Royal J. Goodwin '66 (CCE), July 3, 2016
G. David McKenna '66 (GAP), May 25, 2016
Lefford F. Lowden '66 (COS), May 9, 2016
- 1967**
Albert C. Smith Jr. '67 (CCE), May 17, 2016
William S. Golde '67 (GAP), May 28, 2016
- 1968**
George C. Kay '68 (CCE), June 25, 2016
Robert M. Hauss '68 (CCE), June 2, 2016
Edward J. Wyse '68 (CCE), July 6, 2016
- 1969**
Garry T. Cutlip '69 (SCB), June 26, 2016
Bruce Grayson '69 (SCB), May 9, 2016
- 1970**
Edward F. Herman '70 (CAST), June 16, 2016
David J. Hermans '70 (COS), June 26, 2016
Paul D. Comfort '70 (CCE), July 20, 2016
Louis J. Izzo Jr. '70 (SCB), Aug. 9, 2016
- 1971**
James S. Dye '71 (CCE), May 23, 2016
- 1972**
Louis A. Roma '72 (KGCOE), Aug. 6, 2016
James E. Barstow '72 (GAP), April 25, 2016
Roger C. Bomely '72 (SCB), April 23, 2016
- 1973**
John Thomas Gunning '73 (CCE), May 2016
David H. Hammerbeck '73 (CCE), Aug. 4, 2016
Edward H. Winans '73 (SCB), April 24, 2016
Thomas C. Williams '73 (CCE), July 14, 2016
Anthony G. D'Ambrosio '73 (CCE), Aug. 24, 2016
- 1974**
Ronald L. Griesenauer '74 (KGCOE), June 16, 2016
Joseph L. Thornhill '74 (KGCOE), July 20, 2016
John W. Koessler III '74 (GAP), May 13, 2016
Joyce (Greenberg) Goode '74 (FAA), June 29, 2016
Gary R. Leaton '74 (SCB), May 26, 2016
Richard A. Henderson '74 (CCE), Aug. 6, 2016
- 1975**
Philip A. Durnin '75 (SCB), July 16, 2016
D. Diane (Henchen) Gamble '75 (SCB), '77 (CAST), July 3, 2016
Gordon F. Burris '75 (CCE), May 17, 2016
- 1976**
Barbara (Salmon) Frielinghaus '76 (CAST), June 26, 2016
Arkell Blair Cook '76 (CCE), July 20, 2016
Louis Donofrio Jr. '76 (CLA), June 7, 2016
Dale E. Kenyon '76 (CCE), June 12, 2016
- 1977**
Duncan R. Tyrrel '77 (GAP), July 11, 2016
Richard D. Rice '77 (CCE), '07 (CAST), July 4, 2016
Robert J. McDonald '77 (SCB), July 1, 2016
Donald A. Wulf '77 (CCE), July 29, 2016
- 1978**
Richard W. Beebe '78 (CLA), June 5, 2016
- 1979**
Michael Francis Wheeler '79 (SCB), June 5, 2016
Luke W. Walker '79 (FAA), July 12, 2016
- 1980**
Christopher Lee Dumont '80 (GAP), '86 (COS), June 3, 2016
John Michael Ryan '80 (CCE), Aug. 5, 2016
Nancy Jeanne Currell '80 (NTID), Aug. 7, 2016
- 1981**
Lisa (Perretti) Bodenstedt '81 (FAA), '83 (FAA), '01 (CIAS), May 2016
Francis Morgan Sheets '81 (SCB), July 14, 2016
- 1983**
Barry John Rightmyer '83 (SCB), '84 (SCB), Aug. 15, 2016
John Michael Gay '83 (CCE), '85 (CCE), Aug. 5, 2016
Ann D. Winterman '83 (CCE), Aug. 4, 2016
Norbert W. Zoltowski '83 (KGCOE), July 26, 2016
- 1984**
Michael L. Tuchrello '84 (CCE), July 21, 2016
Cindy W. Smith '84 (SCB), Aug. 19, 2016
John Michael Sanders '84 (GAP), June 1, 2016
Cheryl (Groom) Staines '84 (CCE), April 29, 2016
- 1985**
Scott Andrew Streeter '85 (NTID), May 30, 2016
- 1986**
William Edward Bjorness '86 (CAST), July 22, 2016
Brian Henry Wirpsa '86 (CCE), '96 (CCE), July 5, 2016
Andrew L. Klausman '86 (KGCOE), Aug. 6, 2016
- 1987**
Pauli Champhol Orr '87 (CCE), '97 (CAST), May 13, 2016
- 1988**
Suzanne B. Welch '88 (SCB), '01 (SCB), July 25, 2016
- 1989**
Kevin E. Taylor '89 (CCE), May 31, 2016
Joseph A. Olivieri '89 (SCB), April 26, 2016
David B. Smith '89 (CLA), April 30, 2016
- 1990**
Andrew S. Levy '90 (CAST), '93 (CAST), June 20, 2016
- 1992**
Steven P. Spolio Jr. '92 (CCE), June 17, 2016
- 1993**
Sherrye M. Cook '93 (CCE), July 16, 2016
- 1995**
Paul Olnowich '95 (CAST), '95 (CAST), April 20, 2016
Edward Garner Flickinger '95 (SCB), June 25, 2016
- 1997**
David John Mazak '97 (CIAS), July 9, 2016
Christopher Scott Maynard '97 (CIAS), May 27, 2016
- 1998**
Kathleen Governor Rissew '98 (CLA), July 23, 2016
- 1999**
Ursula K. Millar '99 (CIAS), June 9, 2016
Sarah D. Smith '99 (CAST), '99 (CAST), '01 (CAST), May 30, 2016
- 2000**
Brian Erb '00 (CLA), July 2, 2016
- 2001**
Thomas M. Merlau '01 (SCB), May 2, 2016
- 2004**
Sean M. Kunow '04 (SCB), June 2, 2016
- 2009**
Michael C. Tatelbaum '09 (SCB), May 2, 2016
- 2013**
Edward T. Mackowiak '13 (KGCOE), April 28, 2016

Faculty and Staff

- David Lee Abbott, 37-year employee in Facilities Management Services, July 10, 2016
- John Conklin, faculty member in NTID's communication studies and services department, Sept. 25, 2016
- Constantino "Tino" Dumangane, professor of economics for 35 years, Sept. 27, 2016
- Hugh R. Fox, professor in School of Printing from 1980 to 1997, Aug. 9, 2016
- Zhaolin Lu, associate professor of microsystems engineering, July 24, 2016
- Ken Nelson, professor emeritus of history, Sept. 17, 2016
- Sannasi Ramanan, retired professor of electrical and microelectronic engineering, Oct. 16, 2016
- Moises Santiago, facilities mechanic with Student Auxiliary Services/Housing Facilities Operations, July 19, 2016
- Cindy Schultz, staff member in Chester F. Carlson Center for Imaging Science, Aug. 18, 2016

from the Archives



The announcement of the new Saunders College of Business 10 years ago was made in front of Max Lowenthal Hall, which has housed the College of Business since 1982.

Photo by A. Sue Weisler

2006

The making of Saunders College of Business

Enhancing its reputation as a national leader in undergraduate, graduate and executive business education, RIT on July 11, 2006, announced the formation of Saunders College of Business.

The new name honored E. Philip Saunders, founder of TravelCenters of America Inc. Saunders committed \$13 million to the university's academic business programs to finance scholarships, recruit and support faculty, improve facilities and create an endowment for future initiatives.

"Phil Saunders has made a spectacular impact during his career as an entrepreneur," Albert J. Simone, RIT president emeritus, said at the time. "His \$13 million investment in RIT will produce a similar impact by helping us reshape traditional business education and by paving the way for a new generation of entrepreneurs and visionary business leaders."

Four years later, Saunders committed

another \$5 million to the business college bearing his name and announced a challenge to all Saunders College alumni and friends to raise an additional \$15 million to support the college's visionary plans. The challenge continues today.

Since that announcement, Saunders College of Business has been on the rise.

The college received national recognition for its undergraduate programs, including advancing 16 spots in the popular *U.S. News & World Report Best College* rankings, and again garnering a Top 10 spot in *USA Today/College Factual*.

U.S. News placed Saunders College No. 77 among nationally-ranked undergraduate business programs, a noteworthy placement from last year's spot at 93rd.

USA Today also placed the college's management information systems program at No. 10 for the second year in a row.

In addition, the college ranked seventh

in the "Top 25 Online MBA Programs for 2016," by The Princeton Review, this year in partnership with *Entrepreneur* magazine.

The Princeton Review chose the Top 25 based on its ranking from a 2016 survey of more than 3,800 online MBA students from more than 90 schools.

As a serial entrepreneur, Saunders has contributed his pursuit of excellence in many areas. Other ventures include Ryder Systems, Econocar International, W.W. Griffith Oil Company, Sugar Creek Corp., American Rock Salt, Bristol Harbor Resort, Swain Ski Center, Genesee Regional Bank, Western New York Energy and Youngblood Disposal Services.

"Educational opportunities are the key to advancing America's leadership in a global economy," Saunders said in 2006. "In making this gift, it is my goal to further energize RIT's position as a center of excellence for entrepreneurship and innovation."

Brick City 2016

About 16,500 people participated in Brick City Homecoming & Family Weekend in October.



Photo by Ken Huth



Photo by Ken Huth



Photo by A. Sue Weisler



Photo by Colin Huth



Photo by A. Sue Weisler



Photo by Ken Huth

A The men's hockey team skated to a 1-1 draw against the University of Connecticut in front of a sellout crowd of 10,556 fans at Blue Cross Arena.

B Students Unique Fair-Smith, Kayla Rizzo and Shantel Forrest enjoyed the Presidents' Alumni Ball, a highlight of the weekend.

C Brandon Stanton, the man who created the popular Humans of New York blog, was this year's Horton Distinguished Speaker.

D From left, Susan DiSalvo, Jennifer DiSalvo, Christina DiSalvo '16 and Brittany Dzugan-Smith '16 took part in the Brick City 5K Fun Run.

E Alexis Ohanian, co-founder of reddit.com, was the keynote speaker for the Saunders College of Business Gasser Lecture Series.

F Golden Circle members Rosalie Rosini '66 (food administration) and Helen Castelli '56 (food administration) pose for a photo in Global Village.

R·I·T

Experience
the

FUTURE

SATURDAY, MAY 6



A Free Festival For Everyone

What: Imagine RIT: Innovation and Creativity Festival is the university's signature event, a showcase that displays the ingenuity of students, faculty and staff.

When: 10 a.m. to 5 p.m. Saturday, May 6.

Admission: Free and open to the public, rain or shine. Parking available on RIT's campus and at Monroe Community College with a free shuttle service to RIT.

What you'll see: Nearly 400 interactive presentations, exhibits, research projects, hands-on demonstrations, and live performances.

Plan your day: Build an itinerary of your favorite exhibits and live performances. Check out the entire festival program at www.rit.edu/imagine.