SPACE

RIT alumni helping to boldly go where no one has gone before
RIT is on the cusp of greatness. Yet now more than ever we need you as our RIT ambassadors to spread the word of our accomplishments and growing reputation.

We welcomed a record freshman class of nearly 3,000 students this fall and we now have the largest enrollment in our history. Selectivity continues to improve, diversity continues to enrich and geographic draw continues to widen across the U.S. and overseas. We also continue to emerge as a student-centered research university. Sponsored research funding is at an all-time high. Every measurable indicator for a university is up while our alumni are increasingly making us proud all over the world.

National rankings and accolades continue to pour in. RIT is among the “Most Innovative Schools” in a new 2016 survey of college leaders (No. 2 in the North) in U.S. News & World Report. We were listed No. 3 in the online outlet Mic as the school where the “next Steve Jobs is going to come from.” And we were recently cited No. 10 among the “best colleges for getting a job in tech.”

As the achievement list grows, we have a homework assignment for you: Please help explain RIT’s story and ascent to people in your circles. The following are Tiger Points of Pride for you to share with the world:

RIT is the 10th largest private university in the nation in terms of full-time undergraduate enrollment that exceeds 15,400. With 3,200 graduate students, total enrollment surpasses 18,600.
RIT is the second largest producer of undergraduate STEM (science, technology, math, engineering) degrees among all private universities in the nation.
RIT is a world leader in experiential education. RIT has the fourth-oldest (1912) and one of the largest cooperative education programs in the world, annually placing more than 4,100 students in more than 6,100 co-op assignments with nearly 2,100 employers across the United States and overseas.
RIT has top 10 national programs in the following areas: computing security, fine arts (glass, metal jewelry), industrial design, film and animation, online MBA, photography and video game design.
RIT boasts award-winning programs in a host of uncommon disciplines—sustainability, medical illustration, microelectronic engineering, packaging science, museum studies, interpreting services and diagnostic medical sonography.
**RIT offers unique doctoral programs** in astrophysics, color science, computing and information sciences, engineering, microsystems engineering, imaging science and sustainability. Several interdisciplinary doctoral programs are in the planning stages.

**RIT is a world leader in education and access for deaf and hard-of-hearing students.** RIT is home to the National Technical Institute for the Deaf (NTID), the world’s first and largest technological college for students who are deaf or hard of hearing. President Lyndon Johnson and Congress established NTID in 1968.

Here are some things about our students:

- Three RIT students won **Fulbright Fellowships** for the 2015-2016 academic year. RIT also had 40 international students from 25 countries attend the university this past year through the Fulbright Foreign Student Program.
- Two RIT students took a top prize in **Microsoft’s U.S. Imagine Cup** National Finals this year.
- **RIT’s cyber defense team** is a perennial powerhouse at the National Collegiate Cyber Defense Competition. In the past three years, they’ve taken home the gold, silver and bronze.

The **international student population** at RIT has more than doubled over the past 10 years, driven by explosive enrollment in the university’s graduate programs. A record 2,497 international students from 103 countries chose to study at RIT this academic year. RIT also has partnerships with more than 60 nations and international campuses in Croatia (the cities of Dubrovnik and Zagreb), Dubai and Kosovo.

Finally, our alumni—118,000 strong—continue to make us proud. They can be found in all 50 states and 123 countries.

Yours in Tiger pride,

Bill Destler, President

www.rit.edu/president

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**RIT firsts:**

- The microelectronics program, created in 1982, was the nation’s first Bachelor of Science program specializing in the fabrication of semiconductor devices and integrated circuits.
- In 1983, RIT became the first university in the nation to offer a Bachelor of Science degree in biotechnology.
- The university’s first doctoral program was imaging science in 1990, the first of its kind in the nation.
- RIT delivered its first fully online program in 1990—years before the rest of higher education entered the online arena.
- The information technology program was the first nationally recognized IT degree, created in 1993.
- RIT was the first university to offer an undergraduate degree in software engineering in 1996.
- In 2002, RIT’s Kate Gleason College of Engineering launched the world’s first and only Ph.D. program in microsystems engineering.
- In 2008, RIT launched the first doctoral program to focus on sustainable production systems.
- In 2012, RIT was among the first universities to create a department dedicated to computing security.
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Cover
A frog photobombed NASA’s 2013 launch of the moon-bound LADEE spacecraft at Wallops Flight Facility in Virginia. The image was shared worldwide on social media by an RIT alumna. (Photo by NASA/Wallops Flight Facility/Chris Perry)

Background
On Aug. 31, 2012, a giant prominence of the sun erupted, sending out particles and a shock wave that traveled near Earth. (Photo provided by NASA’s Goddard Space Flight Center)
5 steps for a healthy holiday season

With Michelle A. Schrouder

The good news is that there are realistic options to having a healthy holiday season and not feeling like you need to completely start over Jan. 1. If you eat sensibly and stay active all year, your patterns will correlate with long-term success in your overall health.

1 First, it’s important to determine what type of eating style you have.

- **Careful eaters** are triggered by their own fitness and health.
- **Unconscious eaters** consume food while they are doing something else.
- **Chaotic unconscious eaters** are triggered by an overscheduled life.
- **Refuse-not unconscious eaters** are triggered by the presence of food in candy jars, meetings or anywhere food is present.
- **Waste-not unconscious eaters** are influenced by the all-you-can-eat options or the dollar menus. For them, it’s about getting the most for their money.
- **Emotional unconscious eaters** eat when they are stressed or their emotions make them feel uncomfortable.
- **Professional dieters** are always trying the latest commercial fad diet and cannot be consistent with meal planning or making healthy choices.
- **Intuitive eaters** are triggered by biological hunger and make food choices without experiencing guilt. They honor hunger, respect fullness and enjoy the pleasure of eating.

2 Once you determine your eating style, here are a few tips that will help with your ongoing success when transitioning from Thanksgiving to New Year’s Day.

- Recognize your hunger.
- Recognize your fullness.
- Make food your ally: Eat when you are hungry and stop when you are full.
- There is no perfect eating plan, and perfection isn’t always healthy either. The motto “everything in moderation” will provide you with a sense of self-management.
- Treasure the feeling of how your food tastes, savor the aroma, eat slowly and do nothing else while eating.
- Silence the food police, whether it’s your own voice of negative self-destruction type questions or from others trying to sabotage your healthy eating plan.
- Don’t smother your emotions with food. The holiday time can be very trying on emotions, so think about how eating is serving your feelings.
- Cherish your own personal movement. Determine what your motivation is to move more. Whatever motivates you will assist you in making your own personal movement a consistent priority.

3 The “start over” mentality after the holidays is truly about patterns being disrupted. Reflect on your eating and exercise behaviors from January to October and try to approach the holiday season with a cost-benefit mentality.

- The short-term costs may be that it will be hard to find time to exercise during this time of year and staying on track may interfere with your social life because you will not be able to indulge like you normally do during the holidays.
- The short-term benefits are that you will continue to feel in control and healthy if you keep your pattern of eating healthy and exercising consistent.
- The long-term costs are that you may fail with this consistent approach and feel discouraged.
- The long-term benefits are that your physical health will improve and you will feel in control.

4 Reflect on the last time you set a wellness goal for you and achieved it. A goal for the holiday season should be to try to stay consistent with your healthy eating and regular exercise program.

5 Lastly, it’s important to realize that to be healthy doesn’t mean that you have to live with a pre-programmed-to-the-second schedule that details every time you eat, exercise, work, sleep or play. But to live without a smart plan may not keep your body systems running smoothly.

Your plan should include personal movement daily; adequate water intake; sufficient sleep; a diet full of fruits, vegetables and whole grains; and meaningful personal relationships.
RIT expands partnership with China

RIT continues its successful academic exchange in China through an international partnership with Beijing Jiaotong University (BJTU). This fall, two new degree programs began in a joint collaboration between RIT’s Saunders College of Business and BJTU’s School of Economics and Management.

An MS degree in entrepreneurship and innovative ventures is being offered at BJTU in the capital city of Beijing, and a BS degree in management information systems at BJTU’s new Weihai Southsea campus located in Shandong Province.

Enrollment in the first cohort of the master’s degree program is 10 to 15 students, with approximately 116 students in the management information systems undergraduate program. Courses in both programs are being taught by RIT and BJTU faculty.

“China is the world’s second largest economy,” said Jeremy Haefner, RIT provost and senior vice president for academic affairs. “Since the central mission of RIT is to prepare its graduates for successful careers, it makes strategic sense to be engaged with really good partners in China, especially a national university such as BJTU which has an academic reputation that matches well with RIT.”

BJTU President Bin Ning said the fact that both universities have long and rich histories spanning over 100 years makes for a good strategic partnership.

“This relationship is very meaningful for Beijing Jiaotong University to further establish itself as a world-class university with unique characteristics and continue the school’s internationalization strategy implementation,” said Ning.

The universities entered into a memorandum of understanding in April 2012, with collaborative agreements for an undergraduate and graduate program, faculty exchange and delivery of curriculum opportunities between Saunders College and the College of Liberal Arts with BJTU’s School of Economics and Management.

As a result of these agreements, RIT celebrated the first graduating cohort class of the 2+2 undergraduate program last May, with 13 BJTU scholars graduating with degrees from both universities.

Marcia Morphy

Endowed coaching position established

RIT this year established the Bruce B. Bates Women’s Hockey Coach, the university’s first named endowed coaching position for Tiger athletic programs.

RIT Trustee Emeritus Bruce B. Bates, who joined the board in 1970, provided the gift where endowed earnings will support the salary of the women’s head hockey coach and provide budget support to athletics.

“The women’s team deserves this endowment and recognition for their program,” said Bates, who began playing hockey at age 8 and retired from men’s leagues at 58.

“These young women are exceptional student-athletes both in the classroom and on the ice. I am a season ticket holder and enjoy their brand of hockey. This feels good to me. It’s the right place to start for an endowed coaching position.”

The endowment in athletics will be similar to those in academics at RIT. The donation is invested, and a portion of the return is distributed each year.

When fully funded, the endowment will include commitments of more than $1.7 million.

Scott McDonald, who recently signed a five-year extension to lead the women’s hockey team through 2020, is the first recipient of the endowment.

Bates, a longtime supporter of RIT, said his recent gift is about an emotional connection to the women’s team. He hopes more donors follow suit for other RIT coaches.

Bob Finnerty ’07
University part of four national institutes

RIT will be contributing to the work of four National Network for Manufacturing Innovation (NNMI) institutes in photonics, flexible electronics in manufacturing, additive manufacturing and digital manufacturing.

NNMI is an initiative established by President Barack Obama focused on bringing together government, industry and academia to advance U.S. leadership in manufacturing.

Vice President Joe Biden and New York Gov. Andrew Cuomo announced in July that the federal government has pledged $110 million and New York state has pledged $250 million for the new national photonics institute called AIM Photonics, short for American Institute for Manufacturing Integrated Photonics. The money was awarded to a New York-based consortium led by SUNY Polytechnic, RIT and the University of Rochester.

Ryne Raffaele, RIT vice president for research and associate provost, said advanced developments in integrated photonics are essential to the nation’s manufacturing capabilities in such areas as high-speed data and telecommunications. He said technologies developed at this national center would allow for more information to be transmitted more efficiently.

In the fall, NNMI announced that RIT is part of a consortium awarded a federal grant to establish a research center for employing flexible electronics in manufacturing.

The grant was awarded to FlexTech Alliance, a consortium of 162 companies, universities and nonprofits, for the purpose of creating the Manufacturing Innovation Institute for Flexible Hybrid Electronics. The institute will be managed by the U.S. Air Force Research Laboratory. RIT’s anticipated role will be to contribute expertise in high performance print systems and functionality, engineering processes and materials development. Flexible electronics is viewed as the intersection of electronics and high-precision printing, both areas in which RIT has considerable expertise.

RIT also will be contributing to the work of the NNMI institute on additive manufacturing. Additive manufacturing refers to a process of joining materials, usually layer-upon-layer, to make objects from 3D model data.

In 2014, RIT—through its Center for Integrated Manufacturing Studies and Golisano Institute for Sustainability—became part of the nation’s first Digital Manufacturing and Design Institute, which is headquartered in Chicago.

History of hockey

From hand-me-down uniforms to winning it all at multiple NCAA tournaments, the history of RIT hockey is a tale of persistence and perseverance.

Author Scott Pitoniak explores the stories and people behind RIT’s men’s and women’s hockey teams in his new book, Frozen in Time: The History of RIT Hockey, published by RIT Press, the scholarly publishing enterprise at RIT.

The book is available for $24.95 at ritpress.rit.edu or by calling RIT Press at 585-475-6766.
Recycling program a success in first year

A new student-led recycling program raised more than $20,000 and saved tons of items from being tossed into dumpsters.

In the spring, students moving out were encouraged to donate unwanted items to the Goodbye, Goodbuy! program. This fall, new students could purchase those items at thrift-store prices.

“The program definitely exceeded my expectations,” said Enid Cardinal, senior sustainability advisor at RIT. “Our goal from the beginning was to make it financially self-sustaining through the revenue generated from the sale. That meant we needed to make $10,000 to cover next year’s program costs.”

The profit also will go toward next year’s program.

RIT Student Government President Nick Giordano said more than 70,000 pounds of items were collected. Some of the items, including food, furniture, clothes and toiletries, were also distributed to organizations throughout the community.

“I was overwhelmed by the dedication of the program volunteers and how many people on our campus go above and beyond their day-to-day job responsibilities,” Cardinal said. “It really made me proud to be part of the RIT community.”

New student Zihan Li, from Xian, China, an industrial design major, bought two small refrigerators, a copier and reams of paper for a total of $70.50 on the sale’s first day. “The copier alone would have cost me $500 if I bought it at the store,” he said.

Greg Livadas

More than $10,000 was raised for charity at this year’s RIT Mud Tug. Nearly 120 teams of 10 battled for four hours in the mud on Sept. 19. “It’s not about winning or losing, but getting dirty for charity,” said Alexandra Ryllo, a fourth-year packaging science major from Freehold, N.J., and the Mud Tug chair for Zeta Tau Alpha. The RIT Mud Tug began in 1996 by Greek organizations Phi Kappa Psi and Zeta Tau Alpha as a way to raise money and have fun. It is now open to any team in the Rochester community. Team members pay $5 each and spectators pay $8. The recipient this year was Hillside Family of Agencies, Ryllo said.
RIT is at the epicenter of a public-private partnership that could catapult the greater Rochester region as a leader in the rapidly growing digital media industry.

More than $30 million in funding, including $13.5 million from New York state, $12.4 million from Cisco Systems Inc., $3 million from Dell and $1.5 million from The Wegman Family Charitable Foundation, will be used to launch MAGIC Spell Studios, a university program that will link RIT’s internationally ranked academic programs with high-tech facilities needed to commercialize computer gaming, film and animation, graphic design and imaging science projects.

“We are thrilled that Gov. Andrew Cuomo and the state leadership see the economic development value in our MAGIC Spell Studios, and we are very appreciative of this extraordinary support,” said RIT President Bill Destler.

A state-of-the art studio, which will be located in a new building on RIT’s campus, is expected to create 35 to 50 jobs in the first five years, with a goal of 100 jobs over the next 10 years. More importantly, it will be focused on helping RIT students launch their own companies, propelling an industry that has been taking hold locally with entrepreneurial enterprises such as Darkwind Media, a company created by four RIT students that now employs 17 and is moving into the RIT Downtown Center at 40 Franklin St. as part of the START-UP NY program.

Creation of MAGIC Spell Studios will make the Rochester region highly competitive for attracting and developing a digital media cluster. The digital media field takes advantage of increasing convergence between the film/animation and video gaming industries, visible by the tools and methods used to create such blockbuster films as the Lord of the Rings and Iron Man series, as well as others.

On the gaming side, industry analysts are predicting that with explosive consumer demand for smartphones, tablets and other devices, the international games market will rocket past the $100 billion mark in the next three years to reach $102.9 billion by 2017.

“This investment will open the door to limitless possibilities through MAGIC Spell Studios, and I am proud that our administration is helping to further RIT’s potential,” Gov. Cuomo said.

RIT is a world-renowned academic leader in digital media fields. Among the graduates of its nationally ranked School of Film and Animation are several Academy Award winners. MAGIC Spell Studios would tap into the talented pool of RIT students to make production assistance available to independent and commercial filmmakers, allowing the region to take advantage of and create new opportunities for the state’s popular film and television tax credit program, which Gov. Cuomo has championed as an economic development tool. RIT already has experience in this arena, including placing students as camera production assistants for the Rochester-filmed portions of The Amazing Spider-Man 2.

While original plans for MAGIC Spell
“It’s time to engage that talent creation, production and post-production, we can put Rochester on the map as a nation-service its students well and be a regional eco-perfect example of how a university can both

MAGIC Studios called for a 3,400-square-foot sound stage, a $1.5 million gift from The Wegman Family Charitable Foundation will enable university officials to more than double the size to 7,000 square feet. The larger space offers a wider range of learning experiences for students and entices independent filmmakers to use the facility.

“The reputation of RIT film graduates’ on-set capabilities are second to none, and this initiative allows for the benefit of these collective talents to be available in one location to film productions, while at the same time giving these new professionals important experience and résumé building opportunities,” said Malcolm Spaull, administrative chair for RIT’s School of Film and Animation.

In addition, RIT’s game design and development program is consistently ranked among the top in the country, and its alumni are leaders across the technology industry, including in computer science, software engineering, computing and information science and imaging science.

“As someone who achieved a Bachelor of Fine Arts in graphic design from RIT, I’m very excited about the contribution that SMP and Cisco are making through this partnership,” said Kristin Rorapaugh ’91, CEO of SMP Corp., the local distributor for Cisco. “As a fellow entrepreneur I look forward to working with all the students who launch their businesses as a result of this initiative.”

One of MAGIC Spell Studios’ goals is to create local job opportunities that will give these talented graduates and others a reason to stay in the Rochester region, helping reverse what has been called “the brain drain” of local college graduates.

“The MAGIC Spell Studios effort is focused not just on placing our graduates in existing studios, but rather on growing smaller studios and founding new ones, in line with the current industry trend moving away from a few large publishers toward several small and mid-sized independent studios that employ anywhere from five to 20 staff members,” said Andrew Phelps, founder and director of RIT’s Center for MAGIC (Media, Arts, Games, Interaction and Creativity), under which MAGIC Spell Studios are leaders across the technology industry, including in computer science, software engineering, computing and information science and imaging science.

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Destler said MAGIC Spell Studios is the perfect example of how a university can both serve its students well and be a regional economic driver. “With MAGIC Spell Studios, we can put Rochester on the map as a national contender in digital media development, creation, production and post-production,” Destler said. “It’s time to engage that talent and grow businesses right here.”

Friends create award-winning game

For the past three years, Dan Plate and Gary Porter—best friends since high school—have spent their free time creating Super Daryl Deluxe, a 2D slapstick-orientated action video game that draws loosely from their high school experiences and inside jokes.

While the game is not yet complete, it is already winning awards, taking first place in the Visual Quality category of the 2015 Intel University Games Showcase at the Game Developers Conference and the top prize in the Microsoft Imagine Cup U.S. Nationals. Their company, Dan and Gary Games, is being incubated in MAGIC Spell Studios.

“How often do you get to make a completely absurd game with your best friend?” said Plate, a fourth-year illustration major from Waterloo, N.Y. “Well, my answer would be all too often.”

Plate and Porter ’15 (game design and development) share a passion for being creative and are kicking around the idea of making a YouTube cooking show and writing a screenplay.

“When I decided to attend RIT, I told our group of friends that I wanted make a game about them and how goofy they are,” said Porter. “When Dan transferred to RIT two years later, we started joking about the idea of actually making it.”

Porter is the programmer; Plate is the artist.

The duo co-wrote the six-chapter game, which borrows elements of their lives, including the look of the school, names of characters and even the likeness of a few evil teachers.

The game’s main character, Daryl Whitelaw, is a stereotypical high school kid whose special powers include a hammer that turns into a rhino on a stick when Daryl levels-up. Daryl is the new kid at a school that has been taken over by a group of evil scientists. Through the help of a school janitor, Daryl uncovers the plot and attempts to save the world—all while trying to be the most popular kid at school.

“We are chipping away at the game one chapter at a time,” said Porter, who now works at energy intelligence software and services provider EnerNOC in Boston. “We’re doing things the way we want them done and the game will not be short on content by any means.”

They hope to publish and release Super Daryl Deluxe within two years. A free downloadable demo of the game is available at superdaryldeluxe.com.
MAGIC brings student products to market

David Amata, Jacob Westerback and Kyle Zarnoch are inching closer to seeing their video game in the hands of eager young learners in developing countries.

The two RIT students and Zarnoch ’15 (new media interactive development) created the educational app Remy and the Book of Rhymes in a class project that morphed into a fully realized product when it launched on the Google Play store in August.

The project was one of four funded by a $50,000 gift from individual members of the RIT Board of Trustees to launch the Co-Up program, a new program in which students get funding and support to bring their ideas to commercial scale and to explore creating businesses around them. The program is funded by the RIT Center for Media, Arts, Games, Interaction and Creativity (MAGIC) and the Simone Center for Student Innovation and Entrepreneurship.

Apps such as Remy are being published through MAGIC’s commercial game studio, MAGIC Spell Studios. In addition, the app is now slated to be part of Curious Learning, a Global Literacy Project whose mission is to reduce global poverty and promote education by teaching people to read.

In this case, tablets with various educational, literacy applications—like Remy—will be deployed to remote villages throughout Africa.

“We saw that there was a gap within teaching software—namely how learners use rhyme patterns and the connections they make with sounds,” said Amata, a fourth-year game design and development major from Columbus, Ohio. “We built our game around the importance of that concept, while incorporating a fantasy world the kids can interact with and save.”

Remy and the Book of Rhymes is a 2D tower defense game in which players defend villages against the “Unread,” monsters with words on them. Each monster is missing part of its word and in order to neutralize the threat, players must find the correct letter or rhyme and place it on the monster to complete the word. Players learn alongside a boy named Remy and Zazz, a lovable talking lion.

Westerback, a fourth-year game design and development major from New York City, loves the notion of fitting together game development “puzzle pieces” to create a captivating product.

“We gave this game a real personality,” added Zarnoch. “All of the art has been perfected; it looks like a real village and we’ve cleaned up the mechanics of the game, emphasizing vowel groups, rhyme patterns and repetition, so the kids can maximize their learning.”

The team has big plans for the game, which includes having Remy and Zazz teach advanced reading in volume two, as well as additional subjects and languages. But they are also prepared for the possibility that they may need to hand the project off to the next generation of capable young game designers and developers to continue the game’s evolution.

Amata believes the recent pledge to build MAGIC Spell Studios is an encouraging sign for the future of the industry and game designers and developers everywhere.

“There is a real commitment to the video game industry as an emerging market,” he said. “The enhancements in technology and entertainment show how far we’ve come within the industry, and education will continue to play a big role in that development.”

On a personal note, Amata said helping to develop the game is just the first of many steps he’ll take toward making a meaningful career out of a childhood fascination.

“Making games that people love to play will be my legacy.”

Vienna McGrain ’12
Learn, explore, innovate with RIT through meRIT—free webinars exclusively for alumni. These engaging webinars cover a wide variety of both personal and professional development topics and are presented by RIT faculty, notable alumni, and industry leaders.

Here’s what participants had to say:

“Awesome!”

“Thank you! Please keep these coming.”

“Excellent!”

“This was a delightful break in my work day.”

Visit rit.edu/meRIT today and find a webinar for you!
A leader in the field of family violence prevention is challenging the standard practice for treating offenders in the United States with an alternative that is grounded in science and connects the dots between substance abuse and aggression.

Clinical forensic psychologist Caroline Easton ’90 (biotechnology) has shown that addiction and aggression go hand-in-hand and require integrated treatment. Easton, a professor of biomedical sciences in RIT’s College of Health Sciences and Technology, embraces an approach to clinical care that treats the whole person.

Her progressive model of care and emphasis on interactive medical technologies are shaping the college’s behavioral health program, housed in the new Clinical Health Sciences Center.

The facility, operational this fall, consolidates the clinical programs in the College of Health Sciences and Technology, dedicates space for clinical activity in behavioral health and includes a family medicine practice group operated by Rochester Regional Health, a university partner through the RIT & Rochester Regional Health Alliance.

“I don’t believe you can tackle medical health without addressing mental health,” Easton said. “We need to educate the new student about this integrative care model and incorporating technology into it.”

Connecting the dots
Easton, in 2003, founded and directed Yale’s Forensic Drug Diversion Clinic to treat court-referred patients on probation or parole. Her model of care—Substance Abuse-Domestic Violence Behavioral Therapy—treats male criminal offenders who have problems with addiction and aggression. Her method focuses on reducing substance use while building healthy coping skills for handling negative emotions. The client-centered approach is grounded in cognitive behavior theory and has measurable outcomes.


Results of the 2006–2010 trial show that Easton’s method was more effective than another evidence-based addiction treatment in reducing cocaine and alcohol use and aggressive behavior. Three months after the offenders completed the individualized therapy program, the men in the Substance
Abuse-Domestic Violence Behavioral Therapy group had significantly reduced amounts of cocaine and alcohol use detected in their toxicology screens and significantly fewer violent episodes than the offenders treated for addiction alone.

“Participants in the control condition had approximately seven violent episodes compared to the Substance Abuse-Domestic Violence group, which had one episode,” Easton reported. “This study underscores that the Substance Abuse-Domestic Violence model, a cognitive behavioral therapy approach, may be an important vehicle for changing two specific maladaptive behaviors—addiction and aggression.”

Easton’s evidence-based approach is an alternative to the “one-size-fits-all” Duluth model. The Duluth Domestic Abuse Intervention Project, established in Minnesota 30 years ago, is the standard therapeutic method practiced around the world. The common court-referred treatment program lumps together offenders of varying severity for anger management treatment without proper screening for mental health and/or substance abuse issues. In most cases, the confrontational model, based on account-
ability, backfires and leads to high rates of re-offense and relapse, according to Easton. “When an offender is arrested for family violence and they’re referred into an anger management group, at least 50 percent report a problem with alcohol and drugs,” Easton said. “Likewise, if you evaluate someone coming into an addiction treatment facility, about 50 percent say they have problems with family violence in their home; either they are perpetrating it or they have problems managing their anger. On either side you see the high co-occurrence of addiction and aggression. They go together. I call them two negative peas in a pod.”

Signs of a shift away from the Duluth model and its derivations were seen in 2013 when the Veterans Health Administration of the U.S. Department of Veterans Affairs prohibited the use of the Duluth Model treatment for veterans. Their multiple and complicated treatment needs require interventions grounded in science that encompass trauma, addiction, psychiatric disorders, traumatic head injuries, medical illness and pain, Easton said.

**Behavioral health sciences at RIT**
The College of Health Sciences and Technology is in the early stages of exploring graduate degrees in behavioral health sciences around Easton’s research.

Dr. Daniel Ornt, vice president and dean of the Institute and College of Health Sciences and Technology, said with this will come opportunities for collaboration with Rochester Regional Health in clinical psychology.

RIT’s behavioral health program also includes the Center for Applied Physiology and Self-regulation, founded by Dr. Laurence Sugarman, a behavioral pediatrician. His center focuses on helping children and young adults with anxiety and autism spectrum disorder through biofeedback and interactive gaming technology.

Medical interactive technologies like cell phone apps, games for health care and virtual training tools can also be used to enhance positive outcomes in therapies for substance abuse and family violence.

“The use of virtual tools and avatars is the way of the future,” Easton said. “These adjunctive tools can be useful in patient care settings, are non-threatening, are realistic and can pose real-life scenarios and triggers.”

Soon after arriving at RIT in 2012, Easton built a multidisciplinary team to develop interactive digital therapies to help clients reinforce and shape healthy coping skills. Al-Virt, designed by Alan Gesek ’11, ’14 (illustration, medical illustration) is an avatar coach under construction. When fully realized, Al-Virt 2.0, an upgraded design by Clayton Scavone ’18 (game design), will engage clients in virtual-role playing exercises and model conflict-resolution skills. The cyber coach, a supplementary therapy, will reward behavioral changes with positive words and gestures.

“I feel like a kid in a candy shop because the technology is so readily available here,” Easton said. “I think that’s where RIT can take the lead in behavioral health, because it’s all about technology now. Not all campuses have it. At RIT, you have the computer programmers, the gamers, the medical illustrators and the science behind behavioral health.”

The integration of technology and behavioral health is an expanding field, said Cory Crane, an assistant professor of biomedical sciences.

“Caroline is on the cusp of it,” he said. “Her simulated therapist, Al-Virt, is increasing in functionality. The goal is to get an interactive, realistic experience out of an avatar to keep the patient engaged in between sessions.”

Crane joined the college in 2013. He holds a joint position with RIT and the Veterans Hospital in Canandaigua, where he conducts clinical research on addiction and intimate partner violence.

**Reducing domestic violence**
According to the World Health Organization, one out of three women has been physically or sexually abused. High percentages are caretakers with children who witnessed or were involved in the dispute.

“Research has shown that those children—if they don’t get the treatment they need—are likely to become an offender or a victim and resort to early drug use as a coping skill for what they saw being done in their family,” Easton said.

Family violence is a breeding ground for addiction, mental health and medical problems, she said. “It is no different than a contagious disease within a family. If we can treat and prevent the chaos, drug use and the verbal and/or physical aggression, then we can help.”
The Monroe County Office of Mental Health in New York last year piloted Easton’s Intimate Partner Violence Blueprint to reduce future episodes of domestic violence and related criminal offenses. The coordinated effort was implemented at four designated treatment sites in the Rochester area.

Rollout of Easton’s IPV Blueprint was a three-year effort. It began with the up-hill battle of convincing local stakeholders in the courts system, mental health and chemical dependency service providers and local advocacy groups to adopt an integrated model of care with measurable outcomes.

Easton and Crane provided training, supervision and continued oversight of clinical staff and supervisors during transition to the integrated model of care for addiction and family violence. The “evidence-based” aspect of the treatment model requires clinical staff to consistently interview patients and document behavioral change.

Central to the program is a screening tool for family violence Easton designed for the courts and treatment facilities. Offenders with substance dependency are diagnosed and provided a coordinated and systematic model of care that teaches them to decrease substance abuse and achieve abstinence while developing healthy coping skills for controlling negative emotions.

“I think therapists hesitate to ask clients about embarrassing behaviors, such as, ‘Do you yell, scream, hit?” Easton said. “But if we’re not screening for aggression, then they’re likely not going to get treatment for it.”

A growing reputation
Several alcohol and substance abuse clinics in London have used Easton’s treatment therapy in their programs for years. Colleagues in Brazil have expressed interest in adapting the therapy for the Latino culture.

Easton’s reputation in her field has grown since she built her professional reputation at the Forensic Drug Diversion Clinic at Yale School of Medicine. Now her challenge to the standard model of care has gone full circle with a study she conducted for the Connecticut General Assembly from August 2014 to September 2015. Her findings have led to revisions to family violence policy and procedure in the state hard hit by the Sandy Hook Elementary School shootings and subsequent high-profile cases involving children killed in family violence episodes.


Easton was invited to lead the study initiated by the Connecticut General Assembly Public Health Committee to target common causes of violence and develop prevention strategies for pilot projects. She served as study manager for the nonprofit Connecticut Academy of Science and Engineering.

She is hopeful that New York will adopt Connecticut’s stance. “Connecticut is progressive and their models of care are usually followed by other states.”

Student Hayley Bartkus, who is in the diagnostic medical sonography program, practices on classmate Toni Winderl. The program is part of the College of Health Sciences and Technology.

About the College of Health Sciences and Technology

The College of Health Sciences and Technology—RIT’s ninth college—opened in September 2011, with programs from the College of Imaging Arts and Sciences, College of Applied Sciences and Technology and College of Science.

The college has its roots in the RIT & Rochester Regional Health Alliance, formed in 2008 to broaden educational opportunities for RIT students and to encourage collaboration between the two organizations.

The alliance created the Institute of Health Sciences and Technology to provide a framework for collaborative research, outreach and academics. Dr. Daniel Ornt joined RIT in 2010 to lead the institute and the new College of Health Sciences and Technology.

Here is a breakdown of the college:

• Diagnostic medical sonography offers a BA program and certificates in diagnostic medical sonography and echocardiography, or ultrasound of the heart.
• The physician assistant program celebrated its 20th year anniversary.
• The Wegmans School of Health and Nutrition has students in its nutrition management program and a BS in exercise science pending state approval.
• Biomedical sciences has nearly 300 students.
• The medical illustration MFA program is one of only five such programs in North America.
• Health systems administration is an online MS program.
Kirstie Failey '15 worked in the B. Thomas Golisano College of Computing and Information Sciences before moving to Atlanta in the fall to work at a cybersecurity consulting firm.
One step ahead in computing security

Kirstie Failey always knew that she wanted to help others, but she wasn’t exactly sure how.

Following her first and only attempt at dissecting a pig, she quickly ruled out medicine as a career path. Yet it was a virus that led Failey to her true passion of cybersecurity.

“I remember in high school, my dad got a virus on his computer and he didn’t want to pay Geek Squad the $75 to fix it,” she said. “I gave it a try and after a little online research, I was able to quarantine the virus and delete it.”

Like a phishing scam, Failey was hooked. Today, as a cybersecurity professional, Failey ’15 (computing security) is helping people on a grand scale. She makes information easily available to those who need it, while simultaneously keeping it out of the wrong hands.

With recent cyber breaches hitting the U.S. government and companies such as Target and JPMorgan Chase, the need for computing security experts has skyrocketed.

By 2019, the United States will need 2.5 million cybersecurity professionals to protect its computer systems, but more than a quarter of those jobs will go unfilled because there aren’t enough qualified workers.

RIT is helping to close this gap as a leader in computing security education. Since the university created one of the first graduate and undergraduate degree programs in computing security and networking a decade ago, the number of students enrolled in the programs has jumped from less than 40 to more than 400 this fall.

In 2012, RIT broke the mold of traditional cybersecurity education by creating the first academic department devoted solely to computing security, a department that integrates faculty from other computing disciplines, including computer science and software engineering.

That department graduated 59 students last academic year, and more than 96 percent were hired at places such as Google, Cisco and the federal government.

“I really believe students studying computing security at RIT are very well prepared to address a lot of the needs in the industry,” said Kirk Striebich ’89 (economics), supervisor special agent in the FBI Cyber Division. “Cybersecurity students at RIT are well-rounded and can think in terms of the whole business or whole government approach to the problem, which will enhance their value on any team approach to cybersecurity.”

An evolving field

RIT wasn’t always cybersecurity focused. Nobody was.

“The Internet and most programming languages were not built with security in mind,” said Yin Pan, associate professor of computing security at RIT. “It was always about delivering information from point A to point B as quickly as possible.”

Once people began buying things online in the mid-1990s, the game changed. Cybercriminals saw an easy way to make money. RIT Professor Daryl Johnson saw the need for security.

The professor began by learning as much as he could on his own and drawing from experiences. He started incorporating elements of cybersecurity into his existing courses and by 2000 he created a class in computer system security—RIT’s first course with a strict security focus.

“This was probably one of the first courses of its kind anywhere,” said Johnson. “A major component of the class was understanding the attacker and the offensive tools that attackers used, as well as incorporating an attack/defend exercise.”

While many of the professors in the B. Thomas Golisano College of Computing and Information Sciences had backgrounds in computer science and networking, hardly any had expert knowledge in computing security because it didn’t exist.

In 2003, seeing this trend toward computing security, professors Bill Stackpole, Sharon Mason and Pan enrolled in a weeklong training course in forensics, hacking and network security.

Trying to wrap their arms around this new content, the trio collaborated the next year to teach RIT’s first course in forensics. The elective course filled up immediately.

RIT professors went to work developing more classes and by 2005 there was enough interest to introduce a graduate degree, followed by a bachelor’s degree two years later.

JP Bourget ’05, ’08 (information technology, computer security and information assurance), took a network security and forensics class during his senior year. He liked it so much that he became one of the first people to enroll in the new computing security master’s program.

For Bourget, the field offered a whole new perspective on computing.

“This was a program for hackers,” said Bourget. “Anyone who is curious and wants to make technology do things it wasn’t designed to do should be in cybersecurity.”

Today, Bourget is the founder and CEO of Virginia-based security company Syncurity Networks. Three of the five people focused on creating incident response management solutions at Syncurity are RIT graduates.

Nationally, RIT began making a name for...
Sarah Jacobus, a second-year computing security student, completed her first co-op at pharmaceutical research company iCardiac Technologies. She sees computing security as a way to be creative.

itself as a perennial contender in the National Collegiate Cyber Defense Competition. The annual “big dance of data defense” requires the best student teams from around the country to fend off cyber attacks from a team of industry professionals.

In 2013, RIT won the tournament and took home the Alamo Cup, beating out top-ranked schools University of Central Florida and University of Washington.

For Jared Stroud, a computing security master’s student, RIT’s dominance at the national cyber defense competition was a major selling point in attending the school.

“I was never interested in making apps or building games—I wanted to break things,” said Stroud, who was also a member of RIT’s 2014 second-place team and 2015 third-place team. “I like the whole idea of working as a team to defend and test a network to help improve a company’s security.”

A social field
For many students, the continuous learning and social nature of the field is what draws them to cybersecurity.

“It’s a stereotype that computing people just sit in front of the screen all day and don’t talk to anyone else. That’s not really the case in our major because you have to be able to work in teams and give presentations,” Stroud said. “Plus the community is so new and small that you become friends with everyone really quickly.”

Sarah Jacobus, a second-year computing security student, sees security as a way to be creative.

Growing up, she enjoyed painting and creating graphic designs on the computer. Today, she uses her creativity to attack and defend computer networks.

“It’s not straight-forward computing,” Jacobus said. “When you’re trying to break into someone’s network, you have to think outside the box.”

New to cybersecurity, Jacobus is still looking for her niche in the field. Last summer, she completed her first co-op at the help desk of pharmaceutical research company iCardiac Technologies in Henrietta, N.Y.

Along with co-ops, students keep up with the rapidly changing cybersecurity landscape by taking part in the university’s two extracurricular clubs—the Security Practices and Research Student Association (SPARSA) and the RIT Competitive Cybersecurity Club (RC3). Students work on projects that aren’t related to school, debate, discuss news of the day and mentor other students.

Both clubs also host attack and defense-focused competitions, which allow students to flex and hone their skills against the industry’s top cybersecurity professionals. Representatives from companies, including Google and Cisco, often sponsor and attend the events to find the best students for co-ops and full-time jobs.

“Sometimes it’s intimidating to go up against upperclassmen that have been doing this for years, but everyone is so nice and it’s always a fun environment,” said Jacobus. “I learn just as much from the competitions as I do in class.”

Great power, great responsibility
In both the competitions and the classroom, students work with real viruses, attacks and exploits in a controlled environment.

Professor Johnson begins most of his classes with mini-reports. Students are invited to discuss a recent event in the world of security.

To start the fall semester, Johnson brought up the Jeep hack. Two hackers had found a flaw in the Jeep Cherokee computer system that allowed them to remotely disrupt someone’s driving—controlling the radio, windshield wipers and even controlling its speed.

“For students, these are a real eye-opener,” said Johnson. “We extended the discussion and talked about how this could potentially be used on an airplane with Wi-Fi connections for passengers.”

In addition to teaching how these exploits work, professors are charged with imparting ethics.

All students in the undergraduate computing security program are required to take a course in ethics and a class in cybersecurity policy and law at RIT. The classes explore the responsibilities of documentation for auditing and examine cases used as precedent for current laws.

“Ethics is something that is driven home in every single one of our classes,” said Failey. “You need to get written permission to access a network that you don’t own.”

Failey now lives in Atlanta and works at the consulting firm Protiviti. Even though she is done with school, she enjoys that her field is always pushing her to learn something new.

“Cybersecurity professionals are trying to find something bad and make it better,” she said. “Plus, you get paid to think all day, which is like the best thing ever.”

Scott Bureau ’11

By the numbers
• Applications to RIT’s cybersecurity bachelor’s degree program have grown from less than 40 in 2007 to more than 320 in 2015.
• In 2007, there were 34 cybersecurity students in the bachelor’s degree program. This year, there are 124.
• Cybersecurity professionals have an average salary of more than $95,000.
• About 96 percent of RIT’s graduates get jobs right out of school.
• Information assurance/security analyst is the No. 1 fastest growing job out of the top 100 best jobs in America, according to CNNMoney and PayScale.com’s list of America’s best jobs.
RIT partners with National Security Agency

Editor’s note: This story was written by Alexander Gates, National Security Agency security education academic liaison to RIT, and Brian Haynes ’82 (computational mathematics), retired NSA senior executive. To provide anonymity, the names of NSA employees have not been revealed.

Every day RIT graduates make the nation a safer place as employees of the National Security Agency. Equipped with technical training and hands-on experience acquired at RIT, coupled with a passion for excellence, they immediately apply skills critical to national security and defense in cyberspace.

The story begins much earlier, however, than day one on the job at NSA, and represents only one link in a network of initiatives that connect RIT with one of the country’s most elite intelligence agencies.

The NSA and RIT partnership is shaped by formal programs and initiatives designed to prepare students to meet the nation’s cybersecurity needs, keep the talent pipeline primed, share expertise and serve as vehicles for growth for both partners. RIT’s accreditation under two signature NSA-sponsored programs in particular—National Center of Academic Excellence in Information Assurance/Cyber Defense Education and the Campus Ambassador Program—serve as gateways to opportunities for graduates, as well as avenues for cooperative engagement on solving issues facing the country.

The National Center of Academic Excellence in Information Assurance/Cyber Defense Education program, sponsored jointly by NSA and the Department of Homeland Security, aims to improve the United States’ ability to address cybersecurity needs through training and education programs. RIT’s ongoing curricula development, to include specializations in forensics, malware and secure software development, contributed to the institute earning this accreditation.

Under the NSA Campus Ambassador Program, an NSA recruiter is designated as the single primary liaison between the agency and the college or university to provide a larger footprint on the campus. Currently awarded to only 15 colleges/universities nationwide, RIT secured this recognition based on the large number of RIT students in critical need disciplines, the close relationship maintained by RIT professors and staff with the agency and sizeable pool of RIT alumni employed by NSA. The benefits of the NSA/RIT partnership extend to broader initiatives designed to help students nationwide improve cybersecurity skills. For the past two years, RIT has developed, scored and administered elective modules for the annual Cyber Defense Exercise. This competition tests the ability of cadets and midshipmen representing U.S. and Canadian military service academies to build, secure and defend networks from simulated cyber attacks mounted by NSA experts.

RIT has been providing the “best of the best” to NSA for many years in the form of cooperative education, internships and full-time employment. The numbers bear witness to the level of satisfaction experienced by RIT students at NSA—more than 90 percent of cooperative education students return to work full-time.

Recent RIT graduates note commitment to serving the country, in addition to the personal fulfillment knowing that they are contributing to U.S. national security. A 2011 graduate offered some thoughts on the role he has played in national security.

“I have deployed three times to warzones across the globe to make sure our troops have the ability to access vital intelligence, call for help when they need it, and prevent terrorist attacks. I love working in this sort of environment because it allows me to use my strengths to contribute in meaningful ways to protect everyone against those who would seek to do harm. It has really reinforced my faith in my country and the people who fight for its ideals.”

A 2011 alumna admits that deciding to work at NSA was almost by accident.

“I had always expected to end up on the West Coast, working on software at the likes of Google or Microsoft. But an NSA recruiter came by one day ‘looking for hackers’—not even at the career fair, mind you, just a chance meeting as a professor was showing her around—and I was immediately interested. One year later, I was raising my right hand to give my oath of service, and I’ve never looked back.”

For some alumni, testing the waters in both government and private sectors helped to tilt the decision wheel in favor of NSA, as acknowledged by an RIT alumnus with three years of NSA experience.

“Before I worked for NSA I held a plethora of jobs. Every day it was the same thing over and over. Working for NSA I have traveled the world, encountering many different people and all sorts of problems and situations. Every day brings something new. At the end of the day I go home happy because my job isn’t making someone else money…it’s making sure the folks back at home are safe.”

RIT graduates are also quick to attribute their success at NSA, at least in part, to the education they received. According to a 2013 graduate with a double major in computing education they received. According to a 2013 graduate with a double major in computing education, “The wide variety of skills and knowledge I learned at RIT has set me apart from other interns and even some full-time employees. I did not just learn about network engineering or computer security or systems administration, I learned about all three. On top of that, RIT classes provided numerous hands-on lab experiences to enhance learning in all of these areas.”
Jacqueline Mozrall ’87 (industrial engineering) was appointed dean of Saunders College of Business in April. She had been serving as interim dean of the business college since July 2014. Mozrall had held several key leadership roles at RIT, including senior associate dean of Kate Gleason College of Engineering. Here are her thoughts on selecting RIT as an undergraduate, her career in industrial engineering and the future of Saunders College.

I was on the college search and I looked at a few different schools. I was really looking for industrial engineering. We came to RIT and I just loved it. It just felt right.

Industrial engineering has management principles integrated throughout the engineering curriculum—that’s one of the things that attracted me to that degree field. It is fairly common to find faculty with industrial engineering backgrounds in schools of business.

I went to graduate school, North Carolina State University, for my master’s and came back up to Western New York for my Ph.D. at University at Buffalo. Although I am not originally from Western New York, it now feels like home, since I have been here for so long.

When I was at RIT I was very satisfied with my experience as a student. I felt like I formed good relationships with the faculty, so I always kept in touch with them.

I was an opportunity hire at RIT. They didn’t really have a full-time position, but they were able to figure out a way to hire me as a visiting assistant professor. I was then transitioned over to a tenure-track position within a few months.

I had only been at RIT for five years and I became a department head. You never know when things line up and when opportunities arise. I was department head for 10 years under (Dean) Harvey (Palmer) and that was fun.

It was a period of great growth for the industrial engineering department. We were a very small program and we did a lot to grow the program, develop labs, develop corporate relationships and grow the faculty. Then when Dick Reeve (former associate dean) retired, Harvey asked me to become associate dean.

It’s funny because people started talking to me about becoming the next dean of engineering. I’m like, ‘No way. I do not want that job. I’m very happy.’ Then this happened.

I knew there were a lot of good faculty in the Saunders College. I always thought there was potential to grow the college of business and really begin to align it with the RIT brand in terms of strengthening corporate relationships and ensuring that our curriculum was responsive to corporate and industry needs.

One of the things we are looking at is really leveraging the RIT brand and embracing that brand within Saunders. There is a real opportunity for growth in programs that reside at the intersection of business and technology.

Our largest undergraduate program right now is management information systems. The students are realizing when they talk to employers that they need to have strong information systems skills. We added a course in information systems to the core curriculum. We want to make sure our students are equipped to analyze and manipulate data to help them make better decisions as business professionals. Data analytics is being integrated into our MIS, marketing and MBA programs. We are preparing our students to lead and manage within increasingly technology-intensive organizations.

Companies can’t get enough supply chain people, so we just launched an undergraduate minor in supply chain management and it has engineering, management and information systems courses. We have also added tracks in our graduate programs.

The growth I have seen at RIT is astounding. I think we have transitioned from a regional college to a national university. It’s pretty neat to have been able to witness this growth and development over the last 30 years. I am very proud of what RIT has become.
Jacqueline Mozrall is dean of Saunders College of Business.
A mechanical engineering graduate works with Boeing’s Space Exploration Division on the launch system that will one day take people into space. Another certifies the equipment on the Falcon 9 rocket designed and manufactured by SpaceX.

A photography graduate at NASA is teaching astronauts before they head to the International Space Station how to use cameras. Another graduate at NASA is developing equipment that could one day allow people to live on Mars.

These and many other alumni are making an impact in space exploration today by contributing expertise in engineering, imaging science, physics and photography, among others. RIT has ranked nationally as a school companies prefer when recruiting and hiring in the aerospace industry.

Don Figer, director of the Center for Detectors at RIT and a leader in developing and deploying new photon detection technologies in the field of astrophysics, said companies like his students because they have experience solving real problems and working in teams. His students come from engineering, science, business and imaging arts and sciences and completely run the Center for Detectors.

“They are going to be operating at a much, much higher level and capability,” Figer said.

Edward Hensel, associate dean for research and graduate studies in Kate Gleason College of Engineering, also credits real-world experience through the co-op program for exposing students to the entire aerospace industry ecosystem.

“They work for the big aircraft companies, defense companies, but they also work for the suppliers that may be only one or two layers removed from that,” he said. “I think that is unique.”

Here are some of their stories.

The Delta II rocket, carrying the NOAA/NASA Suomi environmental satellite, is being prepared for an early-morning launch in 2011 at Vandenberg Air Force Base in California. One member of the team who designed and prepared the satellite was an RIT alumnus.
Clayton Turner ’90 was named deputy director at Langley Research Center this summer. He oversees 3,600 employees.

Clayton Turner ’90, deputy director, NASA’s Langley Research Center

Clayton Turner had job offers from the CIA and NSA after he graduated from RIT, but when NASA called him about a job, he had to entertain the offer.

To start with, NASA officials called him on his birthday from Langley Research Center in Hampton, Va., which shares a landing field with Langley Air Force Base, where Turner was born.

Then when he visited Langley Research Center, he observed the engineers working on the Halogen Occultation Experiment (HALOE) mission, which was designed to improve understanding of stratospheric ozone depletion.

“I watched the excitement and the energy of the people who were doing that test because that was their baby,” said Turner ’90 (electrical engineering). “That was the thing they were going to launch on a future mission. And I was hooked from that point forward.”

In June, Turner was named deputy director at Langley. He is still as excited about the work he and his colleagues at Langley are doing as he was during that visit in 1990. “I can’t believe I get to do what I get to do every day,” he said.

Turner started as a Lidar In-Space Technology Experiment (LITE) engineer. The instrument orbited the Earth inside the payload bay of space shuttle Discovery, measuring the Earth’s cloud cover and tracking particles in the atmosphere. The goal was to help scientists better understand global climate and how it might be changing.

Next he was assigned to the Gas Permeable Polymer Materials Experiment, which used the microgravity of space to produce plastics that were more uniform and permeable than those produced on Earth. The work resulted in a private company making contact lenses based on plastics produced commercially in space.

Turner continued to work his way up at Langley, each time getting more responsibility. He became assistant branch head, branch head, directorate chief engineer, director of the Engineering Directorate and center chief engineer.

As center chief engineer, he was responsible for the technical excellence of the work at Langley, which in the early 2000s was working on the systems engineering of the Ares 1-X rocket. The rocket, which was a test version of a system designed to carry a four-to-six-person crew capsule, successfully launched in 2009.

As deputy director, Turner’s job involves overseeing 3,600 employees, improving effectiveness and efficiency, communicating with the public and working with his colleagues at other NASA centers.

He is excited to contribute now in this new role. “I pinch myself that here’s how I get to serve the nation,” he said. “I just revel in the opportunity to be a part of this NASA team.”

Mindy Mozer
Kursten O’Neill ’11 is a cross between a systems engineer and a project manager at the private company SpaceX. She returned to RIT in September to mentor students.

Implifying something as complex as a rocket system is no easy task, but trained with a mechanical engineering and public policy background, communicating information about the system and mission impact becomes that much easier, said Kursten O’Neill.

As a lead certification integration engineer at SpaceX, O’Neill ’11 (mechanical engineering) is a cross between a systems engineer and a project manager, a technical expert who can translate the complex into understandable terms. She works with different technical departments that build, test and launch the company’s Falcon 9 rocket and communicates information to its government partners to show that the Falcon 9 is a reliable, dependable system to launch national security payloads.

“This is my dream job, to be the technical interface between our government on the aerospace side for a private company,” she said. “It was natural for me to want to do something like this where I can take the technical information of a design and easily break it down for others.”

The experience of applying coursework to design work and team competitions gave her the edge when looking for a job, she said. The Buffalo, N.Y., native selected RIT based on its co-op program, academics and activities. She competed on the swim team for two years and held leadership positions on RIT’s SAE Formula collegiate race team, serving as co-project manager for the 2010-2011 season. During her time on the team, all the racing-planets aligned as the team was in the top-20 among 500 international Formula race teams, peaking at No. 4 in 2010.

Her co-ops were at Moog and Boeing Co., as a product engineer and flight controls engineer, respectively. After graduating, O’Neill worked as a vehicle systems and mechanical engineer for Boeing, where she found an example of what a mentor is and how to be a mentor herself.

“When you start a new job, or an internship, find someone you connect with, someone willing to be your mentor—no matter what company you go to,” said O’Neill, who has been at SpaceX since 2013 and currently mentors a SpaceX intern.

She also is involved with RIT’s newest racing team—an all-female SAE Formula electric race car, which SpaceX also supports as a founding sponsor. The team will compete for the first time this spring.

A certification engineer is a position often filled by specialists with many years of experience.

“On a personal level, I feel like I am making a difference. Having the responsibility that I have, I take a lot of pride in what I can contribute to the company. I think taking pride in your job makes you a better engineer, a better worker, a better team player,” she said. “We are bringing new technology to the space industry that I have always wanted to be a part of. I found that opportunity at SpaceX.”

Michelle Cometa ’00
Paul Reichert '01, left, trains astronaut Steve Swanson, who was on the International Space Station from March to September in 2014. Reichert works at NASA's Johnson Space Center as a photography/television instructor.

Paul Reichert '01, photo instructor, NASA's Johnson Space Center

When President Barack Obama tweeted astronaut Scott Kelly that he is "loving the photos" Kelly posted on social media from aboard the International Space Station, RIT graduate Paul Reichert knew he had done his job well.

Reichert '01 (imaging and photographic technology) works at NASA's Johnson Space Center as a photography/television instructor. That means he teaches crew members before they head to the International Space Station how to take all the photos and videos made available to the public.

"The news doesn't typically cover the space station," Reichert said. "This is their chance to explain what they are doing up there and get the word out as to what's going on."

Reichert started at NASA two weeks after graduating from RIT. For the first 10 years of his career, he worked on the space shuttle program, teaching the astronauts how to use all the cameras and supporting them while they were in orbit.

When the space shuttle program ended in 2011, he moved to the International Space Station program.

Reichert estimates that he has trained more than 150 astronauts, who like the general population have varying levels of photography experience.

He is lead for the current crew on the space station now and is training the crew that will go up this spring and summer.

When Reichert isn't training a new crew or supporting them when they are in orbit, he works on NASA's Commercial Crew Program, which is working to establish safe access to space with private companies such as SpaceX.

He also works on projects as they arise. For example, the space station is developing a new interior light that will help control the crew's circadian rhythm.

Reichert was tasked with working with engineers to make sure the light works properly with the cameras.

But he is most proud of how the imagery shot by his subjects is used by engineers for data. He used the space debris that hits the International Space Station as an example.

"They get a lot of data off those pictures and video that you can't do any other way," he said. "You can't put a sensor on it and get the data you need. You have to get that imagery."

Mindy Mozer
Rebecca Roth ’91, image coordinator, NASA’s Goddard Space Flight Center

R

becca Roth in many ways spent her career preparing for her current position as image coordinator and social media specialist at NASA’s Goddard Space Flight Center in Maryland.

Roth ’91 (professional photographic illustration) started at NASA six years ago after working as a photojournalist or photo editor for newspapers, including Roll Call; magazines, including USA Weekend; and National Geographic’s Television and Film Division.

“I look back at my career and I think everything I did gave me the skills and knowledge and experience to do this job now,” she said. “This is a really unique position and it fits my personality.”

Part of her job at NASA Goddard is sharing imagery with the media. The other part is sharing those images with the public, mainly through social media such as Instagram and Flickr.

“At Goddard we have new science happening all the time,” Roth said. “We have satellites capturing new images of Earth every day.”

To help people find those images, Roth started a NASA Goddard Instagram account, Twitter account and beefed up the Flickr page. Instagram and Twitter are online social networking services that allow people to share images and videos. Flickr is a website where images and videos can be posted.

An image of Earth known as the Blue Marble posted by NASA Goddard has more than 6 million views on Flickr.

“We went from about 100 views a day to over 100,000 views a day,” Roth said. “We believe our 2012 ‘Blue Marble’ image is one of the all-time most viewed image on all of Flickr.”

Other images that have been popular are the view of Venus passing in front of the sun, weather imagery and a fun image of craters that look like Cookie Monster’s face on Mercury’s surface.

“I’m always trying to keep it different and trying to keep it fresh and looking for new ways to engage the public.”

The approach has worked. The social media team at Goddard won a Shorty Award last year in the government division, which is like winning an Oscar for social media. The manager of that team is executive producer Wade Sisler ’83, ’85 (professional photography).

Roth said the award was nice but her favorite part of the job is being able to interact with the public through these social media channels.

“We are able to grab people’s attention with amazing images and teach them something interesting about space and whatever science stories we are telling,” she said. “You get to see people sharing, liking and commenting and little kids saying, ‘I want to work for NASA when I grow up.’ It’s a great opportunity to be able to make a difference.”

Mindy Mozer
Jason Grow ’04, ’05 worked with Boeing and NASA engineers to test the liquid oxygen tank that will fuel the agency’s new rocket, the Space Launch System.

Grow was part of the team building a replica of the Space Launch System rocket, including its 200-foot-plus test-stand, at NASA’s Marshall Space Flight Center in Alabama.

**Jason Grow ’04, ’05, propulsion engineer, Boeing**

NASA’s Space Launch System rocket will have more than 8 million pounds of thrust, equal to the horsepower produced in 160,000 Corvette engines, and launch 70 metric tons into space. And that’s just the smaller of the two rockets being built.

One of the engineers helping to configure all that power is Jason Grow ’04, ’05 (mechanical engineering), a propulsion engineer with Boeing’s Space Exploration Division.

“The project I’m working on is for NASA to resume deep space, human exploration. Boeing is building the rocket that will take humans farther than we’ve ever gone before,” said Grow about the launch system that one day will take people into space. “I’m a big supporter of these missions, whether to the moon or to Mars. There are so many people involved with many different backgrounds.”

His area is in the analysis, test, integration and operation of space propulsion systems. Grow, who has been with Boeing for 10 years, relocated from California to NASA’s Marshall Space Flight Center in Alabama for the project. He was the lead analyst/test director of the full-scale replica of the liquid oxygen system that would be used in the rocket. With his team, they assembled and tested more than 250 intricate pieces of instrumentation on the feed-line liquid oxygen system.

“Loading the volatile propellants onto the rocket is a daunting task with the liquid oxygen being minus 300 degrees Fahrenheit. It’s a different world and when you know you have to load a rocket with astronauts—nothing can go wrong. We have to prepare and practice and be absolutely 100 percent on everything for that moment when the engines start and the rocket leaves the launch pad.”

Grow always knew he wanted to work in the aerospace industry and took advantage of the aerospace concentration as an undergraduate in the Kate Gleason College of Engineering. He was a member of the Aero Club, led a MicroAir Vehicle project team and played for RIT’s soccer team. He sought opportunities whenever he could to learn more about the aerospace field through senior design projects and work with faculty.

This past summer, Grow was presented the 2015 Early Career Stellar Award for his work on the liquid oxygen feed system. Given by the Rotary National for Space Achievement, the awards recognize top teams’ and individuals’ work in U.S. space-related associations. It was like the Oscars, said Grow. But instead of Hollywood celebrities announcing winners, U.S. astronauts celebrated those whose contributions to projects will influence the country’s future space voyages and discoveries.

“We are helping to shape the future of space exploration. And right now, there’s only one place in the world for me to be a part of it—and that’s why I’m here.”

Michelle Cometa ’00
Michael Denning ’07 oversees the development of satellite systems built for the U.S. National Oceanic and Atmospheric Administration and NASA. This photo was taken at Vandenberg Air Force Base in California, shortly before the launch of a Delta II rocket that carried an environmental satellite into orbit on Oct. 28, 2011.

Michael Denning ’07, remote sensing scientist, Integrity Applications Incorporated

He may not be able to control Mother Nature, but Michael Denning is helping to create the systems that record her most changeable weather patterns.

Denning ’07 (imaging science) is a senior system engineer and remote sensing scientist at Integrity Applications Incorporated, a private engineering and software services company based in Virginia with contracts primarily supporting the aerospace needs of government agencies. One of his first projects was overseeing the development, launch and operations of a satellite for NASA and the U.S. National Oceanic and Atmospheric Administration (NOAA).

“The Joint Polar Satellite System is our nation’s most advanced polar-orbiting environmental satellite system and is one of two major programs that provides the government with data for improving short-term weather forecasts and monitoring long-term climate change,” he said.

Denning, who began work on the project in 2007, provided cross-agency programmatic and technical support and was able to see firsthand the entire lifecycle of a satellite program from its initial development to routine operations to production of end user products. “And the launch was exciting even though it took place at 3 a.m.,” he said, laughing.

“We were in California watching the rocket fly into orbit. After a few minutes it was just another star, and then a few minutes later it was out of sight completely. It was a great experience knowing that you helped the mission succeed, that you contributed to something that would be orbiting the Earth 14 times a day at 500 miles over our heads for years to come.”

In October 2014, Denning transitioned to a new project for the White House Office of Science and Technology Policy. While his work with NASA and NOAA focused on one single satellite system, his newest role requires gathering information about hundreds of Earth-observing systems and evaluating the impact of those systems. The work brings together many government agencies, corporations and academic researchers, and culminates with a report intended to help the government develop a strong national plan for the use of, and investment in, Earth-observing systems.

Denning, who was hired right after graduating from RIT’s imaging science program, said his undergraduate education gave him the context needed to excel in his jobs where rapidly integrating technical information from multiple sources and responding in intelligent ways was absolutely critical.

“The imaging science program is very unique, especially for an undergrad,” he said. “It is a field that pulls from many disciplines such as mathematics, physics, engineering, computer science and others with a focus on anything imaging-related, from printers to MRIs to satellites, for example. Students typically do not have an opportunity to study such a specialized field without getting a graduate degree. So as an undergraduate imaging science major, I was especially attractive to employers and well positioned to find meaningful work and go directly into industry upon graduation. Without my education at RIT, I would not be where I am today.”

Washington, D.C., is a hub for imaging science graduates who, like Denning, go into the government’s classified and civil sector programs. It is work that gives him a sense of meaning and purpose.

“It’s reassuring to know that your work has a positive impact on society, that these technologies and data are used to save lives and property and to advance our world in so many ways.”
Space travel to Mars is the millennial generation's voyage to the moon, and Thomas Brown ’02, ’12 (mechanical engineering, microsystems engineering) is helping develop equipment that will generate oxygen from the Red Planet atmosphere. In future manned missions, this vital resource could be used to sustain life and help burn the rocket fuel that will bring astronauts back home.

Brown, a mechanical systems engineer with NASA’s Jet Propulsion Lab, is helping to develop the Mars Oxygen In-Situ Resource Utilization Experiment, or MOXIE, a complex atmospheric acquisition and processing system that will be installed in the Mars 2020 robotic science rover.

“The instrument that I am working on has the potential to transform the future of Martian exploration,” he said. “Developing technologies like the one I work on that could potentially reduce the resources we must bring to Mars to support life in the future could substantially reduce the cost of future manned missions to Mars.”

Brown, a Rochester native, worked for several years at an automotive supply company after graduation, then returned to RIT to complete his Ph.D. in microsystems engineering. The multidisciplinary doctoral program gave him the chance to gain expertise in physics, chemistry and engineering disciplines and to explore new technologies that benefit innovative design projects, like the one he’d be assigned to at NASA.

“We’re constantly learning new things about Mars,” he said. “Knowing that the work I do is going to directly impact future manned missions to Mars is exciting. Being a lead engineer for an instrument that will do something that has never been done before makes for a dynamic workday.”
John Frye ’10 (computer engineering) and Michael Every ’14 (physics) didn’t know each other at RIT, but they followed similar paths to Ball Aerospace & Technologies Corp. in Boulder, Colo.

Frye had always pictured himself working for a company like Intel making microprocessors after graduation until he snagged a co-op in 2009 in RIT’s Center for Detectors, a research lab established by Don Figer within the College of Science.

Every thought he would specialize in astronomy until he worked in the Center for Detectors from 2012 to 2014. He is now an optical engineer at Ball.

Frye started as a detector engineer at Ball in 2011 after staying on at the Center for Detectors after graduation. The company, which built science instruments aboard the Hubble Space Telescope and the Operational Land Imager on the Earth-observing satellite mission Landsat 8, specializes in space-based instruments and sensors. Frye works on national defense-related projects and research and development. Every works on testing camera systems for satellites, including the Ozone Mapping and Profiler Suite.

Both said the work they did in the Center for Detectors prepared them well for their positions, particularly being exposed to a wide variety of engineering disciplines. “The hands-on experience that the Center for Detectors gave me was invaluable,” Every said.

“They were very impressed with the amount of pre-learned skill I had coming out of RIT,” Frye said. “RIT does a very good job of preparing students to contribute from day one.”

Mindy Mozer

Stephanie Mauro ’13, thermal engineer, NASA’s Marshall Space Flight Center

When Stephanie Mauro was in high school, she always thought it would be cool to work in the space industry.

“But I never really thought that I would just because it seems so far-fetched,” said Mauro ’13 (mechanical engineering). “Everyone says it’s so hard to work at NASA. But it’s really not. If you work hard, you can get there.”

Mauro is proof of that. She started full time at NASA in March of 2013, even before she officially walked across the graduation stage. She was hired at Marshall Space Flight Center in Huntsville, Ala., after she completed a co-op there in the spring and summer of 2012.

She’s a thermal engineer in the Thermal and Mechanical Analysis Branch of the Space Systems Department, the same department she worked in as a co-op student. When she was on co-op, Mauro worked on a payload for an unmanned aerial vehicle that measures wind speeds and rain rates in hurricanes.

She performed the thermal analysis of the payload, which is called Hurricane Imaging Radiometer (HiRad), before it flew. When she came back full time, she compared her analysis with data from the flight concerning the behavior of hurricanes.

She is currently working on Iodine Satellite, a 12-unit cubesat, or miniaturized satellite, scheduled for launch in 2017. “I like the work I get to do because it is challenging and a lot of problem solving and figuring things out,” she said.

Mindy Mozer
Introducing the RIT Loyalty Circle
Recognizing our most loyal supporters—our consecutive annual donors. These generous individuals understand that consecutive annual giving, no matter the size, has a huge impact.

Can we count you in?
- Donors with two or more consecutive years of giving are automatically members
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Eager to be a part of something great? Ready to help RIT shape the future? Join the RIT Loyalty Circle by making a gift today.

To learn more please visit rit.edu/LoyaltyCircle
RIT professor Bob Rothman, above, is an expert on the wildlife and the geology that inspired Charles Darwin’s theory of evolution by natural selection. He will take RIT students, staff and faculty on his 25th visit to the Galapagos Islands in January, where they will have a chance to swim with green sea turtles.
Students on the Galapagos tour learn about the geology, land and sea birds and reptiles. Pictured above from left to right are a land iguana, flightless cormorant, Nazca boobies and a lava lizard.

GALAPAGOS ARE PARADISE FOR REPTILES—AND RIT PROFESSOR

A freak accident in the Galapagos Islands cost Bob Rothman his wedding ring. A strong current dragged the RIT professor over rocks while snorkeling. When he grabbed onto a rock, the ring he had worn for 46 years slipped off his finger and fell into a crack.

“I saw it happen and I couldn't get it,” Rothman said. “So I told everybody that now I’m married to the Galapagos.”

The irony is not lost on anyone who knows Rothman, the professor in RIT’s Thomas H. Gosnell School of Life Sciences with a reputation for a demanding genetic engineering class, and a real passion for the Galapagos Islands.

Rothman is an expert on the wildlife and geology of the Pacific Archipelago located off the coast of Ecuador that inspired Charles Darwin’s theory of evolution by natural selection. Observations from Darwin’s 1835 voyage to the Galapagos Islands led him to link adaptation and evolutionary change to genetic variations that cause species to reproduce and spread favorable genes.

This January will mark Rothman’s 25th visit to the Galapagos and his 20th tour for RIT students, faculty and staff. His fascination for the place began in 1989 while on a trip offered through the Rochester Museum and Science Center.

Rothman signed up for the trip as professional development at the suggestion of his then-department head, G. Thomas Frederick, now professor emeritus. John Paliouras was then-department head, G. Thomas Frederick, now professor emeritus. John Paliouras was dean of the College of Science at the time andScience Center.

Rothman and his wife, Andrea, have visited the Galapagos every January for the foreseeable future. “Each time you see it in a different light.”

Rothman has spent 25 years photographing the wildlife on the islands for a book he is writing about Galapagos reptiles—tortoises, marine and land iguanas, lava lizards, geckos and snakes. The working title of his manuscript is *A Paradise for Reptiles,* a reference to a quote from Darwin’s diary.

A portion of the proceeds from his book will go to the Galapagos Conservancy. “I want to give back something because the Galapagos has been such a big part of my life,” he said. “It totally reoriented my scholarly and intellectual life since I started going. I want to give back, even in a little way.”

To learn more

The January trip to the Galapagos Islands has sold out. For more information about future expeditions, go to galapagos.rit.edu.
Whether people are staying overnight at Rochester’s new Hilton Garden Inn or dining at Grappa, they likely will be served by at least one RIT graduate.

The group of six hospitality majors, Don Stubblebine ’95, Erica Standish ’10, Elizabeth Altieri ’11, Brett Wolf ’05, Madeline Young ’13 and Jessica Stetson ’15, is working together at the Hilton Garden Inn that opened last June in Rochester’s College Town complex near the University of Rochester.

Although the graduates are a part of the same company, they encompass a wide range of roles.

Stubblebine, hotel general manager, is responsible for the hotel and restaurant. Wolf, housekeeping manager, and Young, operations and sales assistant, work in the hotel.

Standish, food and beverage director; Altieri, restaurant and bar manager; and Stetson, banquet manager, run Grappa, the Italian restaurant, and banquets.

Prior to the new hotel, Stubblebine, Standish, Wolf and Young worked at the Courtyard Marriott in Brighton, N.Y., owned by the DelMonte Hotel Group. The corporation also owns the Hilton Garden Inn.

Stubblebine has managed several local hotels for the corporation but opening a customized hotel was a new experience for him. Due to the extensive food and beverage operation, he has to reach many goals, and ranking No. 1 is at the top of his list.

“I want to be the best Hilton Garden Inn in the U.S.,” Stubblebine said. “Out of the 599 Hilton Garden Inns, we are ranked second.”

Standish works every day in the upscale Italian restaurant to educate guests about the selection of grappas and modern cuisine they offer.

“Getting the word out about the 30 different Italian grappas we serve and the different ways the spirit can be used are my main goals for the restaurant,” Standish said.

Grappa is made from grape pomace, the seeds, pulp and stem leftover from winemaking, and distilled into a high proof spirit. The spirit aids with digestion and pairs well with dessert and coffee. While the spirit is typically consumed after dinner, it can also be mixed in cocktails and used to make butter.

In addition to grappas, the restaurant serves Italian Nouveau cuisine, a variety of classic Italian dishes with a modern twist.

The modern cuisine has received positive feedback from guests.

To continue providing the latest food and beverage trends, Standish plans to develop new cocktails and entrees.

“I feel so lucky to be a part of such a great company and a fantastic hotel and restaurant that has just taken off from the beginning,” Standish said. “I know we will continue to grow in the future.”

Traci Turner ’16

Half dozen hospitality grads land at new hotel

From left to right are Elizabeth Altieri ’11, Brett Wolf ’05, Erica Standish ’10, Don Stubblebine ’95, Madeline Young ’13 and Jessica Stetson ’15 at the Hilton Garden Inn in Rochester.
Christine Vargas '93 runs a successful facilities project management company in Rochester.

Alumna creates company, captures opportunities

Christine Vargas '93 (industrial engineering) was just a few years out of school when she had three months to take 80,000 square feet of space and turn it into a workspace for more than 300 Xerox employees.

"There were big technology needs," Vargas said. "It involved an incredible amount of planning."

Throughout the project, colleagues told her she wasn't going to make the deadline. She did, and that marathon project and others that followed have defined Vargas, who is now the president of Vargas Associates in Rochester.

"For me, my life has been about trying to capture opportunities," she said. "You don't know when the opportunities are going to head your way. If you prepare yourself, you can be ready to catch them."

Vargas started her company in 2004 and today has 10 employees—eight of them are RIT graduates.

The staff delivers facilities project management, relocation management, space planning and interior design work for public clients like the Rochester Police Department, City of Rochester and Rochester City School District's Facilities Modernization Project, and for private companies, such as Toshiba Business Solutions and Frontier Communications.

Vargas got her start at Xerox through RIT's co-op program on a software project.

"I wasn't crazy about the position but I just wanted to get into Xerox because through the co-op program you see people being hired so you think just get in the door," she said.

Within two weeks she was asked to work on a facilities project, and before she got her diploma, she was put in charge of two $1 million renovation projects for Xerox.

After she graduated, she continued to work with Xerox but as director of project management for FM Technologies, which won a contract for facilities project management services.

She stayed with FM Technologies for 10 years before she decided to start her own company.

One project led to another and slowly she began adding staff.

In 2008, she added interior design to the company's portfolio. Vargas Associates is certified as a Woman-Owned Business Enterprise in New York state.

Her company has merged two branches of the Irondequoit, N.Y., Public Library and relocated entire schools.

"We have relocated 4 million square feet of space over four summers for the Rochester School District."

Vargas Associates also worked on the Golisano Children's Hospital in Rochester and is currently working with Kaleida Health on the Women and Children's Hospital of Buffalo.

It's not uncommon for the company to have 20 different projects going at one time. The work comes, she said, because they build on their successes.

"I wanted to create a company that would be held in high regard to the quality of work we do," she said. "I want to be the gold standard."
Thomas Temin was a little surprised when he got a call from a radio station in Washington, D.C., asking him if he was interested in becoming an anchor on the morning show.

“I said I have never been in a radio booth,” remembers Temin ’77 (photography).

But Federal News Radio was looking for someone who understood the market, and after 30 years as a journalist, Temin had become an expert on the federal government.

Temin has been a host of The Federal Drive, which airs weekdays from 6 to 9 a.m. on 1500 AM in the Washington, D.C., area, for eight years. He chats with members of Congress, cabinet secretaries and government experts during the news and talk program, which focuses on the federal government and those who do business with the government. He also writes a weekly column.

“I have always been able to find something, see something, discover something and tell people about it in a compelling way,” Temin said. “That spans photography, it spans print publishing, blog writing and broadcasting.”

Temin’s career path to radio started in print. The editor-in-chief of RIT’s Reporter magazine began at a small weekly newspaper in New Hampshire, working as a photographer, reporter and sports editor. He did that for 18 months before returning home to the Boston area to work at a daily newspaper. But workers at the publication went on strike, and after two weeks of picketing, Temin decided to go in a different direction.

He joined a prominent Boston company called Cahners Publishing Co. and worked there for 17 years editing industrial and high technology publications. At the age of 30, he became the youngest editor-in-chief at the company, which published more than 100 magazines.

Cahners transferred him to Washington, D.C., where it had a large trade publication called Government Computer News. He became the top editor. The publication was sold to the Washington Post Co., which formed PostNewsweek Tech Media. Temin worked his way up to executive vice president and oversaw five magazines focused on the public sector market and the contractors who serve the federal government.

But eventually the Washington Post Co. sold the magazines and Temin turned to consulting. That’s when Federal News Radio called.

Temin conquered a steep learning curve, including learning the importance of preparation. He reads up to 10 publications a day to get ready for the next show. That way he has enough material to cover if a guest gets disconnected or is boring.

He is also careful to use the correct terminology. If he mispronounces a name or calls a sailor a soldier, for example, he will lose credibility.

“You prepare for the unexpected by being prepared,” he said.

In many ways, that sums up Temin’s career, whose work in publishing prepared him to be an anchor.

“It’s really fun,” he said. “I just turned 60 and I love the work. I’m not ready to slow down yet.”

Mindy Mozer
Oh, what a ride. In August 2014, Troy Rank spent the entire month on his electric bicycle and logged 4,400 miles in 30 days to beat the Guinness World Record for “longest motorized bicycle journey.” During his round trip solo ride from his hometown in Walworth, N.Y., to Boulder, Colo., he said the entire travel cost for electricity was, believe it or not, just under $20.

Rank had no transportation backup, nor a tech crew following his progress. But he did have help back home from his wife, Kerra, who would do Google searches for the best off-road bike paths along the way.

“The good part was that I saw some amazing landscapes because the trails off the highways force you to see how the country stitches together and you get to meet some amazing people living in the local communities,” said Rank. “The bad part was changing three flat tires in one day.”

Before graduating with an MS degree in entrepreneurship from RIT’s Saunders College of Business last May, Rank traveled on his e-bike “built from scratch” to classes. The e-bicycle enthusiast still relies on two wheels and doesn’t own a car—the bike is his mode of transportation when he treks to work as a systems engineer at GE-MDS in Rochester.

Rank is also the founder and product architect of Maxwell Motorbikes. During the last year, he has expanded his e-bike passion to create a prototype for one of the lightest e-bikes in the world with RIT alumni John Lillibridge ’15 (industrial design) and Justin Schmidt ’08 (metals and jewelry design).

With help from RIT’s MAGIC (Media, Arts, Games, Interaction and Creativity) Center and the Albert J. Simone Center for Student Innovation and Entrepreneurship, the team received a National Science Foundation I-Corps grant to further develop the fully functional prototype—which will sell for approximately $1,500 and is production-intent for availability next spring.

According to Rank, Maxwell Motorbikes EP-0 weighs in at a mere 26 pounds (compared to the average e-bike at 45-50 pounds) and whisks the rider along on an invisible boost from an almost silent electric motor at up to 20 miles per hour with a 10-15 mile range. “This is design technology that has never been seen before in an e-bike,” said Rank, who explained that the cylindrical batteries are hidden inside the triangle frame of the bicycle and power a motor in the front hub of the wheel.

“We love the Maxwell EP-0 because it makes the rider three times more powerful, twice as fast, and can charge from an ordinary wall socket in 45 minutes. Ditch your car for a day and ride your bike.”

Marcia Morphy

A new cycle in two-wheel transportation
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)
GCCIS Kate Gleason 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.

1966
Stephen Neil Cooper ’66 (GAP) has launched Sybille Gallery, in association with RIT Gallery, in Midtown New York City. The gallery features RIT student, faculty and alumni street photography and photojournalism.

1969
Kathleen (Scheid) Van Voorhis ’65 earned her Certified in Production and work experience. She is now managing a co-op print workshop and managing a co-op print workshop.

1970
Jonathan Atkin ’73 (GAP), ’78 (CIAS) formed the Atkin Drone team. With full permission of the Port Authority of New York and New Jersey, he and his team filmed the transit of a historic, one-of-a-kind coastal oil tanker from one part of the Red Hook port to another. Go to https://vimeo.com/131892836 to see the video.

1974
Russell Kirk ’74 (GAP), owner of Goldlinkphotography.com, has merged a successful advertising career in New York City with his passion for golf and has a thriving business photographing golf courses and resorts. Kirk has an extensive list of clients including the United States Golf Association, PGA of America, Club Corp., Nicklaus Design and Golf Magazine. His work has been included in numerous golf publications and books.

1975
William Truran ’75 (GAP) has written his third accepted class for William Paterson University. These include studio lighting, advanced Photoshop and now Lightroom CC 2015.

1976
John Neal ’76 (GAP) and Tony Horney celebrated their 34th anniversary as a couple in September 2014. They were married in June 2015.

1977
Michael Joniec ’77 (GAP) is the first-ever adjunct instructor at Community College of Philadelphia to be awarded, based on merit, the academic title adjunct assistant professor. He has been adjunct instructor in photographic imaging since 1979. Visit his website at joniecinc.com.

1978
John Cooper ’78 (GAP) has published Organic Portraits, a coffee table book of his series of large format photographs. Organic Portraits features models photographed against classic backdrops and incorporating natural elements into the model’s hair to create unique hair sculptures.
Gregory Hitchin ’78 (GAP) was recognized by the International Economic Development Council as a certified economic developer and recently was an instructor at the basic economic development course at University of North Carolina at Chapel Hill.

Steven Schonour ’78 (GAP), after 34 years in the printing business and three in health care sales, is now the owner of Rooster Publications and publisher of Hard Tales Magazine, a motorcycle-themed free monthly publication serving Western New York and the surrounding areas dedicated to riders, their needs and lifestyles. For more information, go to hardtalesmagazine.com.

1979
Robert “Bob” Mindler ’79 (SCB), ’84 (CCE) received his 54th U.S. patent as an inventor or co-inventor in August.

1981

Rochelle (Cohen) Lempert ’81 (CLA) has annual sales of $3.5 million.

1982
David Clarke ’82 (CAST) accepted the position of practice leader in the Dallas office of Alliance Transportation Group. He also has a new grandson, Carter Shaughnessy.

Robert Savage ’82 (GAP), a freelance photographer, won second place “Picture Story” in the Division 3 category for the Port-Times-Record Newspapers on Long Island, N.Y.

1983
John Allie ’83 (KCGOE) has joined the Taft Stettinius & Hollister LLP law firm as a partner in the Indianapolis office as a result of the expansion of its intellectual property practice group. He focuses his practice in the areas of patents, trademarks, copyrights, trade secrets and general technology-related agreements.

1984
Suzanne (Wheeler) Demo ’84 (GAP) was awarded a research grant from the College of William and Mary in Williamsburg, Va., where she has been teaching drawing for 15 years. Her “High Sierra Immersion Project” allowed her to spend a week in Hope Valley, Calif., painting, drawing and photographing the landscape. Her work will be on display as part of the 13th Faculty Show at the Muscarelle Museum of Art at the College of William and Mary through January 2016.

1985
Terrence Moag ’85 (SCB), founder of Radiant Store Inc., a diversified renewable energy and efficiency company at RPI Technology Park in Troy, N.Y., celebrated the company’s 10-year anniversary. The company specializes in LED lighting, solar and HVAC product lines and has annual sales of $3.5 million.

1986
Donald Gress ’86 (SCB) has been elected to the board of directors of Lollipop Farm, the Humane Society of Greater Rochester. He is a vice president with Honeywell Corp.

1987
Timothy LaLonde ’85, ’87 (SCB) started a new job as a controller at Hyde & Hyde Inc., a private food packaging company in Corona, Calif.

1988
Kristine (Argento) Bruene ’86, ’88 (SCB) was one of only 13 cast members selected for Rochester’s first-ever “Listen to Your Mother” event May 8 at the Memorial Art Gallery. The sold-out show was a one night only live staged-reading event to give local women and men a forum to share their motherhood stories in celebration of Mother’s Day. Bruene is a marketing consultant and professional writer.

1989
Dean Neubauer ’88 (CCE) is now an engineering fellow at Corning Inc., where he has worked since 1981. He was also an adjunct professor in the John Hromi Center for Quality and Applied Statistics from 1992-2012, where he taught 11 different courses in the MS program.

1990
Dawn House ’87, ’88, ’90 (CCE) worked at RIT for almost 15 years. Sons Gregory and Christopher are graduates of the packaging science program with successful careers. Daughter Michele also worked at RIT. And now her grandchildren entered RIT. She lives on Lake George in Ticonderoga, N.Y., in the summer and in Sarasota, Fla., in the winter.

Karen Murano ’90 (GAP) earned a State of Connecticut Certificate in Education Administration and Supervision from the University of Connecticut NEAG School of Education in June 2015.

1992
Young Kim ’92 (KGCOE) is now an associate director of biostatistics at PPD, a clinical research organization.

1993
Joseph Brennan ’93 (FAA) of Brennan Designs would like to share the great memory of climbing the Manhattan Bridge all the way to one of the slotted spheres on top. Viewing and photographing New York City from such a unique place led to one of his pieces, “The Manhattan.” To see other designs, go to brennandesigns.net.

1994
Andrea de Polo ’94 (CIAS) writes that after graduation she moved to her hometown in Florence, Italy, where she works at Fratelli Alinari, the world’s oldest photographic archive, preserving more than 5.5 million images from the 19th and 20th centuries from around the world.
Grad woos ‘Fair Lady’ with theater

David Torrente ’97 (mechanical engineering) has musicals in Toronto to thank for meeting his wife.

In 1996, David was going door-to-door on campus selling raffle tickets for the RIT Student Music Association’s trip to Toronto to see My Fair Lady. He was in the basement of The Wallace Center when he approached a student working on co-op making video recordings of distance learning classes.

“I had gone back to the office of the Music Association and I mentioned that I ran into this really cute girl working downstairs in the library,” David said.

“He sold me a raffle ticket and apparently he was interested in me,” said Nancy (Mertmann) Torrente ’98 (electrical engineering). “Then I kept randomly bumping into him.”

First, Nancy saw him on her way to the monthly meeting of the student association of the Institute of Electrical and Electronics Engineers. The meeting had been moved from the electrical engineering floor to the mechanical engineering floor.

Then a couple of weeks later, the Music Association had its end of the quarter meeting at a local restaurant. Nancy’s roommate, a Music Association member, invited Nancy to tag along.

Nancy had just gotten out of a relationship, so she wasn’t eager to start another one. But David was persistent, and in May of 1996 they started dating. That summer sealed the deal.

David was working in the New York/New Jersey area on co-op and Nancy had stayed in Rochester to take summer classes. For her birthday, David had purchased tickets to The Phantom of the Opera in Toronto. He rented a convertible to drive to Rochester and pick her up for the trip.

“This guy is going all out just to woo me,” Nancy said. “I kind of fell for him hard that weekend.”

They were married in September of 2000 on Long Island. Today they live in Randolph, N.J., where David works in patent law. He got his law degree from Fordham University in 2005. He attended classes at night while working as a patent agent during the day.

Nancy is transitioning back into the workforce doing technical writing after being a stay-at-home mother to their children: Jean, 10, and Richard, 7. Before that, she was a systems test engineer working on air traffic control systems. She went on to earn a master’s degree in education from St. John’s University in 2004, which she put to use teaching middle school math.

They stay active with RIT. David is part of the Alumni Association Board of Directors and they come back annually for Brick City Homecoming & Family Weekend.

In July, they hosted a send-off party in Randolph for area freshmen headed to RIT.

They don’t get to many musicals these days with their busy family. Nancy pointed out that she still hasn’t seen My Fair Lady. Her raffle ticket back in 1996 wasn’t the winner.

“Instead, she got the booby prize,” David said.

David Torrente ’97 and Nancy (Mertmann) Torrente ’98 were married in 2000.
Jeremy Sniatecki ’95 (CIAS) is currently a freelance resource on a wide variety of major licensed products in the toy and collectibles industry, including an Avengers: Age of Ultron high-end licensed collectible featured at Comic Con. He is also the creative director/graphic designer/illustrator for Casual Dragon Games, which has already gained international attention with its flagship tabletop game Island Dice.

Micah Modell ’98 (CAST) earned his Ph.D. in instructional systems technology from Indiana University.

Jonathan Phillips ’99 (COS) joined Google as a staff image scientist in April 2015 at its headquarters in Mountain View, Calif. His responsibilities include overseeing the approach to defining, measuring, and developing image quality for projects throughout the company. Prior to Google, he worked at NVIDIA in Santa Clara, Calif., and at Kodak in Rochester.

Colleen Anguish ’00 (CIAS) is an account manager for Marketing Technologies of Western New York in Buffalo.

Michael Kennedy ’01 (SCB) retired after 30 years of Air Force active duty with the Air National Guard and Reserve service at the rank of colonel. He lives in Lynchburg, Va., and works as a federal civilian employee as a financial resource manager with the Department of Defense.

Charlene Knight ’02 (CLA), a veteran, is currently in seminary at Southwestern Assemblies of God University and anticipates graduation with a Master of Divinity degree in December 2015. Knight is a chaplain volunteer at Thompson Hospital, Spiritual Care Department in Canandaigua, N.Y. She recently started a production company, The Brave Diamond Warriors Productions, and is chief executive officer.

Kristin Hocker ’03, ’04 (CAST) earned her Doctor of Education degree from the Warner School of Education at the University of Rochester in May. She continues to work at UR as an organizational development specialist in the Human Resources Department.

Brett Hall ’05 (CIAS), as animation producer on the PBS Kids show Peg + Cat, was once again nominated this past spring for a Daytime Emmy Award for Outstanding Pre-School Children’s Animated Program.

Nathan Gardner ’04 (COS) has been appointed to the faculty of the physician assistant program at Albany Medical College in Albany, N.Y. He is a clinical instructor. He graduated with his master’s degree from the Albany Medical College physician assistant program in 2007.

Megan Lessard ’04 (CIAS) was promoted to the position of archives and digital services specialist at Roger Williams University in Bristol, R.I. She is responsible for photography and digitization of the materials in the university archive and special projects.

Jeffrey McCullor ’04 (SCB) celebrated the one-year anniversary of his microbrewery, Erie Ale Works, on Sept. 6, 2015. The company, officially organized in 2012, is a founding member of the Lake Erie Ale Trail, a new tourism initiative for the Erie, Pa., region.

Ashley Walker ’05 (CIAS), ’07 (SCB) was promoted to marketing director of M&T Realty Capital Corp., a wholly-owned subsidiary of M&T Bank. She has worked for M&T since 2013.

William Keyser ’06 (CIAS) exhibited sculptures at the following places in 2015: Rochester Finger Lakes Exhibition, Memorial Art Gallery, Rochester; Art in Craft Media, Burchfield Penney Art Center, Buffalo, N.Y.; The Condition of Music, Oxford Gallery, Rochester; and Art Invitational, Sibey Building, Rochester. He also exhibited paintings at Given To Abstraction, The Mill Gallery, Honeye Falls, N.Y.

Robert Rose ’06 (COS) has started a patent law firm, RosePatents. He specializes in patents related to imaging, optics, physics and cryptography.

Ryan Schkoda ’07, ’06 (KGCOE) married Catherine Trentacoste (Bucknell University BS ’07, Clemson University MS ’10, Ph.D. ’12) on Long Island, N.Y., in April 2015. They met at Clemson University in a probability class. They live in Charleston, S.C. In attendance were fellow RIT alumni Lindsey Brady ’06 (CIAS), Justin Dickenson ’05 (CIAS), Thomas Giamei ’07 (CAST), Jason Micari ’06, ’11 (NTID), Kristen (Kane) Micari ’04 (COS), Joseph Olles ’06 (KGCOE), Mark Olles ’02 (CAST), Gregory Penoyer ’06 (KGCOE) and Andrew Street ’06 (KGCOE).
2007
Amanda Malkin ’07 (CIAS)
established a private art conservation practice, with a specialty in works of art
on paper. She lives in Alexandria, Va.
Rachel McGinnis ’05, ’07 (CAST)
graduated with her Ph.D. in conflict
analysis and resolution from Nova
Southeastern University in Fort
Lauderdale, Fla. She also was elected to
the International Network of Genocide
Scholars, the second largest genocide
scholar association in the world. She is
a founding member of the newly
created Journal of Interdisciplinary
Conflict Science.

Chauvuanne Wills ’07 (GCCIS)
completed her MBA at the University of
Maryland—Robert H. Smith School of
Business in May. She focused on
financial policy and has relocated
from Washington, D.C., to Buffalo,
N.Y., to accept a position as an
executive associate in M&T Bank’s
corporate compliance department.

Cameron Youngblood ’07 (COS)
is among the newest class of Woodrow
Wilson New Jersey Teaching Fellows. He is receiving $30,000 to complete
a specially designed master’s degree
program based on a yearlong classroom
experience. He will teach for
three years in the urban and rural
New Jersey schools that need strong
STEM teachers.

2008
Stacy Jannicelli ’08 (GCCIS) and Petty
Officer 1st Class Christopher Gabianelli
were married on March 17, 2015, in
Norwich, Conn.

Omar Khouri ’08 (GCCIS) is launching
Syntheto, a unique collaboration plat-
form designed to bring together
creative people all over the world. From
Syntheto’s innovative dashboard, mem-
creative people all over the world. From
three years in the urban and rural
experience. In return, he will teach for
a specially designed master’s degree
program based on a yearlong classroom
experience. He will teach for
three years in the urban and rural
New Jersey schools that need strong
STEM teachers.

2009

Amanda Weiskoff ’08 (COS) became a
project manager at BioScience Writers,
a scientific writing and editing com-
pany based in Houston that serves
scientists worldwide. After comple-
ing her Ph.D. at Cornell University in
2014, she moved to Houston for a brief
postdoctoral fellowship at the Houston
Methodist Research Institute. There she
discovered her true passion is helping
researchers effectively communicate
their science.

2010
Nicholas Schneider ’10 (KGCOE)
successfully defended his Ph.D. dis-
sertation entitled “Liquid Cell Electron
Microscopy with the Nanoaquarium:
Radiation and Electrochemistry” at the
University of Pennsylvania. He started
with the Boston Consulting Group as a
consultant in the Boston office this
summer.

2011

Stephen Cramb ’11 (KGCOE) married
Allison (Schneider) Cramb ’11
(KGCOE) on Aug. 8, 2015, in
Skaneateles, N.Y., in the presence of
family and friends, which included a
good amount of RIT graduates. They
met on day one of orientation in 2006.
They lived in Brighton, N.Y.

Juliana Johnson-Tresdale ’11 (CIAS)
is now the Web and social media man-
ger at Communicque Marketing and
Design in Ithaca, N.Y.

2012

Toni Jolevski ’12 (CLA) was
recently hired as a school psychologist at
Capital School District in Dover, Del.

Yasmeen Smalley ’14 (CIAS) and Mike
Norman ’13 (GCCIS) first met
during their freshman year at RIT,
where they both lived in the same
freshman dorm building. They dated
throughout college, recently married in
Boothbay Harbor, Maine, and even
used their RIT champagne flutes at
their wedding. RIT classmate
Ashly Sharp ’13 (CIAS) photographed
the couple’s wedding.

Are you moving?

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the office toll free at 866-748-2586.
Tiger Cubs

1. Pirouz Maghsoudnia '91 (KGCOE) and Jenny Bock are proud to announce the birth of their baby girl, Daphne Moira Doolin, on Nov. 7, 2014.

2. Laura (Malczewski) Hild '00 (KGCOE) and her husband, Brent, are pleased to announce the birth of their daughter, Skylar, on Nov. 1, 2014. This is their first baby.

3. Jennifer Hunt '01 (CIAS) is proud to announce the birth of her daughter, Korina, on Jan. 28, 2015. This is their first baby.

4. Blaine Moore '02 (GCCIS) and Erin Moore are happy to announce the birth of Andrew David on June 3, 2015, in Brunswick, Maine.

5. Lavender Marsh '01 (CIAS) and Ryan Albert '01 (CIAS) are happy to announce the birth of their daughter, Sophie Ann, on Aug. 8, 2015.

6. Justin Drawbaugh '01 (NTID), '03 (GCCIS) and his wife, Loree (Perry) Drawbaugh '98 (NTID), welcomed a daughter, Sophie Ann, on March 20, 2015. A.J., 7, and Jacob, 5, are proud to have Sophie as their little sister.

7. Lisa Kachigian '03 (CIAS) and Joshua Doolin '11 (KGCOE) are proud to announce the birth of their son, Krew Daniel Fairbarn, on Aug. 4, 2015, on the couple’s eighth wedding anniversary. Krew was born in Concord, Mass., and joins big sister Karter.

8. Benjamin Meunier '02 (CIAS), '03 (CAST) and his wife, Maia Meunier, welcomed their second child, Hudson Bennett, on April 8, 2015.

9. Denise Southern '03 (SCB) and her husband, Garrett, are proud to announce the birth of their son, Jake Hudson Bennett, on April 8, 2015.

10. Matthew Lawrence '04 (GCCIS) and his wife, Calin Lawrence, are proud to announce the birth of their baby boy, Rory, on May 14, 2015.

11. Daniel Shvimer '04 (GCCIS) and his wife, Jessica, welcomed baby boy Evan Jude on March 21, 2015, in Buffalo, N.Y., joining big brother Dylan Mark.


13. Robert Kapfer '05, '05 (KGCOE) is proud to announce the birth of his baby boy, Bryce Robert, on Aug. 28, 2014.

14. Ashley (Waltz) Walker '07 (SCB), '05 (CIAS) and Joseph Walker are proud to announce the birth of a baby girl, Nia Elethea, on Feb. 8, 2014. Big brother Joseph, born in 2010, and big sister Lily, born in 2012, are thrilled with the latest arrival.

15. Andrea Durkin '05, '07 (NTID) and Raymond Durkin '06 (GCCIS) are delighted to introduce their son, Peter, who was born on his grandfather's birthday and named in honor of him.

16. Kimberly (Rosenthal) Oliver '07 (CIAS) and Craig P. Oliver '06 (CAST) are proud to announce the birth of their baby girl, Eleanor Rose, on Aug. 29, 2014, in Phoenix.

17. Christopher Tytler '07 (SCB) and Jessica (Sarkis) Tytler '08 (SCB) are happy to announce the arrival of Julia Rose on June 24, 2015.

18. Sarah (Esley) Ozymek '08 (CLA) and Mark Ozymek '09 (KGCOE) are proud to announce the birth of their baby girl, Elin Astrid, on March 12, 2015, in Rochester.

Stefanie (Carey) Nicolosi '09, '10 (CIAS) and Charlie Nicolosi '10 (KGCOE) welcomed a baby boy, William Thomas, on July 21, 2015.

Nicole Gugliotti '09 (COS) is proud to announce the birth of her baby boy, Emmett Joseph Baldino, on Dec. 3, 2014.

Godwin Saldanha '09 (GCCIS) and Lavanya Ranganathan '08 (GCCIS) are proud to announce the birth of their baby girl, Zoey Saldanha, on Oct. 10, 2014.

Ana Sofia Siliezar '08 (NTID), '09 (CAST) and Charles Sterling '05, '07 (SCB) are proud to announce the birth of their baby boy, Aslan Ameliaus Sterling Siliezar, born May 12, 2015, in Arlington, Va.

Autumn Gaska '12 (NTID) and Christopher Shields welcomed Fynn Leaf Shields to the world on April 30, 2015.

Rachel Lowry '15 (NTID) and Pete Lowry '10 (KGCOE) are proud to announce the birth of their baby girl, Leah Lucille, on Aug. 8, 2015.

If you are a graduate of RIT and you have recently had a child join your family, request your free future RIT tiger baby bib at www.rit.edu/alumni/updateinfo/babybib.php.
Albany
The fifth Annual Rhino Run 5K took place on Oct. 10 in Loudonville, N.Y. 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
More than 100 alumni and guests from RIT and the University of Rochester gathered Aug. 30 in San Carlos at Burton Park for the third Annual Taste of Rochester Picnic. Thanks to Martin Hendess ‘94 for hosting the event.

On Sept. 12, a group gathered at Second Harvest Food Bank in San Jose as part of RIT Cares: Global Day of Service weekend. They helped box 22,000 pounds of produce.

Buffalo
On Sept. 16, alumni and guests gathered to enjoy international wines as they sailed along Lake Erie. Thanks to Rollin Shoemaker ’60 for hosting.

Charlotte
Alumni gathered Sept. 12 at the Time Warner Cable Arena during the CAN Conference gathering donations and handing out swag bags for the Ronald McDonald House of Charlotte.

Chicago
A group of 20 alumni and guests on Aug. 26 had dinner at the newly opened Dinosaur Bar-B-Que in the Lincoln Park neighborhood.

Dallas
A group gathered Sept. 12 at For the Love of the Lake as part of RIT Cares: Global Day of Service weekend for a morning of painting and revitalizing the grounds. Thanks to Scott Saldinger ’91 for organizing.

Denver/Colorado Springs
A group gathered Sept. 12 at Project C.U.R.E in Centennial for sorting and packing medical supplies that will be shipped to developing countries as part of RIT Cares: Global Day of Service weekend. Thanks to Emily Levine ’13 for organizing.

Jacksonville
Alumni gathered Oct. 24 at the River City Brewing Co. where they enjoyed happy hour and dinner while the sun was setting on the skyline of Jacksonville. Thanks to Harry Drake ’66 for hosting.

Los Angeles
On Oct. 24, alumni traveled to Long Beach to take the Glory Days Historical Tour, a special tour of the Queen Mary.

New York
On Sept. 12, alumni and guests watched the finals for both men’s doubles and women’s singles at the U.S. Open.

Philadelphia
On Aug. 30, alumni and guests enjoyed an afternoon watching the Phillies play the Padres at Citizens Bank Park.

As part of RIT Cares: Global Day of Service on Sept. 12, alumni volunteered at the SHARE Food Program. Thanks to Emi Sano ’14 for leading the group.

Rochester
On Aug. 1, alumni took part in a sunset canoe paddle and dinner on Hemlock Lake. Thanks to Frank Lucas ’75 for assisting with the event.

On Sept. 12, alumni took part in RIT Cares: Global Day of Service at four different sites: Mt. Hope Cemetery, Ronald McDonald House, Food-
link and Washington Grove. Thanks to all the alumni who braved the weather and gave back to the community.

On Sept 26, alumni were treated to a special reception at the First Niagara Rochester Fringe Festival Spiegeltent, where they enjoyed performances by RIT Ukulele Club and improv group Amateur Sqwad.

On Oct. 1, alumni enjoyed a day trip to the Shaw Festival for the theatre production of *Sweet Charity*.

Alumni and friends gathered on East Avenue to take part in the Landmark Society’s annual Ghost Walk on Oct. 23.

Alumni enjoyed an evening at Fairport Brewing on Oct. 29.

**South Florida**

As part of the RIT Cares: Global Day of Service on Sept. 12, alumni volunteered at Caring Kitchen. Thanks to Paul Finkelstein ’91 for leading the group.

**Syracuse**

On Sept. 13, alumni enjoyed an afternoon on the Erie Canal where they learned fun facts about the waterway, witnessed the functions of a lock and enjoyed a Dinosaur Bar-B-Que lunch aboard the Emita II.

On Oct. 23, the men’s hockey team faced the Colgate Raiders in Hamilton, N.Y. Alumni enjoyed a pre-game reception before watching the game.

**Taiwan**

On July 4, alumni gathered in Taipei to welcome Shanchieh Jay Yang, professor and head of RIT’s computer engineering department. Thanks to Bob Chien ’08 and Winnie Lin ’06 for hosting.

**Reunions**

Men’s baseball held its annual alumni reunion on Sept. 18.

The women’s softball alumnae reunion was held Sept. 26.

Athletic teams that hosted reunions during Brick City Homecoming & Family Weekend included wrestling, men’s and women’s hockey, men’s and women’s lacrosse and women’s basketball.

**Sendoffs**

The Office of Alumni, Parent & Annual Giving Programs, in conjunction with the Office of Parent and Family Programs and the Center for Orientation & Transition, organized a series of summer send-off events hosted by current parents and alumni to welcome new families and their students to RIT. Many thanks to hosts Fiona Ma ’88 (San Francisco); Brian, Terri and Nathan ’16 Mayhugh (Los Angeles); Brian ’81, ’84, Kim ’83, ’85 and Emily ’16 O’Shaughnessy (Potomac, Md.); David ’97 and Nancy ’98 Torrente (Shongum Lake, N.J.); Mimi, Scott and Zoe ’15 Warner (Seattle); and Scott Wilson ’91 (Chicago) for opening doors to their homes, clubs and businesses to the newest members of the RIT Tiger family.

**Welcomes**

At the peak of Orientation week, legacy parent Jeff Miller ’85 (pictured with incoming freshman son Matt, wife Linda, and Ritchie) along with Chelsea Petree, director of Parent and Family Programs, and Lisa Cauda, vice president of Development and Alumni Relations, welcomed more than 200 alumni parents and their incoming students and families at the Alumni Legacy Dinner. Legacy students—those with a parent or grandparent who graduated from RIT—comprise about 6 percent of the incoming class this year.
Charitable giving is highly personal; its impact is highly powerful; and its emotional return is immeasurable. When you give, how you give, and what you give to are significant decisions that require careful thought and consideration. Accomplish your philanthropic goals and manage your charitable giving with the RIT Charitable Gift Fund, a Donor Advised Fund.

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To learn more about how you can create a lasting legacy and be a part of a positive future with an RIT Charitable Gift Fund, please download our brochure at rit.edu/CGF.

It is more than a donation. It is your legacy.

For assistance with bequests, beneficiary designations and other legacy planning questions, please contact Robert Constantine at 585.475.4919 or Robert.Constantine@rit.edu.
In MEMORIAM

Alumni

1939
Matthew Baisch ’39 (CCE), Aug. 15, 2015
Mamie J. (Wills) Lehman ’39 (FAA), May 7, 2015

1941
John S. Gillia ’41 (KGCOE), April 22, 2015
Elaine F. Weiner ’41 (FAA), July 13, 2015

1943
Marjorie (Bicksler) Burdick ’43 (SCB), June 2, 2015

1945
Marion B. Westfall ’45 (SCB), May 19, 2015

1948
Irvin H. Crawford ’48 (COS), June 13, 2015
Robert J. McWaters ’48 (CIAS), July 19, 2015
William N. Pearson ’48 (KGCOE), May 17, 2015
John Pizzo ’48 (KGCOE), May 1, 2015
Kathryn (Mabie) Van Hall ’48 (SCB), Aug. 2, 2015

1949
Leon T. Allen ’49 (CCE), May 8, 2015
Bekir E. Arpag ’49 (GAP), May 11, 2015
Fred H. Twietmeyer ’49 (CCE), Aug. 9, 2015
George H. Witze ’49 (KGCOE), June 29, 2015

1950
Walter George Dunn ’50 (COS), July 12, 2015
F. Richard Eichorn ’50 (GAP), Aug. 13, 2015
Frederick Johns ’50 (COS), May 31, 2015
William M. Runyan ’50 (GAP), May 1, 2015
John J. Speranza ’50 (GAP), April 28, 2015
Jack S. Tuttle ’50 (CCE), May 6, 2015
Edward M. Williams ’50 (KGCOE), June 24, 2015

1951
Raymond W. Fullerton ’51 (FAA), May 3, 2015
Robert F. Holmes ’51 (KGCOE), ’83 (CCE), May 30, 2015

1959
Walter Chernewych ’59 (CCE), June 8, 2015
Edward Runge ’59 (FAA), July 12, 2015

1960
Russell Fernsnaas ’60 (CCE), Aug. 2, 2015

1961
Alexander P. Helmel ’60 (CCE), June 26, 2015
Edward J. Nau ’60 (CCE), May 7, 2015

1962
James T. Wright ’62 (CCE), Aug. 7, 2015

1963
Alyce D. Sandifer ’63 (GAP), July 17, 2015

1964
Thomas B. Frahm ’64 (GAP), June 28, 2015
David C. Miles ’64 (GAP), April 25, 2015
Andrew J. Mitrano ’64 (GAP), June 12, 2015
James L. Wood ’64 (FAA), May 16, 2015

1965
Ronald J. Kryk ’65 (CCE), May 11, 2015
Charles H. Thompson ’65 (CCE), April 26, 2015

1966
Peter D. Clark ’66 (GAP), May 5, 2015
Richard F. Curtis ’66 (SCB), June 11, 2015
William F. Frash IV ’66 (KGCOE), July 13, 2015

1967
Gary Deblieck ’67 (KGCOE), July 13, 2015
Fred A. Kakura ’67 (CCE), July 20, 2015
Frederick C. Lipp ’67 (FAA), June 7, 2015
Carol B. Shannon ’67 (CCE), May 3, 2015

1968
Gordon Carl Mann ’68 (SCB), July 5, 2015
John E. Newlander ’68 (SCB), ’72 (CCE), June 24, 2015

1969
Alan Bouley ’69 (CCE), April 25, 2015
Robert N. Remsen ’69 (CCE), July 1, 2015

1970
Leonard J. Macey ’70 (CCE), Aug. 1, 2015
Lawrence McCue ’70 (CCE), Aug. 10, 2015
Russell Eugene Stratton ’70 (GAP), May 7, 2015

1972
Mark L. Luderman ’72 (SCB), June 26, 2015
Paul Tremmel ’72 (CCE), Aug. 14, 2015

1974
Robert T. Brumbaugh ’74 (CCE), Aug. 20, 2015

1975
B. Timothy Browne ’75 (CCE), Aug. 9, 2015
James M. Cirillo ’76 (CLA), May 1, 2015

1976
Susan V. Allen ’76 (CLA), May 17, 2015
John M. Bechtel ’76 (KGCOE), June 7, 2015
James M. Cirillo ’76 (CLA), May 22, 2015

1977
John R. Brennessel ’77 (KGCOE), May 14, 2015
Don A. Atkin ’77 (GAP), May 9, 2015
Joseph P. Cavallieri ’77 (CAST), May 21, 2015
Kenneth A. Gardner ’77 (SCB), June 1, 2015
John T. Kerwin ’77 (SCB), July 15, 2015
Flora-Ann London ’77 (GAP), May 23, 2015
Ronald R. Metras ’77 (SCB), May 4, 2015

1978
William Gilbert Au ’78 (FAA), ’80 (FAA), June 21, 2015

1980
Samuel Romano ’80 (SCB), May 13, 2015
Jayne Blanche Slack ’80 (CCE), July 30, 2015

1981
Pamela J. Lewis-Blouin ’81 (CCE), July 7, 2015
Craig Douglas Smith ’81 (KGCOE), Aug. 4, 2015
Barbara J. Vudelson ’81 (CAST), Aug. 8, 2015

1982
Martha Lynn Hinton ’82 (CCE), July 22, 2015

1984
Karin A. Blood ’84 (CCE), ’86 (SCB), Aug. 7, 2015
Bryan Kent McLaughlin ’84 (KGCOE), April 30, 2015

1986
Carol (Stuckey) Lee ’86 (NTID), June 28, 2015

1988
Jenny V. Lowry ’88 (CAST), July 23, 2015
Amy L. Stock ’88 (CCE), July 19, 2015
David M. Struble ’88 (GAP), Aug. 8, 2015

1989
Thomas James Kraeger ’89 (CAST), July 31, 2015

1990
Kevin C. Austin ’90 (COS), May 16, 2015

1992
Daniel R. Stern ’92 (CCE), April 26, 2015

1995
Rhonda J. Eggert ’95 (CLAS), May 28, 2015
David Edmund Williams ’95 (SCB), May 26, 2015

1996
Ramona A. Rogers ’96 (CAST), April 30, 2015
Jerry Edward Sawyer ’96 (CCE), June 22, 2015

1997
Lawrence H. Pfister ’97 (CAST), July 14, 2015
Peter C. Runke ’97 (KGCOE), May 1, 2015

1999
Robert C. Steele ’99 (CAST), ’00 (CAST), July 8, 2015

2000
Kevin M. Dielh ’00 (CAST), May 29, 2015
C. Lynn Helles ’00 (CAST), June 5, 2015

2002
Gina M. Clement ’02 (CAST), May 5, 2015

2007
Keith C. Russell ’07 (GCCIS), ’07 (CAST), May 12, 2015

2008
Sarah J. Merchant ’08 (CIAS), June 12, 2015

2010
Leah W. Andrews ’10 (COS), May 16, 2015

2012
Torin G. Bond ’12 (GCCIS), May 16, 2015

2015
Juliana Cruz ’15 (CHST), Aug. 16, 2015

Faculty and staff

Greg Barnett, former operations director for the College of Imaging Arts and Sciences, Aug. 19, 2015
William (Bill) Barton Hale II, honorary RIT Trustee, Aug. 20, 2015
Dave Hathaway, operations manager for the Kate Gleason College of Engineering and manager of the machine shop in the college, July 25, 2015
Shirley Morrison Gray, former media librarian, Sept. 25, 2015
RIT’s archives exist to document the history of the university, but what is RIT’s history if not the stories of all the individuals who have worked and studied here?

A recent exhibit tapped into the collections to reveal this human side of RIT’s history by highlighting two fascinating stories.

Walter W. Taylor, a 1908 graduate, took part in a prank to steal the upperclassmen’s flag, and RIT is fortunate to have this 110-year-old flag. Cooperative mechanical graduate Howard C. Riker’s family donated a table saw and a grinding wheel arbor, both cast and assembled by Riker before he graduated in 1928.

In the coming year, more exhibits highlighting personal stories will be on display in The Wallace Center and online at library.rit.edu/depts/archives.

Becky Simmons, RIT Archivist

Documenting history one story at a time

This 110-year-old flag is part of the RIT Archive Collections.

This grinding wheel arbor was assembled in the late 1920s by an RIT graduate.
Brick City 2015

A The men’s hockey game drew a sellout crowd of 10,556 to Blue Cross Arena in downtown Rochester. RIT tied No. 10 Bowling Green State University 2-2.

B The Presidents’ Alumni Ball was a highlight of the weekend. Joshua Hagan ’15 took the opportunity to play video games at the gaming-themed gala.

C RIT Student Government Vice President Andrea Shaver presented Horton speaker Jamie Hyneman, co-host of “Mythbusters,” with an RIT beret.

D Student Cole Johnson, center, took a lap around campus with his parents, Bud and Heather Johnson, as part of the Brick City 5K Fun Run and Walk.

E Alumni enjoyed a tour of campus before the Golden Circle luncheon. The Golden Circle honors alumni who graduated 50 or more years ago.

About 17,000 people participated in Brick City Homecoming & Family Weekend in October.
SAVE BIG WITH YOUR GROUP OF 10 OR MORE!

<table>
<thead>
<tr>
<th>GROUP PRICING</th>
<th>GENERAL ADMISSION &amp; STANDING</th>
<th>RESERVED CHAIRBACK</th>
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<td>RIT Faculty/Staff/Alumni</td>
<td>$8</td>
<td>$10</td>
</tr>
<tr>
<td>RIT Student</td>
<td>$5</td>
<td>$10</td>
</tr>
<tr>
<td>Youth (12 &amp; Under)</td>
<td>$5</td>
<td>$6</td>
</tr>
</tbody>
</table>

Group pricing is subject to availability. Schedule is subject to change.

MEN’S HOCKEY

<table>
<thead>
<tr>
<th>GENERAL ADMISSION</th>
<th>GROUP PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Public</td>
<td>$3</td>
</tr>
<tr>
<td>RIT Faculty/Staff/Alumni</td>
<td>$3</td>
</tr>
<tr>
<td>Youth (12 &amp; Under)</td>
<td>$2</td>
</tr>
</tbody>
</table>

Group pricing is subject to availability. Schedule is subject to change.

HOW TO PURCHASE TICKETS

Individual game tickets- www.rithockey.com
Group tickets- Call (585) 475-3980