A new hand for Lucas

RIT scientist launches global network to put 3D-printed prostheses into the hands of those without
Editor’s Note: The editors of The University Magazine recently interviewed President Bill Destler about RIT’s new strategic plan, “Greatness Through Difference.” The plan, which was scheduled for approval by the Board of Trustees in November, will guide the university through 2025. The full plan can be viewed at rit.edu/president.

Coming this spring: We will publish a comprehensive report on the strategic plan, illustrating examples of the RIT advantage into the next decade.

Where is RIT today in the spectrum of great global universities?

RIT is a unique, very good, comprehensive university with a growing national and international reputation. We have several distinctive programs: our co-op program, the National Technical Institute for the Deaf, imaging science, the School for American Crafts, industrial design, photography, film and animation, sustainable manufacturing and computational astrophysics, to name a few. It should be noted that none of these is in a traditional academic discipline. This year, we also produced 29 Ph.D. degree recipients—a record high—and thus eventually we will be moving into the prestigious “national research university” category.

Describe RIT’s new vision to our stakeholders.

RIT will become an internationally distinguished university by exploiting its differences and better meeting the needs of a rapidly shrinking world. Or, more succinctly: RIT will achieve greatness through difference.

Explain what you mean by “greatness through difference.”

RIT is an internationally significant career-focused university with unique character and programs. We belong in the category of the world’s great universities, not because we seek to replicate the great universities of the 20th century, but because we are already practicing what the future universities must provide.

What defines an internationally significant university? What do you think the public is looking for?

The public is looking for institutions that are responding to their concerns about traditional higher education. These concerns include:
• Affordability and the return on investment of an RIT degree. The RIT advantage: 96 percent of our students are...
employed or accepted into graduate school within six months after graduation.

- Career-focused curriculum. RIT advantage: We offer education in fields with high employer demand and integrate design, management, and critical and innovative thinking into them. An RIT education includes considerable time learning outside the classroom ranging from a paid co-op position to designing new products and businesses in the Simone Center for Student Innovation and Entrepreneurship to participating on interdisciplinary research teams.

- Accessibility and diversity. RIT advantage: We have a history of serving low-income students. We also serve 1,200 deaf and hard-of-hearing students.

- A focus on STEM (science, technology, engineering, math) that is integrated with design, business, social sciences and humanities. RIT advantage: Among private universities, RIT graduates the second highest number of STEM undergraduate students in the U.S.

- Robust, well-funded and interdisciplinary research that contributes to the advancement of human knowledge. RIT advantage: We have seven interdisciplinary Ph.D. programs: engineering, imaging science, microsystems engineering, sustainability computing, astrophysics and color science.

- Global reach. RIT advantage: We have four international campuses, nearly 2,000 international students from 100 nations in Rochester, and multiple opportunities for student and faculty exchanges.

What are the key themes and tangible goals you want to see accomplished in the plan? During the strategic conversations of the past year involving all stakeholders, five intersecting spheres of effort have surfaced.

   - One hundred percent of RIT undergraduate students will have experiential learning relevant to their degree program and designed to provide skills and competencies of growing importance to employers.
   - Students and their advisers will develop multi-dimensional plans to ensure on-time graduation.

2. The student-centered research university:
   - RIT’s research enterprise will be a national model of inter- and trans-disciplinary and inter-generational collaboration based upon the principle that diverse teams formed from members of diverse experience levels and diverse disciplines drive good questions, good processes and good solutions.
   - RIT will enhance its graduate portfolio through adding professional and research-focused programs in STEM fields, the humanities, social sciences and arts.

3. The power of difference and inclusion:
   - RIT will be the largest producer of female and minority STEM graduates among all private universities in the nation.
   - RIT will eliminate the achievement gap between minority and majority students.

4. Affordability, value and return on investment:
   - RIT will be the university with the best placement rate and return on investment of all private universities in the nation.
   - RIT will become the university that best utilizes educational technology to reduce costs, improve access and achieve learning outcomes.

5. Organizational agility:
   - RIT will develop a university culture that is less risk-averse and less bureaucratic. It will streamline compliance measures and empower local decision-making.
   - RIT will diminish the negative effects of academic and administrative silos.
   - RIT’s curricular, administrative and organizational structures will serve, not impede, discovery and collaboration among students, faculty and staff.

How do we turn all this into reality? RIT has all the ingredients to realize the goals we have set. While the future holds surprises for us, we are confident that the route mapped within this strategic plan will allow us to emerge as a world-class university.
Departments
4 On Campus
6 About Students
30 Tiger Talk
32 Alumni Updates
36 Alumni Activities
38 Class Notes

Other Features
8 Physician assistant
Medical program matures to fill national need.

16 Engineering a new Ph.D.
The first class of RIT’s seventh doctoral program begins.

20 License to boast
Alumni have found a creative way to show their Tiger pride.

44 Brick City Homecoming & Family Weekend
See photos from the event.

Cover
Lucas LeMay, 10, was born without fingers on his right hand. RIT students made him a 3D-printed mechanical hand that helps him ride his bike. (Photo by A. Sue Weisler)
Some tips on tipping

Having recently done research regarding “tip jars” (jars typically posted in the area of cash registers in fast-casual restaurants) with my students in marketing research classes, I have become acutely aware of some of the pervasive attitudes and cultural norms as applied to tipping in the general sense, as well as the special application of tip jars. Because of my work in that arena, I would like to give six tips on the nature of tipping—five geared toward the tipped (the service workers), and one big one toward the tipped (the service workers).

Customers

1. Recall the ideal, recognize the reality—Ask people what their general philosophy is on tipping and the vast majority of responses will reflect that people believe that tipping is done in response to appreciating the server’s efforts or for excellent service quality. To a lesser degree, however, fewer people will recognize that tipping is something that is done because it is part of our cultural norms—and those people would be correct.

Tipping is an act that is deeply embedded in the American service industry. Be aware that many in the service industry rely on tips as part of their income. Recent research indicates that up to 40 percent of coffee barista salaries are generated from tips, hotel bellmen and valets up to 75 percent, and for restaurant wait staff and bartenders, money from tips represents 85 to 100 percent of their income.

2. Not a global phenomenon—Anyone who has ever read or heard insights from foreign travelers to the U.S. knows that our standard of tipping is confounding to many outside observers. Be sure to research local customs when traveling abroad. Instead of our norm of tipping, restaurants in South America and some European nations often tack on service charges to customer tabs. In other European nations, the norm is a 10 percent tip. China typically has no cultural norm of tipping at all, and in most restaurants in Japan, tipping is often seen as insulting to the server—a message indicating that the server needs money because they are so bad at their job they will soon be terminated. And virtually no nation save the U.S. extends the tipping norm to taxicab drivers, hairstylists or delivery workers.

3. Reward specialization—Typically, you will want to tip people particularly well (perhaps even above and beyond the accepted cultural norm of 20 percent for good service) when they take time out of their normal work operations in order to make something special for you, such as the bartender who arranges a fancy mixed drink, or a waitress who serves you a deli-sandwich, or the taxicab driver who sacrifices other fares while helping you with your bags. The delivery guy giving you that toner cartridge from Amazon could probably do without a $5 tip, but the deliverywoman who sets up your new armoire in your boudoir needs to be recognized well.

4. Factors other than quality—Some of the previous research by tipping expert Michael Lynn seems to support the notion that how good a service customers think they were provided in a transaction is a poor predictor of how much money they leave for a tip. That’s an important takeaway for consumers, because they have to realize that their propensity to tip is predicated often not on the service received, but how connected they might feel to the person performing the service. Research reveals that servers who are the opposite gender of the customer and those wholightly touch the customer tend to receive greater tips, for instance. It’s important for customers to be aware of their propensity to ascribe a bias to their tipping behavior.

5. Restaurant tips affect workers you don’t see—One thing restaurant patrons often don’t realize is that when they leave a tip for restaurant wait staff, that server must then “tip out” other staff like bartenders, busing staff, hosts and others. So if you find yourself dissatisfied with a service, it’s probably the best policy (unless your bad service was personal) to tip the standard amount and then speak to the manager. Also, if you leave no tip, or a very sparse tip, please do the courtesy of explaining to the server why. Communication with the people who serve you is a part of the new social bargain.

Service workers

Provide memorable experiences—Having said that, when you ask people to recall a time in which they have donated to a tip jar (an act that is not as ingrained in the social rubric as traditional tipping), they will not hesitate to describe a time in which they were treated to a special kind of service experience. Making each customer feel as if they are individuals instead of monolithic buyers will go a long way toward boosting the experience component of the transaction. Reports from wait staff indicate that some rock-solid means of increasing tips are to: Introduce yourself by name; sit or squat to get at eye-level with customers when they place their order, and bring candy when you present them with the bill. Oh and by the way, thinking about the customer experience isn’t just for wait staff and bartenders. We can all get better results in all of our relationships, be they firm-client, buyer-seller, or spouse-to-spouse, when we take into account the perceptions of the other. Invoking a little emotional intelligence into our relationships will provide us with “tips” in perpetuity.
NOTEBOOK
National recognition
RIT’s Division for Diversity and Inclusion received the 2014 Higher Education Excellence in Diversity award from INSIGHT Into Diversity magazine.
RIT was selected based on its diversity and inclusion initiatives and ability to embrace a broad definition of diversity on the campus. This is the first time RIT has been named as a HEED Award recipient.
The magazine is the oldest and largest diversity-focused publication in higher education.

Tops online in N.Y.
A report from TheBestSchools.org has named RIT the top online college in New York. According to the article “The Best Online College in Each of America’s Fifty States,” rankings were based on academic excellence, faculty strength, online teaching methods, reputation, awards and the number of online degree programs offered.
Cited in the report was RIT’s modular approach to curriculum, which allows students to choose building blocks from several disciplines to create a program suited to their personal or professional goals.

Destler, Johnson pledge $1 million endowment
A $1 million endowment gift to the Rochester City Scholars program means RIT will be able to help fund the education of deserving city public school students for years to come.
The gift was made by the program’s founders—RIT President Bill Destler and his spouse, Rebecca Johnson. Rochester City Scholars, launched in 2010, provides free tuition to the university for Rochester public school graduates who are admitted as freshmen to full-time study in baccalaureate programs at RIT, and meet income eligibility requirements.
“Lack of finances should not prevent a talented student from getting a college education,” Destler said. “We have been so impressed with the students who have come through the program so far that we wanted to ensure that future students had the same opportunities.”
Added Johnson, “Our City Scholars are a source of pride to RIT and to the entire community. The world needs the kind of talent and leadership that these students offer.”
Kevin McDonald, vice president and associate provost for diversity and inclusion, said the City Scholars program has enriched the campus community through the addition of some of the city’s best and brightest students. The diversity that each student brings to campus enhances RIT’s living and learning environments, he said.
“The Rochester City Scholars program helps to create additional avenues of access for city public school students who wish to attend RIT,” McDonald said. “More importantly, RIT has established support mechanisms to help ensure that each City Scholar is provided with the academic and social connections necessary for academic achievement, persistence and graduation.”
Since 2010, almost 100 students have participated in the program. In May, the program’s first cohort of students graduated from RIT, and 15 students entered in August. The program is funded through private donations and institutional support.

On Campus
RIT’s Golisano Institute for Sustainability, Louise M. Slaughter Hall and surrounding quad basked in a sea of light in early September, helping make RIT’s 30th Big Shot photograph a success. More than 2,700 volunteers, including nearly 1,500 students and 110 alumni, provided the primary light source for the Big Shot image while RIT photographers shot an extended exposure of RIT’s “living lab” dedicated to sustainability, Center for Integrated Manufacturing Studies and quad. This year’s final image was a 30-second exposure at f11.
NOTEBOOK

Classroom of future

Moveable furniture that allows for quick reconfiguration and group work. High-tech interactive white boards on the walls that when connected to the professor’s laptop create easy sharing of information. Large monitors around the room that present clear sightlines, making every seat the best seat in the classroom.

Those are just some of the features in a re-modeled classroom in George Eastman Hall that was made possible through a partnership between the university and Steelcase Education, a company focused on creating effective, inspiring learning spaces that encourage active learning.

Product lab opens

RIT opened a $3 million high-tech lab designed to help companies and independent innovators convert their ideas into prototypes and ultimately new products.

The Digital Manufacturing and Product Realization Lab on the fourth floor of the Golisano Institute for Sustainability features state-of-the-art equipment and leverages the extensive resources and experience of research scientists and sustainability experts.
About Students

Members of the co-ed a cappella group Proof of Purchase performed during the 2014 First Niagara Rochester Fringe Festival in September. RIT students, faculty and staff participated in more than 20 performances, including poetry readings, dance, film, theater, music, gaming and visual arts.

Hundreds of students in September competed in Mud Tug, an annual tug-of-war fundraiser and one of the most popular events held on campus each year. While the tournament may be dirty, it’s for a good cause, with $11,500 going to Hillside Family of Agencies, an organization that provides support, counseling, education and housing services for children and families. RIT’s Phi Kappa Psi and Zeta Tau Alpha Greek organizations host the event.

BY THE NUMBERS

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<th>ABOUT CAMPUS RECREATION</th>
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<td><strong>504,311</strong> Visitors to the Hale Andrews Student Life Center last academic year.</td>
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<td><strong>1,200</strong> Approximate number of towels used daily at the Student Life Center.</td>
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Global festival unites students

RIT’s inaugural OneSpiRIT: Global Hockey Festival attracted more than 1,600 Tiger fans outside of the Gene Polisseni Center.

The event on Oct. 11 linked RIT’s main campus with its international campuses in Croatia, Dubai and Kosovo via Cisco Telepresence videoconferencing technology.

Additionally, festival-goers were treated to an assortment of carnival games, live music, food, T-shirts and more prior to the women’s hockey game.

“We wanted to make the world smaller and make RIT bigger,” said John Moore, assistant vice president for Facilities Management Services.

More than 700 international RIT students celebrated at pubs, clubs and their own campuses.

| 20 | Loads of laundry done daily at the Student Life Center. |
| 2,416 | Intramural games played by more than 24,000 participants last academic year. |
| 24,263 | Participants at the Red Barn rock climbing facility last academic year. |
Fourth-year physician assistant students spend countless hours practicing their interview and examination skills before seeing their first patients. Here, Stephanie Ellis, right, checks Jean Kelly’s carotid arteries.
Rachel Triassi ‘16 and Professor John Oliphant discuss ongoing clinical research from a recent trip to Haiti.

Rachel Triassi thought she would go to medical school until a chance meeting with a physician assistant unexpectedly broadened her career options. “I had never heard of PAs before,” said Triassi, now a fourth-year student in the BS/MS physician assistant program at RIT. “That sparked my interest.”

Triassi and her cohort in the physician assistant class of 2016 are training to be nationally certified, state-licensed medical professionals who practice medicine on health-care teams with physicians and other providers. The U.S. Bureau of Labor Statistics ranks physician assistants as the 13th fastest-growing occupation in the country, with faster-than-average increases expected to reach 38 percent by 2022. The median annual wage as of 2012 was $90,930. The numbers reflect a critical time in health care. The demand for medical professionals is increasing as baby boomers age, medical doctors retire and people gain coverage through the Affordable Care Act.

“I don’t think there’s any question that PAs are definitely part of the solution to the current health-care problems,” said Heidi Miller, director of the physician assistant program since its inception at RIT in 1993. “The tremendous employability of our graduates has been just phenomenal. There are close to 500 alumni, and I’m not aware of anyone not working as a PA who wants to be.”

The class of 2016 is the first to go through the five-year BS/MS degree and represents a new phase of the physician assistant program at RIT.

Triassi and her peers are also the first PA students to remain on campus for a fourth year. Students in the former BS program spent their senior year gaining clinical experience in five-week blocks in 10 different practice areas and health-care settings. The graduate students will begin their clinical internships in June 2015, after an additional year of classroom education.

“We graduated the last group of BS students this past May,” Miller said. “As a result of this transition, we don’t have students on clinical rotations this year for the first time ever in the 20-year history of the program. This is a planned and predicted transition and one-year only.”

The PA degree, formerly housed in the College of Science, is one of the foundational programs of RIT’s College of Health Sciences and Technology. RIT’s ninth college opened in 2011 as the academic prong of the Institute of Health Sciences and Technology, part of the alliance and collaborative partnership between RIT and Rochester General Health System, now known as the Rochester Regional Health System.

The class of 2016 arrived at a pivotal time in the PA program’s history, starting as first-year students in the new college and entering the third year—the professional phase and medical education—during the first fall semester at RIT. Miller had timed the third year of the BS/MS curriculum to coincide with the university’s switch to the semester system during the 2013–2014 academic year.

The BS/MS degree gives fourth-year students more time to delve deeper into their medical education through new classes like hospital practice, clinical integration and clinical epidemiology. Courses on research methods will prepare students to complete a graduate project on topics pertaining to patient education, best practices or community resourcing, for instance, during their year of clinical experience.

Evolution of PAs

Heidi Miller and Nancy Valentage, associate director, have a long history with the physician assistant program. Miller was a practicing PA at Rochester General Hospital in the late 1980s when RIT’s then-Department of Allied Health Sciences approached the hospital about starting a physician assistant program. She joined RIT to run the program and was soon followed by Valentage, a practicing PA at the former Genesee Hospital. The PA educators have watched their program and their profession mature in the last two decades.

“The terminal degree for physician assistants used to be a certificate, then it moved to a bachelor’s degree, now by 2020, all physician assistant programs must be at the master’s level,” Valentage said.

The PA profession has a reputation for...
flexibility. After passing their national boards, practitioners can diagnose and treat patients as part of a medical team in any state in the country. The profession demands a commitment to lifelong learning and offers variety—PAs can move between practice areas throughout their career.

Alumna Erin Stafford ‘08 has worked as a hospital internal medicine physician assistant at the Mayo Clinic Hospital in Phoenix for the past six years and enjoys a variety of responsibilities. “I have the opportunity to sit down and have meaningful conversations with patients and their families about serious medical conditions,” Stafford said. “I am also able to treat acute cases that require emergent intervention. You get to see it all in hospital medicine—you see patients in the ER, ICU, post-anesthesia care unit and on the medical/surgical floors.”

Highly competitive

RIT’s PA program launched in 1993 with the professional phase. Students who met the prerequisites began as juniors. Seventeen students earned their BS degrees in 1995. RIT’s young program gained accreditation and grew at a controlled pace. Twenty-seven PA students in the class of 2014 graduated this past May with the program’s final BS degrees. This year’s incoming class of 2019 began with a record 36 students. The program’s emphasis on academics and leadership yields top-notch candidates from the several hundred applications received every year.

Winning a seat in the program is highly competitive. The program depends upon available training sites in the region for students to fulfill their required clinical experience. Increased competition for clinical sites between other PA and medical programs in the region limits RIT’s program size, Valentage said.

Miller and Valentage take pride in pairing their students with clinical sites that will enhance their training. They conduct quality assurance to verify the level of acuity, caseload and supervision, and run criminal background checks on potential preceptors.

“We are asking people in the medical community to take our students and train them, spending time with them for five weeks,” Miller said. “That challenge has increased in the last 21 years. It’s become more competitive. Those are things that keep us up at night.”

Many alumni also serve as preceptors. Stafford is a physician assistant educator at the Mayo Clinic who works with students from a variety of programs. Stafford shares with them wisdom she learned from Valentage before beginning her own clinical experience.

Valentage’s advice is a mantra for student and professor. “I say the exact same thing to every class, year after year when preparing them for the start of clinical rotations,” Valentage said. “Be the first on your team to arrive in the morning, the last person on your team to leave at night, read constantly, and embrace all rotations even if it may not be your favorite. You never know when a caveat of clinical knowledge you learned on a rotation you thought you wouldn’t like will pertain to a future patient of yours.”
Years later, Valentage's words still resonate with Stafford. "That always stuck with me," she said. "Even when I was on a rotation that wasn't my favorite, I gave it my all. I think that attitude prepared me well for clinical practice."

Working together
A focus on team unifies physician assistant students and practitioners.

"The core philosophy of this whole program has always been about team because you don't practice medicine in a vacuum," Miller said. "PAs are known to be exceptionally good at the concept of team medicine, keeping the patient at the center of care."

RIT's program has a reputation for rigor and intensity of course material. "The pressure is high. PA students on rotation are expected to have the same foundation of clinical knowledge as first-year residents," Triassi noted.

"They teach that we are a team," Triassi said. "We work together. We're not competing against each other for grades or to be the best. We're helping each other get through."

The person who is struggling the most—that's where the whole class is going to be because the whole class helps push them along. They may be struggling now, but you may be struggling next week."

Triassi and the class of 2016 will begin their clinical rotations in summer 2015. They will not be present when the physician assistant program moves, in the fall, into its new quarters in the Clinical Health Sciences Center. Its former home, the Center for Bioscience Education and Technology, will remain headquarters for the dean's office and the non-clinical programs in the College of Health Sciences and Technology.

RIT broke ground this past spring on the new home for the college's clinical programs and a primary care clinic that Rochester General Hospital will operate. The PA suite in the 45,000-square-foot facility expansion at the north end of Louise M. Slaughter Hall will nearly double the program's current space and provide simulation rooms and storage for its growing collection of patient-care models.

Medical programs across the country are turning to simulation manikins to prepare students to work with real patients in a safe environment.

"Medical simulation is part of the future of the program," Valentage said. "Our students can train on the static models and learn the basic skill sets of suturing, IVs, medication administration. We can program a heart arrhythmia in a computerized manikin. This is great for team training before they see patients during their clinical year of training."

Attention PA alumni
No plans are in the works at the moment for a stand-alone master's degree in physician assistant studies at RIT, according to Heidi Miller, director of the physician assistant program. Alumni seeking graduate education are encouraged to consider the online master's degree in health systems administration offered by the College of Health Sciences and Technology, Miller said.
Wanda Polisseni didn’t want to see RIT’s new state-of-the-art arena until it was complete so she could get the full experience. “I am blown away,” said Polisseni, the widow of Gene Polisseni, the arena’s namesake. “This is a dream come true for my husband because of his love of hockey and RIT.” Polisseni and the RIT community got their first look at the Tigers’ new $38 million den on Sept. 18 during a dedication ceremony. The first games were played in late September and early October.

The reviews of both the facility and the teams who now call the arena home have been gushing. “I could talk today about RIT’s march to national hockey prominence and decades of great competition,” said RIT President Bill Destler before the first puck was dropped. “But there’s a different story I want you to hear about how these teams have built RIT pride and spirit around the world.”

Popularity of both the men’s and women’s hockey teams has skyrocketed in recent years, resulting from the men’s team’s historic run to the 2010 NCAA Frozen
Four and the women’s team winning the 2012 NCAA Division III Championship. As interest rose, RIT quickly outgrew Frank Ritter Memorial Ice Arena, the Tigers’ home for the last 46 years. A lack of amenities at Ritter Arena and limited seating made hockey night a test of patience and endurance. Spectators would cram into the building sometimes standing three-deep behind the railing. Those with seats often had to arrive two hours before game time to claim them.

The Polisseni Center, which sits on the south side of the Student Alumni Union, boasts 4,000 seats, and with standing room, has a total capacity of 4,300 complete with a student/Pep Band/Corner Crew section. Other seating options include reserved chair-back seating and a special club section with buffet meals and cash bar. Six corporate suites are available—four on the club level, one on the media level and a unique bunker suite at ice level.

The naming of the facility resulted from a $4.5 million partnership between the Polisseni Foundation and RIT Trustee B. Thomas Golisano, founder and chairman of Paychex Inc. and lifelong Polisseni friend. Gene Polisseni served as vice president of marketing at Paychex until he died in 2001. Most of his professional life was devoted to helping build the payroll services company, but hockey always remained his personal outlet. He organized youth and adult amateur leagues throughout the area and he regularly attended professional hockey games.

At the dedication ceremony, Golisano
The women’s hockey team helped open the Gene Polisseni Center by throwing T-shirts to fans during the dedication ceremony. The team won its regular-season opener against Union College 2-1 on Oct. 3.

Amenities
- 4,000 seats and additional standing room for a total capacity of 4,300 fans. The majority of the seating is reserved and there is an expanded student section that is general admission seating.
- Exclusive seating, which includes club seating behind RIT’s bench, six luxury suites—four are attached to the club lounge, an upscale full-service hospitality area—and a VIP “player experience” box located next to the RIT bench where nine fans can feel like they are sitting on the bench.
- Two full-service concession stands and multiple mobile kiosks throughout the venue with additional food options.
- A new RIT Athletics Hall of Fame highlighting the hall’s inductees and RIT’s athletic history.
- A Barnes and Noble store where fans can purchase Tiger gear.
- Trans-Lux Video Boards—a gift from Lux Corp., a leading supplier of programmable electronic information displays.
- Two high-definition video boards.
- A new RIT Athletics Hall of Fame highlighting the hall’s inductees and RIT’s athletic history.
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Parking
For after-hours events, visitors are encouraged to park in D, S and R lots, which can accommodate roughly 1,300 vehicles. A campus map is available online at http://maps.rit.edu.

Tickets
Season and single-game tickets can be purchased at www.rithockey.com or by calling the Box Office at 585-475-4121.

Gene Polisseni Center donors
The Gene Polisseni Center wouldn’t be possible without the generous support of the RIT and local communities. Here are the donors whose gifts made it possible to name several rooms, areas and items in the arena:
- Gene Polisseni Center
- Marty and Dolly Schultz Memorial RIT Sports Hall of Fame
- Trans-Lux Video Boards
- Wilmut Family Atrium—First level concourse on the east and north ends
- Davenport-Hatch Mezzanine—Third level
- Zike ’73 R Jane ’83 Duda Family Plaza
- Bruce Bates Men’s Team Suite
- Hall-Thompson Alumni Terrace
- Louis W. Spisetti, Jr. Hockey Fitness Center
- J. Roger Dykes Media Suite—Third level
- Tom ’74 and Nan Hildebrandt Training Room
- Green B. Williams Seat—Lone orange seat
- Paychex, Inc. Home Team Bench
- Rochester Regional Health System Visiting Team Bench
- Corner Crew Bell
- Michael and Victoria ’93 Griffith Home Penalty Box
- Phi Kappa Psi Fraternity Visiting Team Penalty Box

Donations are still being accepted. To pledge a gift to Tiger Power Play—The Campaign for RIT Hockey, go to rit.edu/powerplay.

Mindy Mozer and Joe Venniro
Orange seat reminder of former goaltender

When fans walk into the Gene Polisseni Center, they will notice one orange seat among the 3,999 black and gray seats. That seat is in honor of Green B. Williams ’78, a former RIT goaltender.

Williams was as committed to his country as he was to RIT. A native of Amherst, Mass., Williams played 50 games in goal for RIT from 1973 to 1977. While at RIT, Williams received the RIT Coaches Award for Outstanding Contributions to the program in 1976 and the RIT Hockey Outstanding Senior Award in 1977.

After graduating, Williams enlisted in the U.S. Air Force, where he served with distinction. Tragically, he was killed in a pilot-training accident on March 21, 1984, just six days shy of his 28th birthday. Tom Keene ’75 (biology) and Jeff Begoon ’78 (business administration) began a movement to honor Green B. Williams’ memory.

With support from Williams’ family, an effort to raise money for the Polisseni Center was started with a specific goal to make the one seat, located in Section 107, Row K, Seat 8, orange. The seat is directly behind the net that RIT will defend twice every game. The single orange seat is a reminder of Williams’ commitment to excellence and his Tiger Pride. The seat will be available for purchase on a game-by-game basis for both men’s and women’s games.

Joe Vennitti
Engineering doctoral student Mariela Rodriguez Adames, who is from the Dominican Republic, works on improving the processing capabilities in print technologies, specifically for 3D printing applications. She is part of the first class of students enrolled in the new Ph.D. in engineering program.
Mariela Rodriguez Adames is improving electrophotography, a core technology for 3D printing, paving the way for better systems to produce wearable sensors or even human tissue engineering.

Bret Minnehan is trying to get computers to “see” the world through object tracking, and his work could give rescue workers an advantage as they search through debris in disaster areas.

Pruthvik Raghupathi is studying bubbles—the serious work behind fluid dynamics associated with fuel cells. Managing this means higher performance in electronic devices well beyond the automotive industry.

All three are in the first class of RIT’s seventh and newest doctoral program, a Ph.D. in engineering. Approved by the New York State Department of Education last spring, the Ph.D. was one of the first new degree programs green-lighted after the university completed its semester conversion process.

The Kate Gleason College of Engineering launched its newest doctoral program this fall with three women and seven men, a group of researcher-entrepreneurs who will focus on solving problems of national and global significance, specifically in the crucial areas of health care, communications, energy and transportation.

“What else can you think of that is a big picture, societal problem that doesn’t fall into one of those areas?” said Harvey Palmer, dean of the Kate Gleason College of Engineering.

“More and more often now the areas of greatest significance are crossing boundaries of the traditional disciplines.”

“When it comes to research, you are looking at areas that are the greatest interest, that require perspectives coming from a variety of disciplines. We want our students to recognize that whatever they are choosing to do, it cannot be thought of in a narrowly-defined way,” he said.

The global problems the doctoral students will tackle are as varied and multidimensional as developing alternative energy resources, improving transportation and communications infrastructure and advancing medicine. The latter includes advances from an equipment or systems perspective to biomedical breakthroughs like tissue for replacement organs “engineered” with an individual’s own cells, cultured in a lab, then “built” using a 3D printer—breakthroughs that could be seen in this lifetime.

“We have a unique opportunity to redefine doctoral education in engineering in the U.S. and globally,” said Edward Hensel, the college’s associate dean of research and graduate studies and program director for the Ph.D.

“As a graduate student in RIT’s computer engineering program, Bret Minnehan began developing an autonomous system for unmanned aircraft. In the Ph.D. program, he’ll continue this work to provide high-resolution imagery in areas where there is limited mapping information, such as in disaster zones.

“Big picture One of the things Hensel and the degree development team learned from industrial partners is even though companies are hiring promising Ph.D. graduates with a remarkable depth of knowledge, these experts in their narrow field of research often fail to effectively communicate what they are doing with either other members of their research group or corporate management. They also can’t adequately explain the importance of their work to other people, such as policymakers.

“Core courses in the program will start to address those needs. Initial course work in interdisciplinary research methods will guide students in managing their research scope and provide this new breed of doctoral student with insights into some of the big-picture questions they will encounter as they begin their research.

This is the foundation of what the American Academy of Arts and Sciences calls “transdisciplinary” work: The intersection of engineering disciplines—electrical, mechanical or industrial engineering, for example—with comprehensive subject matter such as business and public policy.

“We’ll be partnering with the College of Liberal Arts and the public policy program to explore how public policy impacts what engineers do, and how do engineers influence public policy,” Hensel said.
Students in the application domains will be translating discovery into practice in energy, transportation, communications and health care and looking at these practices through the lens of national and global perspectives of what’s important to that domain.

Part of the coursework includes reviews of the strategic plans for the U. S. departments of transportation, energy and health and human services.

"These are the greatest minds at the top of our nation’s government that are saying, this is the future of where the nation needs to go," Hensel explained. "Our students are going to understand those documents are what set the agenda in the future for the National Science Foundation and the National Institutes of Health. Our students are going to understand, as government evolves, that's where policy comes from.

Throughout their studies, the students also will consider how their solutions and information could be turned into products or services.

They'll have access to the National Science Foundation’s I-Corp program, an entrepreneurial initiative to support faculty in bridging research to product development.

RIT’s program, led by Richard DiMartino, director of the Simone Center for Student Innovation and Entrepreneurship, will be just one of the many ways the students will wrap traditional research around innovation.

In a world where daunting problems will not be solved in one-dimensional silos or departments, unparalleled technical strength in one’s discipline will be enhanced by being familiar with the contributing roles of other disciplines, understanding how to solve those problems in the context of public policy and having a clear commitment to professional ethics.

"Policy is what informs research, so if as engineers we want to influence what’s happening in 2040, we better make sure our voices are heard by those policymakers today," said Hensel. "Engineers influence policy in the very long term, and in the short term, policy influences engineers and what we do today.”

Solving problems

Rodriguez Adames ’08, ’10, who is from the Dominican Republic, has master’s degrees from RIT in industrial engineering and print media.

When she is not juggling family responsibilities, including raising a 4-year-old and 2-year-old twins, Rodriguez Adames is in the Printing Research and Imaging Systems Modeling Laboratory in the College of Imaging Arts and Sciences, working on the intricacies of electrophotography.

She sees the degree program as a way to expand her knowledge of this evolving industry and her opportunities for a career in it after graduation.

"This degree has a broader scope. It also means I can be interdisciplinary, more creative and more me in terms of what I am interested in," said Rodriguez Adames. "This will get me more into the R&D area that I like.”

Her current work is in 3D printing by

Becoming a research university

The creation of the doctoral program in engineering marks the seventh Ph.D. program at RIT. This past spring, 29 graduates earned their doctorates—the most in RIT’s history. This increase will soon elevate RIT from a “master’s university” to a “national research university” by the Carnegie Foundation.

The other Ph.D. programs are:

- Imaging science (1990). Imaging science uses fundamental physics and mathematics to address questions about every aspect of systems and techniques that are used to create, perceive, analyze, optimize and learn from images.

- Microsystems engineering (2002). The program provides a foundation to explore future technology through research in nanoengineering, design methods and technologies and their integration into micro- and nano-sized systems.

- Computing and information sciences (2006). The program is designed to produce independent scholars, educators and researchers in computing and interdisciplinary academic, industrial or government environments.

- Color science (2007). Color science research at RIT encompasses fields such as medical data visualization, computer graphics and animation, art conservation, spectral and spatial measurements of materials and color printing.

- Astrophysical sciences and technology (2008). The program focuses on the underlying physics of phenomena beyond the Earth and in the development of the technologies, instruments and data analysis that will enable the next strides in the field.

- Sustainability (2008). The program focuses on sustainable production systems—systems that create goods and services using processes that are non-polluting, conserving of energy and natural resources.

The first class of students in the new Ph.D. program came to RIT from all over the world. Pictured above seated left to right are: Shitij Kumar, India; Chaitanya Mahajan, India; Pruthvir Raghupathi, India; and Bret Minnehan, New Hampshire. Standing left to right are: Mariela Rodriguez Adames, Dominican Republic; Behzad Bahrami, Iran; and Fatemeh Shah Mohammadi, Iran.
Meet the faculty
Several engineering faculty will coordinate the student work being done and act as advisers in the four application domains:

Andres Kwaśnioki will lead the communications domain. The associate professor of computer engineering is an expert in the area of electrical power generation, distribution systems, wireless networks and signal processing. His current research project is in alternative energy resources for wireless base stations, primarily on how to adapt the cellular traffic going through a base station and increase the use of renewable energy to power the base station. Students in the communications (telecommunications) track will leverage and expand ongoing research in wireless communications, signal processing and control, high performance and reliable architecture, resilient and secure systems and global networks, and emerging multi-media systems.

Brian Lundi ’02, ’06 (chemistry, microsystems), associate professor of chemical engineering, will lead the energy domain. He also is group leader in the Nano Power Research Lab, and his work focuses on lithium ion batteries, particularly energy conversion, transmission and storage capacity for this next-generation technology. Students in the energy track will be engaged in both basic and applied research to realize sustainable solutions to society’s energy needs, including technology challenges in the area of energy collection, conversion, storage, distribution, control and consumption.

Iris Aisiani, assistant professor of biomedical engineering, leads the Integrated Neuro-Imaging Lab and focuses on the development of multi-modal DMTI methods for applications in neuroscience and clinical research. She also has a focus on incorporating biomedical engineering applications to improve health-care delivery in the developing world. Students in the health-care track will apply fundamental knowledge of their respective engineering disciplines to advance technological boundaries essential to improve care for the aging, develop enhanced imaging systems and create assistive technologies and new methodologies to diagnose and treat diseases and to optimize the delivery and quality of health-care processes and services.

The engine of new ideas

Businesses need new ideas for products or services to remain competitive. Universities and their research facilities, faculty and students remain businesses’ chief resources for new ideas. Obtaining funding for these new products often comes from a variety of sources, including research grants and corporate research and development support. Prior to the launch of its Ph.D. in microsystems in 2002, the engineering college had less than $500,000 per year in external grant support. Today, the Kate Gleason College of Engineering is responsible for more than 15 percent of RIT’s total external funding, compared to only 4 percent in 2001. The Ph.D. program in microsystems marked a shift in the mission of the engineering college to better integrate research and knowledge creation as a key component of its academic portfolio. A similar shift is expected with this newest Ph. D. program.

electrophotography, the underlying technology used in laser printers and copiers. Her work on improving the processing capabilities and system configurations in print technologies could impact and further the growth of these systems in the field of 3D printing, also referred to as additive manufacturing.

In traditional printing, ink particles are fused onto paper. But with 3D printing, new materials are being sought to print wearable sensors, consumer products, medical devices and in tissue engineering, for example.

“It’s interesting how your skills, your knowledge and your research and interests can be applied to different industries,” said Rodriguez Adames. “Trying to explain research to people about 3D printing is hard. What I explain to people is, I want to make a difference, and right now this is the place that is offering me that opportunity. My research could be the basis for tissue engineering, things like that. And those are things that can make a difference.”

Minnehan also wants to make a difference, but with unmanned aircraft, or drones. His work, which he started as an undergraduate, involves using unmanned aircraft to build a map in disaster areas to enable turn-by-turn directions for people on the ground trying to get through debris.

Eventually, Minnehan would like to teach at a university, but he expects to go into industry for several years and participate in a company’s research and development department.

“One of the exciting things about this degree program is that there are all sorts of different engineering majors in the program that we can work with,” he said. “It’s not a competitive atmosphere.”

All of the doctoral students are working with the engineering college’s most prominent faculty. Raghupathi’s work with Satish Kandlikar, professor of mechanical engineering and a top researcher in the field of fuel cell technology, involves developing a fundamental understanding of boiling mechanisms to help create surface enhancements, which improve heat transfer.

This has applications in many fields, including power generation, cooling of high heat flux devices used in space, cryogenic heat exchangers and water desalination.

He said he chose the engineering Ph.D. program for its focus on application-based, collaborative research.

“Developing sustainable, environmentally-friendly energy sources is one of the biggest challenges of the current generation,” he said, “and I hope to contribute toward the solution in the future.”

Michelle Cometa ’00
Although five states away in Cary, N.C., Michael Pail ’98 (electrical engineering) and Suzanne Traynor Pail ’98 (mechanical engineering) think of RIT every time they see their car.

The Pails, who are the Raleigh-Durham, N.C., chapter leaders of the RIT Alumni Association, ordered “RIT RIT” plates about seven years ago. RIT is repeated because both are graduates. Suzanne, who played four sports at RIT, excelled in soccer and was inducted into the RIT Athletics Hall of Fame in 2005. “Every once in a while, someone will say what a great school RIT is, or that they went there,” Michael said.

The Pails and other RIT alumni have found a creative way to show their RIT identity to others—on their license plates.

Alexis Blondrage ’07 (environmental science) teaches science research and biotechnology on Long Island. She got the plates to commemorate her time at RIT and to show her love for science.

Phil Ferranti ’79 (business) is a former baseball outfi elder who is in RIT’s Sports Hall of Fame. His jersey number was 11. The license plates are a way for him to show his Tiger pride.

Paul Mosakowski ’80 (marketing) ordered a Tiger plate in 1994 and was assigned the number 127. Tiger plates are the only ones representing a Rochester-area college.

Put a Tiger on your plate

New York’s Department of Motor Vehicles began offering RIT Tiger plates in 1994. The plates are assigned a three-digit number by the state followed by “RIT.” Or they can be personalized for an extra fee.

RIT President Bill Destler’s personalized Tiger plate is “1 RIT.” The plates cost $60 to order and $31.25 a year to renew. Personalized theme plates cost $91.25 to order and $62.50 a year to renew. The fees are in addition to the normal vehicle registration renewal fee.

To order an RIT plate, go to: http://dmv.ny.gov/custom-plates/rochester-institute-technology.
Plates on campus

Many cars parked on campus have personalized plates that are intended to cause a chuckle, start a conversation or reveal the driver’s pastime or occupation. Here’s an inside look at just a few of the RIT faces who are taking creative license with their rides.

Lex Sleeman, associate director of athletics, is well known for playing his bagpipes at special events on campus. His plate, “B4GPIPER” attached to his 2003 Mini Cooper, “definitely draws attention,” he said. “People ask, ‘Do you play? Are you a bagpiper?’”

Roy Berns, professor of color science, appearance and technology, got his “ROYGBIV3” plates as a gift from his wife. “ROYGBIV,” “ROYGBIV1” and “ROYGBIV2” were already taken. “It’s a great choice because it is Newton’s spectral colors and my first name,” he said.

Peter Hauser, a research faculty member at RIT’s National Technical Institute for the Deaf, was surprised to find “DEAF” available when he checked the state’s DMV website in 2000. He ordered the plate as a form of self-identification and pride, not to alert others that he is deaf.

People parking near Harvey Palmer should have no trouble figuring out which college at RIT he’s associated with. In 2003, Palmer, dean of the Kate Gleason College of Engineering, put a license plate of “KGCOE” on his 50th Anniversary Corvette.

Not only does TPS represent Tyler Paul Schindel’s initials, it also stands for “Testing Procedure Specification,” a term familiar to people who have seen the film Office Space, where it was a running joke. Schindel ’09, ’14 (information technology) works as a systems analyst for NTID.

Brian Milburn ’08 (international studies), an English lecturer at NTID, sits on the NTID sustainability committee and bought an electric motorcycle a few months ago, which bears the plate “CYA OIL.” He can ride 75 miles before needing to recharge.

People parking near Harvey Palmer should have no trouble figuring out which college at RIT he’s associated with. In 2003, Palmer, dean of the Kate Gleason College of Engineering, put a license plate of “KGCOE” on his 50th Anniversary Corvette.
A new hand for Lucas

RIT scientist launches global network to put 3D-printed prostheses into the hands of those without
Lucas LeMay had three wishes for his 10th birthday. He wanted to grip a full hand of cards when he plays Uno with his family. He wanted to press the brakes on his bike. But most importantly, the fifth grader wanted to hold a taco.

As he nervously walked into a lab at RIT, standing firmly between his parents, he spotted his birthday gift resting on the table. It was his favorite color—blue, just as he asked for. It was even his size. In fact, it was custom made for him. Lucas, who was born without fingers on his right hand, went home that day with the gift of a new 3D-printed mechanical hand. Using 3D printers, open source designs and a little bit of ingenuity, a group of students and a research scientist at RIT are helping to advance the quality of prosthetic devices and make them available to everyone.

In the past four years, the emergence of affordable 3D printers and the do-it-yourself Maker movement have sparked a revolution in prosthetic devices. Just as a painter uses layers of paint and specific brush strokes to create art, a 3D printer uses specific digital instructions to lay down layer upon layer of plastic to create a finger or palm. The customized parts are then assembled using string, bolts and nuts from an everyday hardware store. The total cost is less than $50, nowhere near the tens of thousands of dollars people pay for traditional prosthetic devices.

"This is an inexpensive process that can be completed by almost anyone, especially now that many schools and libraries have 3D printers for people to use," said Jon Schull, a research scientist in RIT’s Center for Media, Arts, Games, Interaction and Creativity (MAGIC). In 2013, Schull created the online community e-NABLE, a group that aims to advance the development of these affordable devices and connect 3D-printing hobbyists and professionals with people in need of prostheses. Today, the popularity of e-NABLE has exploded with more than 2,000 volunteers helping at least 100 people around the world. At RIT, a dozen students have joined Schull for cooperative education experience and as volunteers. Using their design and biomedical engineering skills, they hope in the future to take these assistive devices beyond children with birth abnormalities to help people who have lost limbs due to war and violence, natural disasters or disease.

In May, RIT students developed a prototype and design for e-NABLE’s first 3D-printed mechanical forearm, which they donated to two recipients in Buffalo. The students and Schull are working to create exoskeleton devices and arms that use motors to augment or replace muscles. They also are collaborating with a Johns Hopkins University research lab to create a shoulder-powered harness.

"I think that the technologies and practices that Jon and the students at RIT are helping to create could significantly improve millions of lives worldwide," said Dr. Albert Chu, a trauma surgeon at Johns Hopkins Hospital and world-renowned researcher on state-of-the-art prostheses. "Now is the time to bring e-NABLE’s collaborative approach to design and democratization of 3D-printed prostheses into mainstream medicine."

Professional matchmaker

Born in Shanxi, China, a mining area about 300 miles southwest of Beijing, Lucas would wake up every morning to streets covered with inches of coal dust. He was living in a province that saw a rate of birth defects six times higher than the national average.

But in 2008, everything changed. Jim and Kim LeMay traveled to the city in search of a son. They fell in love with the shy but clever 4-year-old boy and decided to adopt him. Lucas was still adjusting to life with a big sister, Lindy, and his dog, Chance, in Walworth, N.Y., when the first 3D-printed hand was created in 2011.

As the story of that first hand goes, after a South African carpenter named Richard Van As saw off most of his fingers in an
accident, he became determined to get back to work. Because he couldn’t afford a prosthetic device, he turned to the Internet to learn how to make one.

He connected with Ivan Owen, an American prop maker who had created a mechanical puppet hand, and together the pair from halfway around the world designed and produced a working hand for the carpenter. By flexing his wrist, Van As was able to control the fingers, which were attached to cable “tendons” that would tighten and relax the hand’s grip.

They also created a hand for a 5-year-old in South Africa, who like Lucas was born without fingers on his right hand due to a congenital condition called Amniotic Band Syndrome. ABS is the result of fibrous bands that wrap around a hand or a foot in utero and cut off circulation. About one in 1,200 children born every year has underdeveloped fingers and limbs as a result of the condition.

Although the first hand was designed with aluminum, Owen decided that using plastic parts created by a 3D printer would save time and money. Calling it the Robohand, they posted the design and an instructional how-to video online for anyone to use.

“Schull first became interested in prosthetic devices at a National Collegiate Inventors and Innovators Alliance conference in 2012, where he learned of several engineering classes that helped design a custom prosthetic hand for someone in need. Inspired by their work, the entrepreneur and then associate professor in RIT’s interactive games and media program began to think about ways to combine his passions for innovation, collaborative technologies and invention. He knew that 3D printers and open source software could be used to collaboratively improve the design process and bring the technology to the masses.

After a year of trying to build interest by bringing together a multi-university consortium that would design and donate prostheses, he began to fear that his idea was too grandiose. Looking for inspiration, he went back to the video of the South African carpenter.

Schull created the online community e-NABLE to connect 3D-printing hobbyists with those in need.
After helping student Jade Myers assemble the pinky, Lucas LeMay tried on his new hand and began flexing the fingers. He then used the hand to hold a container while he picked out a piece of candy.
“Comments on YouTube videos are rarely inspirational, so what I saw amazed me,” said Schull. “Several people were saying, ‘this is cool, I have a 3D printer and I’d do this.’”

Schull created a custom Google map and linked it to a comment of his own. He simply said, “If you’re willing to receive inquiries from people who need an assistive device, put yourself on this map. Crowd source the distribution network.”

Within six weeks, the Google community had 70 volunteers and e-NABLE had been created.

Making a difference

For the LeMays, there was never an urgency to purchase a commercial prosthetic hand. Lucas had visited a doctor when he first came to the United States, but it would have cost $42,000. And he didn’t need one.

“He’s very clever,” said Kim LeMay. “He’s figured out his own way to play the Xbox and he’s even learning how to play the guitar.”

However, when a friend posted a link to e-NABLE on Kim LeMay’s Facebook wall in May, she was intrigued.

As Lucas got older, he did encounter a few activities where more grip would be useful. A second hand could put more power behind his baseball swing and steady his basketball shot.

At this point, the e-NABLE community had grown to almost 1,000 members worldwide, and Schull and RIT students were playing a crucial role in its success.

When Lucas visited RIT for the first time in June, the local group had already created two arms and three hands.

As the family walked into the cluttered campus workshop filled with tools, machines and brightly colored spools of plastic string, Lucas saw a girl about his age sitting with her forearm submerged in a bucket of goop.

“Hi, are you getting an arm too?” asked 7-year-old Lusie Santangelo. “Mine is going to be purple.”

Lusie, who was adopted as a baby from Armenia, was born without most of her forearm also due to Amniotic Band Syndrome. A family friend who is an RIT staff member introduced the Santangelo family to Schull.

Like Lucas, Lusie had reached an age where a prosthetic arm would help her be more active, said her mother, Kathy Santangelo. Lusie wanted to swing on the monkey bars at recess and ride a bike down her driveway.

The RIT students explained that Lusie was having a plaster mold made of her left arm, which only grew to a few inches past her elbow.

Using a digital scanner, the exact mold would be modeled on the computer and then 3D printed into a custom forearm cup that would comfortably hold her new arm in place.

“Lucas, your hand will look similar to Lusie’s except it will be attached to your wrist,” said Jade Myers, a fourth-year multidisciplinary studies student. “Are you ready to put your hand in the goop?”

For Myers, designing and building Luca’s arm also due to Amniotic Band Syndrome. A family friend who is an RIT staff member introduced the Santangelo family to Schull.

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For Myers, designing and building Luca’s
new hand was a natural fit, even though it was the first 3D-printed hand she had ever built.

Having always had an interest in prosthetic devices, she came to RIT with plans to tailor her major toward prosthetic design, robotics and cybernetics.

“I happen to know a lot of veterans who have waited years to get a prosthetic device, and that’s just not right,” said Myers, who lives in Canandaigua, N.Y. “If we have the ability to build people an affordable alternative that can help, then we really need to be doing it.”

While building Lucas’s hand, Myers encountered a few complications. They learned that they needed to make the shell level thicker because the plastic was splitting.

“There is certainly a learning curve for building these devices, and there are always more improvements to make on your design,” she said.

It has also been a learning process for Farrukh Mohiuddin, a third-year biomedical engineering major originally from Pakistan, and Jascha Wilcox, a fifth-year biomedical engineering major from Ann Arbor, Mich. They have both worked to design some of the first 3D-printed transradial arms as part of their co-ops.

While much of the design is printed similar to the hand, it also incorporates PVC pipe and a rotation mechanism for the forearm, which makes it possible to emulate wrist rotation.

“Up until this summer, the hand designs available on e-NABLE have really only served people who have wrist movement,” Wilcox said. “By helping several local residents with different needs, we have created new designs that can be improved upon by other people all around the world.”

Wilcox’s initial design, which they dubbed the “RIT Arm,” was created for 6-year-old Derek Black and 40-year-old Nathan Ramsey, both of whom are from Buffalo. In fact, Derek even opted for an extra-long arm so he could easily reach things that are far away.

Mohiuddin used part of Wilcox’s design for Lusie’s arm but added his own ideas, experimenting with a silicon mold and a lighter-weight design.

“We had Lusie try on several different forearm cups, and she found that our silicon version was the most comfortable,” he said.

In addition to a hand for Lucas and an arm for Lusie, Elizabeth Jackson, a third-year mechanical engineering student from Ligonier, Pa., has been helping to create a 3D-printed exoskeleton.

The device is for a local child with limited mobility on half of his body due to brain surgery for life-threatening seizures.

“Using a 3D-printed exoskeleton that goes over his arm and shoulder, the device can actuate his movements allowing him more usability with his hand,” she said.

“I hope to continue working with e-NABLE as part of graduate school next year,” Myers said. “I think that this humanitarian model and these devices are just the first step in something big in the medical industry.”

As soon as Lusie put on the arm, she tried picking up objects scattered on the table, including a water bottle, plastic container and a roll of tape. The students taught her how to rotate the forearm and offered tips on how to grasp items, such as putting the pinky finger under the object. Her parents, Steve and Kathy, watched Lusie use her left hand for the first time.
The science behind 3D-printed prostheses

3D printing, also known as additive manufacturing, builds an object by adding material layer by layer until the printed part is finished. Printers have a frame and three axes. The X axis moves left to right, the Y axis moves front to back and the Z axis moves up and down. The extruder, which sits on the X axis, consists of a nozzle that shoots plastic at about 100 millimeters per second and a cooling fan that helps control the layer temperature.

To print objects, the electronics of the printer steer the three axes so that the extruder head is at the right spot to add plastic to the printed part.

Many of the consumer 3D printers used in the RIT lab cost between $2,000 and $3,000 and include settings to change print speed, temperature, density, the number of shells and the addition of a support structure while 3D printing.

PLA and ABS are two popular types of thermoplastic filament used to create 3D-printed prosthetic devices. Students say that PLA creates a better looking but less durable print. A majority of RIT’s prostheses use PLA because it is easier to work with the temperature settings during the print. ABS creates a stronger part but has a higher melting point, so it can sometimes be very temperature sensitive during the print, causing the part to crack. ABS plastic can be dipped in acetone to create a glossy look that also makes the printed part more durable.

Before 3D printing, students use a computer-aided design program to create or modify the scale of a model prosthetic device and save it into an STL file. Many STL files with pre-made designs can be found on the e-NABLE website. CAD programs used by RIT students include Fusion 360, Inventor and Tinkercad. Using the CAD program and a 3D scanner, students can also collect and analyze digital data on the shape and appearance of a plaster mold of a patient’s hand.

Before printing a 3D model from an STL file, it must first be processed by a piece of software called a “slicer,” which converts the model into a series of thin layers and produces a G-code file containing instructions tailored to a specific printer. Several open source slicer programs exist, including Skeinforge, Slic3r, KISSlicer and Cura.

Print times vary, depending on the size of the object. The average print time for a finger is about 30 minutes. An average palm will take about nine to 10 hours to print. Creating and assembling all of the parts for an arm will take 70 to 80 hours.

Down the road
Schull envisions e-NABLE growing in both numbers and impact in the future.

“In the long term, I see the community working together to create a variety of assistive technologies, not just hands,” he said. “E-NABLE really only works because we have so many professionals, volunteers and recipients that are willing to collaborate and help each other.”

That teamwork was put on display at the Prosthetists Meet 3D Printers conference in late September at Johns Hopkins Hospital. In addition to bringing together medical professionals and industry leaders to discuss the future of e-NABLE, the conference served as an opportunity to provide hands-on workshops for prosthetists, children and their parents to build their own hands.

The Santangelo family attended the event to meet other families and to learn more about 3D-printing technology.

“We learned how to actually put together a hand, and it’s more challenging than you might think,” said Kathy Santangelo. “We even met an eighth-grade girl who developed her own myoelectric arm (arms that use electric power from muscles to run) using 3D printers.”

Kathy Santangelo hopes to have the RIT students do a presentation at Luisa’s school to explain what went into making the hand and to show kids how cool science can be.

RIT’s e-NABLE team also plans to do a presentation at school with Lucas, who has been using his 3D-printed hand to ride his bike down hills more aggressively and, of course, to eat tacos. The family ended up eating tacos his first three nights with the hand. Lucas held the taco in his right hand while pouring sauce on it with his left.

He is still working on holding cards, but with help from Myers, the family will continue to adjust the grip to make the hand more functional.

His parents expect him to begin using the 3D hand more at school and in public. Lucas told them that he was nervous at first getting the hand because he would stand out.

But Jim LeMay said that Lucas is becoming more comfortable and even hopes to encourage another kid like him to not be afraid. “Sometimes when Lucas is by himself,” his father said, “I’ll catch him practicing the rock-on sign with his new fingers.”
BUY A BRICK
Make your mark.

RIT's Buy A Brick program offers you an opportunity to support student success and the future of the university while becoming a part of RIT's history. Your engraved brick will be placed on Philanthropy Way, located between the Saunders College and Gleason Circle. You can personalize your brick to commemorate your time at RIT, your graduate, a loved one, or a Greek or athletic affinity.

Bricks are now available for inscription in two sizes:

- 4" x 8" (tax-deductible gift of $175)
- 8" x 8" (tax-deductible gift of $250)

If you have any questions or are interested in multiple bricks, please contact us at 800.477.0376 or fundforrit@rit.edu.

Make your mark today at rit.edu/buyabrick.
Austin McChord '09 (bioinformatics) started his computer data backup company Datto Inc. out of his parents’ basement in Norwalk, Conn., in 2007. This summer, Datto opened an office in downtown Rochester as part of New York state’s START-UP NY program, which offers a zero-tax rate for 10 years to businesses that create jobs. Here are McChord’s thoughts on how he created the business and opening a branch in Rochester.

I came up with the idea for the company while I was at RIT. I brought it up with my academic adviser during the fourth year and we talked about it, and he didn’t really think there was a good opportunity for someone to build physical appliances in their basement and sell them to consumers. But nothing really gets me excited more than proving someone wrong.

I thought that online backup was starting to become a big deal and I was like, it’s kind of silly they don’t make a network-attached storage appliance that backed up data off-site. So it seemed like a very achievable thing to do. I spent a lot of time in the basement working at it.

It wasn’t until February of 2008 that I really felt I had something that resembled a real product. I put it up on a website and said, “This is for sale,” and of course nothing happened. No one bought anything because no one went to the website.

I realized that I had to market the product in order for it to succeed. So I started contacting prominent tech blogs and basically emailed and bugged them every day until finally they wrote about my product. That got the first sales of the business.

I came up with a different product idea and I decided I wanted to bet the farm on it. It was an idea of two mass devices that would sync to each other no matter where they were on the planet. I thought the best way to market that would be to go to the Consumer Electronics Show in Las Vegas in January 2009. My parents agreed to fund the trip with money they had saved to help me with a down payment on a house. There was also a pre-requisite there that I had to finish my degree at RIT, which I did through taking online classes.

A major nationwide retailer was interested in carrying our product and they said, ‘Hey, can you send us a couple of pallets of this? We want to test market it in the Midwest region.’ At that point, we hit a wall because I was hand-assembling these things in a basement and there was no way for me to produce a couple of pallets. That was a huge turning point for the business because we realized that selling direct to the consumer market was not possible from a basement.

I had run up about $80,000 in credit card debt because in 2007 anybody could sign up for any credit card. I maybe had a week or two left of money to meet payroll for my friends who were working for me, so we were very, very close to going out of business.

We had been approached by these IT service providers. They were saying, ‘Hey, we should be your resellers.’ We decided to make this leap and sell to this channel because I figured we were at the end of the road anyway and hopefully this will save us. It turned out that was a really smart move and we got a lot of traction very quickly.

What it did was change our focus. Rather than trying to sell to individual small companies, which is a very large category that feels nearly impossible to reach, we instead were selling to businesses called managed service providers. That is what put the company on its incredible growth trajectory. We still have that focus today.

RIT has been incredibly supportive, helping us with the office in Rochester. A second piece is RIT’s co-op program. Many of our development team is from RIT, almost two-thirds, and they have come through co-ops that we then hired on as full-time staff.

I have a lot of love for the city of Rochester. It is very rewarding to have an ability to contribute and to bring jobs to Rochester. It also helps that Rochester has a pretty fantastic talent pool we can put to work. The reality is that RIT trains some really smart, technical people who have helped us build a lot of the innovation that has separated us from our peers.
Austin McChord ’09 at the new Datto office in downtown Rochester.
A curiosity about a college campus more than 6,600 miles from his home nearly 20 years ago has led Minoru Yoshida to improve the lives of deaf, hard-of-hearing and hearing individuals around the world, overseeing millions of dollars in projects each year as a grant officer with The Nippon Foundation of Japan.

Yoshida ’04, ‘08 (information technology; science, technology and public policy) was born in Kyoto, Japan. He became deaf when he was a year old due to a high fever and was mainstreamed most of his life. A family acquaintance had mentioned the National Technical Institute for the Deaf being on the primarily hearing campus of RIT.

“I was fascinated with the environment which RIT/NTID offered,” Yoshida said. “It provided a great welcoming and sense of community for the students who were deaf and hard of hearing with a great mass of students who were like me, from a very similar academic background.”

Yoshida studied at a community college in Illinois for six months to improve his English and American Sign Language skills, then enrolled at RIT/NTID. His major in information technology led to a part-time and later full-time job at the NTID-based Postsecondary Education Network-International. PEN-International was a multinational partnership of colleges created in 2001 by more than $15 million in grants from The Nippon Foundation to improve and expand college education for deaf and hard-of-hearing students around the world by sharing educational technology and conducting faculty development and training.

“This provided me an opportunity to work with various people not only at NTID, but with deaf educators and deaf leaders around the world,” Yoshida said. “This work influenced my path to become more involved in the public/nonprofit sector as I witnessed injustice still remaining.”

Yoshida landed a job full-time with The Nippon Foundation in Tokyo after getting his master’s degree. He screens applications for grants, primarily for international disability projects as well as deafness-related projects in Japan. He manages ongoing relationships with grantees to help them enhance the effectiveness of their projects. When projects are completed, he reports on the impact of their programs and evaluates whether the outcomes were accomplished.

“My academic and working experience at RIT/NTID helped me in this job,” Yoshida said. “It provided me self-confidence and cultural identity as a deaf person. And without interactions with my fellow students and professional colleagues during my college years, I would not have been able to come this far in my career path.”

The foundation’s mission is social innovation; its grants are intended to promote positive changes by providing assistance for humanitarian work, including social welfare, public health and education. There are still many issues that remain unsolved in terms of education for deaf and hard-of-hearing students, Yoshida said. “Deaf issues are generally very complex and not correctly understood.”

While his work has taken him around the world, he has fond memories of Rochester, which he considers his second home. “Being at RIT/NTID was a precious moment in my life as I was able to meet my role models and friends who are like me. I no longer had to be the oddball in a mainstream setting.”

Greg Livadas

Alumni Updates

Minoru Yoshida ’04, ’08 credits RIT/NTID with giving him the experience to land a job as a grant officer with The Nippon Foundation of Japan.
Girl Develop It aims to bridge gender gap in tech fields

Kristen Curtze ’09, ’11, left, and Liz Gombert ’09 launched a chapter of Girl Develop It in Rochester in September.

Kristen Curtze ’09, ’11 (new media interactive development, communication and media technologies) initially didn’t think too much about the pink sticker a fellow female developer gave her at a conference in South Carolina this summer.

But after the woman explained to Curtze and college friend Liz Gombert ’09 (new media design and imaging) that the sticker represented the organization Girl Develop It, they realized that Rochester could benefit from having a chapter.

“There are women who feel like they missed the tech boat a bit,” said Gombert, who is a thesis away from a master’s degree in graphic design at RIT and works as the lead user experience designer for Sedia Technology Partners at Xerox. “This is a chance to have an organization that can introduce them in a nice, easy way that is not intimidating or overwhelming.”

Rochester’s Girl Develop It kicked off with a launch party in late September in RIT’s Center for Media, Arts, Games, Interaction and Creativity (MAGIC). Both MAGIC and RIT’s Women in Computing are supporting the organization.

The goal of the group is to help adults learn Web and software development through classes, workshops and networking. Although the organization is targeted at women who are underrepresented in the Internet technology field, men are welcome.

Curtze and Gombert hope to start introductory to basic coding and Web design classes by the end of this year. Classes could be all in one day or split up into several nights, depending on the teacher. Eventually they will add more advanced classes and networking events.

Curtze, a Web developer who has never worked with another female in IT, said they are already hearing positive feedback from local start-ups, who think this will help the Rochester workforce get more well-rounded.

Girl Develop It has chapters in more than 35 cities across the country. For Curtze and Gombert, a local chapter is a way to give back to the community. “I know how to build products. I know how to make things work,” Curtze said. “But I wanted to do something more than just making things function.”

Gombert added that they realize change isn’t going to happen overnight, but this organization is a good start.

“We are trying to help women get their foot in the door so the numbers can change in the next five years, the next 10 years,” Gombert said. “We want them to be more confident to join the workforce in this field.”

To learn more
To learn more about Rochester’s Girl Develop It, go to www.meetup.com/Girl-Develop-It-Rochester. To learn more about chapters in other cities, go to www.girldevelopit.com.
Illustration alumnuis goes from CIAS to the CIA

In the political thriller Argo, U.S. Central Intelligence Agency operative Tony Mendez artfully uses disguises and diversion in leading the rescue of six U.S. diplomats from Tehran during the Iran hostage crisis. Dan Caster ’89 (fine art/illustration) cited the 2012 movie as a prime example of how mission successes were borne out of innovative and highly creative actions combined with imaginative thinking.

“When you have that creative perspective or dimension to your thinking, it gives you the ability to look at a difficult situation from many different sides,” Caster said. “It enables you to creatively put together a plan, even under high risk.”

It also helps explain how Caster went on to a decorated career as a mission integrator supporting counter-terrorism operations with the CIA, retiring in 2012 with over 22 years participating in sensitive missions in more than 25 countries.

Caster’s military service began when he entered active duty with the U.S. Air Force in 1979, serving as an aerospace photographic systems specialist teaching foreign nationals as a technical school instructor at Lowry Air Force Base in Colorado.

His college years started when he attended the Art Center College of Design in Pasadena, Calif., where he began pursuing illustration from 1985 to 1986. After his mother became ill, he wanted to be closer to his family, so he enrolled at RIT.

During Caster’s junior year, he attended a presentation by CIA recruiters. “My résumé included my military experience and security clearance, including my work with foreign military personnel (at Lowry),” he continued. “They hit on it immediately.”

Caster subsequently was called into an interview with CIA recruiters in 1988. “For the most part, I built a design portfolio specifically for the agency,” he said. “They were looking for political and multicultural understanding. I wanted to do disguises; only Hollywood does it better than the CIA.”

Caster’s real-life experiences enabled him to design highly precise portraits, expertly matching skin tones and textures in his visual renderings and sketches.

His final “wild card” portfolio piece was an artist’s impression of a main battle tank with special armor on the latest tanks fielded by the former Soviet Union. No clear images of the armored vehicle existed anywhere in the West, but Caster was able to “fill in the gaps” with the up-close knowledge he gained from trying to identify vulnerabilities of similar tanks during his time in the military.

“I drew my impression of what that tank would look like,” Caster said. “They were amazed, and when they matched it against the real thing, it was very accurate.”

Caster landed a position as a visual information specialist from 1990 to 1993, when he was assigned to the Design and Presentation Center at CIA headquarters in Langley, Va. There he specialized in crafting culturally unique illustrations and graphics in support of agency field operations and the presentation of finished intelligence. He also developed a forte for creating custom, highly visual presentations used to inform Congressional oversight committees.

Another specialty was designing formal portraits of high-level CIA officials, including outgoing directors, as gifts. His personal favorite is an “unfinished” rendering of Robert Gates, who served as former defense secretary and CIA director. “He left the position earlier than expected, so his work was not complete,” Caster explained.

While Caster’s art career at the CIA eventually gave way to supporting highly sensitive counter-terrorism operations worldwide over the next 20 years, “I still relied on my creative abilities many times throughout my career with the agency,” Caster said.

Dan Caster ’89 reviewed student portfolios at the most recent Creativity Industry Day, sponsored by RIT’s Office of Cooperative Education and Career Services. “Creativity has served me so well throughout my career,” Caster said, “and I’d like to pass that along to today’s students as well.”

Rich Kiley
Ever since his father gave him his first model rocket when he was a child, Joseph Pawelski ’06, ’07 (mechanical engineering, thermal fluids engineering) knew he wanted to be an engineer. But he could never have predicted that he would become a leading producer of an alcoholic drink that was once banned in the U.S. and many other countries worldwide.

A husband and father of two with a third child on the way, Pawelski works as a technology manager for Advanced Manufacturing Technology in Loveland, Colo., where he develops equipment for craft breweries and designs production lines for beverage companies like Coca-Cola and Pepsi. And he is a professional distiller in his spare time.

“Years ago, my roommates told me that I should start a distillery,” said Pawelski. “I joked that I would never be profitable in the business because I would always be improving the stills.”

Pawelski opened Overland Distillery in 2009 with his wife, Amanda, whom he met while studying at RIT. Their first and only product, Trinity Absinthe Superieure, sold approximately 1,200 bottles last year and has won numerous awards. Among its many accolades, Trinity Absinthe won silver in the 2014 San Francisco World Spirits Competition, silver in the 2014 Fifty Best Tasting and double gold in the 2012 Denver International Spirits Competition.

Absinthe is a highly alcoholic spirit made from wormwood, anise, fennel and other herbs. The drink has often been linked with hallucinations and was banned in the U.S. and other countries due to concerns regarding thujone, a chemical present in wormwood that can be dangerous in high volumes. However, after scientific studies debunked these claims, the U.S. lifted its ban in 2007.

“Absinthe will not make you hallucinate,” Pawelski said. “The unique thing about absinthe is that it actually reduces the negative effects of alcohol because of the mix of herbs in the drink that have medicinal properties.”

Pawelski chose to produce absinthe because of the drink’s rich history among artists and writers and also because he enjoyed the complex nature of its distilling process. Unlike many other spirits, absinthe is distilled with herbs. The resulting mixture is then colored, diluted and aged before being bottled.

“The process is similar to making a really strong cup of tea,” Pawelski said.

Trinity Absinthe is currently distributed in Colorado, Illinois, Massachusetts and Virginia, with limited availability in Maryland and D.C. Overland hopes to expand its distribution to more Northeastern states, including New York, New Jersey and Connecticut.

Pawelski credits his success to his passion for invention, the skills he acquired at RIT and to his wife, who manages the distillery’s business operations.

“We created a brand together and it’s something I hope my daughters can run one day. I hope it inspires more people to craft spirits.”

Derrick Hunt ’15
Regional Alumni Activities

Albany

Members remembered RIT student Nicholas Murray by participating in the fourth annual Rhino Run on Oct. 11. Proceeds benefit an incoming student from the Albany area who will attend the Kate Gleason College of Engineering.

Bay Area

On Aug. 24, more than 30 alumni gathered in San Mateo at Coyote Point Recreation Area for the second annual Taste of Rochester picnic. For the first time, RIT partnered with the University of Rochester for this event.

Boston

On Sept. 13, alumni volunteered at Zero-New England as part of RIT Cares and painted its children’s room. Thanks to host Stephanie Simon ’14.

Buffalo

On Sept. 13, more than 40 alumni and guests toured and tasted beer from Jeffrey Warne’s ’94 newly opened Renaissance Brewing Co. on Niagara Street.

Charlotte

Alumni and guests gathered for a tour, tasting and German-themed brunch hosted by Ashutosh Agarwal ’01 on Sept. 19. Thanks to host.

Dallas

The chapter hosted its annual dinner club meeting at Caldwell’s Steak House on Aug. 27. Thanks to hosts Jacqueline Gonsalves ’01 and Scott Saldinger ’91.

Denver/Colorado Springs

On Aug. 6, alumni gathered for happy hour at Ship Tavern in downtown Denver. Thanks to Assistant Vice President of Alumni Relations Kelly Redder for hosting the outing.

On Oct. 25, the RIT men’s hockey team traveled to Air Force for its annual game. More than 30 alumni gathered at The Academy Hotel for an afternoon pregame reception and gathered at The Academy Hotel for the annual game. More than 30 alumni traveled to Air Force for its annual dinner on Sept. 28. Thanks to organizer and chapter leader Carlos Cornejo Reyes ’09.

Rochester

Alumni enjoyed a summer golf league at Geneva Country. Celebrations to league champions Mike Kelly ’80. C.

On Aug. 24, more than 150 alumni and students attended a picnic and baseball game at Frontier Field as the Rochester Red Wings beat the Scranton/Wilkes-Barre RailRiders. Thanks to alumni volunteers Chris Jackson ’13, Ktery Money Money Graves ’80, Stacy Kuryk Lake ’05, ’07, and Barry Suggs ’96, ’96, ’73, ’77.

On July 20, alumni and guests enjoyed lunch and a tour of Wagner Vineyards in the Finger Lakes. Thanks to host John Wagner ’86.

Alumni and friends marched in the Puerto Rican Festival Parade on Aug. 2. Thanks to supporters Orlando Ortega ’74, ’84 and Deviniza Ortega ’04.

On Aug. 3, alumni from Rochester and Syracuse went on a white-water rafting excursion on the Salmon River. Thanks to hosts Frank Lucas ’75 and Susan Shank ’97.

On Aug. 20, more than 100 alumni with children or grandchildren in RIT’s incoming freshman class gathered for the annual Alumni Legacy Dinner on campus.

More than 100 alumni and guests took part in the Big Shot at Geloso Institute for Sustainability on the RIT campus on Sept. 6. Thanks to volunteers Donna and Tony Koscienski ’78, Ktery Money Money Graves ’80 and Rita Haschmann ’79.

On Sept. 15, alumni attended a clean-up day at Mt. Hope Cemetery as part of RIT Cares.

On Sept. 16, alumni sorted medical supplies for those in need at Intercity as part of RIT Cares. Thanks to Maggie Reilly ’84 for leading the effort.

On Sept. 18, alumni took part in the Gene Polisseni Center dedication activities and ceremony.

On Sept. 20, alumni attended a special reception at the First Niagara Rochester Fencing Club.

More than 50 alumni gathered to enjoy the Hillside Community Shield soccer game featuring RIT vs. University of Rochester on Sept. 20 at Sahlen’s Stadium.

More than 3,000 alumni attended the Urban League Classic—Howard University vs. Morgan State football game.

On Sept. 20, alumni gathered for a special reception at the First Niagara Rochester Fencing Club.

More than 50 alumni attended Brick City Homecoming & Family Weekend Oct. 16-19. AALANA (African American, Latino/a American, and Native American) alumni took part in a full schedule of activities during the weekend, including a happy hour kick-off at Manro’s and campus tours.

South Florida

Members participated in the RIT Cares volunteer event on both Sept. 13 and Oct. 25 at the Caring Kitchen in Delray Beach, Fla. Thanks to organizer Paul Finkelstein ’91.

Syracuse

Alumni gathered on Oct. 11 for the Syracuse University football game against the Florida State Seminoles.

Vermont

Alumni gathered on Oct. 18 to cheer on the RIT women’s hockey team during its away game against the University of Vermont.

Washington, D.C.

On Aug. 7, more than 30 alumni and friends gathered at Capitol City Brewing Co. in Arlington, Va., for happy hour.

Reunions

On June 13-15, 38 of 47 former House LE Students met at RIT to reconnect and reminisce about their dorm life experiences in RIT’s first-ever Club House. People came from 10 states for the reunion.

On Aug. 30, the cross country team held its annual alumni reunion and mini race, and the men’s soccer team held its annual alumni reunion, which included the Doug May Memorial Golf Tournament and alumni soccer game. On Sept. 20, the baseball team and softball team held their annual reunions and alumni games.

On Oct. 4, the men’s hockey team held its annual alumni reunion, which included an alumni game in the new Gene Polisseni Center.

More than 50 alumni and guests attended Zeta Tau Alpha’s 25th anniversary celebration during Brick City Homecoming & Family Weekend. Pil Kappa Psi, Kappa Delta Rho, Delta Phi Epsilon, Pi Kappa Phi, Kappa Delta Rho, Delta Phi Epsilon, Pi Kappa Phi, wrestling and women’s lacrosse also held alumni activities.

On Nov. 1, the women’s hockey team held its annual reunion, which included an alumni game in the new Gene Polisseni Center and a chance to see the current team battle Lindenwood University.

Summer send-offs

The RIT Office of Alumni Relations in conjunction with the RIT Center for Orientation and Transition organized a full schedule of summer send-off events for incoming freshmen. The send-offs welcomed more than 700 students. Thanks to Brian O’Sheehy ’91, ’94 and Kim Comto ’90 for hosting send-offs in their homes. Events were held in the following cities: Albany, N.Y.; Boston, Buffalo, N.Y.; New York; Denver; Philadelphia; Washington, D.C.; Chicago; Syracuse, N.Y.; Atlanta; San Francisco; San Luis Obispo, Calif.; and Los Angeles.

To learn more

Dan Christmas ’72 is the contact in the Office of Alumni Relations for regional alumni activities. Contact him toll-free at 1-866-RIT-ALUM. To learn more about alumni activities, go to www.rit.edu/alumni.
1955
James Forney ‘55 (GAP) is writing a book called Just World: A Fast Approach Through The Rather Extraordinary Life Of An Otherwise Ordinary Guy. He has traveled the world for photo shoots for magazines such as House Beautiful and Town & Country.

1957
Betty (Pratt) Saunders ‘57 (SCB) and Jack Jordan ‘59 (GAP) have completed his 20th consecutive year as staff photographer for the Arizona Children’s Burn Camp, a one-week summer camp for children who have survived burn injuries. He is also in his 13th year as a volunteer trip leader for Arizona Highways Photo Workshops, where he currently serves as the president of the board of directors.

1962
Gina DiPino ‘62, ‘64 (FAA), managing partner of U.S.-based Global Innovation Partners, recently served as senior strategic advisor to the St. Louis City and County Economic Development Partnership in the development of their Strategic Plan. At home in New Jersey, she has been elected board president of the Sussex County Arts & Heritage Council and board chair of the Lake Mohawk Preservation Foundation.

1965
Ron “DeGromm” Glazer ‘65 (GAP) is now working as the owner of Stineyburg Bay Design in Florida.

1966
James Raizum ‘66 (GAP) retired in August 2009 from Hallmark Cards as senior graphic art quality engineer after 36 years and is now co-owner of Vintage Vorge Apparel in Independence, Mo. For more on the vintage store, go to www.vintagevoguekc.com.

1966
Fred Ellen ‘66 (GAP) has been working on an upcoming HBO mini series called Olive Kitteridge. The series is comprised of four one-hour segments and stars Frances McDormand, Richard Jenkins and Bill Murray. Ellen is the cinematographer for the series, which was shot in the Gloucester, Mass., area.

1970
Harry Schaufler ‘70 (GAP) retired on March 25, 2014, after 40 years working as a scientific and technical photographer in the dermatology branch of the National Cancer Institute at the National Institute of Health in Bethesda, Md.

1971

1972
Margaret (Gabler) King ‘72 (SCB) wrote her about mystery, blues at the Rock Group, which will be published by Simon & Schuster in December 2014.

1976
David Newman ‘76, ‘81 (KGCOE) has his first post-retirement job as a full-time Lake Trail Conference’s vice president for trail preservation after a 35-year career at Eastman Kodak Co. and three years with a tech start-up company in the Greater Rochester area.

1978
Dawn Marvin ‘78 (CAST) accepted a contract position as marketing communications consultant for National Naval Medical Center in Bethesda, Md., in February 2010. She was hired into government service in 2006, first for the Navy and currently under the Department of Defense, where today she serves as marketing and communications strategy administrator and special assistant to the commander.

1979

Gary Bonvillian ‘74 (SCB), ‘81 (CAST) is beginning his ninth year as president of Thomas University in Thomaston, Ga. A new academic building was opened on campus recently that is named Smith-Borrell Hall for Rankin Smith, former chair of the university’s Board of Trustees, and Borrelli.

1994
Thomas Klinkowstein ‘71 (GAP) was appointed to the Library of Congress as Supervisory Information Technology specialist in the Office of Strategic Initiatives.

1995
Henry Freedman ‘75 (GAP) held a U.S. patent with Peter Dunand and Peter Coon. They have formed Image Test Labs to commercialize the technology for grading all forms of conventional and digital printing process, wide format printing systems, photographic printing systems and government and scientific print imaging systems.

2002
Donald R. Kingston ‘64 (SCB) was re-elected to the Greater Rochester area.

2003

2005
Ron “DeGromm” Glazer ‘65 (GAP) is now working as the owner of Stineyburg Bay Design in Florida.
1982
John Christopher ’80 (SCB) is founder and president of Hospitality Associates, which was chosen as the preferred developer for a Holiday Inn hotel in New York. The company was also awarded the management contract for another Holiday Inn in Vermont.

1983

1984
Jack Massoth ’84 (CAST) was named the 2013 Manufacturing Engineer of the Year by his employer, Meritor Inc. He is a manager of gearing and subassemblies manufacturing for Meritor and lives in Brighton, Mich.

1985
Wade Sister ’85, ’85 (GAP) is the executive producer at NASA’s Goddard Space Flight Center in Greenbelt, Md., and leads a team of video producers, Web strategists, animators, data visualizers and social media mavens to share NASA science stories with wide and diverse audiences.

1986
Robert Ferstono ’86, ‘87 (GAP) celebrated his 12th year as president/CEO of Excell Corp. in Silver Spring, Md. Lott Muerza ’87 (GAP) was a playwright for an event at the 2014 Fort Niagara Rochester Fringe Festival.

1988
Steve Camposo ’88 (GAP), senior producer/director/editor of RT Production Services, is proud to announce that the Telly Awards has named RT Production Services a Silver winner for its piece titled “2013 BET Innovation Hall of Fame—John Schott.”

1989
Ted Dohl ’89, ’89 (BGS) is the president of Bodie Technology and is responsible for strategy and technology development for Bodie’s engineering division. Within the past year, he has been a keynote speaker at Jumma Community Conferences, talking about “Stretching the Limit—An Analysis of Biological Equivalence and Noninferiority.”

1990
Owen Kassimir ’90 (GAP) has joined Cooper 4 Fruit Partnership Board of Directors. Cooper 4 Fruit Partnership facilitates long-term policy and infrastructure projects for the Camden Waterfront and the surrounding Brownstone neighborhoods. He serves as president of New Jersey American Water and New York American Water.

1991
Rick Kittles ’91 (GAP), a national leader on cancer health disparities and the role of genes and environment in disease, and a pioneer in DNA testing to trace the ancestry of African Americans, has been appointed director of the new Division of Population Genetics, part of the new Center for Applied Genetics at the Arizona Health Sciences Center at the University of Arizona.

1992
Mark Pizzi ’92 (GAP) accepted a position at Vacom in New York City. He is completing a book on photography, with a release planned in November at the Three Gane Gallery in Beacon, N.Y.

1993
Wendy Enos ’93, ’92 (GAP) writes that her daughter, Ana Enos, is a member of the freshman class at RIT majoring in mechanical engineering.

1994
Jeffrey Rowoth ’91 (CAST), ’12 (CAST) accepted a position as assistant professor at the University of Sussex. She is beginning a visiting fellowship in France and is a member of the faculty of the School of Applied Sciences.

1995
Jeff Banks ’92 (FAA) was the creative producer for the online Disney Channel show “Animaniacs” in 1995. He is currently working as a producer with the RIT Public Safety Office and has been working with the RIT Police Department for almost 11 years and within the past year has been promoted to 3rd Platoon Lieutenant, supervising the afternoon shift.

1996
Jenny Swintucci ’95 (GAP) took the top spot last fall for licensed Star Trek toys, through ThinkGeek.com. She got together with other fellow alumni over the summer including Stephanie (Silos) Driessen ’92 (CAST), April (Goldstein) Rosen ’93 (CAST), Jeff Banks ’92 (FAA), Keith Middleton ’93 (CAST), and Eric Cully ’94 (CAST).

1997
John Connelly ’97 (CLA), ’97 (CAST) has been working with the RIT Public Safety Office for almost 12 years and within the past year has been promoted to 3rd Platoon Lieutenant, supervising the afternoon shift.

1998
Mary Kitzel ’89 (NTID), ’96 (CCE) recently completed her Ph.D. in historical geography at the University of Sussex. She is beginning a visiting appointment in RIT’s history department.

1999
Jennifer Zaunder-Terry ’93 (FAA), senior design manager for Pinnacle Foods and Diamond Backroads in New York, has joined the RIT Public Safety Office and has been working with the RIT Police Department for almost 11 years and within the past year has been promoted to 3rd Platoon Lieutenant, supervising the afternoon shift.

2000
Suzette Lajemess ‘97 (GAP) has joined the P Build Medical Group’s obstetrics and gynecology division. A native of Western New York, Lajemess received her medical degree from the University at Buffalo School of Medicine and Biomedical Sciences.
Sports injury brings couple together

Looking back now, Rob Mizelle ’09 (civil engineering technology) can be thankful he was injured during lacrosse pre-season in 2005.

At the time, the quadricep he ruptured during a morning practice in January meant Mizelle had to sit out his freshman season and navigate the RIT campus on crutches. But it also changed his relationship with soccer forward Anna Kolnik ’08 (marketing), a friend he had frequently run into in the training room and the honors dorm.

“We started to spend a lot more time together after the injury,” Anna said. “I was pretty concerned about him and didn’t think anything of the concern. Later I obviously figured out that I had stronger feelings for him than I was letting myself believe.”

By March, the two were dating after an impromptu Valentine’s Day celebration, which involved Rob dancing on crutches with Anna in his dorm room. Four years later on Valentine’s Day, Rob proposed. They will celebrate their fifth wedding anniversary on Jan. 2.

The two might never have met if Anna hadn’t decided to attend RIT. The Sharon, Wis., native was recruited to play soccer at three schools—RIT, Babson College in Boston and the University of Marymount in Virginia. On May 1, the last day to submit her deposit, she was at a soccer tournament and on the phone with her mom, who was at the post office with three envelopes wondering which one to mail.

“The whistle blew for captains and I said RIT, walked on the field and never looked back,” she said.

For Rob, who grew up in nearby Pittsford, N.Y., selecting a university was an easier decision. “RIT was the best fit for academics and the opportunity to play lacrosse,” he said.

Rob and Anna did more than play sports. They formed the first RIT Student-Athlete Advisory Committee after representing RIT at a NCAA symposium in 2005. By the following fall, athletes were engaged in community service and were showing their school spirit by attending each other’s games. The community service project grew into a Tigers Give Back weekend with athletes volunteering their time at Rochester schools and helping to clean up city neighborhoods.

Their efforts to increase school spirit included starting President Bill Destler’s Orange Hair Challenge, where he would dye his hair orange if students filled Clark Gym for a men’s and women’s basketball game.

Rob and Anna live in Portland, Ore., after living for three years in Washington, D.C. Anna works as a marketing and promotions specialist for Comcast Spotlight. She finished her MBA in August at the University of Portland. Rob works as a senior project engineer for Balfour-Beatty Construction. He is working on becoming a Licensed Professional Engineer.

“For us, RIT was an opportunity not just to have a really fun and enriching college experience, but also to move forward,” Rob said. “It was the opportunity to meet one another. And it was the opportunity to set ourselves up to succeed as professionals.”

Mindy Mozer

About Tiger Love

To suggest one of RIT’s 4,600-plus alumni couples to feature, email us at umag@rit.edu.
2000

Richard Du Pay '00 (CIAS) accepted a position as operations manager at Appian Corporation in Reston, Va. A native of South Africa, he later moved to Boston, where he completed a bachelor's degree in business at Northeastern University. Du Pay is currently working on implementing a new software development platform to improve the company's efficiency.

2003

Herman Lee '03 (SCC) accepted a consulting position at Forester Research, based out of the San Francisco office. He is an expert in e-commerce and channel strategy clients. He previously worked at Accenture Interactive.

Andrew Schall '03 (GGCOE) recently published a book on user experience design titled "The UX Book: Creating Better Products with Users". The book is available on Amazon and Barnes & Noble.

2006

Sean Kimmons '06 (GGCOE) and Deborah Chou '06 (GGCOE) were married on June 20, 2014, in Irvine, Calif. Attending the wedding were: Julian Peters '06 (GGCOE), Ryan Stoudlar '06 (GGCOE), Cheikouma Morah '09 (GGCOE), Arlene Esposito '09 (SCC), and Chad Brangéúnt '09 (CAST). The couple lives in Denver.

2009

Brett Granger '06 (GGCOE) graduated from the University of Texas at Austin with a Ph.D. in synthetic organic chemistry. He then began working at Abbott Laboratories in Wallingford, Mass., as a medicinal scientist.

2010

Eileen Hennigan DeMayo '11 (GGCOE) graduated from the University of Texas at Austin with a Ph.D. in synthetic organic chemistry. She then began working at Abbott Laboratories in Wallingford, Mass., as a medicinal scientist.

2008

David Moffitt '07 (CIAS) is proud to announce that this television commercial he shot was aired regionally during the 2013 Super Bowl XLVII.

2002

John Cassi '02 (CAST) was recruited by JTW Industries after graduating and spent 13 months in a contract job in Iraq at the beginning of the U.S. Military Operation. He continued working within the Department of Defense contracting industry and three different companies including IT, Enens, and Jacobs Engineering.

2004

Robert Hochstein '04 (GGCOE) was recently named president and chief executive officer for Central Electric Power Cooperative, the wholesale power aggregator for 20 electric distribution cooperatives in South Carolina.

2006

Emily (Wilson) Richard '06 (GGCOE) and John Richard '06 (GGCOE) were married in Hilton Head, S.C., on May 3, 2014, among family and friends, which included several alumni. From left to right are: Sarah Layland '06 (CIAS), an art director for RedEnvelope; Christina Moli '06 (CLAS), a pediatric psychologist at Tufts Medical Center; John M. Kitchura Jr. '06 (GGCOE), a patent attorney at Proskauer Rose LLP; Emily Wilson '06 (GGCOE), a senior visual designer at MicroStrategy; John Richard '06 (GGCOE), a computer engineer at technology-engineering firm, Elise Sanson '06 (GGCOE), a middle school math teacher in Oakland, Calif.; and David Branca '06 (CAST), a researcher at a technology-engineering firm.

2007

 Emmett Blank '07 (GGCOE) is going back to graduate school after working with NASA Jet Propulsion Laboratory for more than four years. He is pursuing his Ph.D. in computer engineering at Georgia Tech University, with a focus on high-performance computing.
Ryan Miller ’13 (KGCOE) is happy to announce his marriage to Kelly Lusey on June 28, 2014. They live in Houston, where he works in a rotation program for The Boeing Co.’s Commercial Crew Transportation System program.

Michael Young ’10 (AST) started a new position as research and development engineer ‘12 at Ball Aerospace in December 2012.

2011
Michael Piggott ’11 (GCCIS) has recently started Bandcamp, a company that develops applications for gamers. Their first application, GameChaser (GameChaser.pro), aims to help hardcore gamers stay on top of the video game industry by tracking a game across the Web over a period of time.

Grant Trelle ’11 (COE) became a NASA Einstein fellow at Yale University.

Sarah D. Kohl ’10 (SCB)

Sara D. Kohl ’10 (SCB) decided that she would leave CM Productions this year and move on to take a more rewarding career role. In 2014, she opened her own business, Oatka Media.

Michelle Malenick ’10 (GCCIS) has joined Stonehouse, Marshall & Driscoll LLP’s Saratoga team. Malenick, a CPA, is a senior accountant in the firm’s tax practice group, providing accounting services to a variety of clients.

Corey (Scala) Faller ’10 (COE) and Andrew Faller ’10, ’13 (GCCIS) are delighted to announce their marriage on June 21, 2014, in Union Township, N.J. The wedding party included: Justin Gourie ’10 (GCCIS), Christopher Baldani ’10 (GCCIS), Christopher Simpkins ’10 (GCCIS), Christopher Wallace ’10 (GCCIS), Jephthah Larrain ’11 (KGCOE), Nicole Rogers ’12 (GCCIS), and Alicia Weston ’11 (COE).

William Stephen Craig ’14 (KGCOE) and Anna Joy Guthrie ’13 (CHST) were married June 19, 2014, in Jericho, Vt. Amy Guthrie ’13, sister of the bride, was the maid of honor. The bridesmaids included Nicole Mallory ’13 (CHST); Joelle Scarratt ’14 (COE); and Rachel Zorhoffs ’14 (COE). Groomsmen included Tom Rnummer ’13 (KGCOE); John Harrington ’13 (KGCOE); and Stephen Bugy ’13 (KGCOE). The couple will live in College Park, Md.

Richard Hennig ’13 (GCCIS) started a short story publication called Itexon Science Fiction Magazine (www.itexon.com) last year, publishing seven to nine original pieces on the first of every month.

Lucia Martinez ’13 (CIAS) received an internship with Smithsonian American Art Museum in Washington, D.C. She also got a job as a teaching artist at Capitol Hill Arts Workshop in Washington, D.C., where she teaches black-and-white darkroom photography and digital photography classes to K-5th graders and adult students.

Anna Joy Guthrie ’13 (CHST) and William Stephen Craig ’14 (KGCOE) were married June 19, 2014, in Jericho, Vt. Amy Guthrie ’13, sister of the bride, was the maid of honor. The bridesmaids included Nicole Mallory ’13 (CHST); Joelle Scarratt ’14 (COE); and Rachel Zorhoffs ’14 (COE). Groomsmen included Tom Rnummer ’13 (KGCOE); John Harrington ’13 (KGCOE); and Stephen Bugy ’13 (KGCOE). The couple will live in College Park, Md.

Maggie Castle ’14 (GAP) and Tim Keyser ’12 (GCCIS) are excited to announce their marriage on March 15, 2014, in Dresher, Pa. The ceremony was performed by RIT’s Cursa campus pastor, John Janacek. Twenty-five alumni helped them celebrate.

Are you moving?
If your address changes, you can make sure you continue to receive the University Magazine by reporting your new address to the Office of Alumni Relations. Send an email to alumni@rit.edu or call the office toll free at 866-748-2586. Written change of address notification can be sent to the Office of Alumni Relations, RIT Crossroads Building, 41 Lomb Memorial Drive, Rochester, NY 14623-5603.

Alumni can also keep in touch through the Online Community. Go to www.rit.edu/alumni.
Tiger Cubs

1 Clark Whitney ’70 (GAP) welcomes her fourth granddaughter. Her daughter, Stacy, gave birth to her first girl, Hattie Rae, on Feb. 1, 2014.

2 Richard Hill ’73 (KGCOE) is proud to announce the birth of his first grandson, Liam Lynn Butler, on July 30, 2014.

3 William Doris ’77 (CCE) is proud to announce the birth of his first grandchild, Jacken Charlen DeVoeld, on Feb. 7, 2013.

4 Paul Gebel ’03 (CIAS), ’09 (SCB) and his wife, Violet, welcomed a baby boy, Max Samuel Vestel, on Jan. 25, 2014.

5 Amanda Masiello ’01 (CIAS) and Ed Masiello are proud to announce the birth of their first child, Beau Ewan, on Aug. 14, 2013.

6 Amanda Nauta ’01 (CIAS) and her husband, Craig, welcomed a new baby this past spring, Baos Werd Brandon.

7 Jessica (Harvard) Kuehr ’02 (CIAS) gave birth in January 2014 to her son, Austin Crosby. She and her husband, Adam, live in Los Angeles for nine years. She is currently shooting lifestyle commercial work and is represented by Mergel/In New York City.

8 Paul Golfe ’03 (CIAS), ’09 (SCB) and Abbey welcomed Clara Margaret to their family on May 13, 2014.

9 Bhavna Mehta ’03 (KGCOE) is proud to announce the birth of a baby girl, Arya Mehta, on March 13, 2014. Mehta continues to work at Apple Inc., where she was recently promoted to senior program manager.

10 Tawnyer Cleveland ’04 (CLA) welcomed a baby boy, Ibrahim Qureshi, on Nov. 15, 2013.

11 Stacey (Pryce) Speak ’04 (CIAS) and her husband, Jaret, are proud to announce the birth of a baby girl, Ilisa. She was born on April 15, 2014, and joins her four-legged siblings, Jack and Irena.

12 Philip Mankowski ’03 (KGCOE) and Lauren (Williams) Mankowski ’03 (KGCOE) are proud to announce the birth of their second son, Peter, on Aug. 5, 2014, in Rochester.

13 Amaia Tafolla ’03 (CIAS) and her husband, John, welcomed a baby boy, Jimmie D., on Aug. 13, 2014, in Rochester.

14 Jamie (Sierra) Duewer ’06 (CHST), ’08 (SCB) and his wife, Megan, welcomed a new baby this past spring, Beau Ewan Duewer.

15 Adam Weissman ’09 (KGCOE) and his wife, Aly, are proud to announce the birth of their first child, Colin Gregory, on July 23, 2014.

16 Stacey Houghton ’07 (CIAS) is proud to announce the birth of her second son, Adam John Pabian-Houghton, on Nov. 15, 2013.

17 Leslie Quenel ’08 (CAST) and Jeremy Quenel ’09 (CAST) welcomed a baby boy, Mason Gary Quenel, on Feb. 2, 2014.

18 Elsbeth (Giraldo) McGlone ’07 (NTID), ’09 (SCB) and Todd McGlone ’09 (NTID) are proud to announce the birth of a baby girl, Elly. She was born on May 31, 2014.

19 John Markizka ’13 (KGCOE) and Sarah Lusk are proud to announce the birth of their baby boy, John Luke, on July 11, 2014.

20 Amanda O’Connell ’09 (CAST) and Daniel O’Connell ’09 (KGCOE) welcomed their first child, Emelia Rose, on April 4, 2014.

21 Chiwook Han ’09 (CIAS) is proud to announce the birth of a baby girl, Yuki Helen, on July 4, 2014, in Rochester.

22 Douglas Gaston IV ’10 (CIAS) is proud to announce the birth of a baby girl, Yuki Helen, on July 4, 2014, in Chengdu, China.

23 Isaac Holze ’10 (CIAS) and his wife, Vetrana, welcomed their son, Henry Lee Holze, to the world on July 10, 2014.

24 Robert LaManna ’02 (KGCOE) and Sarah Lusk are proud to announce the birth of their baby boy, Luke John, on July 11, 2014.

25 Sandra (Woods) Jimenez ’11 (MCB) lives in Houston, Texas, with her daughter, Catherine Jimenez, who was born on Dec. 28, 2012.

26 John Markizka ’13 (KGCOE) and Sarah Lusk are proud to announce the birth of their baby boy, John Luke, on July 11, 2014.

27 Kim violin ’12 (CIAS) and her husband, Izar, are proud to announce the birth of their daughter, Emmeline Aubrey, on Oct. 24, 2013.

28 Amanda Russell ’09 (COS), ’10 (KGCOE) and her husband, Emeish, are proud to announce the birth of their first child, Henry Lee Holze, on July 10, 2014.

29 Kelly (Burgess) and Abbey welcomed Claire Madison Jean, on Aug. 13, 2014, in Rochester.

30 Jeremy Quesnel ’09 (CAST) and his wife, Kylynn, welcomed a baby girl, Grace, on April 2, 2014.

31 Michaela, on May 31, 2014.

32 Milo McElroy ’05 (KGCOE) and Sarah McGlone are proud to announce the birth of their third child, Patrick Denno ’06 (CIAS), ’09 (KGCOE), and their fourth child, Jacken Charlen DeVoeld, on Feb. 7, 2013.

33 Michaela, on May 31, 2014.

34 Adam Duewer ’06 (CHST), ’08 (SCB) and his wife, Megan, welcomed a new baby this past spring, Beau Ewan Duewer.

35 Amanda Nauta ’01 (CIAS) and her husband, Craig, welcomed a new baby this past spring, Baos Werd Brandon.

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A sold-out crowd of 10,556 cheered on the men’s hockey team at Blue Cross Arena in downtown Rochester. Boston College beat the Tigers 6-2.

Photo by Colin Huth

Jerry Greenfield, co-founder of Ben & Jerry’s, discussed his business philosophy as part of the Gasser Lecture Series, presented by Saunders College of Business.

Photo by A. Sue Weisler

First-year computer science student Brandon Ball and his parents, Barbara Bennett and Gregory Ball, participated in the Brick City 5K Fun Run and Walk.

Photo by Colin Huth

Members of the 1979 coast-to-coast relay team supported their former coach, Peter J. Todd, as he was inducted into the Athletics Hall of Fame.

Photo by Ken Huth ’88

More than 750 people enjoyed an evening of fun at the Presidents’ Alumni Ball.

Photo by Ken Huth ’88
Comedian Bill Cosby entertained a full house of 1,900 at George H. Clark Gymnasium. Photo by A. Sue Weisler

Dr. Sanjay Gupta, CNN’s Chief Medical Correspondent, spoke as the Student Government Norton Distinguished Speaker. Kathryn Davis, director of programming for Student Government, and Ashley Carrington, Student Government president, presented the practicing neurosurgeon with an RIT orange stethoscope. Photo by A. Sue Weisler

The Golden Circle luncheon paid tribute to alumni celebrating 50 years or more as RIT graduates. Photo by Ken Huth ’88

RIT President Bill Destler and Rebecca Johnson pose with Volunteers of the Year Patrick Talty ’92, ’02 and Lisa Talty ’91, ’97 and Outstanding Alumnae John Bartholomew ’60 along with Alumni Association Board President Ricardo Venegas ’92. Photo by Ken Huth ’88
It’s much more than a donation. It’s my legacy.

"Two of our children graduated from RIT—Sarah in the arts, Will in the sciences. While at RIT, my wife and I saw both become happier, more confident, and capable of finding their way into their careers. Supportive faculty helped our kids become more of who they are, providing guidance and encouragement throughout their time at RIT.

RIT is a special place to our family. But, a great education is expensive and not everyone has the means to make a degree a reality. We decided that if we could provide scholarships so others could get the same RIT experience, we would do so gratefully. So, I contacted my attorney and made a provision to establish a scholarship in each of the two RIT programs that gave our children this great start. To us, it is much more than a donation. It is our legacy."

——Gary Sugarman, RIT Parent, ’11, ’14

A thoughtful gift supports RIT students as they prepare for successful lives and careers. Did you know that . . .

/ You can make a gift that actually increases your income and reduces your taxes?
/ You can make a gift that provides you a stream of income when you retire?
/ You can donate your house, take a deduction, and live in it for the rest of your life?
/ You can name RIT the beneficiary of your IRA and avoid double-taxation?
/ You can make a gift that costs you nothing now by including RIT in your will?

Make your mark—as Gary and his family have done.

To create your legacy, please contact Robert Constantine, director of Planned Giving, at 800.477.0376 or robert.constantine@rit.edu. Please visit us online at rit.planyourlegacy.org.
In MEMORIAM

July 27, 2014
July 9, 2014
Bladergroen ’50 (SCB) Carol W. (Walsh) 1950
Clifford Swick ’49 (SCB)
Peggy M. Cole ’47 (SCB) (GAP)
Lionel Alderman ’42 1942
’41 (SCB) Marilyn F. (Smith) Woodhull (GAP)
Avery D. Piersons ’41 1941
Robert E. Downhill ’40 1940
Lois M. (Yurchzi) Wegman 1934
Alumni

BOOKS

Alumni

1934
Elizabeth K. (Kietz) Stanton ’34 (FAA), May 2, 2014
Luis M. (Tausen) Wegman ’35 (SCB), July 6, 2014
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Clifford Smuck ’69 (SCB), July 20, 2014
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Walter E. Blau ’50 (GAP), July 27, 2014

In MEMORIAM

Lella and Massimo Vignelli: Two Lives, One Vision
Jan Cornelli

This book is a portrait of Lella and Massimo Vignelli, arguably two of the most important designers of the 20th century. It focuses not on their work, but on their lives, relationships, influences, and influence upon many others since their careers began in the 1950s. Adhering to a minimalist and structured method of design, the Vignellis also adhered firmly to the modernist intention of designing for a better society: resourceful use of space and materials, clear communication, lasting quality, logical functionality.

Epictetus: His Continuing Influence and Contemporary Relevance
Edited by Diane R. Gordon and David B. Suits

Epictetus (c. 50-120 CE) is a lesser-known philosopher than other Stoics, yet his teaching is profoundly philosophic. Epictetus was not widely familiar with other philosophers, but would likely have known Socrates’ maxim “know thyself.” These philosophers shared the belief that life requires the exercise of reason to guide us in how we behave. This book is a collection of 13 essays that were presented at a conference on Epictetus held at RIT in April 2012.

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Downtown parade kicks off Spring Weekend

RIT’s Spring Weekend was an annual celebration that began around 1950 and was easily the biggest social event of the school year. The event was held near RIT’s downtown campus and was once described as “RIT’s Mardi Gras” by Reporter magazine. Festivities were kicked off with a large parade through Rochester that was followed by a carnival, a formal dance and a concert. Each year, a different theme was chosen for the weekend.

In 1951, the Spring Weekend theme was “Springtime Along the Mississippi.” A World’s Fair-themed carnival featured booths representing countries all over the world, including Argentina, Ireland, Russia and India.

The following day, more than 1,000 couples danced to the jazzy rhythms of Count Basie in the Columbus Civic Center.

When RIT relocated its campus to Henrietta in 1968, Spring Weekend disappeared. However, the celebration’s spirit lives on in the present day through SpringFest.
Learn, explore, innovate with meRIT—an ongoing webinar series exclusively for RIT alumni

meRIT is a big hit. If you haven’t yet participated in a meRIT alumni webinar, you don’t know what you’re missing. It’s time for you to check one out. Here’s just some of what fellow alums are saying:

- “Thank you RIT for hosting meRIT webinars. Proud to be an alum!”
- “meRIT webinars are a delightful break in my work day.”
- “Great presentation. What a great benefit these webinars are.”
- “Wonderful! One of the best webinars yet! Please keep these coming.”
- “This was my first but I thoroughly enjoyed it. I’ll be back for more.”
- “Thank you for providing this meRIT webinar opportunity. Well done!”
- “Great webinar! Looking forward to the next one.”

Isn’t it time you joined us to find out what you’ve been missing?

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**GROUP PRICING** | **GENERAL ADMISSION & STANDING** | **RESERVED CHAIRBACK**
---|---|---
General Public | $9 | $12
RIT Faculty/Staff/Alumni | $8 | $10
RIT Student | $5 | $10
Youth (12 & Under) | $5 | $6

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

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**MEN'S HOCKEY**

**GENDER ADMISSION SEATING** | **GROUP PRICE**
---|---
General Public | $3
RIT Faculty/Staff/Alumni | $3
Youth (12 & Under) | $2

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

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