

R·I·T

The University Magazine

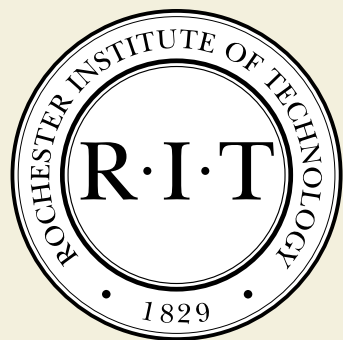
Spring 2016

DRIVEN

All-female racing team builds community, curriculum, connections—and a car

Monumental discovery

RIT researchers on team confirming Einstein's theories



FROM THE PRESIDENT

Our watershed moment: Becoming a 'Doctoral University'

RIT's history is fascinating. Our founding dates back to 1829 when Col. Nathaniel Rochester started the Athenaeum, an association "for the purpose of cultivating and promoting literature, science and the arts." The Athenaeum and Mechanics Institute merged in 1891, bringing under one roof cultural education and practical technical training. And it wasn't until 1955 that we granted our first Bachelor of Science degree.

This year marks another milestone: RIT is now considered a "doctoral university" by the leading national classification of U.S. colleges and universities. The Carnegie Classification of Institutions of Higher Education has changed RIT from "Masters – Comprehensive" to a "Doctoral University." This change occurs when a university grants more than 20 Ph.D. degrees per year, a figure that RIT has exceeded in recent years. In May 2015, RIT awarded 33 doctoral degrees in seven Ph.D. programs, the most in our history.

The movement of RIT into the ranks of the nation's finest colleges and universities is a remarkable story as we take on a more national and international profile.

The Carnegie Classification has been the leading framework for recognizing and describing institutional diversity in U.S. higher education for the past 46 years. The Carnegie Commission on Higher Education developed a classification of colleges and universities to support its program of research and policy analysis.

The Carnegie Classification change also means that RIT will soon be ranked among the "National Universities" by *U.S. News & World Report*, rather than among the top "Regional Universities—North" as has been the case since the magazine began its annual rankings in 1983.

Our ascent into research began in 1999 when we began our first doctoral program in imaging science, the first in the nation. In the 2000s, we added six more in the areas of astrophysics, color science, computing and information sciences, engineering, microsystems engineering and sustainability. Several interdisciplinary doctoral programs are in the planning stages.

For the first time in the university's 187-year history, the word "research" was incorporated into the vision statement of

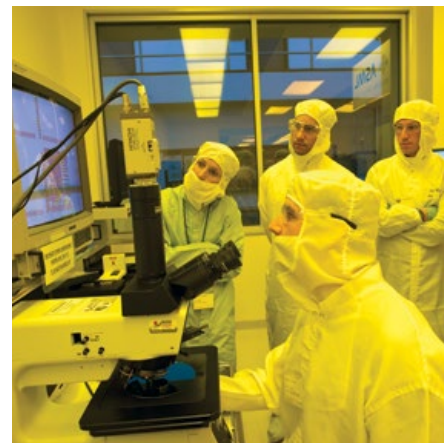


Photo by A. Sue Weisler

RIT has seven doctoral programs, including microsystems engineering shown here.

RIT's 2015-2025 strategic plan "Greatness Through Difference." The vision statement reads: "RIT will be a great world university whose academic portfolio, research agenda, and educational model align with the shifting needs of a complex planet."

Our sponsored research grew by 18 percent in 2015, reaching a record \$62 million in funding. We received 356 new awards from a variety of state, federal, corporate and foundation sponsors. And in the coming year, we plan to do more in areas like cybersecurity, health care technology, photonics and unmanned aerial science.

We are also celebrating the amazing accomplishments of our Center for Computational Relativity and Gravitation, which was a part of the monumental day in the world of science announced in February. Our researches were among the team that proved Albert Einstein's General Theory of Relativity was right! (See the full story on pages 8-9.)

But as we pivot in this research direction, we must never forget our roots. We will remain a student-centered university where the success of all our students continues to be our core mission.

Yours in Tiger pride,

Bill Destler, President
www.rit.edu/president

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RIT students will be the first all-female team at a Formula Hybrid race in May. Co-leader Maura Chmielowiec is seen here.

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Becky Michalski, a third-year mechanical engineering student, sits in the frame of the car being built by an all-female student team. (Photo by A. Sue Weisler)



YOU CAN HELP MAKE THIS HOUSE A HOME.

In early 2014, RIT purchased a private estate home and surrounding grounds adjacent to the west edge of campus with the specific purpose of establishing an Alumni House.



RIT is developing a new space just for YOU—the RIT Alumni House—a place for alumni to feel at home with fellow Tigers while back on campus.

By supporting its creation with a gift today, you will not only help to begin the necessary renovations, but you will also show the RIT community how proud you are of your RIT connections, and how important the RIT alumni impact can be in the coming years.

To learn more information or to make a gift to the Alumni House, please visit rit.edu/alumnihouse.



A career working on space programs

I found the recent winter issue of *RIT: The University Magazine* articles about RIT alumni working on space programs most interesting.

I am also an alumnus of RIT who has spent my entire career working on space programs—all here in Rochester. As an employee of Kodak for over 30 years, I worked on photographic payloads for programs such as the Lunar Orbiter, the Gambit series of photo reconnaissance satellites (now declassified) for the National Reconnaissance Organization (NRO) and two of NASA's Great Observatory Missions.

I was the program manager for the NASA Chandra X-Ray

Observatory telescope program built here at Kodak. Chandra was launched in 1999 aboard the space shuttle Columbia and is still operational.

Kodak sold the Space Systems Division in 2004 to ITT who later made it an independent company named Exelis, which recently was acquired by Harris. As Harris, the company is now responsible for the integration and testing of the next big NASA mission, the James Webb Space Telescope.

Since retirement, I have given several talks locally and at conferences about Rochester's and RIT's contributions to space imaging missions.

Jeffrey A. Wynn '71 (CCE)



The Chandra X-Ray Observatory mounted within the Space Shuttle Cargo Bay.

Brick City Homecoming gives alumnus reason to look back and be thankful

I came to RIT thinking that I would return a stranger. Four years have passed since I graduated, but I was wrong.

We are all our own worst critics, and I am often guilty of being far too harsh on myself. I have never felt more welcomed, more valued, more loved than I do right now.

At last October's Brick City Homecoming, I rediscovered my sense of purpose and belonging. I have never felt so inspired by the potential for tomorrow's RIT—and our role in it as alumni.

I owe so much gratitude to the NTID Alumni Association, NTID, RIT, as well as my NSC and Student Government peers for making every moment of the

weekend as incredible as it was.

It was so good to be able to see so many welcoming faces, both familiar and new. I don't think I can emphasize enough what seeing my RIT family meant to me. You reminded me of why I loved this place so much and why I need to keep on doing what I do every day. You reminded me that hard work, love and dreams can never fade.

It's nice to be welcomed home. And last, but most importantly, I have found within you all a family at RIT. I am forever grateful.

Greg Pollock '12 (professional and technical communication) Student government president from 2010-2012



Photo by Ken Huith

Back row, left to right, are Nick Giordano, current Student Government president; Greg Pollock, SG president 2010-2012; Ritchie; Phil Amsler, SG vice president 2011-2012. Front row, left to right, are James Macchiano, SG president 2005-2006; Kathy Hall, SG office manager; and Ashley Carrington, SG president 2014-2015.

NOTEBOOK

Best value

RIT ranks among the country's best values in private colleges, according to *Kiplinger's Personal Finance's Top 300 College Values of 2016*.

Kiplinger's annual list ranks the top 100 private universities, liberal arts colleges and public colleges.

New this year — a ranking of all 300 colleges. RIT ranked 80th out of 100 on the list of private universities.

Name change

RIT has renamed two undergraduate computing degrees to keep up with the ever-changing domain of computing.

The bachelor's degree in web and mobile computing—formerly information technology—teaches students application development and programming, with a focus on the end user experience.

The bachelor's degree in computing and information technologies—formerly networking and systems administration—takes a broad approach to managing technology, networks and infrastructure. The degrees have an overall focus on using computing technology to address the needs of people in their professional and personal lives.



Civil rights leader Andrew Young gave the keynote address to a full auditorium as part of RIT's Expressions of King's Legacy celebration in January. Young was a close friend and associate of Dr. Martin Luther King Jr.

RIT named one of three gaming hubs

RIT has been named one of three Digital Gaming Hubs in New York state by Gov. Andrew Cuomo's office of Empire State Development. The Digital Gaming Hubs, which also include Rensselaer Polytechnic Institute and New York University, will receive \$150,000 each, per year for three years.

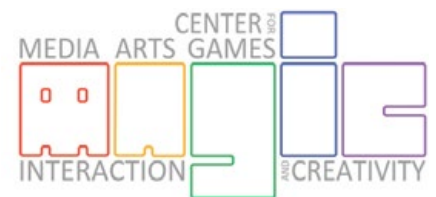
According to a statement from Empire State Development, the hubs' objective is to increase the economic impact to New York state by fostering innovation and creating collaborative activities that spur new games or companies as well as providing resources and mentoring to encourage students and entrepreneurs to enter the growing gaming industry. In addition, the gaming hubs will assist existing companies with gaming concepts, technologies and trends and host events focused on assisting the gaming community.

Funding included in the 2014-

2015 executive budget allowed for the creation of the three hubs. The universities will sustain this designation through May 31, 2018.

"The new Digital Gaming Hubs will encourage students and businesses to create new innovative technologies," said Empire State Development President, CEO & Commissioner Howard Zensky. "This funding will also help entrepreneurs and start-ups develop new products and spur economic growth throughout New York state."

Andrew Phelps, director of RIT's Center for Media, Arts, Games, Interaction and Creativity (MAGIC) and founder of RIT's School of Interactive Games and Media, will lead RIT's management of its gaming hub with the mission of promoting multidisciplinary, entrepreneurial research and devel-



opment activities across the campus and through its network of partners and affiliates. "Through our efforts as a hub, we hope to continue our work in helping transform the regional and state economy into a vibrant and thriving ecosystem for digital media development and production," Phelps said.

RIT's MAGIC Center, established in 2013, is a nonprofit university-wide research and development laboratory and a for-profit production studio that assists in efforts to bring digital media creations up to marketplace standards.

Vienna McGrain '12

Trained officers to have firearm access

Public Safety this year will deploy specially trained officers with access to firearms in an effort to protect individuals on campus. The objective of the armed response is to contain an active violent threat until local law enforcement arrives at the scene.

“Violence on college campuses across the United States has tragically become all too frequent in recent years,” said RIT President Bill Destler. “Sadly, there have been 23 shootings on college campuses in 2015 leading to too many violent and senseless deaths.”

The specially trained RIT officers will be on patrol around the clock on Public Safety shifts through-

out the year and have access to firearms. The highly trained officers will be in a position to respond immediately in a crisis. Firearms will not be visible to the public during daily routine patrols.

The decision was made by RIT leaders after thorough research and evaluation of the benefits and inherent risks. According to FBI data, there were 120 students, faculty and staff who were victims of gun violence on college campuses between 2000 and 2013. Of all the active shooter incidents in the U.S. during that time period, about 24 percent occurred at educational institutions.

“These are sobering statistics and

a recognition that gun violence has become more frequent on college campuses during the past decade,” said Destler.

The FBI data also points out that once an active shooter was confronted by an armed response, no other innocent people were killed.

A national search will be held to hire a new assistant director of Public Safety, who will oversee policy, procedure and training for an armed response.

“RIT Public Safety has a valuable relationship with our campus community,” added Destler. “This new measure will further enhance all of our safety.”

Bob Finnerty '07

B. Thomas Golisano archives find home at RIT

The family of entrepreneur and philanthropist B. Thomas Golisano selected RIT as the home for the leader's personal and professional archives.

The collection is housed with the RIT Archives Collection in The Wallace Center. A multimedia display is on view for the public to see in the atrium of Golisano Hall, the home of the B. Thomas Golisano College of Computing and Information Sciences.

The archives include photos, newspaper clippings, memorabilia and even thank-you notes from children. The collection celebrates Golisano's entrepreneurial impact, political campaigns and reform efforts, and philanthropy, preserving records of his professional and public service experiences.

In the public exhibit, visitors can see a replica of his office, his first briefcase and videos on major aspects of Golisano's contributions to business and the community.

Golisano launched the payroll processing company Paychex in 1971, which employs more than 12,000 at its Rochester headquarters and at 100 locations across the country.

He also has supported a long list of companies such as Pictometry, BlueTie and Safesite and is the former owner of the Buffalo Sabres.

Golisano's personal philanthropy has now exceeded a quarter billion dollars. Golisano's history of giving started when he launched the Golisano Foundation in 1985 with an initial gift of \$90,000.

Today, the Foundation has more than \$32 million in gross assets and has awarded more than \$20 million in grants to nonprofit organizations primarily in a



A multimedia display celebrating B. Thomas Golisano can be found in Golisano Hall. The display is open to the public.

Photo by A. Sue Wiesler

multi-county region surrounding Rochester, serving people of all ages with intellectual disabilities.

Golisano's involvement with RIT makes the university an ideal site for his archives. Along with the computing college, Golisano's support created the Golisano Institute for Sustainability.

“We are thrilled to have the collection at RIT,” said RIT Archivist Becky Simmons.

“He is such an important man to the local community. Scholars, RIT students and community members from across the region can use the collection to learn about Tom Golisano's entrepreneurial success, civic and philanthropic history and his contributions to the community.”

Mindy Mozer

NOTEBOOK

New alumni head

Eric Kuckhoff '84 (chemistry) is the new president of the Alumni Association.

Kuckhoff assumed the role Jan. 1. As president, he leads the Alumni Association Board of Directors and serves a two-year term on the Board of Trustees.

Kuckhoff is vice president and general manager for North America at Cargill in the industrial specialties group.

Graduation speaker

France A. Córdova, director of the National Science Foundation (NSF), will be the keynote speaker for RIT's 131st commencement celebration.

Córdova will speak at the Academic Convocation, set for noon May 20 in the Gordon Field House and Activities Center. Córdova was sworn in as the 14th director of NSF in 2014. Her appointment came after a prominent career in higher education and science.

Return on investment

RIT is being recognized by The Princeton Review for being one of the nation's best colleges for students seeking a superb education with great career preparation and at an affordable price. The company features RIT in the 2016 edition of its book *Colleges That Pay You Back: The 200 Schools That Give You the Best Bang for Your Tuition Buck*.

About Students



Photo by Claire Finnerty

Russell family's icy tradition coming to an end



Photo by A. Sue Weisler

Lauren Russell, a photojournalism major, is the third person in her family to drive the Zamboni at RIT.

For 11 years, there has been at least one Russell driving the Zamboni at RIT.

Lauren Russell, fourth-year photojournalism major, and her two older brothers, Brian Russell '10 (mechanical engineering) and Colin Russell '13 (criminal justice), have

all been Zamboni student drivers at the Frank Ritter Ice Arena. But Lauren will end the sibling tradition when she graduates this spring.

Coming from a family who loved hockey, working at an ice arena was a good fit for all of them. Brian, her oldest brother, started the

tradition when he got a job at Ritter Arena his freshman year. Four years later, Colin came to RIT and was hired at the arena.

When Lauren arrived on campus in the fall of 2012, she asked Colin to put in a good word for her at the ice arena and started working as a rink guard and cashier.

During the spring semester of her sophomore year, she began Zamboni driver training. She is the first female Zamboni driver in 15 years.

During an average night shift, she makes about five cuts between intramural games and supervises the rest of the staff. She also does maintenance work on the ice at the Gene Polisseni Center during the men's and women's hockey games. The job is fast paced and requires moving nets and shoveling snow around the benches during TV timeouts.

"I like working at the games because I get paid to watch my favorite sport," Lauren said. "I also love the people I work with. It really is like a family because we all have each others' backs."

Traci Turner '16



Interession in Rwanda

Nine RIT students from different majors traveled to Africa in January for a 2 ½-week interession study abroad. The visit was part of a spring course aimed at giving students the experience and skills using mapping technology to address real-world issues, including climate change and refugee affairs.

“This was different than other study abroad trips because it’s more about service learning,” said Brian Tomaszewski, an assistant professor in RIT’s Department of Information Sciences and Technologies, who led the trip. Working with the United Nations High Commission for Refugees (UNHCR) Agency, the RIT group was given access to the Kigeme refugee camp—home to more than 18,000 who fled fierce fighting in the Democratic Republic of Congo.

Here, Cassidy Goodwin, a third-year environmental sustainability, health and safety major from Berlin, Conn., teaches refugee guide Gashema Martin how to use ArcGIS Collector, a geographic information systems tool that allows users to input point-based data on a map.

Students with allergies have new way to dine

When Mitchell Goepel was a freshman, he remembers waiting 20 minutes for his gluten-free food at Gracie’s to be prepared. Now with Simply Eats, a food station dedicated to eliminating the top eight food allergens, the fourth-year mechanical engineering student can choose from a variety of dishes any time during lunch or dinner.

“I can actually grab food and be able to eat with my friends without them having to wait for me,” said Goepel, who has celiac disease and enjoys eating the gluten-free chicken patties and pasta.

Providing students who may have a common allergy or intolerance with safe food at their convenience is the main goal of Simply Eats. The menu, composed of more than 400 recipes, eliminates allergens such as wheat, dairy, eggs, soy, peanuts, tree nuts, shellfish and finned fish.

Simply Eats, which opened in the spring of 2014, is one of 10 food stations in Gracie’s buffet style dining hall, which is the main dining location for the residence halls.

“The biggest thing is some people have anxiety about other people knowing they have an allergy or intolerance so we don’t want people to have to come to the operation and wait 20 minutes for their meal,” said Kory Samuels, executive director of dining services.

Aimee Mitchell, assistant manager at Gracie’s, originally researched and tested 250 recipes for the menu. Her wide selection of recipes addresses important nutrient components such as proteins, vegetables, legumes and starches.

Due to the allergens Simply Eats eliminates, the menu naturally offers vegan and vegetarian options. The foods are not heavily processed and contain no animal by-products. Simply Eats also has a variety of ethnic dishes that offer international students a taste of home.

“I’ve always said nobody will come to RIT based on the dining hall, but people will choose not come to RIT based on a dining experience,” said Scott Vadney, general manager of Gracie’s. “When we tell parents that



Photo by A. Sae Weisler

Students can use a tablet inside Gracie’s dining hall to filter out menu items that contain a specific allergen.

we have the Simply Eats bar and taken the steps to eliminate these eight top allergens, it’s a weight off their shoulders. They’re relieved to know one of the primary concerns about their children’s education is going to be met.”

Traci Turner ‘16



Scientific significance

- First confirmed detection of gravitational waves as predicted by Einstein's general theory of relativity.
- First confirmation of the existence of binary black holes.
- First observation of the merger of binary black holes and confirmation of the gravitational wave signal predicted by RIT simulations.
- The discovery marks the dawn of the field of gravitational wave astronomy.

Members of the Center for Computational Relativity and Gravitation include, left to right in the front row, Jam Sadiq, John Whelan, Jason Nordhaus, Monica Rizzo, Carlos Lousto and Manuela Campanelli, director; in the second row, Joshua Faber, Brennan Ireland and Naixin (Chris) Kang; in the third row, Yosef Zlochower, Yuanhao (Harry) Zhang and Richard O'Shaughnessy; in the fourth row, Dennis Bowen and Jacob Lange; and in the fifth row, Zachary Silberman, Hans-Peter Bischof and James Healy.

RIT RESEARCHERS AMONG GROUP WHOSE WORK CONFIRMS EINSTEIN'S THEORIES

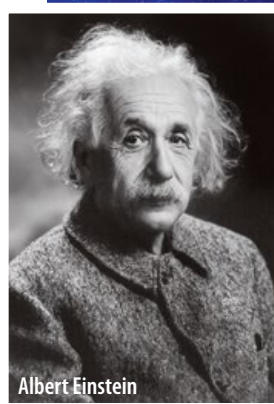
Six RIT researchers are among the authors of a paper announcing what may be the most important scientific discovery in a century—findings that confirm the existence of gravitational waves predicted in Albert Einstein's general theory of relativity.

For the first time, scientists have observed ripples in the fabric of spacetime called gravitational waves, arriving at the Earth from a cataclysmic event in the distant universe. This confirms a major prediction of Einstein's 1915 general theory of relativity and opens an unprecedented new window onto the cosmos.

Gravitational waves carry information about their dramatic origins and about the nature of gravity that cannot otherwise be obtained. Physicists have concluded that the detected gravitational waves were produced during the final fraction of a second of the merger of two black holes to produce a single, more massive spinning black hole. This collision of two black holes had been predicted but never observed.

The gravitational waves were detected on Sept. 14, 2015, at 5:51 a.m. Eastern Daylight Time by both of the twin Laser Interferometer Gravitational-wave Observatory (LIGO) detectors, located in Livingston, La., and Hanford, Wash.

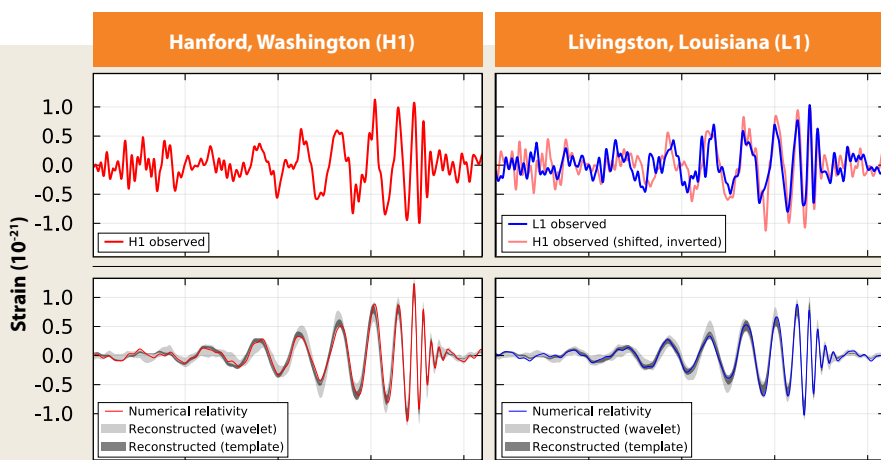
The LIGO Observatories are funded by



Gravitational forces draw two black holes into a cataclysmic tango. The dance ends in a massive collision, sending gravitational waves rippling through space at the speed of light.

the National Science Foundation and were conceived, built, and are operated by Caltech and Massachusetts Institute of Technology. The discovery, published in the journal *Physical Review Letters*, was made by the LIGO Scientific Collaboration (which includes the GEO Collaboration and the Australian Consortium for Interferometric Gravitational Astronomy) and the Virgo Collaboration using data from the two LIGO detectors.

RIT researchers listed as co-authors of the paper are John Whelan, associate professor in RIT's School of Mathematical Sciences and principal investigator of RIT's group in the LIGO Scientific Collaboration; Richard O'Shaughnessy, assistant professor in the School of Mathematical Sciences; Carlos Lousto, professor in the School of Mathematical Sciences and an American Physical Society Fellow; James Healy, post-doctoral



This row shows that gravitational waves were detected on Sept. 14, 2015, at 5:51 a.m. Eastern Daylight Time by both of the twin Laser Interferometer Gravitational-wave Observatory (LIGO) detectors, located in Livingston, La., and Hanford, Wash.

This row shows the numerical model of the gravitational waveform from a pair of colliding black holes as confirmed by RIT researchers. It is based on their earlier work, which in 2005 produced a breakthrough in the field of numerical relativity. The predictions match LIGO's detection.

The signal detected by LIGO (top row) matches the numerical model of the waveform (bottom row) confirmed by RIT researchers and predicted in their 2005 breakthrough science. Figure adapted from Abbott et al, *Physical Review Letters* 116, 061102 (2016).

research fellow; and graduate students in RIT's astrophysical sciences and technology program Jacob Lange and Yuanhao Zhang.

They are all members of RIT's Center for Computational Relativity and Gravitation, a research hub in the College of Science and an RIT Research Center of Excellence, led by Manuela Campanelli, director of the center, professor in the School of Mathematical Sciences and an American Physical Society Fellow.

"RIT is thrilled that our researchers played such an important role in this collaboration's profound discovery," said RIT President Bill Destler. "Their commitment to their field and to their research exemplifies what we set out to do at RIT. We are delighted that our university has been able to facilitate their work and look forward to supporting them as they continue their research."

The LIGO paper prominently cites 2005 landmark research done by Campanelli and her team on binary black hole mergers. Based on this milestone work, Lousto and Healy numerically modeled the merger of a pair of black holes and simulated gravitational waveforms that match the one which LIGO detected.

Campanelli's group was one of three teams to solve Einstein's strong field equations describing the inspiral, merger and ringdown of binary black hole systems—and simulate colliding black holes on a supercomputer. Her collaborators were Lousto and Yosef Zlochower, an associate professor in RIT's School of Mathematical Sciences, and Pedro Marronetti, program director of the division of gravitational physics at the National Science Foundation.

Hans-Peter Bischof, RIT professor of computer science and a member of the center

and the LIGO Scientific Collaboration, has produced scientific visualizations of their seminal research and subsequent work.

"The LIGO announcement is both a historical and a very emotional moment in science, especially for us, since our research contributed to the identification of the first gravitational wave observation as a binary black hole merger," Campanelli said.

Whelan and O'Shaughnessy specialize in analyzing gravitational wave data and developing methods for detecting and interpreting gravitational wave signals.

"This discovery kicks off the field of gravitational wave astronomy," said Whelan. "For the first time, we've observed the universe through the new window opened up by Advanced LIGO."

O'Shaughnessy's research connects the gravitational wave signatures observed by LIGO to the astrophysical sources that produced them. He estimates both the nature of these sources—in this case, a binary black hole—and how they formed.

"LIGO has just made the first direct observation of binary black holes," O'Shaughnessy said. "The next year or two, as LIGO accumulates more data and makes the first census of binary black holes in the universe, will really transform our understanding of how these systems are made."

O'Shaughnessy works closely with Lousto and Healy, who use supercomputers to produce accurate numerical simulations of binary black hole systems like the one detected by LIGO.

"It is incredibly exciting to see that our predictions for the merger of two black holes have been so neatly verified by direct observation," Lousto said.

Black holes are massive stars that have collapsed into compact objects whose gravity

is too strong for light to escape. Collisions of black holes produce gravitational waves that ripple through space at the speed of light.

The detection of the first gravitational wave follows the centennial celebration in 2015 of Einstein's general theory of relativity, which predicted the existence of these waves. They result from strongly gravitating masses like black hole or neutron star mergers, highly spinning neutron stars and stellar explosions—and from the Big Bang.

Although these waves carry extreme amounts of energy, they couple weakly to matter, and only highly sensitive detectors like LIGO can observe them. Analysis of the shape of gravitational waves can reveal information about the systems that generated them.

LIGO research is carried out by the LIGO Scientific Collaboration, a group of more than 1,000 scientists from universities around the United States and in 14 other countries. More than 90 universities and research institutes in the collaboration develop detector technology and analyze data.

The discovery was made possible by the enhanced capabilities of Advanced LIGO, a major upgrade that increases the sensitivity of the instruments compared to the first generation LIGO detectors, enabling a large increase in the volume of the universe probed—and the discovery of gravitational waves during its first observation run.

Susan Gawlowicz '95

To learn more

For more information about the research, go to <http://ccrg.rit.edu>.



For 35 years, Jay Blumenfeld '74 (professional photography) has owned Smart Alex, a Chicago-based manufacturer and distributor of greeting cards known for its humorous and edgy cards.

RIT/NTID grads show who's boss

Graduates of RIT/National Technical Institute for the Deaf are making their mark when it comes to being the boss and running their own businesses. Among the roughly 1,200 self-reported deaf business owners in the United States, RIT/NTID graduates make up nearly one-fifth of that number, with more than 200 graduates owning a business. According to W. Scot Atkins, a nationally recognized deaf entrepreneurship expert and business studies professor at NTID, that number is expected to skyrocket. Atkins said that with enhanced services and training provided by colleges like NTID, a strong university infrastructure that supports deaf entrepreneurship and the development of initiatives to further connect deaf students with successful business mentors, more deaf and hard-of-hearing graduates will realize their potential when it comes to owning a business. Meet three RIT/NTID graduates whose businesses have thrived under their leadership.

Greeting card distributor

Jay Blumenfeld '74 (professional photography) admits that two things have greatly improved the odds that his greeting card company remains successful—his twisted sense of humor and his grandmother, Ruth, who, at age 91, was the cover girl for his first line of cards.

For 35 years, Blumenfeld has owned Smart Alex, a Chicago-based manufacturer and distributor of greeting cards, with more than 19 million cards sold. And Blumenfeld, who is a master of “pushing the envelope,” so to speak, happily walks the fine line between sidesplitting humor and sheer irreverence.

Raised in Minnesota, Blumenfeld said he believes in destiny, especially when he considers the unusual path he took on the way to becoming a greeting card mogul. After earning his photography degree from RIT/NTID, he planned to use his collection of images to craft a coffee table book on alternative lifestyles.

“I pictured folks smiling at topics that were often considered taboo,” he said.

“When I showed the idea to art directors and publishers, they all said, ‘Why don't you do greeting cards instead?’”

Growing up, Blumenfeld said, he found inspiration in the creativity of Peter Max, Andy Warhol and others like them who broke the mold and challenged the status quo. And in true entrepreneurial fashion, Blumenfeld has learned a classic survival technique—embracing the evolution of the industry. The company recently closed its brick-and-mortar warehouse and is now a print-on-demand business, with orders processed online and shipped from a fulfillment center. He has also embraced the challenges that he has faced throughout his decades as



Photo by Mark Benjamin

Philip Rubin, a former RIT/NTID student, has owned the architectural firm Corey Design Studio in Palm Springs, Calif., for 30 years. He credits his time at NTID for helping him to develop leadership skills needed to start a business.

an entrepreneur.

“In the early 1980s, there wasn't much in the way of technology to help me,” he said. “There were no fax machines, pagers, email, relay services or videophones. I had to rely on hearing people to make phone calls. But today, with all of the advanced technology, there is little I can't do as a deaf person.”

One thing Blumenfeld said hasn't changed is the popularity of his first card model, Grandma Ruth. “She seems to be impervious to the changing times and trends. Over the past three decades, she has appeared on millions of greeting cards, and her cards have never fallen off my best sellers list.”

Architectural firm owner

It was 1985 and Philip Rubin's last straw came when the owner of the firm he was working for refused to allow him to interact with the clients, claiming the clients would be inconvenienced.

Until then, Rubin hadn't considered running his own architectural firm, but the events of that day, along with some people—hearing and deaf—who questioned his professional abilities, opened his eyes to the possibility of making his own business decisions, ensuring workplace flexibility and maintaining control of his designs.

Today, Rubin is celebrating 30 years as



Photo by Mark Benjamin

Philip Rubin provided recommendations prior to the construction of NTID's Rosica Hall, an \$8 million, two-story, 23,000-square-foot building.

owner of Corey Design Studio in Palm Springs, Calif., where he utilizes the concepts of accessibility, feng shui, flow and function in his environmentally conscious residential and commercial/industrial designs. To date, he has worked with more than 100 clients across the country.

In the early 1970s, Rubin, a Chicago native, studied in NTID's associate in architecture program. He continued to study at Cornell University for his bachelor's degree. He credits the blend of deaf and hearing students living and learning together at NTID, as well as support services, for helping him develop the leadership skills he needed to branch out on his own.

"In the beginning, it was tough," recalled Rubin. "When I started my own business, I had to pool some money with another deaf entrepreneur to hire a secretary to handle telephone calls. I sometimes resorted to paper and pen or drawings for communication. Now with email, texting and videophone relay service, my life is so much easier."

Rubin also believes that today's deaf entrepreneurs may be able to find success because hearing people are more familiar with deaf culture and there are more technologies to harness. "The attitudes of hearing people toward the abilities of deaf people continue to improve thanks to public media including television, movies, print media and social media," he added.

Depending on his clients' listening abilities, Rubin uses his own speaking and lip reading skills, or sometimes a text pager or drawings for communication. He sometimes utilizes gestures to make a point— "thanks to my theater background at NTID and the National Theater of the Deaf." His husband also serves as an interpreter.

"The principles of entrepreneurship apply to everyone; it doesn't matter if you're deaf or not," he said. "If there's one thing that I have learned throughout this whole experience, it's to own the business and not to allow it to own you."



Michelle (Johnston) Osterhout '93 (graphic design) uses a mixed media approach to creating her unique artwork for ~elle's expressions, the business she has owned for 10 years.

Jewelry designer

Since she was a child, Michelle (Johnston) Osterhout '87, '93 (SVP, graphic design) has been fascinated with creating unique jewelry and artwork. She would often pick up broken glass and metal she found lying in the road and save them for later when she had time to incorporate them into one-of-a-kind pieces.

"I remember one day that I came across pretty beads at a garage sale," recalled Osterhout. "I pieced them together with the lost-and-found metal and made a simple necklace tied using fishing line in a crude knot—with my teeth. I gave it to my mother. I was so proud. That was the beginning."

Osterhout still maintains that same passion for handcrafted pieces that can't be replicated and, for the past 10 years, has owned ~elle's expressions in her native Michigan, her vehicle for designing, creating and sharing personalized jewelry and artwork with the public. She sells her pieces at art shows annually and also donates several pieces to nonprofit organizations to boost their fundraising efforts. She also sells her pieces to private collectors.

Growing up in a deaf, artistic family, she was encouraged to develop her homegrown talents. At RIT, she enjoyed classes in met-

alwork, printmaking, drawing and photography—all useful skills for her metal jewelry designs, cherry wood necklaces, stained glass projects and other eye-catching sustainable and "upcycled" art.

"I don't have a drawing beforehand, but I create my art from what I see in my mind's eye. I find art as a way to close the gap between different worlds—to help educate and bridge communities, and to help show that we are alike, yet different in ways that we can respect."

Osterhout often still employs the same techniques she used when she was young.

"The windows I create are not your average stained-glass artwork, but rather glass that I find—bowls, cups, plates, trays, store-bought glass or broken glass that I find or break myself. It's all art."

And she has learned a few newer lessons along the way. "If you find it in your heart to own a business, then do it," she says. "The sky is the limit. I've learned to overcome obstacles when the mind says I can't. And while it's true that sometimes what you study in college doesn't turn out to be what you desire, you should remember that it will lead you to the highway—that is your life."

Vienna McGrain '12

Throughout history many have headed out west—pioneers, hippies, techies, and now . . . **RIT.**

On July 20–22, we are setting our sights on the Golden State and will be making visits, hosting events, and getting to know our alumni in the **Silicon Valley** area.

Be a part of RIT's "westward expansion." To request a visit, learn more about the events happening in the area or to let us know what you've been up to, please visit rit.edu/RITwest.

Be a part of our big trip west!

ALUMNI
ASSOCIATION
R·I·T

The world experienced a Eureka moment when spectral imaging shone a light on copies of Archimedes' mathematical treatises—and the only surviving version of *On Floating Bodies* in Greek. RIT imaging scientist Roger Easton and his collaborators recovered and enhanced the hidden text in a decade-long project.



Finding hidden text in historical documents

Roger Easton, professor of imaging science, is the go-to guy for imaging cultural artifacts in various states of deterioration. He and his students have enhanced manuscripts all over the world.

The direction of RIT professor Roger Easton's research changed in 1998 when a manuscript scholar working for Christie's of New York came to the Chester F. Carlson Center for Imaging Science with a palimpsest in her backpack.

Underneath the text of a 12th-century Christian prayer book lay the erased 10th-century transcriptions of mathematical treatises written by Archimedes in the third century BCE. The palimpsest, or overwritten book, was bound from random pages of discarded manuscripts scraped clean. Copies of Archimedes' writings had wound up in a medieval recycling bin.

The erased manuscripts in the palimpsest include the only extant copy of Archimedes' *Method of Mechanical Theorems* and the only version of his best-known work, *On Floating Bodies*, written in the original Greek. The Christie's scholar wanted a sampling of images from the seven treatises for the auction catalog, and she needed the RIT team to disentangle and enhance the undertext.

Easton spent one day that August imaging the manuscript with the late Robert Johnston, archeologist and retired RIT dean of the then-College of Fine Arts. Their collaborator, Keith Knox, then a scientist at Xerox Corp., helped. His sister-in-law at Christie's had referred the scholar to the group.

They captured a sample of images from the manuscript under ultraviolet and infrared light and processed the information to reveal text and diagrams containing Archimedes' concepts.

The manuscript sold at auction for \$2 million and spent a decade under conservation at the Walters Art Gallery, now Museum. The preservation of Archimedes' treatises—and other important historical and philosophical writings recovered on the palimpsest—culminated in a 2011 symposium and exhibi-

tion and a two-volume catalogue of images enhanced largely by Easton and Knox.

The project gained RIT entry into an inner circle of scholars and conservators. Today, Easton is the go-to guy for imaging manuscripts, maps, musical scores and other cultural artifacts in various states of deterioration.

Demand for the digital recovery of historical artifacts has taken Easton to Egypt, England, France, Germany, the Republic of Georgia, Italy and India to image documents too precious and fragile to move.

He and his students have enhanced religious manuscripts found in a back room at St. Catherine's Monastery in Mount Sinai, Egypt, the African diaries of Victorian explorer David Livingstone and the 15th century Martellus Map, which may have influenced Christopher Columbus. *Discover* magazine ranked the multispectral imaging of the Martellus Map at Yale University as No. 74 in its list of the top 100 science stories of 2015. Chet Van Duzer, an independent scholar, led the project.

"The Archimedes palimpsest was the driving force that showed people what could be done and also taught us how to do it," said Easton, a professor of imaging science. "We had to learn how to collect the data better and process it. The Archimedes is arguably the most significant surviving manuscript in the history of science."

Urgent need

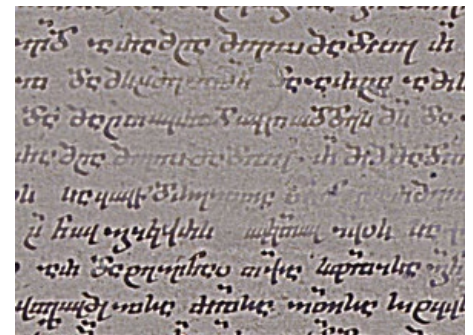
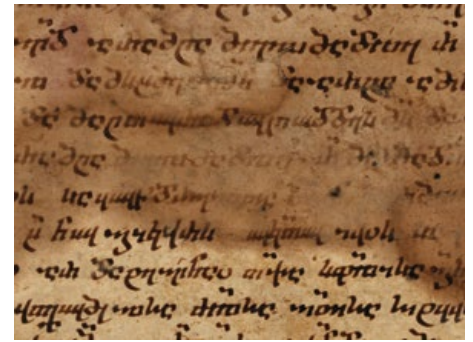
Spectral imaging recovers faded or erased text by capturing details about the ink and the parchment at different wavelengths. And because different wavelengths of light convey information unique to that spectrum, traces of iron ink, for instance, appear one way in infrared light, another way in ultraviolet, and, perhaps, not at all in visible light. Multispectral imaging collects the different



Scholars were unable to read the cartouche on Henricus Martellus' World Map until Roger Easton processed the images.



Roger Easton was recruited to work on the "New Finds" collection of manuscripts discovered at St. Catherine's Monastery in Egypt.



Details were recovered on this water damaged manuscript at the National Archives of Georgia in Tbilisi in the Republic of Georgia.

information and recombines them into composite spectral signatures.

Easton uses the near-infrared wavelength to reveal ink in darkened or charred parchment and the ultraviolet wavelength to enhance the visibility of faded text with fluorescence. Instead of reflecting light, a document imaged under ultraviolet absorbs and re-emits light, making the parchment glow beneath the ink.

The collaborator's imaging system has evolved since the early days of the Archimedes project. The current setup includes a 50-megapixel digital camera, a spectral lens that provides a sharp focus from near ultraviolet to near infrared wavelengths, and different panels of light emitting diodes in 12 bands of color. The camera has optical filters that allow illumination of the object with one color and imaging with another.

"War and climate are the two biggest threats to these documents," Easton said. "Mali rebels burned the public library in Timbuktu, while ISIS did the same in Mosul (Iraq). There is an urgent need to preserve and document and to have multiple repositories of data."

One of his collaborators, Gregory Heyworth, a humanities professor at the University of Mississippi, estimates that Europe alone has 60,000 manuscripts in need of attention.

Easton thinks the number is modest. The overwhelming amount of work to be done is compounded by the lack of trained

people to do it, he said.

"The Archimedes took us 10 years. That was one manuscript, 177 leaves. It had lots of issues. Then, 161 palimpsested manuscripts at St. Catherine's Monastery. We started out planning for 135, but we found more during the imaging over the course of the five-year project."

A happy accident

The emerging field of spectral imaging of historical documents gives RIT an opportunity to capitalize on its imaging expertise and become an international leader and a resource in this area, said David Messinger, director of the Center for Imaging Science.

"We could develop new imaging modalities and new image processing tools and techniques that could be transitioned to the teams that go out into the field," Messinger said. "Funded graduate students could be doing the cutting-edge research and permanent staff could support both the students and people outside RIT."

Already students are making a difference.

During work on the Archimedes palimpsest, Kevin Bloechl '12, '14 (imaging science) developed processing techniques that Easton now applies to every new project. The story is one of Easton's favorite anecdotes.

At the time, Bloechl, then a first-year student, asked Easton for something to do over the 2008 winter break instead of bagging groceries. Easton had just received an email from the curator at Walters Art Museum

asking him to spend his holiday working on a section of the Archimedes palimpsest the scholars wanted to read. Easton handed the project to Bloechl.

"I said, 'Here. Go do this,' figuring he wouldn't have any luck," Easton said. "Within four hours, he stumbled upon it. With those images we were able to recover the text that was completely invisible to our normal methods. The scholars described the results as 'miraculous.'"

Bloechl used one color image composed of red, green and blue light generated by fluorescence from the ultraviolet illumination. The text became legible to scholars after processing those three bands of the color image.

"It was the red-green-blue difference where the text was but only in this one undertext," he said. "This was a commentary on Aristotle's 'Categories' that was part of the palimpsest."

His breakthrough changed Easton's approach. From then on, Easton always imaged the color of the ultraviolet fluorescence. The manuscript absorbed the ultraviolet and emitted light mostly in the blue, some in the green and a little in the red, Easton explained.

Bloechl describes his contribution as a happy accident.

"The pages of the palimpsest had been imaged under illumination at various wavelengths, and all of these wavelengths were being used in processing," he said. "I forgot to include all of the wavelengths on one attempt.



Japan was hidden in the murk on the Martellus map. Student Kevin Sacca used sophisticated image processing techniques to pull details from the map.

This yielded the initial results that I'd come up with, and noticing improved results, I continued to use this processing over a full page of the palimpsest."

David Kelbe '10, '15 (imaging science) is another student who has advanced the science of imaging historical documents. Kelbe, now a research scientist at Oak Ridge National Laboratory, introduced principles of remote sensing to the statistical analysis of different spectral colors. His techniques analyze the different brightness and wavelengths of light and recombine them to accentuate the contrast of the undertext, he explained.

"Remote sensing has benefited from huge amounts of resources and development over the last decades for the intelligence community," Kelbe said. "The cultural heritage domain doesn't have that expertise, but we can bring the same methods and technology to this domain and there is a lot of potential there."

Kelbe will continue teaching scholars in Vienna and Athens to image documents they wish to recover. He is also ensuring continuity at RIT by teaching his techniques to fourth-year imaging science undergraduates Liz Bondi and Kevin Sacca.

Sacca is exploring solutions for scholars with his senior project. He is developing an inexpensive portable imaging system for scholars to use on site. Sacca will demon-



Roger Easton's collaborators Keith Knox, center, and alumnus David Kelbe '10, '15, right, near Mount Sinai, Egypt, with their guide.

strate a prototype of his imaging-software tool kit at the Imagine RIT: Innovation and Creativity Festival on May 7. Easton looks forward to Sacca's results.

Messenger sees the potential to connect the dots among the College of Science, the College of Imaging Arts and Sciences, the College of Liberal Arts' museum studies and digital humanities and social sciences programs, and the Cary Graphic Arts Collection in The Wallace Center. Steven Galbraith, curator of the Melbert B. Cary Jr. Graphic Arts Collection, proposed and championed the idea.

This fall, a new Laboratory for Imaging of Historical Artifacts was established by the Chester F. Carlson Center for Imaging Science with \$300,000 from the Chester and Dorris Carlson Charitable Fund. The laboratory will position RIT to advance the science behind imaging historical documents and train more people.

"With the number of manuscripts that need imaging, we need many more systems and many more groups out there doing this work," Easton said. "We need tech-savvy scholars who can image documents and affordable, user-friendly equipment for them to use. And we need to close the loop between scholars and scientists. It's really an example of how the humanities and the sciences can work together."

Susan Gawlowicz '95

Past projects

Cultural heritage objects imaged:

- Palimpsests (erased and overwritten manuscripts)
- Archimedes palimpsest 10th century
- Syriac-Galen palimpsest ninth century
- St. Catherine's Monastery ("New Finds" project administered by the Early Manuscripts Electronic Library)
- David Livingstone's African diaries
- Scythia, 11th century palimpsest, from the National Library of Austria
- Codex Vercellensis ("Codex A")
- Les Eschéz d'Amour (The Chess of Love), a 31,000-line, 14th-century French epic poem damaged in 1945 during bombing raids on Dresden

Maps:

- Vercelli Mappamundi c. 1220
- Waldseemüller Cosmographica Universalis 1507
- Martellus World Map c. 1491

Coming up

Roger Easton will present his research this year at several forums. He and collaborator Keith Knox will present the keynote address at the Imaging Science and Technology Society: Digital Archiving Conference at the National Archives in Washington, D.C., April 20, and participate in a forum about the Syriac Galen palimpsest in Philadelphia April 29-30.

Robert Johnston's legacy

RIT's foray into the spectral imaging of historical documents was initiated in the 1990s by the late archeologist Robert Johnston, a former dean of RIT's College of Fine Arts and director of the Chester F. Carlson Center for Imaging Science from 1992-1994.

He was among the first to suggest the use of digital imaging technology to decipher the Dead Sea Scrolls, ancient Jewish texts that hold clues to the development of Christianity.

RIT's contributions were featured in documentaries produced by British Broadcasting Corp. and the Discovery Channel celebrating the 50th anniversary of the scrolls' discovery.



Learning from experience

RIT partners with charter school to prepare students for college

Rochester Prep High School (RPHS) ninth and 10th grade students don't seem to mind getting up in the pre-dawn hours, donning uniforms and catching the bus for the long school day that runs from 8 a.m. to 4:10 p.m. And they simply shrug at the mention of an extended 190-day instructional year that begins in late August and finishes at the end of June.

"I love coming to school," said Jahnury "J.J." Acosta, a self-professed ninth-grade "geek" with a 93 average who said he would love a career in video game design. "RIT piqued my interest in the fourth grade and I knew it would be the right place to study animation and programming. That's where I want to be after high school."

Real city kids, real learning gains and real advantages are strong indicators of RIT's commitment to urban education at its partner charter school at 175 Martin St. Since opening its doors to 40 freshmen in fall 2014, RPHS, run by Uncommon Schools, is on a four-year growth spurt to encompass nearly 500 students in grades nine-12 by 2018.

Serving mainly low-income families, the majority of which are black and Hispanic, the school operates independently from the Rochester City School District and is publicly funded so students do not pay tuition.

"RIT's partnership with Uncommon Schools is a unique collaboration between our university and Rochester city students

currently in the charter school system," said Kit Mayberry, RIT vice president for strategic planning and special initiatives.

"Our ultimate vision is to teach these students the fundamentals of college preparedness, offering them the resources and support to bridge the gap so they can attend a university of their choice and become first-generation college graduates. We are in this for the kids; we want them to succeed."

The university's alliance with Uncommon Schools was made possible by a donation from RIT trustee Ronald L. Zarrella, former chairman and CEO of Bausch & Lomb, who is funding RIT's contributions to the partnership.

During the past two years, RIT has taken an active role in providing faculty, student tutors, advisement on curricula, and exposure to courses and careers in STEM fields of science, technology, engineering and math.

RIT also launched a digital art class led by teachers associated with the College of Imaging Arts and Sciences, Charles Doerflinger '87, '15 (graphic design, visual arts) and Kristin Nastav. As Doerflinger described the course, "Art is required for ninth and 10th grades, but we added technology to introduce students to computers, software, programming and game design."

Helping them manage classroom activities are CIAS undergraduates—including Rachel Dominic, a third-year advertising photography major from Baldwinsville, N.Y.

"I like helping the students with the design projects, but sometimes there's a little bit of a frustration level because it may be their first time using a computer," said Dominic. "From learning how to turn it on and signing in to learning Photoshop is a huge learning curve."

Nastav said Uncommon Schools' growth model, adding a new class to the high school each year, has worked well.

"Design is my element, but the whole inner-city aspect is a real challenge in teaching because many students experience social and emotional issues beyond their control," she said. "In the classroom we provide them with structure and discipline and give them clear directions so they know what's expected of them."

Or as Caton Conde, a 10th-grade English Language Arts teacher said, "Consistency is key at Rochester Prep and we have a set protocol for behavior; we don't operate on excuses. We want students to have a rich high

school experience and deep down they know we have their best interests at heart."

Under the helm of Principal David McBride and Director of Operations Laura Wilkinson, RPHS is results-driven—with a focus on professional development for teachers and a meticulous use of data to track student achievement and target resources when needed. The staff fully recognizes they are there to educate the hardest-to-educate kids, who are statistically behind.

"We are a school, a place to learn, so every day is a chance to get better and smarter," said Michael Sherry, associate chief operating officer for Uncommon Schools in Rochester. "RIT is an incredible partner in helping us close the achievement gap for these students—and showing them that the world is a much bigger place."

The bigger place, of course, is having opportunities to navigate the RIT campus and visit classrooms, labs, dining halls and sports facilities.

Tenth-grader Justice Marbury is on the RPHS-JV basketball team and uses the Gordon Field House as an after-school practice site several times a week. She also participated in a special photojournalism project led by RIT Professor William Snyder '81 (photography), photojournalism program chair in the School of Photographic Arts and Sciences.

"We first had to learn how to use a camera, and then took a field trip to Hemlock World's Fair to take pictures and had to go up to people and interview them," said Marbury. "The experience forced me to make a direct connection with someone I didn't know—and the opportunity made me realize I'd like a career in photojournalism."

Jordyn Turner, a ninth grader with a 95 average, said she enjoys field trips to RIT. "You can get lost there," she said with a laugh. Her interest is writing. "I want to go to Harvard or Yale."

As Anna Hall, chief operating officer of Uncommon Schools, said, "The question always is, are we doing the right thing in order to change the trajectory of Rochester Prep students and education in Rochester?"

"We don't have all the answers. But with RIT's incredible commitment, resources and high-quality, innovative approach to education, we are seeing great things happen. It can only get better."

Marcia Morphy

A Raising his hand for assistance in the RIT-designed digital arts class is Jaden Hayes.

B Rachel Dominic, right, with Areiona Moultrie, is one of the RIT undergraduate classroom mentors from the College of Imaging Arts and Sciences.

C RIT alumnus Charles Doerflinger, '87, '15 (graphic design, visual arts) is a new faculty member at Rochester Prep High School.

D Tenth grader Justice Marbury, right, during a JV basketball practice session at RIT's Gordon Field House.

E Michael Sherry, associate chief operating officer for Uncommon Schools, with graphic design teacher Kristin Nastav.

F Ninth and 10th grade students, including Nia Price, are learning the basics of Photoshop.

Hot Wheelz co-leader Maura Chmielowiec, a fifth-year mechanical engineering student, was one of the first students to join the team five years ago.



DRIVEN

All-female racing team builds community, curriculum, connections—oh yeah—and a car

When RIT students arrive at the Formula Hybrid competition at the New Hampshire Motor Speedway in May, they will make history.

The 38 women will be the first and only all-female team at the event, hosted by the Thayer School of Engineering at Dartmouth College. They will compete in the electrical division against universities such as Georgia Institute of Technology, Tufts, Yale and Princeton in a single-seat electric racecar that they built from the ground up.

The undergraduate students are doing all of the engineering, welding and sourcing of components by themselves, as well as negotiating sponsorship deals, crowdsourcing and making a project management plan.

But their story is bigger than one competition. Participants in the 5-year-old team have landed co-ops and full-time jobs. The effort has helped blossom RIT's partnership with companies, enriched the curriculum, encouraged multidisciplinary learning and strengthened ties with alumni.

And it is helping women break into an industry where they hold only about 25 percent of the jobs, according to the U.S. Bureau of Labor Statistics.

"I hope they understand how big of an accomplishment it is just getting to the competition," said Alba Colón, program manager at General Motors and lead engineer for Chevy Racing, which is behind NASCAR stars Jeff Gordon, Danica Patrick and Dale Earnhardt Jr. "Little girls are going to say, 'one day I want to do that. I want to be like them.' What they are doing is a big deal."

Making a team

When then-director of Women in Engineering at RIT Jodi Carville '83 (industrial engineering) heard that President Bill Destler



In 2012, Maura Chmielowiec, then a freshman, drove the Hot Wheelz car 100 meters in just under six seconds to win the Imagine RIT: Innovation and Creativity Festival competition. Hot Wheelz had just formed a few months earlier.

was adding an electric vehicle dragster race to the 2012 Imagine RIT: Innovation and Creativity Festival, she thought that the female engineering students would enjoy a hands-on activity outside of their classes.

Carville pitched the idea of an all-female team to Harvey Palmer, dean of the Kate



Jodi Carville

Gleason College of Engineering, who gave his support. She then sent an email to students to see who might be interested.

Maura Chmielowiec, a first-year mechanical engineering major at the time, was one of the first to respond. Chmielowiec fell in love with cars when she was 12 years old. She had won a contest through her local hardware store for an all-access NASCAR extravaganza at Watkins Glen, N.Y.

"I was mesmerized," remembers Chmielowiec, who grew up in Batavia, N.Y. "The smells, the sounds, and watching everyone put the cars together. That is when I ultimately knew what I wanted to do."

By the age of 14, Chmielowiec had purchased a junky sports car, a black 1986 Nissan 300ZX, for \$2,200 with money she made mowing lawns. She didn't know much about cars but her dad gave her a set of mechanics books and she would read them every day after school. The car was running by the time Chmielowiec could drive.

She was one of about 10 women who volunteered for the project and one of five who did the majority of the work. Carville recruited Kathleen Lamkin-Kennard, a mechanical engineering associate professor, and Martin Schooping, senior project manager for the Center for Integrated Manufacturing Studies and the New York State Pollution

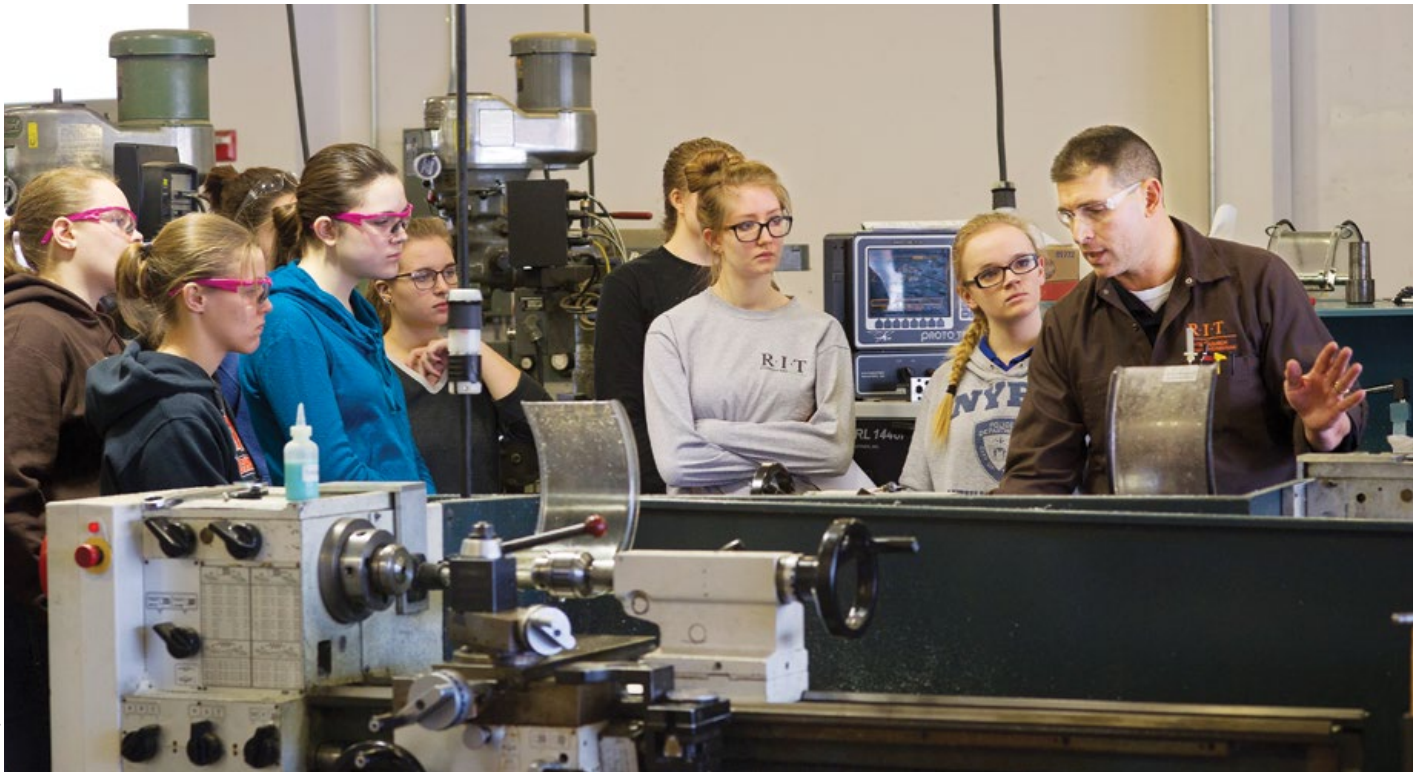


Photo by A. Sue Weister

Jan Maneti, operations manager for the Department of Mechanical Engineering, instructs team members in the machine shop. From left to right are undergraduate students Maura Keyes, Missy Miller, Elise King, Kayleen Welch, Annika Garbers and Amiee Jackson.

2013



Maura Chmielowiec drove this modified children's car in the 2013 Imagine Festival.

and brother when he was 8 years old and had participated in past Imagine challenges involving an electric trike, became the technical adviser.

The women came up with a team name, Hot Wheelz, and had a graphic design student create a logo.

On May 5, 2012, the freshman Chmielowiec drove the hot pink car 100 meters in just under six seconds to win the e-dragster race. "The car was designed to do one thing and that was go fast," Lamkin-Kennard said.

Chmielowiec said she was picked to drive because she was the most confident behind the wheel. The car was a bit on the dangerous side because it was controlled only with an on/off switch. Chmielowiec had to glide to a stop.

"We learned that we needed other safety mechanisms in the car, like brakes," Carville said, laughing.

More importantly, they learned that Hot Wheelz had all the ingredients to become something special.

The next level

Destler changed the Imagine race the following year to an e-durance challenge. Teams had to buy a new or used children's elec-

tric toy vehicle and modify it to become a competitive e-vehicle. The winner of this race was the team with the most laps completed during the allotted time.

The Hot Wheelz team modified a children's Power Wheels Escalade and Chmielowiec took the wheel again. The team came in third place overall out of 15 teams and won the event's innovation award. The real win, though, was an increase in participation to close to 20 women.

One of the new recruits was Jennifer Smith, then a second-year mechanical engineering student from Sidney, Maine, who grew up watching her father restore old cars. Smith joined because she was looking for a hands-on engineering activity. She learns more by doing rather than by reading a textbook, she said. She stayed because she liked the mentorship from the older girls.

Mentorship has always been the key ingredient for the team, Carville said. The younger girls rely on the older students to help them design and build the car and to help them with their schoolwork, from homework to picking classes. All team members play a hands-on role and the team leaders make it a priority to create a risk-free environment.

"It's not just about building a car, it's building a sense of community," Carville said.

Prevention Institute, to help with the project, and she began raising the meager funds they needed for the job.

They borrowed Lamkin-Kennard's son's combustion go-cart and converted it to an electric vehicle. Schooping, who ran a part-time snowmobile business with his father



Hot Wheelz co-leader Jennifer Smith, a fifth-year mechanical engineering student, uses a vertical milling machine to drill and tap holes into parts for the car. Smith said Hot Wheelz gave her a unique set of skills that helped her get a full-time job after graduation.

Although Smith had only been on the team for a year, she took on a big role for the 2014 campus race. Team leader Chmielowiec was on co-op at GE Aviation in Jacksonville, Fla. Smith, who was one of the few returning members and one of the older students on the team as a third year, became a co-lead.

The competition that year was an e-vehicle autocross challenge, a combination of speed and endurance. Hot Wheelz found a go-cart on Craigslist, took it apart and modified it for the electric competition.

The team, with Smith as the driver, came in third out of 12 participants.

“Being able to drive was a great experience—to be able to test all of your hard work,” Smith said. “It was a learning experience for me but also really rewarding.”

A different direction

The team’s plans to continue racing on campus were detoured in the fall of 2014 when members learned that the 2015 Imagine competition was going to feature drones instead of cars.

Chmielowiec, who had returned to campus from co-op, asked Carville if she could investigate other races. She found one in Loudon, N.H., run by Dartmouth and supported by the Society of Automotive Engineers.

The race required the team to build a car from the ground up. Team leaders outlined a \$100,000 budget—10 times what they had spent on any of the previous races—and they took their plan to Dean Palmer.

Palmer remembers having two concerns: Could they raise the funds needed to be successful, and were the students committed?

Twenty-six percent of this academic year’s incoming engineering class is female, higher than the national average of 19 percent.



Zoe Bottcher, a second-year mechanical engineering major, welds the car’s frame at Mahany Welding. Six team members took welding classes at Mahany, which is owned by Michael Krupnicki ’99 (MBA).

Photo by A. Sue Weisler

Palmer said that percentage grows in each class each year because women are retained at a higher rate than men.

But although the number of women in engineering at RIT has tripled in the last decade, Palmer worried that it could be hard finding enough students to participate.

“You need a lot of people because there are a lot of components,” he said, adding that students have to also juggle their academic workload and co-ops. “The fact that we can put together an all women’s team is a testament to RIT’s demonstrated ability to recruit women.”

Knowing the task was big, the women decided they would need more than a year to fundraise and build the car, so they set their sights on the 2016 competition.

Although they didn’t compete in the spring of 2015, it was a busy time for the

group. The team created a sponsorship packet that individual members could send to companies. They also began a crowdfunding campaign through RIT last spring that raised more than \$11,200—\$1,200 over their goal—primarily from family and friends.

The fundraising part of Hot Wheelz produced self-confidence boosts for many members.

Kristin Zatwarnicki, a fourth-year mechanical engineering student from Long Island on the wheel assembly and brakes team, met with top level officials at Advanced Atomization Technologies in Clyde, N.Y., when she was on co-op last year and asked them to sponsor the team. The company donated \$1,000.

“They loved it. They said, ‘could you put a fuel nozzle on the car?’” Zatwarnicki said about the company that makes fuel nozzles for GE commercial airplane engines. “I have so much more confidence because of Hot Wheelz. Talking to large groups or talking to people about Hot Wheelz, it doesn’t really scare me.”

2014



Jennifer Smith drove in the 2014 Imagine RIT Festival. The competition was an e-vehicle autocross challenge.



Missy Miller, a fourth-year industrial and systems engineering student, works with Maura Chmielowiec on the frame at Mahany Welding. Alumnus Michael Krupnicki allowed Hot Wheelz team members to use the space as a way to give back to RIT.

Photo by A. Sue Weisler

Leading to jobs

The next step was drumming up interest with larger companies. Carville, who is now senior director of College Alumni Relations, approached Sarah Burke, mechanical engineering career services coordinator at RIT, and suggested they arrange a meet and greet before the spring 2015 career fair.



Sarah Burke

Burke organized a networking event with both Hot Wheelz members and participants in the Society of Women Engineers (SWE).

The event was a success, so Burke, who became a volunteer adviser for Hot Wheelz, expanded it before last fall's career fair, inviting all six of RIT's performance teams to a networking open house. This one was even more of a hit with company representatives. Some said they were drawn to the event because of the uniqueness of an all-female team.

"Employers want to see the performance teams," Burke said. "Why? They have hands-on experience. They know how to turn a wrench. They aren't theoretical engineers."

The success of the career fair open house energized Burke, who a few weeks later was attending the national SWE conference in Nashville with 14 students. Her goal at that annual conference was not only to help the SWE students navigate a large career fair, but to tackle the Big Three automakers on behalf of RIT.

As Burke explained, RIT is the biggest supplier of co-op students and full-time hires to Toyota. RIT has a huge presence at Honda and is a key school for BMW and Tesla Motors. And 95 percent of the co-op students at the General Motors facility in Rochester come from RIT.

But when it comes to the Big Three manufacturers in Detroit, it has been difficult getting RIT students in the door.

"I was determined this time to change it because now I had something really unique

and different to sell them, and that was a women's Formula team," Burke said.

She walked into the General Motors booth and began sharing the Hot Wheelz story with a representative, who immediately got the attention of the lead person from talent acquisition.

"The women's team is starting to open the door," Burke said, "but other students will benefit."

Enhancing the curriculum

In the meantime, team members began to work on the car and looked for ways to tie Hot Wheelz to the curriculum.

Chmielowiec created a proposal for a Hot Wheelz-themed senior design project. Multidisciplinary senior design is a required two-semester class for mechanical, electrical, biomedical and industrial engineering majors. In this class, students can either propose their own project or get assigned to a project.

Chmielowiec not only had to write the proposal but she had to find students who



Photo by Maxwell Harvey-Sampson

Hot Wheelz members Missy Miller, front left, and Cassie Kaczmarek, back right, consult with team leaders Jennifer Smith, front right, and Maura Chmielowiec in the Hot Wheelz team room in the Kate Gleason College of Engineering. Caitlin Babul, the team's safety and rules manager, works on the computer behind them.

were ahead in the coursework and willing to do senior design off sequence from spring to fall instead of fall to spring. Chmielowiec and Smith and four others not from Hot Wheelz enrolled. The mixed-gender team built a test bench that the team will use to test the electrical system before it is installed on the car.

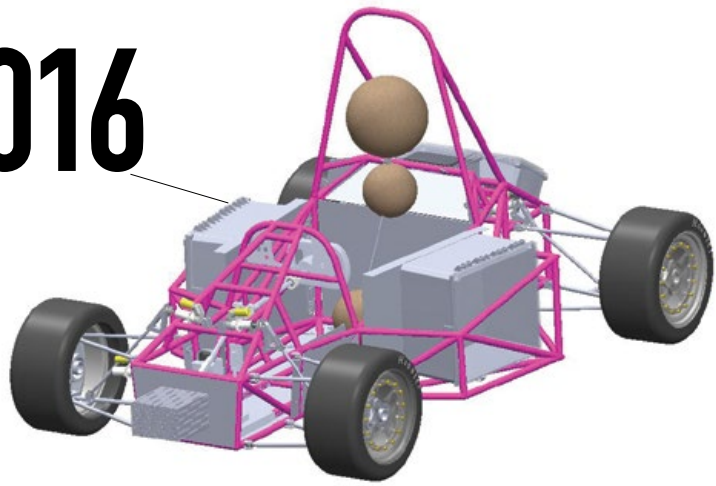
Team leaders also developed an independent study chassis design class through the mechanical engineering department. Chmielowiec wrote the syllabus, picked a textbook and Marca Lam, senior lecturer in mechanical engineering, stepped in as faculty adviser. Chmielowiec, Smith and teammate Emily Wood, a fourth-year mechanical engineering student, completed the automotive elective last spring.

A second independent study class is being offered again this semester using some of Chmielowiec's curriculum. She not only tweaked it to make it better for the next set of students, but Chmielowiec is currently mentoring three female students through the semester course.

"It's a way to pass down what I learned," Chmielowiec said. "When I leave, I am not leaving a clueless team. I'm leaving an empowered team."

Outside of class, co-leaders Chmielowiec, the technical team leader, and Smith, the project manager, began forming subgroups—wheel assembly and brakes, circuit design,

2016



Hot Wheelz team members hope to finish the car by the end of March so they can test drive it in April.

drivetrain, steering and cockpit design, among others.

Missy Miller, a fourth-year industrial and systems engineering student from Belvidere, N.J., became electrical manager. Miller knew very little about cars when she started. Now she leads a team of 15 students.

Six team members took welding classes at Mahany Welding, which is owned by Michael Krupnicki '99 (MBA). Krupnicki didn't charge the team members as a way for him to give back to RIT. And they contacted engineering alumnae to consult on the project.

Last spring, 16 team members and their advisers visited the 2015 competition



Martin Schooping

to learn about all of the different aspects of the race. They also realized that they were unique.

"I don't think we were there an hour and everybody at the place was talking about the all-girls engineering team that was visiting," technical adviser

Schooping said. "They were the rock stars of the

event and they didn't even have a car there."

They met representatives from General Motors and impressed them so much that they were assigned a mentor, who began talking with them through Skype.

That's also where Chmielowiec first met GM program manager Colón, who was discovered by GM in 1994 at a Formula SAE race when she was the leader of her team from the University of Puerto Rico and one of few women at the race.

The relationships they made there along with Burke's at the SWE conference resulted in a daylong meeting and tours at GM in Detroit in October. Hot Wheelz members presented to eight executive directors.

"Needless to say," Burke said, "every one of them wanted to hire the entire team."

The race

The New Hampshire competition, which is in its 10th year, is supported by the Formula SAE Collegiate Design Series. The event consists of the same components of the past three Imagine races: acceleration, autocross and endurance. Design and project management presentation are also evaluated.

This time, though, getting to compete May 1-5 will be more of a challenge.

The team is required to submit about a dozen technical reports with updates on the hundreds of pieces that go into the car before even leaving for the competition.

Then when they get to New Hampshire, they'll have to pass inspection. If they don't, the car won't get on the track.

Caitlin Babul, a fourth-year mechanical engineering honors student from Chicago, was appointed safety and rules manager. It's Babul's job to make sure the team complies with 178 pages of rules.

Babul said she joined Hot Wheelz as a freshman because she knew she would get a hands-on role and she liked being a part of an all-female team in a male-dominated industry.

Her past work with the team helped her land a two-term co-op with Toyota as a production engineer. She was one of only four women in her office of about 50.

She is happy to have the leadership position this year.

"When I came here I didn't know what I wanted to do with a mechanical engineering degree," she said. "Then I joined Hot Wheelz, and I was like, 'cars are kind of fun.' Then I went to Toyota, and I was like, 'cars are really cool.'"

Becky Michalski, a third-year mechanical engineering student from Buffalo, N.Y., on the drivetrain group, said working closely with electrical engineers on Hot Wheelz

helped her on her co-op at Canon last fall.

"I am not electrically minded at all, so being able to have done that at school before I was in the real world was a nice learning experience," said Michalski, who would like to go into automotive or toy design after she graduates.

Smith and Chmielowiec have been working hard to set up a succession plan for students such as Michalski and second-year mechanical engineering major Zoe Bottcher, who is the steering team leader and is enrolled in the independent study class created by the team.

This summer, Bottcher will do her first co-op at Magna Exteriors, part of Magna International, which has established a co-op position specifically for a Hot Wheelz member on a year-round basis.

The fundraising plan calls for carrying over \$20,000 of the \$100,000 they hope to raise so next school year members aren't starting from scratch. They already have \$78,000, with 14 companies, the Kate Gleason College of Engineering and Destler kicking in funds.

Before she leaves, Smith, who will begin work in July for Keurig Green Mountain in Burlington, Mass., is making sure they are documenting all of their work so the team has procedures to follow.

Carville, Schooping and Burke will be there to guide and grow future teams and expand their relationships with alumni and companies.

This kind of networking was Carville's dream when she first approached the dean about forming a team.

Chmielowiec is also fulfilling her dream. She will begin a position this summer at GM in Detroit as a tire, wheel and fastener performance and test engineer. Colón will be her mentor.

"At the end of the day we want to bring the best of the best to work at GM," Colón said. "Maura is an example of that."

It's the first step, Chmielowiec said, to working in NASCAR.

Dean Palmer expects to see many other successes from team members—at the May competition and beyond.

"I see them achieving much more than they would ever anticipate," Palmer said. "It's because they have that sheer will to succeed, plus, of course, a great RIT education."

Mindy Mozer

To learn more

Keep track of the Hot Wheelz team's progress at www.rithotwheelz.com.



RIT's other race teams

RIT Formula Racing builds Indy-style cars for on-track competitions nationally and internationally. This group has been recognized among teams around the world over its 25-plus-year history. In 2010, the team was fourth in the world among 500 collegiate teams.

RIT Baja Racing consistently places among the top five teams in the U.S. among off-road, dune-buggy-style racing vehicles. The team performed a near-miracle last spring when its car was impounded in Brazil at an international competition. Using borrowed parts and a chassis from the host team, members built a new car, qualified and competed in the endurance race, logging one of the fastest lap times of the race.

RIT Electric Vehicle Team builds high performance electric motorcycles. The team's current bike is a Kawasaki Ninja ZX6RR with a battery management system built for endurance and speed. In 2015, RIT's team impressed professional and collegiate race teams in its first meet, the eMoto Racing Varsity Challenge in New Jersey.

RIT Clean Snowmobile team designs, tests and builds full-size snowmobiles with modified engines to reduce emissions and noise, as well as be more fuel efficient and equally fast. The team is in its fifth year and is part of a competitive series focusing on sustainable, alternative engines.

Aero Racing teams build scale model airplanes with sophisticated internal systems and capable of carrying varying payloads. The RIT team was first chartered in 1996.



Graphic design student Paige Rayo picks up her copy of *Positive/Negative* magazine, a student-run annual publication created by senior photography and graphic design students. The magazine used RIT's crowdfunding platform to raise money to produce it.

Photo by A. Sue Weisler

CROWDFUNDING FUELS INNOVATION

The editorial design and photography class that produces *Positive/Negative* magazine each year relies on crowdfunding to cover the cost of printing the magazine. For the past three years, the class used Kickstarter, which collects administrative fees for using the service. This academic year, designers and photographers turned to RIT's new crowdfunding platform.

"We raised more in a week than we did in a month—almost twice as much in a week than we did with Kickstarter," said Denis Defibaugh, the photography professor who co-teaches the class of 36 seniors with graphic design professor Lorrie Frear.

Jerome Jackson, assistant director of crowdfunding and social media at RIT, said about two years ago, administrators formed a committee to see how students were using crowdfunding to pay for their projects. They counted more than 117 projects that attracted 1,700 supporters, who were not always being thanked or receiving a tax benefit.

RIT contracted with the online platform USEED and launched its first campaign in the spring of 2015 with the Hot Wheelz racing team. The team raised more than \$11,200 —112 percent of its goal.

Since then, a half dozen campaigns have been launched, including one to support Women of Color, Honor and Ambition (WOCHA), a program to develop leadership skills, healthy lifestyles, self-esteem, empowerment and community engagement for women who are in their second through fifth years.

Sandra Whitmore '05, '09, '12, senior director of operations for the Office for Diversity and Inclusion, and Devon Watters '14, graphic designer and social media specialist, said they are part of eight founding RIT staff members who created WOCHA after the success of a similar program for men was created in 2013.

They raised almost \$12,000 to support the program, which has eight students who participate in everything from wellness activities such as yoga to Dale Carnegie Leadership courses. After completing the program, each participant receives a custom-made suit from Adrian Jules. They also are assigned professional mentors at RIT and in the community.

"These young ladies are just so impressive," Whitmore said, adding that they hope to increase the number of participants in the next



WOCHA was created with help from crowdfunding.

class if they can continue to raise funds.

Jackson said students, faculty and staff are eligible to apply to crowdfund through RIT, but projects have to be driven by students and directly benefit the RIT community. A committee of six reviews applications.

Team members are mentored throughout the process and are required to thank all of their supporters as well as provide updates on their projects.

"Students begin to learn philanthropy, so when they graduate from RIT, they understand the importance of giving back," Jackson said.

For RIT, crowdfunding is another way to engage alumni and parents, who can make a difference by giving just a few dollars to projects, he said. For students, they can tackle projects that wouldn't have been possible.

The 18 graphic design students and 18 photographers involved with *Positive/Negative* magazine raised more than \$6,000, which allowed them to print 425 magazines, pay production costs and use foil stamping on the cover. Last year, they printed 300. The students, who produce all of the content in the magazines, can now use them as part of their portfolios.

Jenna Hebel, a graphic design student from Buffalo, N.Y., who hopes to work in fashion advertising after she graduates, said she learned a lot going through the process of putting out a magazine.

"It is great to have a product in our hands," she said. "It will be great in interviews to show something printed."

Mindy Mozer

To learn more

To support ongoing campaigns, go to rit.edu/CrowdfundingatRIT.



Christine Whitman

Christine Whitman is the new leader of the RIT Board of Trustees and the first woman to take the helm. She became the university's 19th chairman in November and will serve at least three years. Here she talks about her career, her role as chairman and the future of RIT.

Work Experience

- Chairman and CEO of Complemar Partners Inc., a growing logistics company providing order and product fulfillment services and software with operations in New York, Pennsylvania and Nevada.
- Managing Partner of CSW Equity Partners, where she manages a portfolio of investments in early-stage companies.
- Previously served as chairman, CEO and president of CVC Inc., a worldwide supplier of thin-film process equipment for the semiconductor and data storage industries. During her tenure, she grew the business 10 times in revenue, led a successful IPO and completed the sale of the company to Veeco Instruments.

Boards

Serves on the boards of Soleo Communications, Voiceport, OneStream Networks, George Eastman Museum, Venture Creations, the New York state Finger Lakes Regional Economic Development Council and past chair of the Board of Trustees of the Rochester Museum and Science Center.

Awards

Herbert W. VandenBrul Entrepreneurial Award, 2000; Center for Governmental Research Eastman Legacy Award, 2003; Nathaniel Rochester Society Award, 2004; United Way Alexis de Tocqueville Award, 2008; Girl Scouts Woman of Distinction Award, 2011; RIT Volunteer of the Year Award, 2011; Catholic Family Center Award, 2012.

My first job was at the University of Rochester in the biochemistry department. That was followed by a job at a company that was a spinoff of Kodak called CVC, which stands for Consolidated Vacuum Corporation. I became involved with the company because it was similar to the research I was doing in biochemistry.

I started there in 1978 and over the years I became involved in all of the different products that the company manufactured. I became the CEO of the company in 1990. At that point the primary product was making thin-film deposition equipment for the semiconductor industry and the data storage industry. We grew the company exponentially over the next 10 years. It was a very exciting time in the semiconductor industry.

In 2000, Veeco Instruments Inc.

acquired the company. I went to work there as the president but as it happens with many acquisitions in business, it was not the right fit for me. I resigned from that business and decided to regroup. I formed CSW Equity Partners with a few other business associates. That was an investment firm where we invested in early-stage businesses.

One of those companies

was Complemar Partners Inc. And at some point in our investment we decided we should get actively involved in running the company. I was nominated to be the CEO of that company and I have been doing that ever since.

That company is quite different from my semiconductor manufacturing equipment business but it is equally complex. It is a software platform and an order management and fulfillment company. We ship products all over the world for clients. You could call it a mini-Amazon-type company.

The key to any business is vision and perseverance. You can create the best business plan in the world, but all sorts of surprises occur and they are not usually good surprises. So you need to figure out how to exploit these as opportunities. You need ingenuity. You have to be prepared to pivot and to think long term.

I've hired hundreds of RIT alumni.

I am so grateful to RIT because RIT has really helped make my companies successful. I was invited to serve on an advisory committee for the Kate Gleason College of Engineering, and I was very interested in getting students' schedules freed up for more classes in communication so that they would be ready to take on the jobs that required being able to communicate not only throughout the United States but throughout the world.

I served on that committee for some period of time and then (former RIT president) Al Simone contacted me and asked me if I would be interested in serving on the board and, of course, I was honored with his request.

I think RIT, under Al Simone, really made huge strides in terms of moving from a regional institution to a nationally recognized organization. Under Bill Destler, it has taken another leap forward. I am proud to be a part of that and to be able to say that I came along for the ride.

I have served as CEO of a semiconductor manufacturing equipment company when there were no women and I traveled to Japan and Korea when the only women you would see in an office were those serving tea. So I'm used to being one of the minorities. What I have learned over the years is as long as you deliver, it really doesn't matter whether you are a man or a woman or whoever you are. If you have what your constituents need, you can get the job done.

I would like to be remembered for having served as chairman during the time that we effectively deployed the 2015-2025 strategic plan. That involves an enabling and affordable education for our students. It involves solving problems with our diverse student body and it involves preparing great citizens for our world.

A photograph of Christine Whitman, a woman with short blonde hair, smiling and standing in a warehouse. She is wearing a dark blue blazer over a white collared shirt. Her arms are crossed. The background shows tall green metal shelving units filled with boxes, typical of a warehouse environment.

Christine Whitman is the new leader of the RIT Board of Trustees. She is standing in Complemar Partners' main warehouse facility in Rochester, where she is chairman and CEO.

Alumni Updates



Several hundred invited guests enjoyed the retrospective of work by Walid Raad '89 at New York City's Museum of Modern Art.

Photos by Willie Osterman

Photo alumnus realizes dream of MoMA exhibit

Willie Osterman still recalls the time in the mid-1980s when—as is the RIT photography professor's custom every year—he asked his introductory photography students where they wanted to be in 10 years or so.

“Without hesitation from the middle of the room a hand went up and Walid Raad said he was going to have a solo show at the Museum of Modern Art (MoMA),” recalled Osterman, the fine art photography program chair in the School of Photographic Arts and Sciences.

Sure enough, MoMA recently presented the first comprehensive American survey of Raad '89 (professional photographic illustration) featuring his work in photography, video, sculpture and performance from the last 25 years.

Raad's work is informed by his upbringing

in Lebanon during the civil war (1975–91), and by the socioeconomic and military policies that have shaped the Middle East in the past few decades.

“I am drawn to how events of extreme violence—physical and psychological—are lived and experienced,” Raad said. “I try to engage the forms, gestures and concepts that are made possible by such events.”

The solo exhibition, which encompassed two floors of MoMA while highlighting a wide variety of Raad's conceptual work, ended in January. It focused on two of his long-term projects: *The Atlas Group* (1989–2004) and *Scratching on things I could disavow* (2007–ongoing). Under the rubric of *The Atlas Group*, a 15-year

project exploring the contemporary history of Lebanon, Raad produced fictionalized photographs, videotapes, notebooks and lectures that related to real events and authentic

research in audio, film and photographic archives in Lebanon and elsewhere.

His recent work has expanded to address the Middle East region at large. Raad's current ongoing project, *Scratching on things I could disavow*, examines the recent emergence in the Arab world of new infrastructure for the visual arts—art fairs, biennials, museums and galleries—alongside the geopolitical, economic and military conflicts that have consumed the region. The show moves to Boston and Mexico City this year.

Raad developed his affection for photography in his early years. “Growing up during the war years, there were so many photo-journalists around,” he recalled. “The camera was my excuse to go to places in Beirut that I would never have dared to visit without one.”

Last fall, Raad invited Osterman to a private reception at MoMA as the exhibit neared. When the two saw each other, Raad excused himself from well-wishers and ran over to thank his former professor. “Anyone who teaches knows that this is the highest compliment to receive,” Osterman said.

Rich Kiley



Photo by Gregory Halpern

Walid Raad met with RIT students who visited his New York City studio in 2013.



Criminal justice graduates Mark Gorthy '90, Danielle DiGaspari '12 and Nick Petitti '03 work to spot crime trends in Rochester and across the state.

Photo by A. Sue Weisler

Tigers sleuthing for crime trends across New York

It's not a coincidence that a third of the 30 analysts at the Monroe Crime Analysis Center (MCAC) in downtown Rochester over the center's eight-year history have been graduates of RIT.

Most of them, criminal justice or applied statistics majors, have previously worked at RIT's Center for Public Safety Initiatives (CPSI), a self-funded group that monitors crime data for various local and state agencies, including MCAC. CPSI consists of 40 people on campus who determine trends in crime and evaluate prevention programs to see if they actually reduce crime.

"When students work in the CPSI, it gives us the chance to evaluate their fits and talents," said Nick Petitti '03 (criminal justice), director of business intelligence for the Rochester Police Department at MCAC, a joint venture among local, state and federal agencies and operated by the state Division of Criminal Justice Services. "They get their foot in the door of law enforcement and we get to evaluate their potential. We can see how they work—more than what we'd get in an hour interview."

But it's not a job that has them always sit-

ting at desks and crunching numbers. Police officers on the street may ask if they know the identity of someone with a particular nickname, or with a specific tattoo or a history of police calls to a location.

Danielle DiGaspari '12 (criminal justice) is a crime research specialist at MCAC who was offered the job even before she finished her work as a student in the CPSI. She is dispatched with investigators to homicide scenes and watches on camera the questioning of murder suspects with investigators.

"It's very fast-paced, pretty exciting work," she said.

On a typical day, analysts at MCAC examine crime data that occurred the day before and try to determine if incidents are related. They also look for any ongoing patterns in crime and share their information with area police agencies several times a day.

And with the help of an RIT CPSI student three days a week, a giant database is being made to track each instance when someone is shot in Rochester. They look at whether the parties knew one another, what their education is, the time of day it happened and even

the weather.

"I think it will give us the most detailed view of the context and nature of the shooting incidents," said Mark Gorthy '90 (criminal justice), managing analyst at MCAC.

Although many other colleges offer criminal justice degrees, the research focus of RIT's program and the connection with CPSI founder and Director John Klofas, a criminal justice professor who has worked closely in crime analysis with the Rochester Police Department and other agencies for decades, give graduates an edge.

"RIT's program is very strong in research and statistics," Gorthy said. "John Klofas is providing a rich learning environment for the students who graduate to have experience with direct research in the field."

Klofas said the admiration is mutual.

"From our perspective, MCAC really represents the cutting edge of crime analysis. It's a great place for our students to have an understanding of the work they do and gives them the exposure to decide if that's the work they want to do."

Greg Livadas



Patricia Libby Gantt '11 works at Lockheed Martin as an environmental safety and health engineer.

Safety top priority for alumna at Lockheed Martin

Patricia Libby Gantt '11 (environmental sustainability, health and safety) makes sure that if her team is soaring into the stratosphere that they are first safe on the ground when they are building Lockheed Martin's high-powered aircraft.

Gantt, environmental safety and health engineer with Lockheed Martin, completed the company's Operations Leadership Development Program, a two-year rotational program.

She worked several positions varying from a manufacturing engineer on the C-130 military transport airplane program at Lockheed's aeronautics site in Marietta, Ga., to a sub-contracts administrator supporting the Live Training Program at the Mission Systems and Training facility in Orlando, Fla.

Gantt is supporting the safety efforts of the company, which builds and modifies aircraft such as fighter jets, large transport planes and surveillance aircraft. She is part of a growing

number of environmental managers influencing sustainability, quality and safety efforts in companies today.

"Our group literally does save lives—at Lockheed and outside of the company—because if we make any aircraft that has a defect or foreign debris in a critical area, that could take down the aircraft," she said. "I see the direct effect of what I do every day."

After going to Mexico in her second year at RIT as part of a study abroad program, Gantt found she enjoyed field studies and

wanted to pursue a career where she could stretch her wings. She changed her original major from biotechnology to environmental sustainability, health and safety.

"I've always loved science and this program was perfect. I knew this was what I wanted to do," she said. "The level of knowledge I gained from classes and the curriculum at RIT was top notch already, but what really made it even better was the hands-on

experience I was able to get in labs, going on different field trips and having professors who shared their real-world experiences with us."

She also had an affinity for aircraft from listening to her grandfather talk about his experiences as an Air Force C5 large transport aircraft mechanic. Ironically, her last co-op as an RIT undergraduate was with the C5 team at Lockheed Martin. This was also the team she eventually went to work with full time after graduation.

Lockheed's leadership program was not so different from Gantt's classroom and co-op experiences at RIT. These were key when she began her job search.

"I definitely use this degree to its fullest in my role with Lockheed. The sense of pride that I see within this company—they are as loyal to their employees as they are to the country. They make sure that national and international security is at the forefront," Gantt said. "To me that is really inspiring, and that's one of the reasons I continue to pursue this type of work."

Michelle Cometa '00





If you go

RIT will host the SAE Baja World Challenge at the university's Gordon Field House and Activities Center and Hogback Hill Motocross Speedway in Palmyra, N.Y., June 9-12. This is the sixth time RIT has hosted the international event and expects 100 collegiate teams from the U.S., Canada, India, Brazil, Venezuela and Mexico.

Jason Rounds '00, right, and Cody Whelan, former SAE risk management specialist, checked out the course before the 2013 Baja Rochester World Challenge endurance race. Rounds is technical and safety lead for Baja collegiate competitions throughout the country.

CAST grad drives Baja collegiate competition

It's been almost 15 years since Jason Rounds '00 (mechanical engineering technology) hurtled over hills and rocks in an RIT Baja car. He hasn't forgotten the thrill of the ride as a competitor or of leading one of the most successful Baja collegiate race teams in the country. Today he remains involved, but as the technical lead for the Society of Automotive Engineers Baja off-road collegiate racing competitions.

As an undergraduate, Rounds saw first-hand how competitions are run across the country. Most were well-coordinated efforts, but he noticed some inconsistencies in how rules for the important technical and safety inspections were interpreted from event to event. When he approached SAE after graduation with a plan to standardize inspections, it would be a commitment to the sport he enjoyed. It also became a structured, accepted process that remains in place for all events today.

"When I left school, I knew I was staying active in Baja. I made sure every company I interviewed with knew I was active. I said this

is what I do. I'm not using my vacation. I want this to be a part of the culture, and I've been able to sell it every time," said Rounds, who is a maintenance and modification engineering manager for TTX Company, an international rail and freight management organization in Chicago.

That first year, SAE supported a small group of technical advisers. Many were Baja alumni like Rounds, who traveled together to events around the country. It wasn't always easy. They were the new guys, the outsiders, he recalled. But part of the Baja philosophy is overcoming obstacles, whether they are fixed ideas or damaged gear shafts.

"That's the point of engineering, to fix the failure, and if you can't react quicker than the other guy and work under pressure, then you won't be successful," he said.

SAE sponsors three main Baja races each season and several international events. Teams opt in to one or more of the off-road competitions. Many are held on university campuses then move to nearby motocross fields for races up and over steep hills,

through wooded areas, on muddy trails and around hairpin curves.

Rounds and his inspectors scrutinize race car systems, infrastructure, equipment and drivers' awareness of safety measures before teams take the field. An OK from the technical inspectors means Baja cars are ready to race. Without an OK, teams watch from the stands.

"We've grown the group to 25 people.

I have technical leads for cost and scoring and I lead the tech area, but I also help to manage the group's travel. I've been doing more consulting in the last few years to train people for new events in the future."

Succession planning is high on Rounds' mind as he continues in his role. He is looking for that person who lives and breathes Baja to take his place eventually.

"My goal in the next five years is to get a new group organizing and running races, at new venues, some new blood. I have no plans to leave in the short term, but I know I'm not going to be 70 and still doing Baja," he said, laughing.

Michelle Cometa '00

DISTINGUISHED ALUMNI BY THE NUMB3RS

Learn more about these distinguished alumni at rit.edu/alumni/daa.

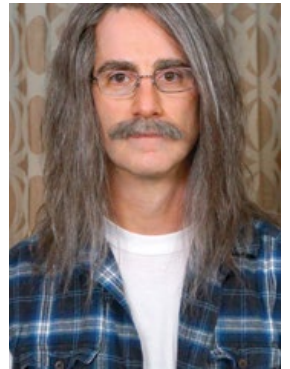
This year's class of Distinguished Alumni awardees has been selected from RIT's nine colleges and School of Individualized Study and will be honored during Distinguished Alumni week April 11-15. The Distinguished Alumni Award is presented to an alumnus/a who has performed with distinction at the highest levels of his or her chosen profession or who has contributed significantly to the advancement and leadership of noteworthy civic, philanthropic or service organizations over the course of many years. The alumni honored have brought distinction to their colleges and RIT through their professional, community and/or philanthropic achievements.



First in her family to go to college, **Dr. Diana Badillo '00**, College of Health Sciences and Technology, an alumna of RIT's PA program, pursued her medical degree so that she could better fulfill her mission of serving the homeless and other marginalized populations in New York City.



77th



John Hartmann '85, College of Liberal Arts, appeared on the 77th episode of *Undercover Boss* going incognito as a new TrueValue employee going "into the trenches" and experiencing life on the job as someone other than CEO.

'86



In 1986, **Barbara (BJ) Wood '75**, National Technical Institute for the Deaf, helped establish the Massachusetts Commission for the Deaf and Hard of Hearing and was appointed as its first commissioner by Gov. Michael Dukakis. She went on to head similar commissions in Colorado and New Mexico.

\$50 MIL

Eric Kuckhoff '84, College of Science, led his company, Polystar, which he founded in 2002, to become a \$50 million business prior to its acquisition by a multinational conglomerate in 2014. Forming his own company had been Kuckhoff's dream.

While treasurer at Cisco, **Henry D. Navas '74, '77**, Saunders College of Business, was instrumental in organizing the company's initial public offering in 1990 and has been referred to by *Forbes* as "one of the best." In just 10 years, the stock would return 60,614 percent from its opening price.



60,614%

25

Wayne Plewniak '83, Kate Gleason College of Engineering, has more than 25 years of institutional money management experience managing hedge funds, mutual funds and separate accounts focused on credit strategies and is currently managing director, portfolio manager and head of Fixed Income for GAMCO Investors Inc.

11



Tad J. Hunt '97, B. Thomas Golisano College of Computing and Information Sciences, is named as an inventor on 11 patents for various data storage devices and techniques, many of which helped propel the success of Exablox, the data storage company he co-founded.



Eric Avar '90, College of Imaging Arts and Sciences, was the 15th footwear designer ever hired at Nike when he joined in 1991. He is now VP of Design Innovation for Nike, and there are more than 1,000 designers currently employed at the sneaker giant.

15th



5 **John Conklin '15**, School of Individualized Study, holds leadership positions at five different renewable energy and technology companies that are keenly focused on developing alternative energy sources. Conklin currently serves as president, CEO, CFO and director of SolarWindow Technologies Inc.



Robert L. Jacoby '77, College of Applied Science and Technology, has racked up 1.4 million frequent flier miles on one airline alone managing energy initiatives for the oil industry. This includes leading a global team of scientists that provided the worldwide health, safety and environmental solutions for all of Royal Dutch Shell.

1.4 MILLION

Class Notes

Key to abbreviations

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

About Class Notes

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

1952



John Bacon '52 (KGCOE) visited the Atlas Missile Base outside of Cheyenne, Wyo., back in 1960. He shared this photo after reading the winter issue of *RIT: The University Magazine*.

1959



Suzanne Hausman '59 (CIAS) had her photo taken at the entrance to the old Bevier Building during a recent visit to Rochester. She lives in Brooklyn, N.Y., and still works actively as a freelance graphic designer producing large-scale exhibitions, signage and print material.

1961



Gene DePrez '61 (CIAS), '62 (CIAS), '68 (CIAS) served as senior strategic advisor in late 2015 to provincial and municipal leaders and mayors in the Toronto Metropolitan Area as they formed a new regional foreign investment attraction development corporation. He was also featured at the International Economic Development Council's annual summit held in Anchorage, Alaska, in October, speaking on global business location investment trends. He was invited to conduct a leadership forum for a select group of international major city economic development CEOs in New Orleans in early 2016.

1969



Gary Brodock '69 (COS) and his wife, Sylvia, sold their house in July and are now full-time campers. They have a toy hauler fifth wheel and take their two motorcycles (street and dirt) with them. They look forward to seeing a bit of the country over the next few years.

1971



Paul Comstock '71 (SCB) completed kayaking the four working canals in New York state in 2015. Over a two-year period, he kayaked the Erie, Champlain, Seneca and Oswego canals, covering approximately 450 miles.

1972

Harvey Duze '72 (CIAS) left Akin Gump Strauss Hauer & Feld LLP in early March 2015 after almost 17 years working in its marketing department. In addition to doing freelance photography and graphic design work, he recently joined the marketing/strategic communications department at Walter Reed National Military Medical Center in Bethesda, Md., as a part-time contract photographer.

1974

Mark Siegel '74 (CIAS) has retired from his Georgia-Pacific Research Fellow Converting Technology position at the Innovation Institute in Neenah, Wis., after 41 years of service.

1975

Steve Beiser '75 (CIAS) is a certified health care quality manager and now works full time as a physician reviewer, reviewing treatment for quality and appropriate utilization with government contracts.



Gary Staffo '75 (KGCOE) was selected as the accident investigation program manager for the Office of Environmental Protection,

Sustainability Support, and Corporate Safety Analysis by the Department of Energy headquarters in Washington, D.C. Staffo is an internationally recognized safety professional, consultant and author.

1976



Larry Kiser '76 (KGCOE) is now teaching software engineering at RIT after 40 years in software development. He started in the 2014-2015 academic year and has enjoyed sharing his many years of industry experience with the students.

Alan Frohlichstein '76 (CIAS), '77 (CIAS) had a one-person photographic show on display at the Morton Grove Public Library in Illinois through Jan. 31. The photographs are comprised of musicians largely from the jazz and blues community and landscapes from Yellowstone National Park.

1977



Kevin Hall '77 (FAA) has donated his Freedom Poster to his hometown's elementary school and to the town's new library. The poster features

original photography by Hall of the Statue of Liberty featuring a quote from Albert Einstein. Hall has his own graphic design firm, Kevin Hall Design, near New Haven, Conn.

Michael Pollock '77 (CIAS) is a 28-year veteran of Brighton Volunteer Ambulance and was elected to the Society for Total Emergency Programs board of directors in July 2015. The organization runs the annual STEP

Conference, which offers continuing education for emergency medical service personnel as well as nurses and physicians.



Deborah (Kranich) Sleith '77 (CIAS), '79 (CIAS) and Rod Sleith were married on Sept. 5, 2015, in a small backyard ceremony.

1978

David Boyer '78 (CAST) continues to strengthen a professional relationship with a caricature company in Japan, Hoshinoko Production Ltd. In September 2015, he completed his 14th trip to Japan.

James Plumadore '78 (SCB) joined Advanced Management Services as director of business development. Headquartered in Boston, AMS offers services including consulting, training, assessments, coaching, business analysis and project management.



Philip Smith '78 (FAA) had a one-man show at the Rudy Collective Art Gallery in York, Pa., from Dec. 1 to Jan. 16. The focus of the show was his journey in textiles over the past 40 years. This journey has taken him from Afghanistan to Thessaloniki, Greece, to establishing his own business and back to Afghanistan, where he is helping to create a weaving co-operative. He is president of Philip E. Smith Interior Design Inc.

Michael Way '78 (SCB), '79 (SCB), '97 (SCB) was appointed controller of Empire Recycling Corp., with oversight for all financial and human resource areas. The company consists of eight metal and paper recycling facilities, two realty companies, a trucking division and a steel fabrication company located throughout the Northeast.

1979

Roy Libby '79 (CAST) retired from Eastman Kodak's Government Systems Division in 2000 after 30-plus years as a senior reliability engineer. He was the design review manager on the Chandra Observatory and received a group achievement award from NASA for the Telescope Integration and Test Team.

1980



Wendy Maruyama '80 (CIAS) had her The wildLIFE Project initiative featured from Sept. 18 to Jan. 3 at the Houston Center for Contemporary Craft. The project brought awareness to wildlife poaching, with partial proceeds from the sale of the work being shared with five major elephant conservation groups. Her work also was featured at Art San Diego in Balboa Park as part of the 2015 San Diego Art Prize.

1981

Bill Perkett '81 (CAST) is the founder and current executive director of the nonprofit agency Computers for Refugees created in 2009 to donate and service computers free of charge for the refugee community in Rochester. Each computer is loaded with educational software developed by Perkett.

1982



Mary Campbell '82 (CIAS) writes that her career as an artist includes her tenure from 1989 to

1990 at the National Gallery in Washington, D.C., as a copyist. Since retiring to Florida, she has continued to do her artwork, exhibiting with Arts in Public Places and teaching oil/acrylics painting classes.

Jeanne (McFee) Colleluori '82 (SCB), '82 (SCB) is now the manager of public relations at Rochester Regional Health.

David Gamlen '82 (CAST) was hired at Stryker Sustainability Solutions in Lakeland, Fla., for the position of senior staff engineer, packaging.



Thomas Hartrick '82 (CAST), '85 (CAST) was promoted in October 2015 to program director for IBM

developerWorks website, community, and premium software engineering. He is based in Research Triangle Park, N.C., and has worked at IBM for more than 31 years.

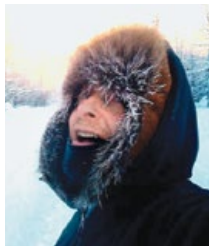
1983

Stephen Lyons '83 (CLA) was promoted in September 2015 to the rank of lieutenant general in the Army and is serving as the deputy commander at U.S. Transportation Command at Scott Air Force Base, Ill.



Harry "O" Friedman '83 (NTID), '85 (CAST) of Silver Spring, Md., celebrated his 30th year with the U.S. Navy on May 17, 2015, in an awards ceremony. He is in the communications department, producing television, videos and photography at the Naval Surface Warfare Center, Carderock Division, in West Bethesda, Md.

1984



Neil Darish '84 (CIAS) is starring in the third season of Discovery Channel's *Edge of Alaska* television

series. The series is a dramatization in a documentary style of life in McCarthy, Alaska. Darish is an associate producer of the show and the main protagonist.



David Noyes '84 (CIAS), '85 (CIAS) has published his first book, *The Photographing Tourist: A Storyteller's Guide to Travel and Photography*. Noyes has won numerous awards for his travel writing and photography, including the NATJA Travel Photographer of the Year for three consecutive years and two prestigious Lowell Thomas Awards for excellence in travel journalism.

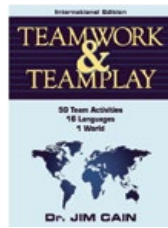
1985



Kenneth Blackwell '85 (CIAS) is CEO of InKlaritas and was elected to a three-year term as president of the board of

directors for the Friends Camp Association of Pennsylvania Inc., the nonprofit organization that owns and operates Camp Onas, the Quaker Camp for kids age 8-13.

1986



James Cain '86 (KGCOE) published his 15th book, *Teamwork & Teamplay International Edition*, which is filled with team-

and community-building activities from around the world, with translations from 16 countries within the same book.

1991



Paul Finkelstein '91 (CIAS) completed his ACB with Toastmasters International after one year and five months.



Scott Saldinger '89 (CIAS), '91 (CIAS) accepted the position of digital sales account manager with CA Technologies in

Plano, Texas. Saldinger is excited to be going into the software industry after a career of 24 years in broadcast television.

1992

Brian Stumm '92 (KGCOE), '93 (KGCOE) was promoted to engineering director for the Specialty Detection and Suppression Systems group, a global business within CCS, part of the United Technologies Corp. He will oversee teams in Finland, Norway, Poland, Spain, China and the U.S., and will be relocating to Brussels, Belgium, from Helsinki, Finland.



Amy Johnson '92 (CIAS) and Glen Dragon '02 (KCGOE), '11 (KGCOE) were married in Pittsford, N.Y., on Sept. 19, 2015. Though attending RIT at different times, they met at a party

hosted by RIT alumni Brent and Tara Josefiak on the night Dragon graduated with his MS in product development. Several RIT graduates joined the celebration and gathered for a group photo by **Heather McKay '96 (CIAS)**. Alumni included in the photo are **Brian Wenink '11 (KGCOE)**, **Rich Stein '93 (KGCOE)**, **Pam Spiteri '87 (CIAS)**, **David March '91 (KGCOE)**, **Jeremy Brown '01 (CAST)**, **Adam Macek '95 (CIAS)**, **Stacy (Kurtz) Lake '05 (SCB)**, **Joanne (Iskra) Macek '94 (KGCOE)**, **Kenton Weigold '07 (KGCOE)**, **Crystal Corley '94 (CIAS)**, **Peter Stoffel '94 (SCB)**, **Jason Faulring '03 (KGCOE)**, **Travis Brown '01 (CAST)**, **Scott Cranfill '07 (CIAS)**, **Bret Woz '03 (KGCOE)**, **Ashley (Cole) Zeh '09 (CLA)**, **Brent Josefiak '12 (KGCOE)**, **Tara (Eichelberger) Josefiak '03 (GCCIS)**, **Kristy (Mooney) Graves '00 (CLA)**, **Josh Doolin '11 (KGCOE)** and **Jeremy Graves '03 (CAST)**.

1993



Joseph Brennan '93 (FAA) writes that one of the most memorable moments of 2015 was when a client came to Brennan

Designs to complete a pair of kneelers.

Wayne Childs '93 (CIAS) returns this spring for his second season serving as an assistant coach for the RIT men's baseball team. He serves under the leadership of head coach Rob Grow, his coach when he played from 1992 to 1993. He works as publishing production manager for General Code LLC, based in Rochester.

1994

Denise Reynolds Lalley '94 (CAST) joined DelMonte Hotel Group in June 2015 as director of group sales.

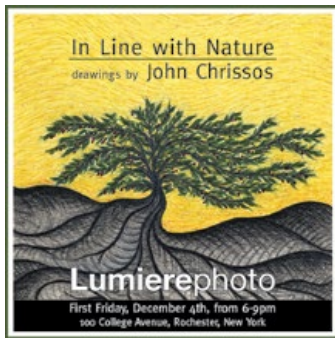


Andrea de Polo '94 (CIAS) is a cultural heritage consultant for several companies including PhaseOne and Alinari Photo Archive and is active in making presentations in the cultural and IT sector to promote the adoption of technologies and new IT solutions for museums, galleries and content providers.

1995

Airy (Bouphavong) Luangaphay '95 (SCB) is now a contract manager at the Texas Department of Information Resources.

1996



John Chrissos '96 (CIAS) is living in Rochester and working as a graphic artist at TLF Graphics for the past six years.

Meghean Faul Feidelman '96 (CAST) is the director of food and nutrition services for Joe DiMaggio Children's Hospital and was awarded the Premier Illuminating Excellence Award for being an outstanding food service professional.

Chris Jackson '96 (CIAS) published his sixth book, *Digital Design in Action*, through Focal Press. The book explores practical and creative design solutions for the Web, apps, e-publications and visual presentations.

1997



Kim Kelsey '97 (SCB), '05 (CAST) married Jeffrey Ilacqua surrounded by friends and family on Oct. 17, 2015. The ceremony and reception were held in Geneva, N.Y.

Mark Higgins '97 (SCB), '03 (SCB) has achieved the certified financial planner designation at Higgins Henderson LLC, awarded by the Certified Financial Planner Board of Standards.

Jeremy Sebest '97 (NTID), '99 (NTID), '02 (CIAS) is a visual designer for Centers for Disease Control and Prevention in Hyattsville, Md.

1998



Marcus Parker '98 (CAST), '02 (CAST) received two international awards from the Project Management Institute, the 2015 PMI Chapter leadership award and his board of

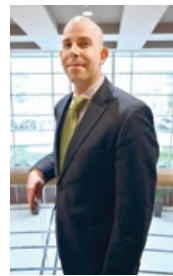
directors won the 2015 PMI award for collaboration and outreach. He is president of the Project Management Institute, Silver Spring, Md., chapter, which has 660-plus members. He is a program manager at the Defense Department and adjunct professor at Trinity University in Washington, D.C. He has published several articles in Defense Department publications on business process improvement using Lean Six Sigma and project management methodologies.



Daniel Harding '98 (CAST), '09 (CAST), '12 (SOIS) recently won the inaugural Heroes Run Marathon on Nov. 7 in Tonawanda, N.Y.

2000

Matthew Sommerfield '00 (CAST) and his wife, Tara, are the founders of MTS Ventures, and in October 2015 they celebrated their 10-year anniversary in business and the graduation of their company from the business incubation program managed by the Allentown Economic Development Corp.



Nicholas Spittal '00 (COS), '01 (SCB) has been promoted to vice president for clinical services at Chiltern, a leading global contract research organization.

2001

Jeffrey Fasoldt '01 (SCB) has joined Annese & Associates Inc. as executive vice president and chief financial officer. The company is a communications technology sales company in Herkimer, N.Y.

2002

Thomas Policano '02 (CAST) retired after 39 years at RIT.

Charlene Knight '02 (CLA) graduated in December 2015 from the Seminary at Southwestern Assemblies of God University with a Master of Divinity degree and in January 2016 she began pursuing a doctorate program at United Theological Seminary in Dayton, Ohio.

2003



Joshua Zatulove '03 (GCCIS) and Jessica Peltz were married on May 3, 2015, in

Cherry Hill, N.J. They honeymooned in Southeast Asia and Hawaii. They live in New York City.



Michael Pletka '03 (CIAS), '13 (SCB) married Nicole Albano in September 2014 in Westhampton Beach, N.Y. Alumni in attendance included best men **Rick Brown '04 (GCCIS)** and **Jim Hutchings '03 (GCCIS)**, and friends **David Murphy '04 (GCCIS)**, **Phil Szrama '11 (CIAS)**, **Stefan Enjem '04 (KGCOE)**, **Molly (Kearns) Enjem '04 (KGCOE)**, **Richard Moore '07 (CAST)** and **Melissa (Sanborn) Moore '03 (CIAS)**. They honeymooned in Hawaii and live on Long Island, N.Y.

2004

David Fetzer '04 (COS) was promoted to medical director of ultrasound for the department of radiology at Parkland and UT Southwestern University hospitals in Dallas.

Keith Le Claire '04 (GCCIS) began working at Cablevision Lightpath Inc. as advanced engineer for IP switching solutions. He married Francesca Algeri in Massapequa, N.Y., on Oct. 14, 2014.



Melissa Keith '04 (CIAS) was married Oct. 24, 2015, to Kevin Szczepanek in Bella Vista, Ark. Among the attendees were **Lisa (Seifred) Van Aller '04 (CIAS)**, **Lori Kramerson '04 (CIAS)**, **Matthew Schuler '04 (CIAS)** and **Jessica (McCaffree) Mans '03 (CIAS)**. They live in Bentonville, Ark.



Michael Hineman '04 (CIAS) and Katie Lisandrelli were married on April 25, 2015, in Buffalo, N.Y. Many alumni attended.

2005



Melissa Kelting '05 (SCB) married David Kelting in Lockport, N.Y., on Sept. 4, 2015. The wedding was attended by alumni **Mariah Finegan '05 (CIAS)**, **Kristine (Werner) Lickstein '06 (CAST)**, **David Lickstein '04 (CAST)**, **John Matyjasik '06 (CAST)** and **Andrew Kamensky '05 (SCB)**. The couple honeymooned in Jamaica.

2006



Alan Shechter '06 (GCCIS) writes that three generations of RIT graduates got together on campus over the Thanksgiving weekend. Joining Shechter were **Harold Shechter '75 (CCE)** and **Jake Shechter '14 (COS)**.



Jay Morosey '06 (CAST) married Shawn Evans in Destin, Fla., in October 2015. They were joined by **Andrew Brais '06 (KGCOE)**, **Jody Podpora '06 (GCCIS)**, **John Kitchura Jr. '06 (KGCOE)** and **Christina Mule '06 (CLA)**.



Christopher Adams '06 (SCB) was promoted to total rewards lead, North America at Nasdaq. He was compensation associate in the company's human resources department.

2007

Calvin Eaton '07 (CAST), '09 (CAST) is the editor-in-chief of theglutenfreechefblog.com, an online health and wellness community dedicated to living a gluten-free lifestyle.



Kathryn (Palermo) Kaczmariski '07 (CIAS) celebrated her marriage to Ben Kaczmariski on June 27, 2015.



Christopher Cody '07 (CAST) has earned a license as professional engineer in New York state. Cody also holds a LEED AP Building Design and

Construction professional credential from the U.S. Green Building Council.

2008

Josa Hanzlik '08 (KGCOE) finished her Ph.D. in biomedical engineering at Drexel University in September. She has accepted a job at ZSX Medical, where she is a National Science Foundation Small Business Postdoctoral Research Diversity Fellow.



Stephen Staurovsky '08 (GCCIS) and Crystal Curr were married on Oct. 31, 2015. The ceremony took place in Connecticut and was attended by family, friends and numerous RIT alumni.

2009

Jonathan Berman '09 (COS) has been promoted to the rank of junior sidewalk engineer at the Bexar County Department of Public Works, Transportation and Water Treatment.



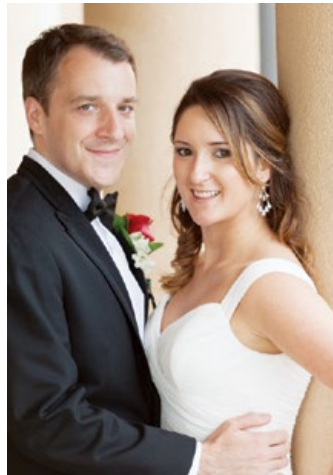
Jason Ciuzyński '09 (CAST) has become a licensed professional engineer in the state of New York.

2010

Stephen Nims '10 (SCB) accepted a position as a senior accounting advisor at Dell SecureWorks in Atlanta in December 2015.

Laura Carbonneau '10 (CLA), '12 (CAST) received a promotion at Northfield Mount Hermon school. She is now the associate director for the alumni and parent giving and programs department.

Sarah Kohl '10 (SCB) has been running her own online marketing company, Oatka Media LLC, for the past two years. She was recently recognized at an international Webmaster's conference and is now expanding her offerings to include website design.



Amanda Vargas '10 (CLA) and **Robert Dixon '09 (CAST)** exchanged vows on Aug. 1, 2015. The ceremony took place in Rochester and was celebrated by many loved ones, including numerous RIT alumni.

Elizabeth Maria Del Valle '10 (SCB) jumped on a new role as a partner marketing manager at Google Inc. in October 2015.



Joshua Myers '10 (CLA) earned a second master's degree at the University at Buffalo. After a few years in leadership with the YMCA of Greater

Rochester, he now serves as membership director with the Tampa Metropolitan Area YMCA in Tampa, Fla.

2011



Alex Usachev '11 (KGCOE) received a promotion to engineering manager and is now part of the executive team at Five9 Network Systems LLC.



Anna Gilgur '11 (KGCOE) got married to Daniel Copel on Jan. 2, 2014, in Boulder, Colo. **Sheryl Gillow '11 (KGCOE)**, **Shaynae Moore '11 (KGCOE)**, **Rachel Lucas '13 (KGCOE)**, and **Bart Moore '11 (GCCIS)** attended.



Joshua Rodems '11 (CAST) is a structural engineer in the Transportation Engineering group and has earned his license as a professional engineer in the state of Pennsylvania.

Samuel Rueby '11 (GCCIS) married Samantha Newman on Jan. 2, 2016.



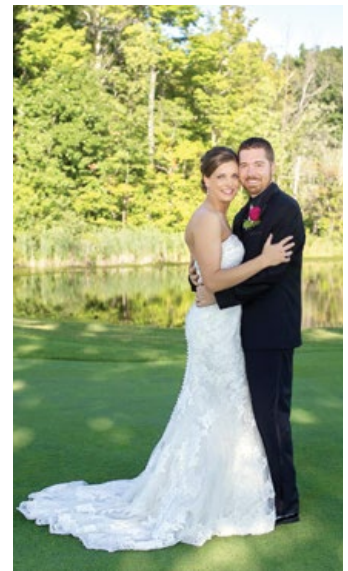
Christine Damato '11 (CIAS) and **Benjamin Pheil '12 (COS)** were married on Sept. 26, 2015, on a mountaintop in the Poconos. They live in Boston.



Claire (Pedziwiatr) Decker '11 (CLA) and **Athan Decker '09 (NTID)** got married on Sept. 19, 2015, in Tinley Park, Ill. Forty-five RIT alumni and students from 1973 to the present celebrated with them.



Erin (Hazel) Huba '11 (CIAS) and **William Huba '11 (GCCIS), '12 (GCCIS)** were married on Sept. 25, 2015, in Providence, R.I. Photos were taken by **Dustin McKibben '11 (CIAS)**.



Raquel (Schubert) Morris '11 (COS), '11 (CAST) and **William Morris '15 (GCCIS)** are happy to announce their marriage on Aug. 22, 2015. The ceremony and reception were held in Victor, N.Y. The couple is planning their honeymoon to Banff National Park in August 2016.

Erciyes Fikret Ercan '11 (KGCOE) is the co-founder of a Chicago-based hardware startup called Monument. The company is building a personal cloud device for photos and videos. It collects and organizes user content automatically according to time, location, faces and what's inside.

Angela Zambito '11 (COS) graduated from the Royal Veterinary College in London on July 15, 2015. Zambito passed her veterinary boards and exams and has started working as a veterinary surgeon at Fenwold Veterinary Practice.

Shaun Eller '11 (SCB) was promoted to vice president at Ohio Gratings. He was the general manager of the company's Texas facility.

2012



Ryan Toukatly '12 (KGCOE) and **Ellen Graser '10 (CIAS)** were married in Cazenovia, N.Y., on Oct. 24, 2015. In attendance were fellow RIT alumni **Brandon "Iffy" Ifert '10 (GCCIS)**, **Megan Clegg '10 (CIAS)**, **Andrew Maruska '10 (CIAS)**, **Will Halas '10 (CIAS)**, **Ben Neubauer (KGCOE)**, **Evan Stark '09 (CLA)**, **Asa Alger '10 (CIAS)**, and **Nicole Taylor '14 (CHST)**.



Derek Hitesman '12 (CAST) and **Brianna Bobbe '14 (CIAS)** were married on June 20, 2015. Hitesman works for HP Hood LLC in Arkport, N.Y., as an environmental health and safety specialist. Bobbe works for Gunlocke in Wayland, N.Y., as a designer.



Colin McCune '12 (KGCOE) has been named a recipient of Harris Corp.'s inaugural Ten under Ten award. McCune led a team responsible for resolving significant

customer issues and has been personally requested by that customer for future projects. He also serves as networking chair for Harris Young Professionals and is a frequent volunteer for community outreach projects.



Shauna Traxler '12 (KGCOE) married her best friend and boyfriend of 10 years on Sept. 26, 2015. The ceremony was held at Asbury First United Methodist Church in Rochester.



Danielle Walters '12 (KGCOE) has been named a recipient of Harris Corp.'s inaugural Ten under Ten award. Walters was the technical lead on a project that reduced cost and implemented technical fixes on an RF circuit board. She also serves as treasurer of the Rochester section of the Society of Women Engineers (SWE).

2013



Justine Bagley '13 (KGCOE) has been named a recipient of Harris Corp.'s inaugural Ten under Ten award. Bagley was key in driving process improvements in manufacturing operations at Harris. She also led outreach efforts to high school students and provided demonstrations of Harris products.



Alexander Viola '13 (KGCOE) and **Shea Foley '12 (COS)** were married June 6, 2015, in Buffalo, N.Y. Thirty-eight RIT alumni attended, ranging from graduating classes of 1965 to 2016. Viola's parents are also alumni: **Tom Viola '87 (KCGOE)** and **Mariellen (Arnitz) Viola '86 (CIAS)**.

Morgan Mowins '13 (CIAS) accepted a position at HDLC Lighting design firm in New York City as an architectural lighting designer.

Tahra Lawson '13 (SOIS) graduated from Roberts Wesleyan College with an MS in strategic leadership in December 2015.

2014



James Di Pasquale '14 (CAST) is a project engineer in Erdman Anthony's Facilities group and has earned a license as a professional engineer in the state of New York.



Sean Cooney '14 (KGCOE) joined the Rochester office of Erdman Anthony in November 2015 as a mechanical engineer in the facilities engineering and design services core business.



Meghan Ryan '14 (CAST) and **Matthew Raymond '14 (CAST)** were married on Oct. 3, 2015, in Liverpool, N.Y.



Jieting Chen '14 (CIAS) had her work featured in Chelsea's Agora Gallery. The exhibition, held in December 2015, highlighted the work of 15 artists. Using watercolor on paper, Chen paints images that balance negative space with color in explorations of expression and the human form.



Joseph Agyemang '14 (SCB) was selected as the International Missionary of the Year with the Church of the Living God International Inc. for establishing and supporting churches in the foreign missions field.

David Royka '14 (CIAS) taught graphic design at RIT from 2008-2013. After five years of teaching and completing his MFA in computer graphics design, he started working for Hearst Digital Marketing Services in Amherst, N.Y. Hearst DMS offers marketing products to help businesses of all sizes to grow successfully online. In December 2015, Royka was promoted to creative director of the 700-person division.

2015

Eric Jones '15 (CAST) accepted his first full-time job at Vista Design Inc.

Bryan Beatrez '15 (KGCOE) was accepted into a Master of Science in Engineering and MBA dual-degree program at Purdue University and Indiana University.

Anna Thelen '15 (NTID) is working as the chemistry laboratory technician in Silliker Laboratories Inc., also known as Merieux NutriSciences, in Allentown, Pa.

Evan Darling '15 (CIAS) won seventh place in the international Nikon Small World imaging competition. The competition, which is designed for scientific images that were taken through a microscope, shows the beauty of the scientific method and the microscopic landscapes that make up the world.



Dina Johnson '15 (CHST) has a job at ALS Environmental Laboratory as a chemical analyzer.

Rebecca Nolan '15 (CHST) was accepted to Philadelphia College of Osteopathic Medicine's physician assistant program for the class of 2018.

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 ritalum@rit.edu or call the office toll free at 866-748-2586. Written change of address notifications 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.

Alumni Activities

Dan Christner '07, Megan Cheever and Victor Santiago '13 are your contacts in the Office of Alumni Relations for regional alumni activities. Contact them toll free at 1-866-RIT-ALUM. To learn more about RIT alumni events, go to www.rit.edu/alumni.



A Boston

On Nov. 28, more than 50 alumni and guests enjoyed a pre-game reception with head coach Wayne Wilson before the men's hockey game against Boston College.

Buffalo

On Dec. 12, alumni and guests gathered for a pre-game reception with head coach Wayne Wilson and hockey alumnus **Christopher Haltigin '12** prior to the men's hockey game against Niagara University.

Chicago

On Feb. 27, alumni and guests took part in a "Chicago's Finest Tour," a four-phase Pedway Tour. Attendees competed in a Chicago/RIT-based trivia contest throughout the tour for prizes.

Denver/Colorado Springs

On Feb. 6, alumni and friends gathered at Phantom Canyon Brewery Company in Colorado Springs before the men's hockey team battled divisional rival Air Force for a pre-game reception with head coach Wayne Wilson.

B India

On Nov. 21, Chennaiyin F.C. CEO **Ashish Shah '92** hosted area alumni at the Indian Super League game against the Kerala Blasters. A pre-game meet-up was held at Social Madras gastropub in Chennai where

Executive Chef **Vivek Desirazu '11** hosted the group.

On Jan. 17, alumni in Mumbai hosted several current students during winter break for lunch. Special thanks to **Ashutosh Agarwal '01, Manasi Manjrekar '10** and current student **Samket Dhami** for organizing the event.

Los Angeles

On Feb. 27, alumni and guests enjoyed a special dinner and discussion on RIT at the Smith House.

Mid-Hudson Valley

On Nov. 6-7, alumni gathered to watch the men's hockey team take on Army in West Point, N.Y. Special thanks to **Sergey Katsev '06** for hosting receptions at the Thayer Hotel and the South Gate Tavern that weekend.

Nashville

On Jan. 28, alumni and guests attended an inaugural chapter event at Amerigo Italian Restaurant hosted by **Tim Stallman '96, '09**.

New York

Alumni enjoyed a talk on artificial intelligence with Sean Hansen, associate professor, at the Playwright Tavern in Midtown on Nov. 12.

C Rochester

On Dec. 9, alumni gathered at Barnes and Noble @ RIT for a reception and

annual discount night. Thanks to host **Peter Briggs '82**.

On Dec. 12, alumni and their families enjoyed a day of cooking in Pittsford, N.Y., at the Wegmans Culinary Kids cooking class.

Alumni and their families enjoyed hot chocolate, cookies and a visit from Santa on the annual Polar Express train ride in Medina, N.Y., on Dec. 13.

Alumni enjoyed a trip back in time during a festive Yuletide Tour of the Genesee Country Village Museum on Dec. 19 in Mumfords, N.Y.

The Rochester and Syracuse chapters joined together on Jan. 9 for a reception and game as the Syracuse University men's basketball team took on University of North Carolina in Syracuse, N.Y.

On Feb. 20, alumni and friends enjoyed a reception at Lovin' Cup and a night of laughs at RIT's Gordon Field House with comedians John Mulaney and Nick Kroll during FreezeFest.

Alumni and guests gathered at Geva Theatre on Feb. 17 for a special reception and sold out showing of Harper Lee's *To Kill A Mockingbird*.

Raleigh-Durham

On Dec. 12, alumni and guests enjoyed *Nuncrackers: The Nonsense Christmas Musical* at the North Raleigh Arts and Creative Theatre.

South Florida

On Jan. 23, alumni enjoyed lunch at Anthony's Coal Fired Pizza. Thanks to **Paul Finkelstein '91** for hosting.

D Syracuse

On Jan. 9, more than 100 alumni and guests gathered at the annual chapter pre-game reception and men's basketball game as the Syracuse Orange took on the North Carolina Tar Heels. Thanks to **Heather Andersen '07** for hosting.

E Taiwan

On Dec. 5, alumni gathered in Taipei to welcome Provost Jeremy Haefner, Associate Provost of International Education and Global Programs James Myers and Computer Engineering Department Head Shanchieh Jay Yang. Thanks to **Ken-Yu Chien '08** and **Winnie Lin '06** for hosting.

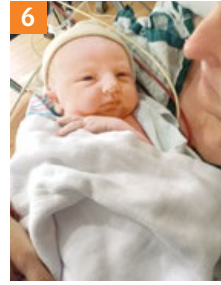
F Washington, D.C.

On Nov. 18, alumni in Baltimore gathered at the newly opened Dinosaur Bar-B-Que to enjoy a taste of Western New York.

On Nov. 21, alumni and guests enjoyed a tour of the Smithsonian National Air and Space Museum.

On Jan. 16, alumni and guests gathered at City Tap House with **Andy Phelps '99**, founding director of the MAGIC Center at RIT.

Tiger Cubs



1 Gary Skillman '64 (KGCOE) is a proud grandfather. His grandson, Sam Skillman Nabulsi, was born in November 2015.

Patrick St. Cin '82 (CIAS), '83 (CIAS) and Judy St. Cin are happy to announce the birth of their first grandchild, Abigail Carter, in October 2014 in Austin, Texas. Abigail's grandparents are also happy to be living close enough to be instant babysitters.

2 Jeffrey Wellings '95 (SCB) and Colleen Baker are proud to announce the birth of their son, John "Jack" Francis, born July 6, 2015.

3 Michaiiah (Mayes) Rundell '99 (CAST) is excited to share the news of the birth of her daughter, Charlie Monica, in November 2015.

4 Matthew Stenberg '99 (CAST) and his wife, Kristy Stenberg, are proud to announce the adoption of their second future RIT Tiger, Lily Constance, in November 2015.

5 Kathryn (Palmacci) Musiak '02 (SCB) and Jason Musiak are proud to announce that Owen Alexander was born on March 17, 2015. Big brother James is thrilled with the addition to the family.

6 Thomas Naeger '03 (GCCIS) and Victoria Naeger, along with sister Sophia, are happy to announce the birth of a baby girl, Scarlet Amelia, on Sept. 5, 2015, in East Amherst, N.Y.

7 Jordan Caminiti '03 (GCCIS), '11 (GCCIS) welcomed a son, Anthony Paul, in December 2015.

8 Luke Faxon-St. Georges '04 (SCB) shares the news of the birth of his son, Braden, in October 2015.

9 Denisha (Flanigan) Ortiz '04 (SCB) and Orlando Ortiz '04 (CAST), '08 (SCB), welcomed Gian Xavier into the world in September 2015.

Jonathan Raduns '05 (CAST) is proud to announce the recent adoption of a son, 6-year-old David Ying He Raduns.

10 Michael Maeder '05 (KGCOE) and his wife, Swati, welcomed their second daughter, Aarya Winifred Maeder, on Oct. 9, 2015. Big sister Shreya Mabel was excited to meet her.

Emma Ashley-Hollander '05 (CAST) and David Ashley '04 (CAST) welcomed a baby girl, Ryan Maya, June 13, 2015.

11 Kara (Doughman) Austin '05 (CIAS) and her husband, Matthew Austin, proudly announce the birth of their son, Milo Roger, on Aug. 17, 2015, in Rochester.

12 Katherine Offen-Elie '05 (CIAS) and Austin Elie are proud to announce the birth of their first child, Iris Leah Elie, born at home in Forestville, N.Y.

13 Rose Khan '06 (CIAS), '09 (CIAS) and Jamil Khan '06 (CLA) would like to announce the birth of their daughter, Cadence Thalia Khan, born Sept. 24, 2015.

14 Michael Herb '06 (CLA), '07 (CLA) and Stephanie (Matuszewski) Herb '07 (COS) are pleased to announce the birth of their twin girls, Tessa Alice and Sadie Grace. They were born on Feb. 12, 2015.

15 Kari Cameron '06 (CLA) is the proud parent of a son, Colin, who was born in June 2015.

Jason Swart '07 (GCCIS) welcomed a baby boy, Hunter Mason, in February 2015.

16 Sara Gorman '07 (CAST) and her husband, Michael, welcomed a baby boy, Jacob Ford Gorman, on July 17, 2015.

17 Priscila Dauphin '08 (COS) and Frankie Dauphin '08 (GCCIS) welcomed their second child, Malakai Lucas, into the world on Feb. 17, 2015.

18 Frances Cabrera '08 (CAST) and Joseph I. Dube '08 (CIAS) are the proud parents of Leon Joaquin Dube, born on Sept. 5, 2015. Joe and Frances have been married since 2011 and live



in New York City. He is the marketing and media director for KraneShares and she is a vice president at Barclays.

19 Allison Cinus '08 (SCB) and her husband, Fabien, announce the birth of a son, Luigi.

20 Kamie (Frankenberger) Chevalier '09 (COS) and her husband, Omar, are proud to announce the birth of their first daughter, Ava Lynn, on March 31, 2015.

21 Dani (Simmons) White '09 (COS) and her husband, Jason, welcomed Nora James White on June 30, 2015, in Syracuse, N.Y.

22 Evert Garcia '10 (CAST) and his wife, Nayeli, are pleased to announce the birth of their first baby boy, Noah Alexander, on May 19, 2015.

23 Christine (Lowry) Moulton '10 (KGC OE) and Alex Moulton '10 (KGC OE) are proud to announce the birth of their daughter, Charlotte Elizabeth, on May 29, 2015.

24 Anna Gilgur '11 (KGC OE) and Daniel Copel welcomed Rebekkah Juniper Copel to the world on Aug. 16, 2015.

25 Christian Seemayer '11 (KGC OE) and his wife, Lindsey, are happy to announce the birth of their daughter, Adeline Grace. This is the first child for the couple.

Rianna Sawicky '11 (CLA) and Nicolas Sawicky '11 (CAST) are proud to announce the birth of their son, Nicolas Michael, on Dec. 11, 2015, in Syracuse, N.Y.

26 Yvette (Howland) Lyons '11 (COS) and Keith Lyons '11 (KGC OE) are proud to announce the birth of their son, Brayden Xavier, on May 25, 2015.

27 Wan Mohamad '11 (COS) announced that her daughter, Dahlia Hana, was born in January 2015.

28 Laurel Myers '12 (CIAS) along with her husband, Ryan, are delighted to announce the birth of their daughter, Allison, in October 2015 in Marietta, Ga.

29 Ayham Haddad '12 (SCB) and Raeda Addoum welcomed Amy Bella Haddad into the world on a snowy Chicago night on Dec. 20, 2014.

30 Nurul Nadiyah Osman '13 (COS) is proud to announce the birth of her son, Ahmad Jamal Ahmad Hazrif, in August 2015.

31 Nur Anis Hanim Mohamad Azemi '13 (COS) welcomed a baby son, Muhammad Umar Haziq, in October 2015.



Tiger baby bib

If you are a graduate of RIT and you have recently had a child join your family, request your free future RIT tiger baby bib at www.rit.edu/alumni/updateinfo/babybib.php.

What's your legacy?

“The legacy we leave is part of the ongoing foundations of life. Those who came before leave us the world we live in. Those who will come after will have only what we leave them. We are stewards of this world, and we have a calling in our lives to leave it better than how we found it, even if it seems like such a small part.”

—Jim Rohn, business philosopher and author

Your legacy—it's something you create during your lifetime purely for the benefit of future generations. Legacies come in all shapes and sizes with varying levels of effort and commitment. How do you know what's right for you and your family? When is the time to start thinking about and planning for the legacy you will leave behind?

The answer is it depends on a number of factors but it doesn't have to be complicated and we are here to assist. To find out more about how to create your legacy and the options available, please visit rit.edu/legacy or contact Hal Burrall at 585.475.3106 or email plannedgiving@rit.edu.

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



Alumni

- 1941**
Carmela M. Costanzo '41 (FAA), Sept. 3, 2015
Helen K. (Claudius) Leo '41 (SCB), Dec. 28, 2015
- 1942**
Elizabeth R. Williams '42 (SCB), Dec. 12, 2015
- 1943**
Donald P. Fox '43 (KGCOE), Nov. 11, 2015
- 1945**
Jeanne C. (Carrier) Lowe '45 (GAP), Nov. 25, 2015
- 1946**
Nancy L. (Roberts) Moore '46 (FAA), Dec. 9, 2015
- 1947**
Thomas G. Moran '47 (SCB), Oct. 24, 2015
- 1948**
Shirley L. (Van Order) Steimle '48 (SCB), Sept. 9, 2015
Frank J. Horek '48 (KGCOE), Nov. 9, 2015
Robert J. Anselm '48 (KGCOE), Sept. 22, 2015
- 1949**
Charles J. Amorese '49 (COS), Dec. 20, 2015
- 1950**
Edward A. Brabant '50 (GAP), '64 (GAP), Dec. 17, 2015
Lewis T. Connolly '50 (GAP), '63 (COS), Nov. 1, 2015
Alexander A. Humulock '50 (KGCOE), Dec. 2, 2015
Doris H. (Henry) Postle '50 (SCB), Aug. 28, 2015
Joseph A. Whalen '50 (FAA), Dec. 17, 2015
- 1951**
Warren Reigelsperger '51 (CCE), Dec. 9, 2015
- 1952**
Frank E. Cantisano '52 (CCE), Sept. 6, 2015
Thomas E. Doughty '52 (CCE), Nov. 10, 2015
- 1953**
Eugene Viggiani '53 (CCE), Nov. 15, 2015
Margaret Delahanty '53 (SCB), Dec. 30, 2015
Michael Cirrincione '53 (CCE), Dec. 11, 2015
Robert V. Buckpitt '53 (KGCOE), Oct. 5, 2015
- 1954**
William E. Kukura '54 (CCE), Aug. 28, 2015
James F. Mercendetti '54 (CCE), Aug. 28, 2015
Walter A. Hutchinson III '54 (CCE), Dec. 15, 2015
- 1955**
Janet M. (Miller) Marriott '55 (SCB), Nov. 11, 2015
George G. Gleichauf '55 (CCE), Aug. 31, 2015
- 1956**
William F. Wheatley '56 (GAP), Nov. 18, 2015
William R. Towns '56 (GAP), Dec. 26, 2015
Robert J. Armstrong '56 (SCB), Nov. 28, 2015
- 1957**
Mary H. Hoffman '57 (CCE), Dec. 17, 2015
John R. Ozminkowski '57 (KGCOE), Oct. 20, 2015
- 1959**
Joel W. Hand Jr. '59 (GAP), Nov. 4, 2015
Joseph Naylor '59 (CCE), Sept. 22, 2015
- 1960**
David J. Crandall '60 (SCB), Dec. 28, 2015
Curtis E. Epley '60 (SCB), Dec. 2, 2015
Kenneth C. Herr '60 (KGCOE), Nov. 26, 2015
George R. Milligan Jr. '60 (CCE), Sept. 3, 2015
- 1962**
George H. Jennings '62 (GAP), Oct. 21, 2015
Andrew J. Bedrin '62 (KGCOE), Sept. 19, 2015
Lawrence Stromquist '62 (COS), Aug. 29, 2015
- 1963**
John W. Rath '63 (CCE), Dec. 12, 2015
Arnold Schollnick '63 (CCE), Dec. 4, 2015
- 1964**
Denniston K. Wood '64 (CCE), Oct. 18, 2015
Joseph B. Kurzweil '64 (KGCOE), Sept. 29, 2015
Roger A. Drexler '64 (CCE), Nov. 17, 2015
- 1965**
John R. Thompson '65 (GAP), Oct. 26, 2015
Jack A. Osborne '65 (CCE), Oct. 20, 2015
Rudolf K. Minier '65 (CCE), Dec. 15, 2015
John J. Hessney '65 (CCE), Sept. 14, 2015
- 1966**
Donald G. Waterman '66 (CCE), Dec. 12, 2015
Robert G. Stocks '66 (CCE), Dec. 22, 2015
Bruce W. Wadsworth '66 (KGCOE), Sept. 2, 2015
Charles A. Powers Jr. '66 (GAP), Sept. 2, 2015
Robert S. Lombino '66 (CCE), Dec. 16, 2015
- 1969**
Edwin H. Davis '69 (KGCOE), Nov. 28, 2015
- 1970**
Earl G. Pearce '70 (CCE), Dec. 20, 2015
Gary A. Brogdon '70 (GAP), Nov. 6, 2015
David A. Debyah '70 (KGCOE), Oct. 30, 2015
Richard D. Saunders '70 (COS), Nov. 19, 2015
- 1971**
Thomas W. Silveria '71 (SCB), Nov. 3, 2015
Sheila K. (Moore) Glenn '71 (NTID), Sept. 15, 2015
- 1972**
Diane L. (Langworthy) Nettles '72 (NTID), Oct. 27, 2015
David K. Feeter '72 (CCE), Nov. 5, 2015
Ira M. Long III '72 (GAP), Oct. 28, 2015
Dennis J. Caracciolo '72 (GAP), Sept. 6, 2015
- 1973**
Roger B. Comstock '73 (SCB), Dec. 24, 2015
- 1975**
William Bray '75 (CAST), Oct. 3, 2015
Ronald B. Call '75 (CCE), Oct. 7, 2015
George Pierson '75 (SCB), Oct. 13, 2015
Chetan Mehta '75 (KGCOE), '78 (KGCOE), Nov. 24, 2015
Michael J. Malone '75 (CCE), Sept. 1, 2015
- 1976**
Joyce C. Jelinek '76 (CAST), Oct. 14, 2015
Paul E. Griggs '76 (CCE), Dec. 27, 2015
David George Ashley '76 (CAST), Sept. 30, 2015
Walter P. Davids '76 (SCB), Dec. 7, 2015
- 1977**
Mitchell J. Azoff '77 (FAA), Oct. 21, 2015
Alan Paul Uthman '77 (COS), Oct. 25, 2015
Allen L. Ruster '77 (SCB), Nov. 10, 2015
- 1978**
Karen K. Anderson '78 (CAST), Dec. 3, 2015
Stephen F. Geissler '78 (KGCOE), '81 (KGCOE), Dec. 11, 2015
Mark Edward Piekarski '78 (CAST), Sept. 3, 2015
Duane A. Downey '78 (CCE), Sept. 29, 2015
Bruce W. Java '78 (SCB), Nov. 27, 2015
Betsy (Borkman) Hoople '78 (FAA), '80 (FAA), Sept. 12, 2015
Linda J. Ross '78 (COS), Dec. 8, 2015
Henry Louis Sager '78 (CCE), Sept. 16, 2015
Gary W. Nothnagle '78 (CAST), Sept. 6, 2015
Wayne R. VanThof '78 (SCB), Sept. 22, 2015
- 1979**
Deborah A. Woodard '79 (COS), Nov. 30, 2015
- 1980**
Sandy Michael Capone '80 (COS), '87 (CCE), Nov. 13, 2015
Ricky Sands '80 (CLA), Dec. 23, 2015
- 1981**
Robert Kevin Baylor '81 (GAP), Nov. 7, 2015
Laura Elliott-Engel '81 (CLA), Nov. 2, 2015
Valerie Jeanne Trenchard '81 (CCE), '87 (SCB), Oct. 16, 2015
Gary Robert Mutolo '81 (CCE), '83 (CCE), Oct. 3, 2015
- 1982**
Janice A. Brown '82 (CLA), Sept. 24, 2015
Robert H. VanValkinburg '82 (FAA), Oct. 5, 2015
Patricia A. Schmitt '82 (CCE), Oct. 30, 2015
- 1983**
Terry Michael Radigan '83 (SCB), '87 (KGCOE), Nov. 2, 2015
Kenneth Joseph Galen '83 (CCE), '90 (CCE), Nov. 7, 2015
Ricky Terrance Lee Elmeer '83 (NTID), Aug. 28, 2015
Liz Marchese '83 (KGCOE), Dec. 23, 2015
- 1984**
Shirley M. Gray '84 (CAST), Sept. 25, 2015
- 1985**
Joseph M. Warakowski '85 (CAST), Dec. 5, 2015
Douglas G. Russell '85 (CAST), Sept. 22, 2015
Samuel Horne '85 (SCB), Sept. 25, 2015
James Ellery Bridges '85 (SCB), Nov. 24, 2015
- 1989**
Elaine M. Polvinen '89 (FAA), Oct. 13, 2015
Patricia M. Harrison '89 (FAA), Oct. 22, 2015
- 1990**
Karen L. Montrosi '90 (FAA), Nov. 16, 2015
- 1991**
John B. Kinnicutt '91 (CCE), Nov. 15, 2015
Terri Anne Clingerman '91 (KGCOE), Sept. 5, 2015
Susan M. Hojnacki '91 (KGCOE), '00 (COS), '05 (COS), Nov. 14, 2015
- 1992**
James Roderick Newell '92 (CCE), Aug. 30, 2015
David Mark Knight '92 (CAST), Dec. 13, 2015
Jill E. Ott '92 (NTID), '93 (NTID), Oct. 3, 2015
Anna Lisa Staffelbach '92 (FAA), Sept. 25, 2015
Joan E. Hertely '92 (KGCOE), Oct. 16, 2015
- 1993**
Joan C. Beale '93 (CCE), '97 (CAST), Dec. 18, 2015
- 1995**
Christopher Bearup '95 (CAST), Dec. 20, 2015
- 1997**
Giselle M. Gonsoulin '97 (NTID), Aug. 27, 2015
LerMande L. Hendricks '97 (NTID), Dec. 31, 2015
- 2000**
Patricia L. Buyea '00 (SCB), Sept. 2, 2015
- 2003**
Thomas J. Henthorn Jr. '03 (COS), Oct. 5, 2015
- 2004**
Danielle L. Tourgee '04 (CIAS), Sept. 11, 2015
- 2008**
John P. Hannigan '08 (KGCOE), Sept. 5, 2015
- 2011**
Robert R. Gerace '11 (CAST), Nov. 26, 2015

Faculty and staff

Josephine (Gray) Adams, associate professor of language and thought and conference techniques, Nov. 25, 2015

David Crystal, professor emeritus in the School of Mathematical Sciences, Oct. 3, 2015





A major part of the learning and living experience at Computer Science House, one of RIT's special interest houses, is creating special projects using computing and technology.

RIT Archive Collections

Computer Science House celebrates 40th anniversary

To kick off the Computer Science House 40th anniversary weekend, alumni and current students will unite for a game of Capture the Disk—a modified version of capture the flag that substitutes old 12-inch hard drive platters for flags and thrown balled up socks for tagging.

The more than 20-year-old game is just one of the many traditions of Computer Science House, one of the oldest special interest houses at RIT. Founded in 1976 and located on the third floor of Nathaniel Rochester Hall, CSH provides a living environment for more than 50 on-floor students and dozens of off-floor members who are interested in computing and technology.

CSH alumni coming back to campus April 15–17 will get tours of the CSH floor and a behind-the-scenes tour of the new Gene Polisseni Center. The anniversary weekend

will also feature specially designed T-shirts, a brunch and a formal banquet.

“The anniversary is a great way to make connections with some of our incredible alumni from the past 40 years who have worked for major corporations and started their own businesses,” said Andrew Glaude, a fourth-year computer science major from Simsbury, Conn.

While much has changed in computing over the years, CSH's mission has always been to help its members grow intellectually, socially and professionally. Creating special projects—such as software that helps students make their class schedule or Drink and Snack, the floor's two networked vending machines that allow members to order items from their computer or phone—is an integral part of being a CSH member. The floor's full wood shop, electronics research room and

server room are just some of the resources that help CSH students continually create.

Matt Campbell '03, '12 said what he learned at CSH is just as indispensable as what he learned in the classroom. “It is safe to say that I would not be where I am today without my time in Computer Science House,” said Campbell, who is manager of infrastructure applications and datacenter technical services for RIT's Information and Technology Services and an adviser for CSH.

Scott Bureau '11

To learn more

Go to 40th.csh.rit.edu for anniversary event details. Also, plans are in the works to build a new Computer Science House. Learn more at rit.edu/csh40.

Save the Dates!

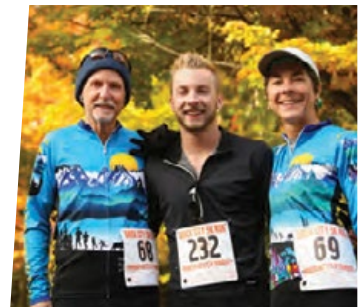
October 14th-16th

Over 150 activities to watch or participate in, including **Men's Hockey at Blue Cross Arena**, **Tours**, **Presidents' Alumni Ball**, **Nationally-Known Speakers and Entertainers**, **Athletic and Greek Reunions**, **Golden Circle Luncheon**, **Pumpkin Chunkin**, **Dueling Pianos**, **Brick City 5K**, **Haunted Trail** and more!



BRICK CITY HOMECOMING & FAMILY WEEKEND

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room!



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available in
June!



Registration
opens in
July!



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Hotels book fast so reserve your room soon! Follow us on social media for all weekend updates.

R·I·T

Experience the **FUTURE** SATURDAY, MAY 7



A Free Festival For Everyone

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

When: 10 a.m. to 5 p.m. Saturday, May 7.

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

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

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

