

# Rochester

UNIVERSITY OF ROCHESTER/JANUARY-FEBRUARY 2018

## Review

### GOING PLACES

See the sights in the study abroad photo contest.

### THE RAILS OF EMPIRE

How an iconic railway set the stage for globalization.

### NO WAITING FOR ART

An introductory class offers an artistic touch to a city program.

# 'Set the Bar and Set It High'

An independent investigation into allegations of sexual harassment challenges Rochester to hold itself to a higher standard.

## Leading the Conversation

Former dean Richard Feldman named interim president.

# A Gift of Gratitude

The School of Medicine and Dentistry's Toxicology program was in its infancy in the 1960s when Drs. Judith and James MacGregor '71M (PhD) met as graduate students. It has now earned an international reputation as a center of excellence for the education of those who ensure the safety of drugs and chemicals. "We feel like part of the family that helped develop our field, and are indebted to the University for our full and wonderful careers," they said.

When planning their estate, the MacGregors expressed their gratitude to Rochester by funding a flip charitable remainder unitrust using a secondary property. They enjoyed an income tax deduction, paid no capital gains tax on the property sale, and receive five percent variable income for life as managed in the University's long-term investment pool.

The MacGregors established the Toxicology Student Professional Development Fund that provides annual support for conferences, retreats, and other learning experiences for students. Their planned gift will endow this fund and ensure that support will continue in perpetuity.

"This gift was a way to ensure that future students have the same opportunities we did," said James and Judith, who are Founding Members of the Wilson Society and contributing members of the George Eastman Circle.



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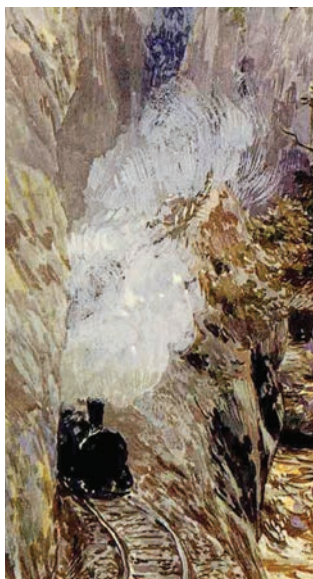
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# A Final Thank You

By Joel Seligman

I want to thank all in the Rochester community for the opportunity you gave me to serve these past 12 years and eight months. This was the honor and privilege of a lifetime. Together for 12 years we made considerable progress in transforming a strong University into an ever greater one. We personified the spirit of *Meliora*.

We were values driven: committed to academic excellence, academic freedom, diversity, and our community.

We sought and supported the most outstanding faculty, students, and staff. We are an institution where all are welcomed here because of their talents and achievements, and the greatest discovery, dissemination of knowledge, education of our students, and cultural achievements are possible because of our unrelenting commitment to academic excellence.

We prided ourselves on a commitment to academic freedom, which means, among other things, the freedom to learn without central control and the freedom to question. We are an institution that generates new ideas and is inspired by innovation and creativity. As Justice Brandeis memorably wrote in 1927, freedom of speech also can lead to “occasional tyrannies.”

They are inevitably transitory. When we empower our faculty, students, and staff to think for themselves, we know that we invite differences among beliefs and passionate views. This is how we learn from each other and strengthen the quality of our conversation through the marketplace of ideas.

Our University is immeasurably stronger because of our increasingly diverse faculty, student body, and staff. We are the Rochester family, where at best we support one another even under the challenging circumstances and uncertainties of the nation's often polarized politics.

I am particularly proud that during my time, our community was open and inclusive to all, regardless of identity, expression, or status.

We are committed to our community. Since our University was founded in 1850, we have had a long and enduring relationship to Rochester. This is our home. We are proud of the ways in which the University connects to many in our community, who



do not attend our schools, but are equally part of Rochester. The University during the past 12 years has stepped up its commitment to strengthen health care for all, to pioneer a model public high school with our commitment to East High, and to help address poverty, job creation, and economic development.

I want to thank our allies in the political and social community who regardless of party or whether they worked at the federal, state, county, or municipal level often joined us to further academic excellence, diversity, and our community. Let me thank three special friends—Representative Louise Slaughter, Senator Chuck Schumer, and Assembly Leader Joe Morelle.

During my time here we had a remarkable Board of Trustees. The Board too gave its heart and soul to the University of Rochester. I will always cherish my friendships with Board Chairs Bob Witmer, Ed Hajim, and Danny Wegman.

Let me laud so many alumni who increasingly have supported our University.

We have had a great leadership team. I worked with four talented Provosts—Chuck Phelps, Ralph Kuncl, Peter Lennie, and Rob Clark—and three outstanding Medical Center CEOs—Mac Everts, Brad Berk, and Mark Taubman.

I am deeply grateful to my senior leadership group—Chief Financial Officer Holly Crawford, a great successor to Ron Paprocki, General Counsels Sue Stewart and

Gail Norris, Senior Vice President for Institutional Resources Doug Phillips, Vice President for Government and Community Relations Peter Robinson, our two amazing Chief Advancement Officers Jim Thompson, my first hire, and Tom Farrell, two great Vice Presidents for Communications Bill Murphy and Elizabeth Stauderman, the inimitable leader of our hospitals Steve Goldstein, my Senior Advisor Paul Burgett, who really has not been part of the University since the Earth's crust began to cool, but likes to think so, and especially our irreplaceable Chief of Staff Lamar Murphy.

We had amazing deans, too many to individually call out, but I particularly cherish the memory of Eastman School of Music Dean Doug Lowry, a dean and very special friend.

Let me recognize all those who worked in the University. You were always wonderful. I thank all of you—the nurses and technicians in the hospitals, those who answer the phones or make sure we can park, our stalwart security officers, so many friends in IT. You are ever more vital to our University as we continue to grow, now with over 30,000 employees.

I want to thank a great team of associates who work on my personal staff. They are all great, but let me particularly thank my Executive Assistant Sue Niggli and my Deputy Sasha Tulgan.

Together we had a great ride. Universities are perpetual. An ambition of my presidency was to build a platform for future leaders.

I believe with all my heart that the best days of the University of Rochester are yet to come. **R**

*Joel Seligman announced on January 11 that he was resigning as president and CEO of the University, effective February 28. He made the announcement before the results of an independent investigation examining the University's handling of claims of sexual harassment against a faculty member were presented to the Board of Trustees or were made available to the University community and the public. Richard Feldman, a former dean of the College and a professor of philosophy, was named interim president (see page 6). Look for more about Seligman's tenure in an upcoming issue of Review.*



**GREETING CHANGE:** Superintendent Shaun Nelms '13W (EdD) greets students at East High, a Rochester city school that has begun to see signs of academic improvement during the past few years of operation as an educational partnership with the University.

## Also in at East

When I attended my 50th reunion in the fall of 2015, the East High School experiment (“A School They Now Call Their Own,” November–December 2017) had just begun and there was a fascinating presentation that described the project, its goals, structure, and the amazing redefinition of the entire employment contract with the school’s administration and teaching staff.

The project competed with similar efforts in Washington, D.C., New York City, and other major urban centers, where each of the others had hired a leader and seemed to provide financial and possibly other support. The Rochester project seems to have set itself apart by recognizing the need for a holistic redefinition of the education process that comprehends the home environment, the physical and mental health of students, constructively dealing with discipline issues, and then focusing on the learning process itself.

As a student of management, I really admired the brave and open focus that the City and the University displayed in creating this dramatically important program and am pleased to see that it is making progress, addressing obstacles and challenges as they arise. I hope that there can be a collaborative effort with the City to focus on the social and environmental challenges that, if effectively addressed, will not only increase the effectiveness of the educational system, but will also lead to a more wholesome community in which its residents can thrive.

I don’t recall if the East project provides for vocational paths that do not involve college. There seems to be a national focus on making college education ubiquitous, and it’s clear from the dismal dropout rates that college is not a path for everyone. Our nation needs a balanced workforce that includes the skilled trades—construction, electricians, HVAC, plumbers, automobile,

I really admired the brave and open focus that the City and the University displayed in creating this dramatically important program and am pleased to see that it is making progress, addressing obstacles and challenges as they arise.—*Richard (Dick) English '65*

# Rochester Review

JANUARY-FEBRUARY 2018  
VOLUME 80, NO. 3

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## Design

Steve Boerner Typography & Design Inc.

Published six times a year for alumni, students, their parents, and other friends of the University, *Rochester Review* is produced by University Communications.

Opinions expressed are those of the authors, the editors, or their subjects and do not necessarily represent official positions of the University of Rochester.

ISSN: 0035-7421

## Credits

Alumni photographs, courtesy of the subjects. Unless otherwise credited, all others are *Rochester Review* photos.



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and heavy equipment assembly, maintenance, and repair people, etc. As computer technology evolves, fewer and fewer traditional workers will be needed in certain areas, but there will always be a need for many of the trades. High schools and community colleges must provide paths to these career fields and help to remove any stigma attached to noncollege career paths.

I'll look forward to hearing more about East High School.

*Richard (Dick) English '65  
Ketchum, Idaho*

As one of the oldest East High alumni, I take great pride in my old school and appreciated the cover story in the November-December issue.

In a recent newspaper essay, I wrote, "It's been 75 years since I graduated from East. I still hold dear those days when we timidly came together as freshmen from disparate neighborhoods and backgrounds, and over a four-year span emerged as close friends only to be torn asunder by graduation. Donning our bravest smiles, we struck out for the uncertain road that lay ahead. The bonds formed by four years of loving integration now fractured as many of us most likely would never be together again. So tomorrow morning I'll Google my hometown obits to satisfy that longing to stay connected to my past and especially to those never-to-be-forgotten members of the Class of '43 whom I'll always remember just as they were during the best years of our lives."

*Dan Riley '52  
Clifton Park, New York*

### A Thank-you to Forever Friends

I was inspired by the story "Forever Friends" (September-October) to share my own recent support from great UR friends. In October 2016, my wife, Marce, was diagnosed with stage III breast cancer, a terrifying and unexpected experience for our family of four. Our daughter, Katherine, is 6 and son, William, is 3, both blissfully young enough to not understand the severity of Mommy's illness.

Marce and I decided early on to keep our fight private, away from social media, and shared only with family and a close circle of friends. For me, this included my UR 2000–01 track and field captains and dear friends, Sam Albert '01, '02W (MS) and Jon Coyles '01. Sam is currently UR's director of track and field, and Jon is a vice president with Major League Baseball. I sent them both a short email and quickly received supportive replies.

Unbeknownst to me, my brothers Sam and Jon took it upon themselves to alert the rest of our track and field family of Marce's plight. Unbeknownst to them, shortly after I had reached out to Sam and Jon, I was hospitalized for five days with an infection from a previously planned back surgery. I was, admittedly, in the throes of woe-is-us despair. It was in the hospital where I received a text-picture from my wife of a delivery with a Rochester, New York, postmark. No less than 40 men and women from the 2001–02 teams responded to Sam and Jon. They all contributed to a package, including gift certificates, cleaning services and, most impactful, a touching letter. The letter offered support, memories, and kind words. It was signed by a long list of my friends, many of whom I had not seen or talked to since graduation.

I was stunned. I laughed. I wept. And knew we were going to be okay.

I'm thrilled to report that Marce has beaten cancer. After a year of incredible moments of love and support from friends and family locally and from away, my personal highlight was reading that letter.

A gift from my UR family that I will never forget and will forever appreciate.

Camaraderie is born in youth, appreciated over the years, and solidified in times of trial. I've lived it, and I can't thank each of my teammates enough.

*Justin Lamontagne '02  
Portland, Maine*

*Review welcomes letters and will print them as space permits. Letters may be edited for brevity and clarity. Unsigned letters cannot be used. Send letters to Rochester Review, 22 Wallis Hall, Box 270044, University of Rochester, Rochester, NY 14627-0044; rochrev@rochester.edu.*



**GREATER GATEWAYS:** Pianist Stewart Goodyear and the Gateways Music Festival orchestra perform last summer in the Eastman School of Music's Kodak Hall. Gateways, in association with Eastman, has received new support from one of the nation's leading philanthropic foundations.

### UPDATE

## The Music Continues

An international initiative designed to connect and support professional musicians of African descent that has deep roots at Rochester has earned recognition from one of the leading philanthropies in the country.

The Gateways Music Festival, in association with the Eastman School of Music ("A Musical Feast," July-August 2017), has been awarded a \$300,000 grant from the Andrew W. Mellon Foundation.

Founded in 1993 in Winston-Salem, North Carolina, by Armenta Hummings Dumisani, a Juilliard-trained pianist and retired associate

professor at Eastman, the festival attracts professional classical musicians of African descent from the nation's top orchestras, chamber music ensembles, and educational institutions.

The six-day festival presents more than 50 solo, chamber, and orchestra performances in Eastman Theatre, houses of worship, schools, and other community locations throughout the Rochester area.

The organization will use the grant to strengthen administrative and programmatic activities.



INTERIM PRESIDENT NAMED

# LEADING THE 'Next Chapter'

Richard Feldman, a former dean of the College and a professor of philosophy, begins his tenure as interim president.

*By Kathleen McGarvey*



**E**ven before he formally takes over as interim president in March, Richard Feldman has been on the job. A member of the University community for more than four decades, he's spent much of his career thinking about and working on how to make Rochester a better place for all.

Feldman succeeds Joel Seligman, who steps down as of February 28. Seligman announced his resignation to the University's Board of Trustees on January 11, before the board received the results of an independent investigation examining sexual harassment allegations against a faculty member.

Danny Wegman, chair of the Board of Trustees, lauded Feldman's record as a teacher and scholar as well as his commitment to diversity, inclusion, and the academic and cocurricular experience of students.

"As a scholar, an award-winning teacher, and a supremely capable and compassionate administrator, Rich Feldman is respected and admired by students, faculty, and staff alike," Wegman said in an email to the University community. "The University could not ask for a better leader for this next chapter in the institution's history."

Wegman noted that although Feldman's tenure formally begins March 1, the board asked him to begin work immediately on the response to the report. Commissioned by a special committee of the board and led by a former federal prosecutor, the investigation found that while Rochester had generally fol-

lowed its procedures and federal law in investigating a claim of sexual harassment, the University should make important changes to its policies and the procedures for following them (see page 8).

**"With President Feldman leading us, I am confident that we can engage every part of the University community to move our great institution forward."**

*—Danny Wegman, Chair of the Board of Trustees*

lowed its procedures and federal law in investigating a claim of sexual harassment, the University should make important changes to its policies and the procedures for following them (see page 8).

"We know that there are challenges that we face as a University," Wegman said. "But there are also vast stores of talent, goodwill, and respect. With President Feldman leading us, I am confident that we can engage every part of the University community to move our great institution forward."

A member of the Rochester faculty since 1975, Feldman twice chaired the Department of Philosophy before becoming dean of the College in 2006, a position he left last spring to return to the classroom. Early in his career, he helped create and implement the popular

Rochester Curriculum, which allows undergraduates to take an active role in building a program of study based on their strengths and interests. As dean, he worked closely with faculty to develop new academic programs for undergraduates, especially those focused on interdisciplinary courses and degree options. He also oversaw increases in retention and graduation rates for a growing student body in the College, in part through the enhancement of student support services.

In 2016, Feldman and Paul Burgett '68E, '76E (PhD), vice president, University dean, and senior advisor to the president, together chaired the Presidential Commission on Race and Diversity, which involved students, faculty, and staff with assessing the state of the

campus climate and offering recommendations for improvement.


An influential scholar, Feldman is known for his work in epistemology, the study of the nature of knowledge. With Rochester colleague Earl Conee,

he contributed to the development of evidentialism, the idea that beliefs are worth only as much as the evidence supporting them.

Feldman's research has been supported by the Mellon Foundation, the National Endowment for the Humanities, the National Defense Education Act, and the American Council of Learned Societies. He received Rochester's William H. Riker University Award for Excellence in Graduate Teaching in 2016, and Phi Beta Kappa named him its Romanell-Phi Beta Kappa Professor in Philosophy for this academic year.

In his first address to the University community after his appointment, Feldman said he was hopeful that "our community can begin a period of healing and rebuilding."

Responding to the report would be his top priority, Feldman said, but he also expects University business to continue as usual.

"The teaching, learning, research, performance, and patient care that form the core of our University mission must continue unimpeded and with the same spirit and commitment our community has always demonstrated," he said. "I'm confident that with the collective spirit of all of you—students, faculty, staff, as well as alumni, parents, and other key constituent groups—the University will emerge from this difficult period even stronger." 

## Richard Feldman Interim President

### Faculty Member

- Joined the Department of Philosophy in 1975 as assistant professor. Named associate professor and chair in 1981. Named professor in 1991 and served a second term as chair until 1997.

### Administrative Leader

- Dean of the College, 2006 to 2017. As dean, oversaw the academic and cocurricular experience of undergraduates on the River Campus.
- Cochair, Presidential Commission on Race and Diversity, 2015 to 2016. With Paul Burgett, vice president, University dean, and senior advisor to the president, led a 20-member commission charged with evaluating and making recommendations to improve the campus climate for members of all races.

### Scholar

- An epistemologist, Feldman is the author, coauthor, or editor of five books and more than 70 papers.
- In addition to awards from the Mellon Foundation, the National Endowment for the Humanities, and other national organizations, he was selected as a Romanell-Phi Beta Kappa Professor for 2017-18, an annual award from the national academic honor society.
- In 2011, the University of Texas at San Antonio organized an academic conference, Feldmania, to recognize his contributions to the field of epistemology.

### Recognition

- In 2016, Feldman received the William H. Riker Award from the University in recognition of his work as a teacher.
- Also in 2016, the Feldman Ballroom, the main multiuse meeting room in the refurbished Frederick Douglass Building, was named in recognition of his contributions to student life.

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# SETTING *a* High BAR

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Rochester looks to set higher standards for itself as it moves forward from a sexual harassment investigation.

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*By Kathleen McGarvey*

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When philosopher and former dean of the College Richard Feldman was appointed interim president of the University in January, he sent a message to the campus community: it is time to better define and articulate Rochester's values. His words came in the wake of a report by independent investigators who examined allegations of sexual harassment against a member of the faculty.

The investigation found that the professor's actions early in his career were "inappropriate, unprofessional and offensive" and led some young women scientists to avoid working with him, but the report affirmed that he didn't violate University policies or federal laws.

The legalistic distinction left many frustrated, disappointed, and angry—reactions that Feldman acknowledged:

"Many different community members have shared their views that adherence to law and formal policy is not sufficient, and that our community needs to hold its members accountable to higher standards. I agree. To do so, we need to carefully define and articulate the community values that determine those standards."

Since taking on a new leadership role, Feldman has been listening to and talking with faculty, staff, and student leadership groups. It's a first step in meeting a three-month deadline set by the report to strengthen Rochester's policies and procedures and improve the supportive bonds of its community.

"The University of Rochester," Feldman says, "has an opportunity to be a model for other institutions, not just in the letter of our policies and procedures but in the spirit of our actions, measured by our respect for each other and our differences in a campus community that is safe and inclusive for all."

## What happened?

Former U.S. Attorney Mary Jo White, senior chair of the law firm Debevoise & Plimpton, was hired in September by a special committee of the Board of Trustees to investigate how the University had handled complaints about the conduct of T. Florian Jaeger, a faculty member in the Department of Brain and Cognitive Sciences (BCS). Those complaints alleged that—largely between 2007, the time of Jaeger's hiring, and 2013—Jaeger engaged in sexual harassment, had intimate relationships with students, and created a hostile environment for women graduate students in his department.

The University carried out its own investigations in 2016, concluding that Jaeger's conduct had not violated its policies then in place and that the University had not retaliated against those who had made allegations against him.

In August 2017, the complainants filed a formal complaint against the University with the Equal Employment Opportunity Commission (EEOC), a federal agency that enforces civil rights laws in the workplace.

The EEOC granted the complainants a "Right to Sue," and a lawsuit is pending.

White was commissioned to examine the issues raised in the EEOC complaint. Her 207-page report was released on January 11. In it, she called on the



University to “promptly take a number of bold steps, including but not limited to the Recommendations in this Report, to repair the resulting wounds and distrust that have occurred.”

## What now?

The report makes several recommendations:

### **Create and begin using a brochure, written in plain language, that outlines the rights of sexual harassment claimants, witnesses, and those accused, and the procedures to be followed in making and investigating a claim.**

White made this recommendation in response to what happened in the University’s initial investigation of the charges, in spring of 2016, when BCS faculty members Richard Aslin—a founding member of the department and at that time, a senior professor—and associate professor Jessica Cantlon reported to the University alleged sexual harassment of graduate students by Jaeger.

A lack of clarity, White found, contributed to how events surrounding the Jaeger case developed. She writes that the complainants—who eventually grew to a group of nine current and former BCS faculty members and students—“allege that complainants, the accused and witnesses are not informed of their rights, their entitlement to confidentiality or how the process will unfold.”

“By providing this information at the outset of an investigation in a straightforward, uniform way, the University could help avoid subsequent frustration with the process, as was experienced in this case,” White writes.

### **Develop a diverse pool of trained advisors—including academic deans, faculty members, and other officers—who can advise claimants, potential claimants, and faculty members accused of sexual harassment. Make readily known the availability of these advisors, the range and purpose of their services, and the confidentiality accorded to their consultations.**

White says that these changes “would align the University with many other universities’ policies, including those of Harvard, Columbia, Case Western and Cornell, which allow both parties to have advisers during the investigative process,” as does Rochester’s Sexual Misconduct Policy for students.

“This change also will provide parties with additional guidance throughout the investigative process—guidance that to some extent was lacking in connection with the investigations that took place in this matter,” she writes.

### **Undertake and complete a review of**

### **the University’s current mandatory training on sexual harassment for faculty, students, staff, and trainees, with the goal of providing the best possible training at least annually and when anyone joins the University community.**

Throughout the history of this case, both faculty and students were uncertain of what the University’s policies allowed, prohibited, and required, says White. That uncertainty was especially acute before 2013, she says, when campuswide sexual harassment training for all employees was implemented, but such training did not solve the problem: “While the change in 2013 was a step in the right direction, the current training for employees does not deal at all with faculty-student relationships. The significance of this gap in training is underscored by Jaeger’s conduct and the University’s and the claimants’ responses to such conduct.”

White argues that discussing faculty-student relationships in future training will help prevent instances like the Jaeger case, and that including training initiatives as part of the evaluation process for department chairs will help ensure that training receives the attention and funding it requires.

“Annual training on key policies is increasingly a standard tenet of compliance programs at large institutions, not only in the business world, but also in other sectors,” White writes. “We believe the University should be at the forefront of this trend.”

For students, she recommends increased peer-training to augment the online training for students that is already mandatory.

### **Amend the University’s Policy 106—the policy on gender-based discrimination and sexual harassment—to specify examples, use clear language, and indicate the range of disciplinary and other remedial actions that may be taken. The University should also consider adding a statement to encourage University community members to report sexual harassment by anyone subject to the policy.**

Policy 106 lies at the heart of much that unfolded in the Jaeger case. The White report explains: “The law and UR Policy 106 recognize two types of sexual harassment: (1) *quid pro quo* harassment, in which an adverse employment or academic action (e.g., termination, pay cut, bad grade) results from a refusal to submit to a supervisor’s or professor’s unwelcome sexual demand or where submission to such a demand is made a condition of receiving employment or academic benefits; or (2) hostile environment harassment, in which sexual harassment is so ‘severe or pervasive’ that it creates an abusive working or academic environment.”

The independent investigation found no evidence that Jaeger had engaged in unlawful sexual harassment, given the policies then in place, or that the University had retaliated against those who brought complaints against him.

## NEXT STEPS

### Cultivating a Culture of Respect

In an effort to share progress and plans for responding to the report, the Office of the President launched a website in February to keep the University community up-to-date.

With the theme of “Cultivating a Culture of Respect,” the site—[Rochester.edu/respect](http://Rochester.edu/respect)—outlines the report’s recommendations and other issues related to the campus climate.

The site, which will be updated regularly to show progress on key steps and which includes a forum for feedback, is one of several steps under way in response to the report. Others include:

- A new Board of Trustees committee has been created to oversee implementation and compliance with deadlines.
- The Office of the President is working with the Faculty Senate and the newly created Commission on Women and Gender Equity in Academia as both groups develop their own recommendations.
- Work has begun to create a new role in the president’s cabinet to strengthen and coordinate University activities related to diversity, equity, and inclusion.
- A Student Task Force to Review Sexual Misconduct Policy is planning to publish its own set of recommendations.

“We credit, as the complaints allege, that during the earlier period of 2007–13 (and especially during the earlier years in that period), Jaeger engaged in behavior that was inappropriate, unprofessional, and offensive,” the report states. But “there is no evidence that Jaeger ever engaged in so-called *quid pro quo* sexual harassment, or ever had any non-consensual sexual contact with any person.”

White notes that, in response to the unfolding Jaeger case, BCS department chair Greg DeAngelis sought “to tighten the relevant policies for at least BCS.” She also writes that “[citing] inherent conflicts of interest, lack of sufficient support for claimants, confusion about the reporting and investigative process and lack of transparency in reporting investigative results and remedial actions, the claimants also urged changes and enhancements to the relevant policies, procedures and process used by the University to address claims of sexual misconduct by faculty members.”

### Retain expert outside counsel to advise the president and general counsel on developing new procedures regarding the confidentiality of investigations of claims of sexual harassment or sexual misconduct by faculty members—with the aim of adopting, within six months, formal procedures that more carefully and flexibly balance needs for confidentiality and transparency.

Investigators found a tangle of expectations among those involved regarding confidentiality and transparency, ambiguities that fueled grievance and frustration on all sides.

“The current policy leaves uncertainty as to what will be kept confidential and in what circumstances,” White writes. “We found that there was confusion among the Complainants, witnesses and Jaeger about whether information they provided in connection with the investigation would remain confidential, whether information they knew about the investigation needed to remain confidential, and whether information collected by the [University’s Office of Counsel] during the investigation would remain confidential. Witnesses were not notified when the investigation had concluded unless they followed up actively. . . .”

White notes the “need for confidentiality surrounding an investigation” and the fact that “lack of communication created confusion and distrust toward the University’s administration.” She urges the University to take steps to “achieve an optimal balance between the important interests served by confidentiality and transparency.”

### Publish annual data about complaints and their resolution.

The release of such data, White writes, “would serve to increase transparency and community awareness.”

### Clarify IT policy, making clear the process for reviewing email.

When Aslin and Cantlon made allegations to the University about Jaeger’s conduct—allegations that involved Celeste Kidd ’13 (PhD), who is now an assistant professor in BCS—the University investigated the allegations.

Following that investigation, Kidd filed another claim in July 2016. Her allegations included retaliation against her for her part in the investigation. That claim led to a second investigation, during which the University’s Office of Counsel (OOC) requested access to BCS faculty members’ emails to trace issues of confidentiality.

“A new problem erupted in BCS in January [2017],” White writes, when the OOC shared some of those emails with BCS department chair DeAngelis. At a faculty meeting that month, he “announced that he had in front of him a stack of emails that showed ‘manipulation and deception of faculty members’ and the ‘smearing’ of Jaeger,” White says.

She writes that “the OOC’s decision to provide DeAngelis with the emails did not violate any University policy” and that it “was done in an effort to help DeAngelis effectively lead BCS.” But she adds that “the judgment to do so resulted in deepening the divide between the claimants and others in the department and was inconsistent with the emphasis that Policy 106 places on confidentiality.”

As a result, White recommends that the University “review its IT policy to make clearer the range of circumstances that justify review of emails and to specify criteria for sharing emails outside of OOC.”

### Improve online access to policies and procedures, and provide easy-to-use contact information for the Title IX coordinator, the intercessor, and other relevant staff members.



The independent investigation report bases its findings on federal laws and University policies. Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, and the New York State Human Rights Law prohibit sexual harassment, as does Policy 106.

Making such information easy to find and digest is key, White says, advising that Rochester's policies and procedures "should be streamlined and presented in an intuitive format, with separate sections based on the identity of the accused and the nature of the claim.

They should provide examples of conduct that would violate the policy. The revised policies should clearly lay out the full range of potential discipline and other remedial action that may be taken when there is a policy violation, and set forth a range of potential consequences for conduct that does not rise to the level of a policy violation, but is still problematic."

The benefit of such specificity, White says, is that "members of the University community will know exactly where to go to report a concern and what the process will entail should they choose to move forward with a complaint, as well as what to expect in terms of sanctions."

## **The Board of Trustees should direct the president and provost to initiate consideration by the Faculty Senate of proposed amendments to the Intimate Relationships Policy flatly prohibiting all intimate relationships between faculty and students in the same department.**

This recommendation grows out of the investigation's findings concerning Jaeger's intimate relationships with multiple BCS students. "We found that these relationships contributed, at least in part, to making some female graduate students in BCS uncomfortable; in some cases, these women actively avoided pursuing academic opportunities with Jaeger," White writes.

At the time of those relationships, the University's policy strongly discouraged but did not prohibit intimate relationships between faculty and students. In 2014, the policy was revised to make it a violation for a faculty member to have an intimate relationship with an undergraduate or with any member of the University community over whom the faculty member has authority.

Jaeger's conduct, and the allegations made by the complainants, involved both the University's Intimate Relationships Policy and Policy 106, which concerns sexual harassment. They "thereby highlighted the potential tension between the two policies—and the acute challenges that can arise when intimate relationships between faculty and students are permitted," says White.

Her advice is to banish ambiguity as much as possible: "[W]e believe that in light of the University's experiences in this matter, a bright-line rule would be beneficial. Although the University has strengthened its policies recently, we believe that they can and should be further reinforced as described above." What she recommends, she notes, is "stringent" but in line with what peer universities have done.

## **Dedicate an office to investigating sexual harassment or misconduct involving faculty.**

The complainants voiced concerns that there is at the least the appearance of conflict of interest in having the OOC handle Policy 106 claims.

"It is true that if a party disagrees with the outcome of a UR Policy 106 investigation and decides to sue the University in an administrative proceeding or in court, the OOC defends the University," White writes. "We therefore recommend that such investigations be handled by a separate office in order to avoid the perception of a conflict."

She notes that the University is an "outlier" in allowing the OOC to deal with sexual harassment claims. Most universities have a separate office designated to handle such claims.

## **The president should appoint a senior, cabinet-level official to oversee the implementation of the report's recommendations, including compliance with deadlines.**

White makes this recommendation in response to the importance of the issues raised in the Jaeger case and "the challenges of taking into account the interests of all relevant groups and stakeholders."

## **Create a trustee-level committee to oversee implementation of the recommendations and deadline compliance, as well as other initiatives at the University to combat sexual harassment, misconduct, discrimination, and retaliation throughout the University.**

White suggests this measure to further ensure comprehensiveness and accountability.

## **Setting the Bar**

"In our view," White writes, "the University and all involved here now have a unique opportunity to make such amends as can be made, heal and work hard to become the thought and moral leader for the academic community in preventing and dealing fairly with allegations of sexual harassment and all forms of discrimination in the academic workplace. Set the bar and set it high. 'Ever Better' is what UR is about."

Responding to the report and creating a transparent campus dialogue are Feldman's top priorities as interim president. Progress, he stresses, will be rooted in careful deliberation and in the broad participation of faculty, students, alumni, and staff.

The conversation will involve not only formal groups, but all who care about the University.

"I am committed to making deliberations as open and inclusive as I possibly can," Feldman says.

He's confident that the voices he hears will lead Rochester in the right direction, setting a course to determine the kind of community that Rochester wants to be.

"The challenges before us are significant, but our strength and talent run deep." 





## STUDENT LIFE

### Home Away from Hurricanes

**SPECIAL GUESTS:** Puerto Rican college students—Andrea Rosado-Quinones, Joshua Rosario, Brian Basu, Adriana Santiago, Syanis Vargas González (seated), Claudine Daneri De Leon, and Mariana Ortiz—are studying and living as guest students at the University this spring while their island home recovers from Hurricane Maria. Rochester was one of many leading universities and colleges that offered students affected by last year's hurricanes a place to keep their studies on track during the recovery.

PHOTOGRAPH BY J. ADAM FENSTER



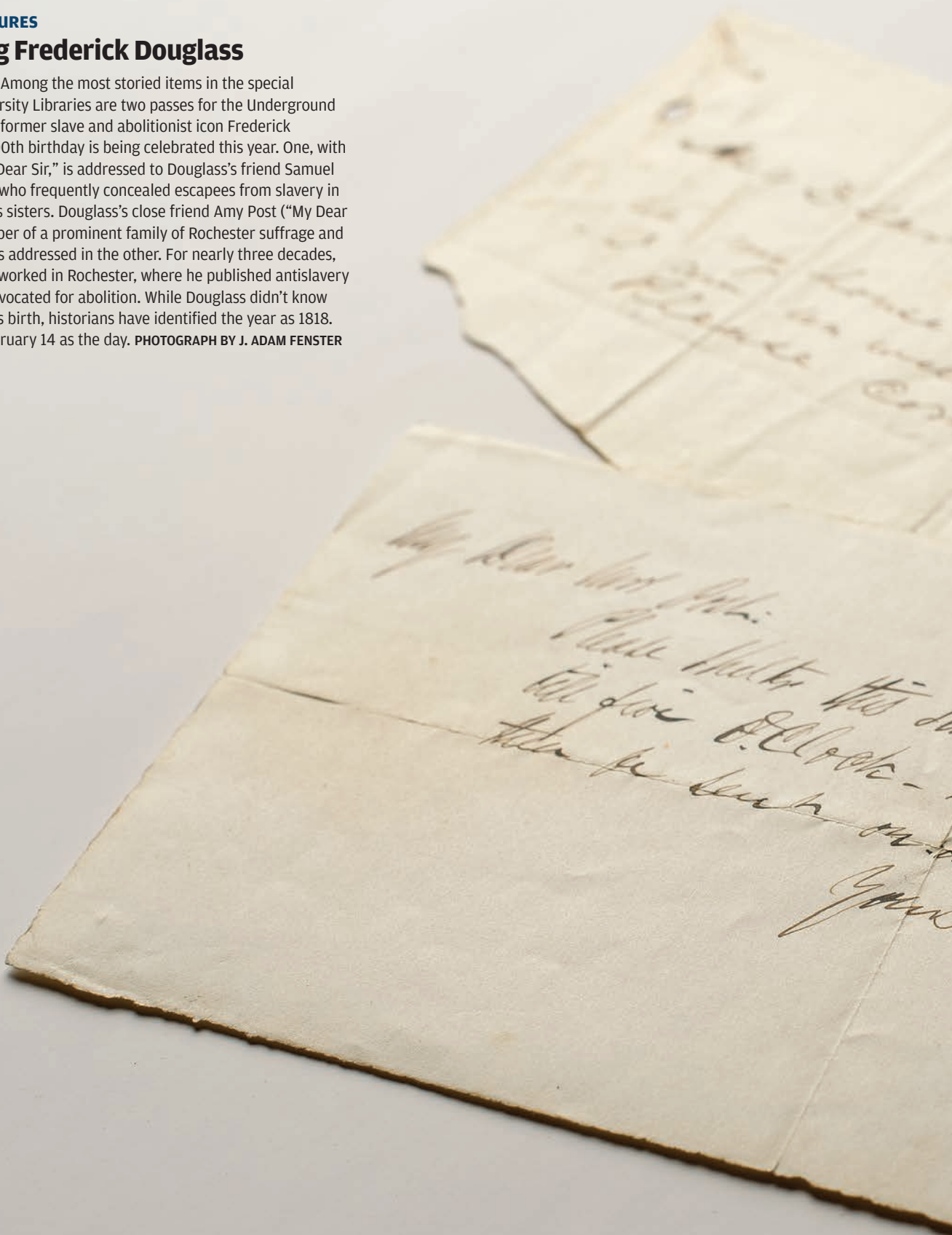




ARCHIVAL TREASURES

## Celebrating Frederick Douglass

PRECIOUS PAPERS: Among the most storied items in the special collections of University Libraries are two passes for the Underground Railroad written by former slave and abolitionist icon Frederick Douglass, whose 200th birthday is being celebrated this year. One, with the salutation “My Dear Sir,” is addressed to Douglass’s friend Samuel Drummond Porter, who frequently concealed escapees from slavery in a barn owned by his sisters. Douglass’s close friend Amy Post (“My Dear Mrs. Post”), a member of a prominent family of Rochester suffrage and abolition activists, is addressed in the other. For nearly three decades, Douglass lived and worked in Rochester, where he published antislavery newspapers and advocated for abolition. While Douglass didn’t know the exact date of his birth, historians have identified the year as 1818. Douglass chose February 14 as the day. PHOTOGRAPH BY J. ADAM FENSTER





... these men ...  
... in great ...  
... need your ...  
... advice.  
D. C. ...

... from the house of ...  
... this afternoon - We will  
... the land of ...  
... of ...  
...  
...

## The Making of a Nanomembrane

Greg Madejski held his breath as he looked into the microscope, trying to weld two fingernail-sized chips together: a tiny chip containing a nanofilter on top of another chip with a DNA sensor.

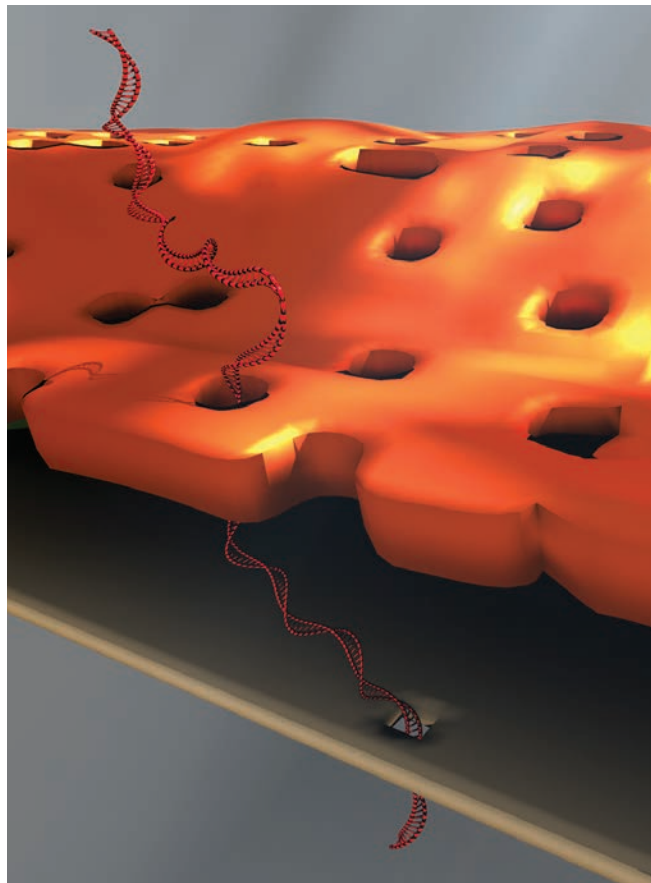
It was frustrating work. The chips weren't making good contact with each other. Madejski gently poked at the chips, then peered over the top of the microscope.

And exhaled.

The sudden waft of warm air swept over the nanofilter, transferring it ever so neatly on the target. The "accident" led Madejski—a PhD student in the lab of biomedical engineering professor James McGrath—to an important insight: that the condensed water vapor in his breath had caused the nonfilter to adhere to the sensor.

The result of Madejski's work is a novel device for detecting DNA biomarkers affiliated with disease.

Described in *Nano Letters*, it's comprised of three ultrathin layers: a nanoporous silicon nitride membrane which serves as a prefilter; a biosensor membrane with a single nanopore; and a spacer layer, filled with less than a femtoliter of fluid, that allows the two outer layers to adhere.



**DISEASE DETECTIVE:** A Rochester-developed nanomembrane consisting of three layers can detect DNA biomarkers affiliated with disease.

During operation, the device uses an electric field to lure a strand of DNA to enter one of the pores of the prefilter and then pass through the spacer layer to

reach the pore of the underlying sensor membrane. That triggers changes in the device's electrical current that can be detected and analyzed. —Bob Marcotte

## New Directions in Neuroprosthetics?

Novel research is helping scientists figure out how to harness the brain's plasticity to rewire neural connections lost through injury or stroke.

In a study published in the journal *Neuron*, Marc Schieber, a professor of neurology at the Medical Center, and Kevin Mazurek, a postdoctoral fellow in Schieber's lab, show that very low levels of electrical stimulation—delivered directly to an area of the brain responsible for motor function—can take the place of signals that the brain typically processes in response to sounds, images, and other sensory perceptions.

"The analogy is what happens when we approach a red light," says Schieber. "The light itself does not cause us to step on the brake."

"Rather, our brain has been trained to process this visual cue and send signals to another part of the brain that controls movement. In this study, what we describe is akin to replacing the red light with an electrical stimulation which the brain has learned to associate with the need to take an action that stops the car."

The findings could have significant implications for the development of brain-computer interfaces and neuroprosthetics, allowing people to control prosthetic devices by tapping into the electrical activity of their brain.

"Most work on the development of inputs to the brain for use with brain-computer interfaces has focused primarily on the sensory areas of the brain," says Mazurek.

The study shows "you can expand the neural real estate that can be targeted for therapies" by bypassing damaged parts of the brain where connections have been lost.

—Mark Michaud

## Even Adults Need 'Time Out'

In both her daily life and in her life as a scholar, Thuy-vy Nguyen has observed that solitude is often discussed as something that's either "good" or "bad." But the doctoral candidate in Rochester's Department of Clinical and Social Sciences in Psychology posed an alternative question about solitude.

"I decided to take a step back and just simply look at what solitude does, observe its effect, and let it speak for itself," she says.

The results, published in the *Personality and Social Psychology Bulletin*, suggest that as little as 15 minutes of solitude decreases a person's strong positive and negative emotions, inducing calm. That can lead to relaxation and stress reduction—as long as people actively choose to be alone, adds Nguyen.

The study defined solitude as "a psychological experience of being alone without communications, stimuli, activities, or

devices that might facilitate virtual communications such as text messaging or social media."

"When people willingly spend time alone, they reap the greater benefits—something that, of course, has always been a part of ancient wisdom and practices," says Richard Ryan, a professor of psychology at Rochester and a coauthor. "Here we simply demonstrate the emotional changes that account for these benefits." —Sandra Knispel



## In the Mystery of Positrons, Dark Matter Is Leading Suspect

In 2008, satellites detected an unexpectedly large presence of high-energy positrons—antimatter particles with the same mass as an electron, but with a positive charge—in our neighborhood of the galaxy.

Researchers proposed several explanations, including that they had come from pulsars—massive stars that have collapsed and exploded, spinning and throwing off electrons, positrons, and other matter. But in a report published in *Science*, researchers at the High Altitude Water Cherenkov (HAWC) Gamma Ray Observatory in Mexico report that pulsars are unlikely to be the cause of the excess positrons.

To Segev BenZvi, an assistant professor of physics at Rochester and member of the HAWC collaboration, that's exciting news. If pulsars aren't the source, then the positrons might come from something more complex and exotic: the annihilation of particles from dark matter.

Dark matter is so named



**'OBSERVING' DARK MATTER?** Dark matter can't, in fact, be seen. But this gamma-ray observatory in central Mexico, built with the help of Rochester researchers, may have detected signs of its workings.

because nobody can see it, but scientists can tell it exists because of its gravitational influence. "Although this doesn't prove that dark matter is the source of the excess, we have ruled out the two most obvious source candidates," BenZvi says.

"The nature of dark matter remains one of the biggest

unanswered questions in astrophysics," says Mehr Un Nisa, a PhD student of BenZvi's. "Getting closer to figuring out what dark matter is made of will help us understand how it holds galaxies together and the role it plays in large-scale structure formation in the universe."

A member of the HAWC

collaboration since the observatory was constructed in 2011, BenZvi, along with PhD students Nisa and Chang Rho and post-doctoral researcher Tolga Yapici, assisted in building parts of the observatory's detector, including writing software and algorithms for measuring the gamma ray output.

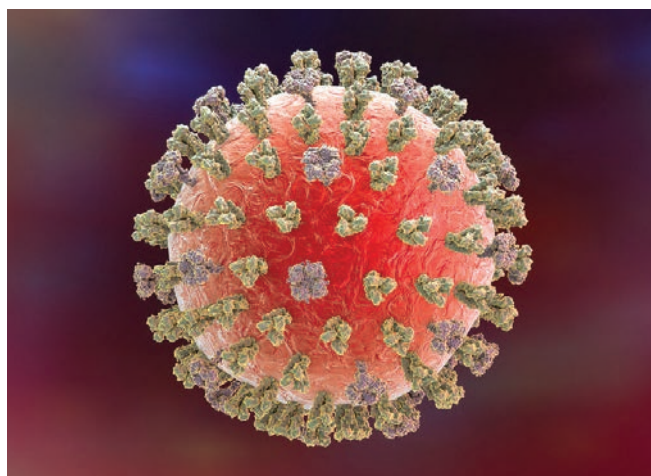
—Lindsey Valich

## Progress—of Sorts—in Quest for Flu Vaccine

Researchers around the world are pursuing a "universal" flu vaccine to protect against most or all seasonal and pandemic strains of the flu virus. Research led by David Topham, the Marie Curran Wilson and Joseph Chamberlain Wilson Professor in the Department of Microbiology and Immunology at the Medical Center, suggests that one of the most promising strategies won't be bulletproof.

That strategy has been to target the "stalk" of a protein that covers the flu virus. The hemagglutinin protein, which blankets the outside of the flu virus, looks a bit like a flower. It has a stalk and a head. Current vaccines target the head, which is the part of the virus that's always changing in an effort to evade our immune defenses.

But in the journal *Nature Scientific Reports*, Topham says that



**FLOWERING FLU:** The stalk-like spikes that protrude from the flu virus may be more variable, and better able to adapt to our immune systems, than researchers supposed.

contrary to popular assumption, the stalk can also change.

Using supercomputers at the University's Health Sciences Center for Computational Innovation, Topham and colleagues

analyzed the genetic sequences of human H1N1 flu viruses circulating since 1918. They found variations in both the head and the stalk, although variability was highest in the head.

In the lab, they coupled the H1N1 virus with human antibodies—immune system soldiers that fight off foreign invaders. Not surprisingly, repetitive exposure to the antibodies caused many mutations in the head, as it worked to escape the immune system's clutches.

But it also led to modifications in the stalk. The results suggest that the stalk can vary in response to pressure from the immune system.

"The good news is that it's much more difficult to drive mutations in the stalk, but it's not impossible," says Topham. "A universal flu vaccine based on the stalk would be more broadly protective than the ones we use now, but this information should be taken into account as we move forward with research and development."

—Emily Boynton



## POETRY

# Uniting the Spare and the Spooky

Poet James Longenbach's new book of poetry 'looks about,' with clarity.

By Kathleen McGarvey

*Earthling*, the newest book of poetry by James Longenbach, the Joseph H. Gilmore Professor of English, had its roots in a poem he wrote called "Pastoral."

"I heard something in it that sounded fresh to me," he says, a different tone than in his previous poetry collection, *The Iron Key* (W. W. Norton, 2010). "It seemed to be talking about ordinary

**TO LISTEN TO JAMES LONGENBACH** read "The Dishwasher" and "Huntington Meadow," search for "Longenbach" at [Rochester.edu/newscenter](http://Rochester.edu/newscenter).

things, but in a way that made them seem at the same time kind of spectral or otherworldly. There was also the capacity for wry humor in that tone—and all of that seemed exciting to me."

Written first, "Pastoral" ultimately became the final poem of *Earthling* (W. W. Norton, 2017), the poet and literary critic's fifth poetry collection. The tone drove the book's development, and the collection's overarching narrative isn't one of events, "but of feeling or spiritual development," he says.

*Publishers Weekly* calls *Earthling*—which is one of five finalists for this year's National Book Critics Circle Award for poetry—"a

moving case for love's power to sustain us." The book moves constantly between the mundane and the mystical as it contemplates mortality, giving voice to a range of emotions that knowledge of life's finiteness can create.

The shifting viewpoints are exemplified perhaps nowhere more dramatically than in "The Crocodile," a poem that playfully considers the perspective of that creature. But the whimsy also offers Longenbach an opportunity to reflect on his own mother's death—an experience that, despite his efforts, had found no home in his poetry before.

"I don't remember quite how it happened. I just got the idea of using this fanciful trope of the speaking crocodile as a way to get at the reality of this confrontation with mortality," he says. The lines in the poem's fourth section are plain and terse:

*When my mother died,  
I was right beside her.  
She'd been unconscious for a day.  
My sister and my father were there, too.*

"It's hard to get more flatly clear and straightforward in language than that," he says, and hopes that what is evoked is also "spooky and revelatory." He brings together the flatness of his





**Poet's Plans:** A poetry collection takes shape gradually, Longenbach says, as patterns emerge. Jettisoning poems that don't fit the structure, though painful, is good: "It suggests the developing book has integrity, that it's speaking back to you and demanding things of you."


language with the conceit of the crocodile as he ends the section:

*Then, immediately, the color left her face,  
She was no longer in her body,  
And she sank beneath the lagoon.*

"All I'm ever trying to do is to be scrupulously and absolutely clear about what I'm saying," Longenbach says. "It's become a discipline to me that has taken my poems to their strangest places, because trying to be very clear about things is a difficult, dangerous, and unsettling practice."

The title *Earthling* came to him when he discovered that it was one of the oldest words in the language, an Old English term for a person who plows or tills the earth.

"I'd assumed it was 1950s sci-fi speak: 'Take me to your leader,'" Longenbach says. "I thought it was entrancing that 'earthling' was our name for a person intimate with the soil. And it seemed like the perfect emblem for the tone that was distinguishing these poems as they accumulated—the little earthling coming out of his hole in the ground to look about.

"It's the vulnerability of it, yet the substantial inevitability and necessity of it, too." 

## The Dishwasher

For many years I saved my money, bought a car, a used Chevette.  
*Lean on me*, said the radio, *when you're not strong*.

I'd known that song since I was young but every time I heard it  
I wanted to hear it again.

I drove to the supermarket, then drove home.

I looked in the refrigerator, under the bed.

As if I were standing in the kitchen, unloading the dishwasher,  
holding the phone,

I heard my mother's voice.

I heard it plainly, as if she were standing in the room.

I know it's early, she said,

But I'm planning ahead for Christmas.

So I'd like to remember: What kind of coffee do you like?

Regular, or decaf, or both at certain times?

I want to be prepared, in case you'd like a cup when you're here.

## Huntington Meadow

Though I come from a long line of people intimate  
With the bodies of horses,

Today, for the first time, I touched a horse.

I placed my hand on its left flank, just behind the shoulder.

The horse was standing beside me, eating grass.

I'm speaking here of things that come to feel essential

Though they happen at one moment in time.

You've never done it, then you've done it before, you're good at it.

You can't imagine your body without it.

Tanqueray up with an olive,

Nobody home, the brine

Still unexpected at the bottom of the glass.

When I touched the horse, I didn't move my hand.

The hide more skin than hair,

The muscle beneath it visceral, relaxed,

More like a lover's than a dog's.

Then, after I took my hand away, I immediately put it back.

The horse seemed all the while

Perfectly happy, ripping up grass at the roots.

That was the only sound, the sound

You hear when you're gardening, weeding the lawn,

Somebody right there beside you, also weeding,

Though because you lack nothing

You're also completely alone.

*Poems are reprinted with permission from Earthling  
by James Longenbach; W. W. Norton, 2017.*



**RECONSTRUCTING HISTORY:** A section of the Erie Canal east of Rochester (above) had to be rebuilt several times, an example of the challenges encountered in constructing the famed waterway, part of the story told by students in a podcast series on the environmental history of the canal.

#### TEACHING & LEARNING

## Podcasting History

An auditory exploration of the Erie Canal marks the debut of a new podcast series.

By Sandra Knispel

For many students, research papers are par for the course. But, according to Thomas Fleischman, an assistant professor of history, there's a shortcoming to the traditional academic capstone: students write for an audience of just one—their professor.

That's why Fleischman, an environmental historian, took a different tack in his course on the environmental history of the Erie Canal, the 200-year-old waterway built to boost the economy of New York and other parts of the country. In lieu of a final paper, the class teamed up to create a podcast series. *Under the Low Bridge*—which borrows its name and theme song from Thomas S. Allen's popular folk song "Low Bridge"—is part of the history department's new podcast program, *Hear UR*.

"I thought a podcast would offer an op-

portunity to engage in the traditional skills of historical practice, meaning, research, writing, editing, and crafting a narrative," says Fleischman, "but also producing something for a broad public audience."

No quibbling from his students.

"It was so unconventional," says Adrian Harwood '18, an international studies major from Maastricht, in the Netherlands. "Everybody's desire to make a good quality piece of work to benefit everybody else really drove me to commit to the process."

The project includes six episodes, with titles such as "Bridging the Gap," about struggling to build an embankment against the natural layout of the land, to "Canal Fever," an examination of the diseases faced by canal laborers.

Sophia McRae '19, a double major in history and environmental humanities from Rochester, coproduced an episode—"Barg-

ing through Conflict"—that takes listeners on an auditory tour to the top of a 30-foot rickety wall of iron and wood, old railroad lines crossing over the canal, pedestrian bridges, and now a major highway built on top of the site of the original canal.

The podcast made her see her hometown differently, says McRae. "It's been one of the most enlightening processes of this past semester."

More podcasts are in the works, promises Fleischman, who admits that he was pleasantly surprised at how well the series turned out. "I was learning along with them," he says. "Now I have seen that it can be successful and intend to carry it forward."

Season two starts in the spring of 2019. The subject? Rochester-trained Carl Akeley, who rose to fame in the early 20th century as the designer of the taxidermy animals in New York City's American Museum of Natural History.

Stay tuned. 🎧

**TO LISTEN TO THE PODCAST,** visit <http://tffleisch.digitalscholar.rochester.edu/hearur>.



## Ask the Archivist: Can I See the Charter?

*A question for Melissa Mead, the John M. and Barbara Keil University Archivist and Rochester Collections Librarian.*

**I'm interested in the founding documents of the University. What are they? Are copies available on the internet? How can I see the University charter?—Mark Doehnert '71, Falls Church, Virginia**

One could likely designate several founding documents. The “Form of Subscription,” for example, set out the terms of our very first fundraising effort in 1849. The September 1850 *Plan of Instruction* outlined the earliest Rochester curriculum. But most important of all, perhaps, is the University’s charter, for its legal and symbolic value. Granted by New York State on January 31, 1850, and finalized on Valentine’s Day in 1851, the text includes a phrase which resounds to this day: a pledge to establish “an institution of the highest order for scientific and classical education.”

The document itself is a thing of beauty. Intricate gold-leaf borders on each vellum page were probably applied with a stencil. The text and images are the work of calligrapher David Vaughan (circa 1802-1865). Vaughan emigrated from Ireland in 1847 and was quickly hired by the Office of the New York State Engineer and Surveyor in Albany. His work, even when unsigned, can be identified by his characteristic flourishes and his minute, often humorous, drawings. Albany binder A. L. Harrison created a cover that is almost as splendid as the contents. Harrison invented a process to quickly (and thus cheaply) embellish bindings by using a brass stamp to outline designs which were then painted. Our charter sports patriotic red and white banners and an eagle’s head on a blue leather background.

Creating our charter was probably freelance work for Vaughan. A total of \$25 was paid to Harrison for “scribing, illuminating, parchment, and binding,” and was paid

in full on May 1, 1851.

The Archives celebrates Charter Day every January 31, with a display in Rush Rhees Library. If you can’t make it to Rochester, you can see pictures of the charter, its binding, and the promptly paid invoice online at <http://rbscp.lib.rochester.edu/blog/archives>.

**My grandmother collected postcards and had one of the Anderson Statue, postmarked July 7, 1926. Can you tell me who the writer was and what she was doing at the University in the summer?—Joshua Jacobs, assistant director for events, Simon Business School**

We have many postcards depicting the University in the Archives—some blank and others, like yours, with messages. There are



**PERFECT PICTURES:** The original location of the statue of first president Martin Anderson inspired postcards (above), while the University’s charter (below) is itself a work of art.

remarkably few that we can trace to students, perhaps because so many early enrollees were local to Rochester.

The card, sent to William F. Deeney of Batavia, New York, reads:

*Dear Dad,  
I finally found a key to unlock my traveling bag—a girl from near Boston, Massachusetts had one to fit. To-day has been the warmest we’ve had here, I think. With love,  
Your daughter  
Gerry*

Geraldine Deeney was not a graduate of the University; she earned her degree from the Geneseo Normal School and spent her career, from 1920 to 1965, teaching in the Batavia school system. So what was she doing living in the Eastman Dormitory in the summer of 1926? Summer school, of course!

She began taking classes during the summer of 1924, and continued her education for the next three summers, returning for the last time in 1939. The description of the summer sessions notes: “While the work offered is primarily of interest to teachers, practically every branch of University instruction will be given. The regular University faculty will be supplemented by experts in various specialized fields. . . .” Deeney chose a wide variety of coursework in biology, English, Greek, history, and of course, education.

The card she sent home is a particularly lovely example. Produced from a photograph using a commercial collotype process, it was issued by the Albortype Company in Brooklyn, New York, and published by Rochester’s own Sibley, Lindsay & Curr. The Anderson statue dominates the scene, with slivers of three campus buildings in the background: Anderson Hall to the right, Kendrick Hall (a dormitory) beside it, and Sibley Hall to the left.

### Need History?

Do you have a question about University history? Email it to [rochrev@rochester.edu](mailto:rochrev@rochester.edu). Please put “Ask the Archivist” in the subject line.



**MUSIC HOME:** Home to the Eastman Community Music School, Messenger Hall is undergoing a renovation project to update classrooms, studios, and other spaces for the 1,600 area musicians who study there.

## Renovations Begin for Eastman Community Music School

Nearly 1,600 students—ranging in age from a few months to more than 90 years—will soon be practicing and studying music in newly renovated studios, classrooms, labs, and other facilities on the campus of the Eastman School of Music.

Messenger Hall—home to the Eastman Community Music School, a community-oriented educational program that’s been part of Eastman since the school’s

founding in 1921—is undergoing a \$2.8 million renovation project.

The work, which began last fall, includes a keyboard lab, classrooms, 24 teaching studios, percussion and drum set studios, designated waiting spaces for parents, an exterior facelift, and interior upgrades.

The primary supporters of the initiative are Karen Rettner, a member of Eastman’s National Council, and her husband,

University Trustee Ron Rettner. Other contributors include the Kenlou Foundation, the Williams Family, Nancie Kennedy ’79E (MM), the Spindler Family Foundation, and members of Eastman Community Music School’s community, as well as a grant from the Finger Lakes Regional Economic Development Council.

The project is expected to be completed by this fall.

—Jessica Kaufman

## Eastman Names Warfield Scholar

Vocalist Jonathan Rhodes ’20E, ’20 is this year’s William Warfield Scholar at the Eastman School of Music.

Named in recognition of the internationally renowned soloist, actor, and Eastman graduate, the William Warfield Scholarship was founded in 1977 to promote opportunity for African-American artists who are pursuing a career in vocal performance and to honor the life and legacy of Warfield ’42E, ’46E (MM).

A second-year student of Anthony Dean Griffey, a professor of voice, Rhodes is also a political science major in the College.

Originally from Orlando, Florida, he made his performance debut with the Minnesota Opera’s youth program, in one of the principal roles (Kurz) in *Memory Boy*.

In 2017, he played the role of Liberto in the Eastman Opera Theatre’s production of Monteverdi’s *L’Incoronazione di Poppea*. —Jessica Kaufman



**Jonathan Rhodes ’20E, ’20**

## Inventors Honored

Several Rochester scientists earned national recognition this winter for their work as inventors over the course of their careers.

Ching Tang, professor emeritus of chemical engineering, was inducted into the National Inventors Hall of Fame for helping pioneer the organic light-emitting diode, or OLED, a technology that’s used in flat-panel and other displays.

Tang, who joined the Department of Chemical Engineering in 2006, pioneered the technology with Steven Van Slyke, also among this year’s inductees, while working as a research scientist for Eastman Kodak Company.

Wayne Knox, a professor of optics and a former director of the University’s Institute of Optics, was inducted as a fellow of the National Academy of Inventors. The holder of 50 US patents, and another 150 or so worldwide, Knox was recognized for demonstrating a “highly prolific spirit of innovation in creating or facilitating outstanding inventions that have made a tangible impact on quality of life, economic development, and the welfare of society.”

He joins Kevin Parker, the William F. May Professor and dean emeritus of what is now the Hajim School of Engineering & Applied Sciences, in the academy. Parker was inducted in 2016.

And the laboratory of Wyatt Tenhaeff, assistant professor of chemical engineering at Rochester, was recognized in December by *R&D Magazine* for work to create safer lithium-ion batteries for electric vehicles, work that was developed with Oak Ridge National Laboratory.

The lab received an *R&D100* award, a recognition given since 1963 to honor innovative breakthroughs in materials science, biomedicine, and consumer products by academia, industry, and government-sponsored research agencies. —Bob Marcotte



## Grants from Gates Foundation Mark Milestone for University

Two faculty members have received the largest grants ever awarded to University researchers by the Bill & Melinda Gates Foundation, the largest private foundation in the world.

Chunlei Guo, a professor in the Institute of Optics, and

Kirsi Jarvinen-Seppo, Founders' Distinguished Professor of Pediatric Allergy, received separate \$1.5 million grants from the foundation.

Both Guo's and Jarvinen-Seppo's projects are focused on finding solutions to health and mortality problems in the

developing world associated with poor sanitation and nutrition.

Guo, who previously received more than \$500,000 from the foundation, received a new grant to develop sanitation technology with extremely water-repellent, or superhydrophobic, materials. Jarvinen-Seppo, a pediatric

allergist and immunologist, is leading a team from five centers to explore whether breast milk can offer infants protection from key infectious diseases.

Since 2008, the Gates Foundation has awarded three other grants to University faculty members. —Kristine Thompson



## Bringing 2,000 Years of Drama to Life

SENECA SENSATION: Samantha Richardson '19 (left), as the Roman philosopher Seneca, and Kevin Bodhipaksha '18E, as the emperor Nero, had key roles in a student production of a rarely seen, nearly 2,000-year-old play when the International Theatre Program closed its fall semester with a work attributed to Seneca. Directed by Obie Award-winning guest director Ken Rus Schmoll, the play, *Octavia*, chronicles the dissolution of the marriage between Nero and Octavia, his aristocratic wife. The program's spring season begins in March with the first work commissioned specifically to be performed at Rochester. —Jeanette Colby

## Gift Boosts Italian Studies

Rochester students will have new opportunities to study the language, culture, art, and history of Italy, thanks to a gift to the University's Italian studies program.

A \$2 million gift from Arnold Lisio '56, '60M (MD) and Anne Lisio will endow the Lisio Program in Italian Studies within Arts, Sciences & Engineering.

The gift supports programming that involves Italy from a variety of departments and programs and helps fund student scholarship prizes, summer fellowships, and faculty and program grants.

Those initiatives include the Arezzo Program, a semester-long study program in which students are immersed in academic courses, community life, cultural activities, and study-related travel; the San Martino Archaeological Field School, a summer program to study the archaeology of ancient Italy; the Roman Structures Program in Italy, an interdisciplinary study of Roman engineering and architecture; and an experiential summer learning program, a one-month education abroad course on the island of Procida, off the coast of Naples.

—Kristine Thompson

## Medical Center Leads New Initiative on Bone Infections

The Center for Musculoskeletal Research will create a new multidisciplinary program devoted to developing treatments for bone infections, a relatively rare, but potentially fatal, complication of surgery.

Funded through a nearly \$6 million, five-year award from the National Institute of Arthritis and Musculoskeletal and Skin Disease at the National Institutes of Health, the initiative will explore ways to target the bacteria

*Staphylococcus aureus*, the primary culprit in bone infections.

One of the top NIH-funded orthopaedic researchers in the nation, Edward Schwarz, the Burton Professor of Orthopaedics and director of the

musculoskeletal center, leads the project, with researchers from the Medical Center, the Department of Biomedical Engineering, as well as other disciplines at Rochester and other universities.

—Susanne Pallo

## COMPARATIVE LITERATURE

# Back to the Future?

Critic Robert Doran traces the roots of contemporary cultural politics.

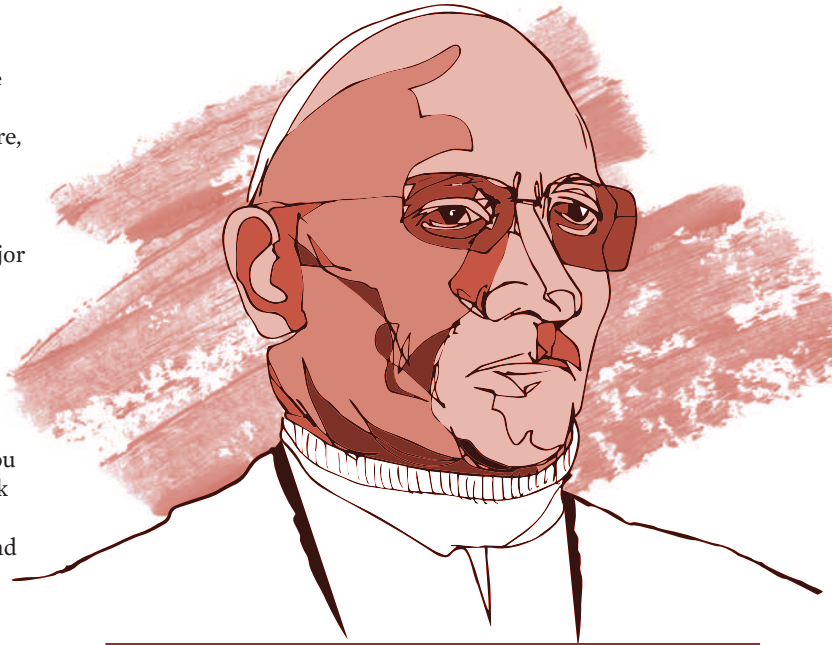
Turned-up collars and acid-washed jeans conjure up the 1980s at a glance. For scholars, the faces of critical theorists Michel Foucault and Jacques Derrida are just as evocative, icons of an intellectual movement that gained momentum through the 1960s and '70s, and then peaked and ebbed in the '80s. But Robert Doran, a professor of French and comparative literature, argues that critical theory has “become synonymous with the ethical and political questions that agitate our times.”

In *The Ethics of Theory: Philosophy, History, Literature* (Bloomsbury, 2017), he investigates how critical theory—a major area of inquiry for humanities scholars and social scientists in the late 20th century—pivoted from a narrow investigation of meaning and text to a broad engagement with culture and politics.

An overview of prominent critical theorists reveals the breadth of their interests. “A lot of people think of theory as a kind of toolbox” for scholarship, he says. “You take this and you take that [mode of analysis]—you take whatever seems to work for you. But these ideas came at a particular time and have a particular meaning. You can’t just take them out of context, and that’s what I try to rectify, to some extent, in this book.”

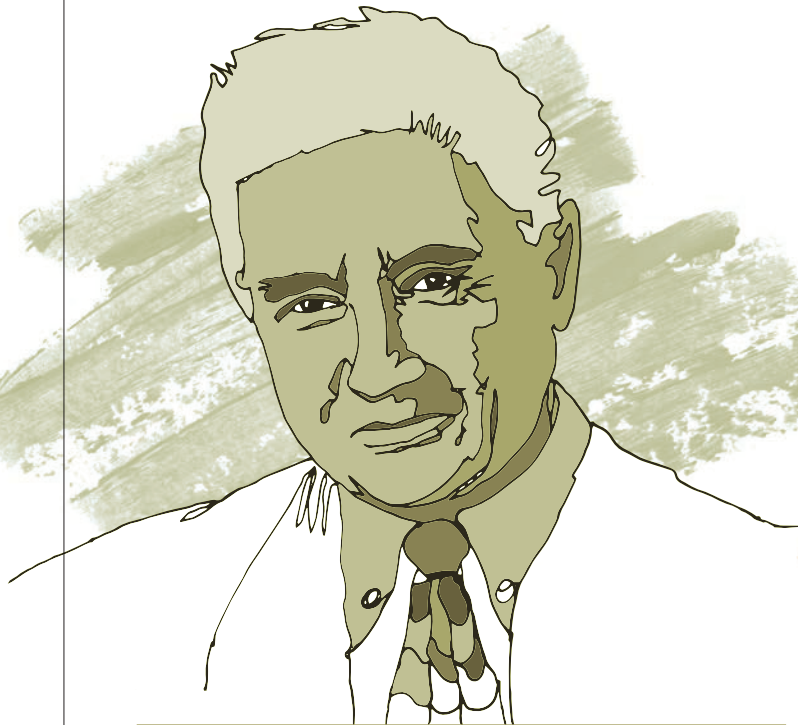
In his book, Doran explores the influence of several key figures in critical theory. Here’s a look at some of them.

—KATHLEEN MCGARVEY



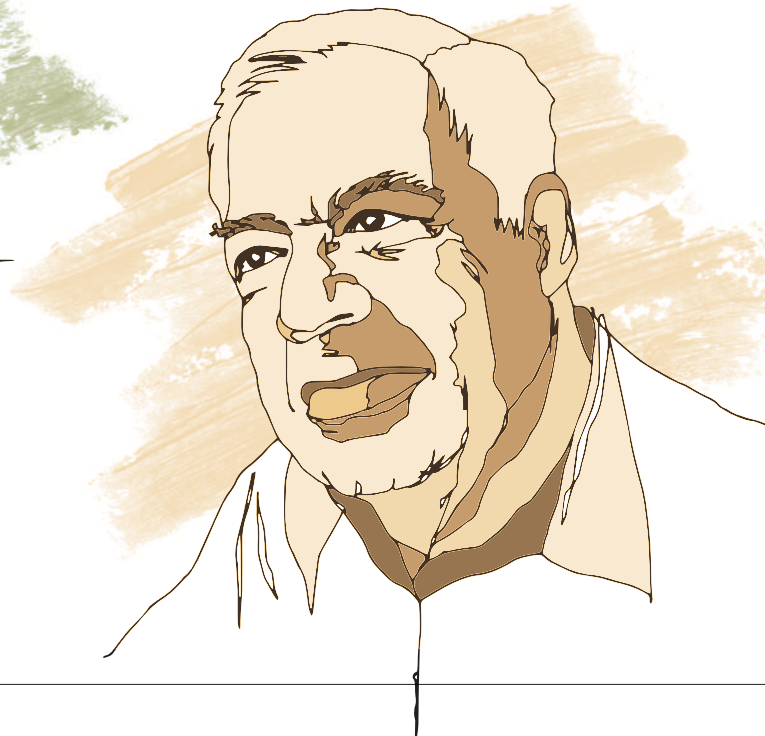
## Michel Foucault (1926–1984)

An important figure for structuralist and poststructuralist thought, French philosopher and historian of ideas Foucault investigated the ways in which seemingly scientific thought actually expressed socially contingent commitments. Among his best-known works are *The Order of Things: An Archaeology of the Human Sciences* (1966), *Discipline and Punish* (1975), and the three-volume *History of Sexuality* (1976–1984).

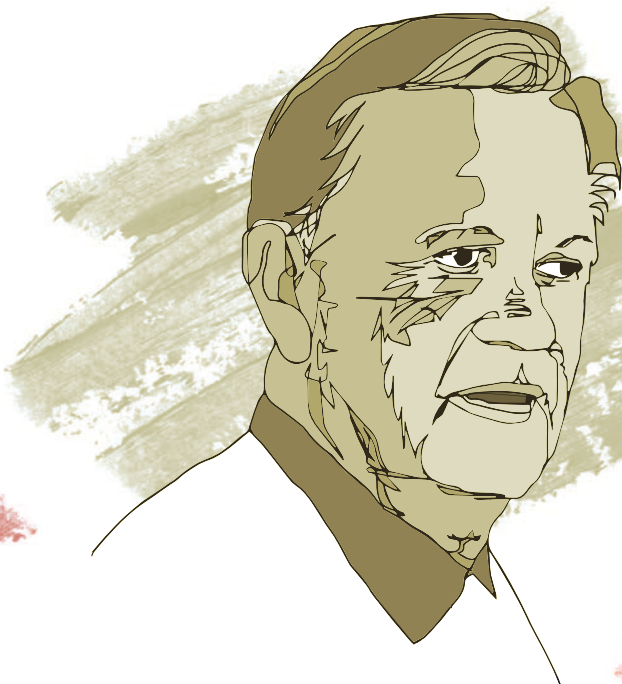


## Jacques Derrida (1930–2004)

An academic superstar whose fame carried him even into popular culture, French-Algerian philosopher Derrida was the primary founder of deconstruction, a method of critical analysis rooted in the instability of meaning in a text. The most influential of his many works is *Of Grammatology* (1967).





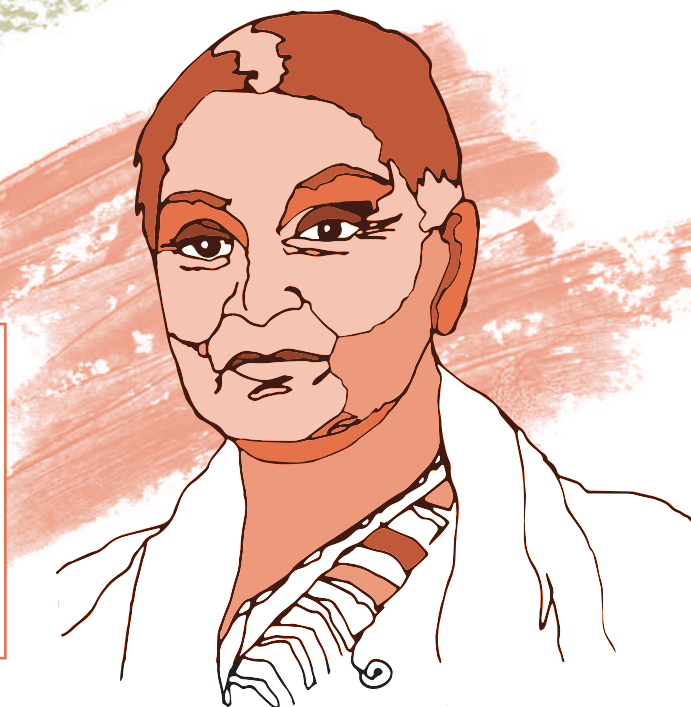


### Hayden White (1928–)

The author of *Metahistory: The Historical Imagination in Nineteenth-Century Europe* (1973), American theorist of history White argues that history writing is in kinship with literature—both rely on the art of narrative for meaning. White is currently a professor emeritus at the University of California, Santa Cruz, having recently retired from the position of professor of comparative literature at Stanford University. White was a member of the University of Rochester faculty from 1958 to 1968.

### Gayatri Spivak (1942–)

Deconstructionist Spivak translated Derrida's *Of Grammatology* into English, with a deeply influential introductory essay, in 1976. Now a professor of English and the cofounder of the Institute for Comparative Literature and Society at Columbia University, Spivak was born and raised in India before earning her doctorate in comparative literature at Cornell. She helped to create the field of postcolonial studies with her essay "Can the Subaltern Speak?"; other works include *A Critique of Postcolonial Reason* (1999) and *Other Asias* (2005). She's also the author, with Judith Butler, of *Who Sings the Nation-State?: Language, Politics, Belonging* (2007).



### Judith Butler (1956–)

In her most famous book, *Gender Trouble: Feminism and the Subversion of Identity* (1990), philosopher Butler argues that gender is performative, created by speech and behavior whose repetition gives the impression of an underlying nature. A member of the Department of Comparative Literature at the University of California, Berkeley, Butler is also the author of several books, including *Bodies That Matter: On the Discursive Limits of "Sex"* (1993), *Excitable Speech: A Politics of the Performative* (1997), and *Parting Ways: Jewishness and the Critique of Zionism* (2012).

### Richard Rorty (1931–2007)

American pragmatist philosopher Rorty is best known for his book *Philosophy and the Mirror of Nature* (1979). He rejected the concerns of traditional analytic philosophy—a philosophical movement based on applying principles of logic—and, like other critical theorists, argued that philosophy and science can't claim access to a reality unmediated by language and perception. Other major works by Rorty include *Consequences of Pragmatism* (1982) and *Contingency, Irony, and Solidarity* (1989).



# Meet Rochester's 100th Academic All-American

Nik Angyal '19, a defender for the Yellowjackets men's soccer team, marks a milestone.


Interview by Jennifer Hennig '18

With his cumulative 4.0 grade point average and his role leading his team to an Elite 8 appearance in the 2017 season, defender Nik Angyal '19 was named to the 2017 Second Team CoSIDA Academic All-American in men's soccer.

Angyal's selection marks the 100th Academic All-America honor for the University.

The College Sports Information Directors of America established the national award program to recognize distinguished scholar-athletes in 1952.

Rochester's first Academic All-America honor went to Michael Corp '78—a running back on the football team and a double major in history and psychology—in 1976.

Angyal, a chemical engineering major from the Hudson Valley hamlet of Stormville, started in 20 of the 21 games in the 2017 season and was a crucial part of the back line that led the team to nine shutouts and held eight teams to just one goal. 

**Biggest accomplishment as a Yellowjacket:** The progress I made. I tried to walk on my freshman year and didn't make it. When I tried again in the spring, I made the team, but didn't play that much my sophomore year. To be a starter my junior year was a big accomplishment.

**Best thing about soccer:** The team aspect of it. I ran track in high school and it was all right. But it feels more satisfying to win as a team than as an individual. The feeling of being a part of something that is bigger than myself is very rewarding.

**Favorite class at Rochester:** Fluid Dynamics. I took it during sophomore spring, and it was the first real technical engineering class I took. Everything

**CENTENNIAL STAR:** With his 4.0 grade point average and a key role on the Yellowjackets men's soccer team, Angyal was named the University's 100th Academic All-American since Rochester's first recipient in the late 1970s.



up to that point had been a fundamental or prerequisite course. I was finally able to see how everything applied to chemical engineering.

**Most memorable moment on the field:**

This whole year. We went as far as we've ever gone. This was only second time in school history that we reached the Elite 8. We won in overtime in the first game, scored late in the second game, and came back again in the Sweet 16. The entire experience was pretty special to be a part of.

**Biggest sacrifice as a scholar-athlete:**

Down time, because it almost never exists. When I do get some free time, I usually spend it catching up on sleep. I always try my best to get eight hours a night, because if you're trying to play a game on four hours of sleep, it's going to be a pretty rough experience.

**Greatest benefit of being a scholar-athlete:**

It's been good in terms of balancing and juggling everything. Soccer is a huge time commitment and that gave me the incentive to always be on top of my work and forced me to be a good time manager.

**Favorite thing about campus:** I love the quad, with the ivy-covered buildings and oak trees. There's just something picturesque about the place.

**Future plans:** I hope to get a job that allows me to work toward improving the environment. Last summer I worked for New York State in the Department of Environmental Conservation helping to mitigate petroleum leaks and preventing them from reaching drinking water sources. That was a rewarding experience, but ultimately, I hope to contribute to making renewable energy the dominant source of energy generation.



## Record Roster

Since 1976, a total of 100 Yellowjackets have been selected as Academic All-Americans. Here's a look at the numbers.

### AWARDS BY SPORT

Baseball	7
Basketball (Men's)	7
Basketball (Women's)	3
Field Hockey	5
Football	18
Golf	1
Lacrosse	2
Rowing	1
Soccer (Men's)	10
Soccer (Women's)	3
Softball	1
Swimming & Diving (Men's)	3
Swimming & Diving (Women's)	7
Tennis (Men's)	5
Tennis (Women's)	0
XC/Track & Field (Men's)	16
XC/Track & Field (Women's)	4
Volleyball	7

### AWARDS BY YEAR

1976	●	1997	●●●●●
1977	●	1998	●●●●
1978		1999	●●
1979		2000	●●●
1980	●	2001	●●
1981		2002	
1982	●●●	2003	●●
1983	●	2004	●●●●●●●
1984	●●●	2005	●●●●●●●●
1985	●●●	2006	●●●●●●
1986	●●●	2007	●●●●●
1987	●●	2008	●●●
1988		2009	
1989		2010	●
1990	●	2011	●●●
1991		2012	●●
1992	●●●	2013	●●●
1993	●●●●●	2014	●●●●●●
1994	●●	2015	●●●●●●
1995	●	2016	●
1996	●●●	2017	●●●●●

### BY THE NUMBERS

**19** Students who have won multiple Academic All-America awards.

**2** Students who have won the award three times: Patty Rupp (women's swimming and diving in 1985, 1986, and 1987); and Brian Kowalski (football in 1999, 2000, and 2001).

**2** Students who have won Academic All-American of the Year: Tanya Klebe (volleyball, 1997); and Nate Micklos (men's soccer, 2005)



**HIGH FIVE(HUNDRED):** Women's basketball coach Jim Scheible entered the Rochester record books this winter, leading the Yellowjackets to his 500th victory as a coach.

## Women's Coach Notches 500th Win

Jim Scheible has a new entry in the Rochester record books. The head coach of the women's basketball team passed the 500-win mark with an 83-79 overtime victory over NYU in January. With that win, Scheible's record over 27 years of coaching was 500-222. At that point in his 19 seasons at Rochester, Scheible's record was 359-151.

The victory was also Rochester's 10th consecutive victory and raised the Yellowjackets' record to 15-1 overall, 5-0 in the UAA. Rochester was ranked No. 7 in the D3hoops.com poll and in the poll conducted by the Women's Basketball Coaches Association.

## MIT Coach Named to Lead Yellowjackets Football


The award-winning head coach of the Massachusetts Institute of Technology's football program has been named head football coach at Rochester.


Chad Martinovich, whose nine seasons leading the Engineers included a conference championship, becomes the Yellowjackets' 31st coach. He will lead the team for the season opener on September 1 at Case Western Reserve University.

Credited with building a regularly contending program at MIT, Martinovich was named the 2014 Coach of the Year for the New England Football Conference, New England Football Writers College Division Coach of the Year, ECAC Coach of the Year, and the

American Football Coaches Association Region I Division III Coach of the Year.

During his nine years in Cambridge, MIT football players have earned 17 CoSIDA Academic All-America awards, including seven selections to the First Team. The MIT quarterback was named the 2017 CoSIDA Division III Football Academic All-American of the Year. He has coached two All-Americans, 16 All-Region players, four All-New England performers, and 63 All-Conference players at MIT.

After graduating from Hobart College, where he played football, Martinovich embarked on a coaching career that has taken him to Bucknell, Hamilton, the University at Albany, Swarthmore, and Rensselaer Polytechnic Institute. 

**NEW COACH:** Chad Martinovich debuts this fall as Rochester's football coach. 





# From Waiting Room to Welcome Room

An introductory painting course doubles as a community partnership.

Story by Jeanette Colby  
Photographs by J. Adam Fenster





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**STUDIO SPAN:** At Sage Art Center, introductory painting students work to convey meaning through art. Among their creations is “Rochester, Welcome,” by N’Dea Tucker ’20 (top right), hung at the Anthony L. Jordan Health Center at Holland Street by maintenance employee Jordan Walker and on permanent loan to the center.









**PAINTING PERSPECTIVES:** Discussion, both inside the studio and with staff members at the Anthony L. Jordan Health Centers, is an integral part of Layton's introductory painting course, in which students create works to meet the needs of community members who visit the health facilities.



Inside the Anthony L. Jordan Health Centers at Brown Square and on Holland Street, in the heart of Rochester neighborhoods marked by high rates of poverty, live groups of polychromatic paintings created specifically for each space and the patients they serve.

The works, adorning waiting rooms, patient rooms, and hallways, were all created by Rochester undergraduates in an introductory painting course taught by Heather Layton, a senior lecturer in the Department of Art and Art History.

Most people who have taken a form of introductory painting, whether as part of a secondary school art class, a college class, or in their communities, can recall the still-life setups, the live models, and the lessons on technique playing out in the studio space, as an instructor circulates the room, offering praise and critique.

Layton's course—a collaboration between her and the Anthony Jordan Centers, funded with a grant from the Rochester Center for Community Leadership—is something else besides, stretching the potential of what an introductory art class can be.

Layton has made community engagement her course's centerpiece. "I want our students to learn how to be engaged in a community and to interact with people they may not interact with otherwise," she says.

In spring 2017, her class helped transform the Brown Square space. This past fall, a new group of students completed a similar project at the facility on Holland Street.

"I saw the art at Brown Square and it was really moving," says Halley Koehler, the practice manager for family medicine, behavioral health, and urgent care at the center on Holland Street.


At Holland Street, as at Brown Square before, the students began by conversing with center staff. They learned that the imagery would need to reflect the clients, residents of the surrounding neighborhood who are primarily Spanish-speaking. Koehler and others at the clinic also asked the students for art that contributed to the center's mission to offer a safe environment to the LGBTQ—lesbian, gay, bisexual, transgender, queer—community.

There was a third challenge: the students had to fill a floor on which patients receive a broad range of services, including basic care, mental health, HIV and hepatitis, and a suboxone treatment program.

Everyone would have to feel welcomed.

"There's a sense of belonging that we're hoping to get over here," Koehler told the students. "The colors are bland at Holland Street, and people comment that it's like walking through a jail."

Not surprisingly, some students thought metaphorically and brought their own experiences to bear. Wendy Zhou '20, a computer science and psychology double major from Beijing, was drawn to the idea of being in an unfamiliar environment—and thriving. Her painting, depicting animals, showed a shark lying on the grass, a chicken swimming in the sea, and a frog walking on a stream.

"You can shine wherever and whoever you are," she says. 



**COMMUNITY & CARAVAGGIO:** Ryan Carbone '20, from Pipersville, Pennsylvania, depicted a dinner scene reflecting the demographics of the Holland Street neighborhood. A major in chemical engineering, he chose to work with ink and watercolor, referencing the painting "The Supper at Emmaus," a work that he came across during his research of Italian master Caravaggio. The baroque masterpiece guided his arrangement of the diners, but he substituted new figures, such as an infant in a high chair. "I wanted to create a visually interesting piece that's heartwarming for a time in people's lives when it may look bleak," he says.





**LEADING WITH LANDSCAPES:** Abigail Liebhart '21, from Freeport, New York, went large, creating a 36-by-36-inch landscape. She says she finds nature relaxing and was inspired by a place she visited in upstate New York. "I thought it would give the center a nice, calming feel," says Liebhart, who plans to major in studio art and minor in mechanical engineering.

**SOCIAL SPACES:** Take Five scholar Madison Carter '18 aimed to express the themes of unity and diversity through brightly colored hands reaching out to Earth. "I want people to feel loved and accepted in this space," says Carter, an environmental studies major whose Take Five program explores how public art influences social interactions in Rochester.





Art historian Peter Christensen harnesses technology to find the roots of globalization in the Ottoman Empire's railway.

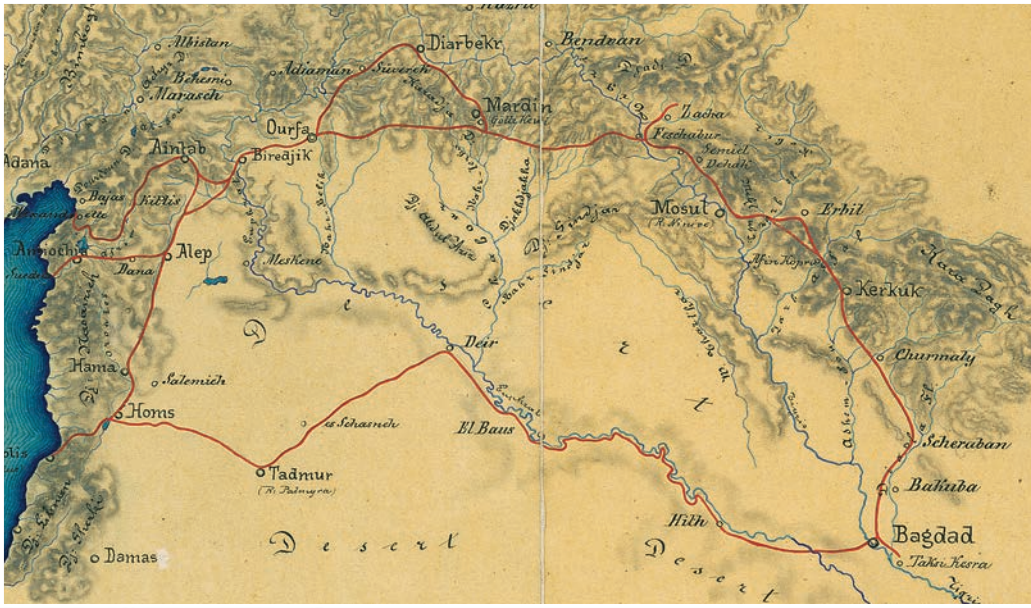
# Railways and Empires

By Kathleen McGarvey



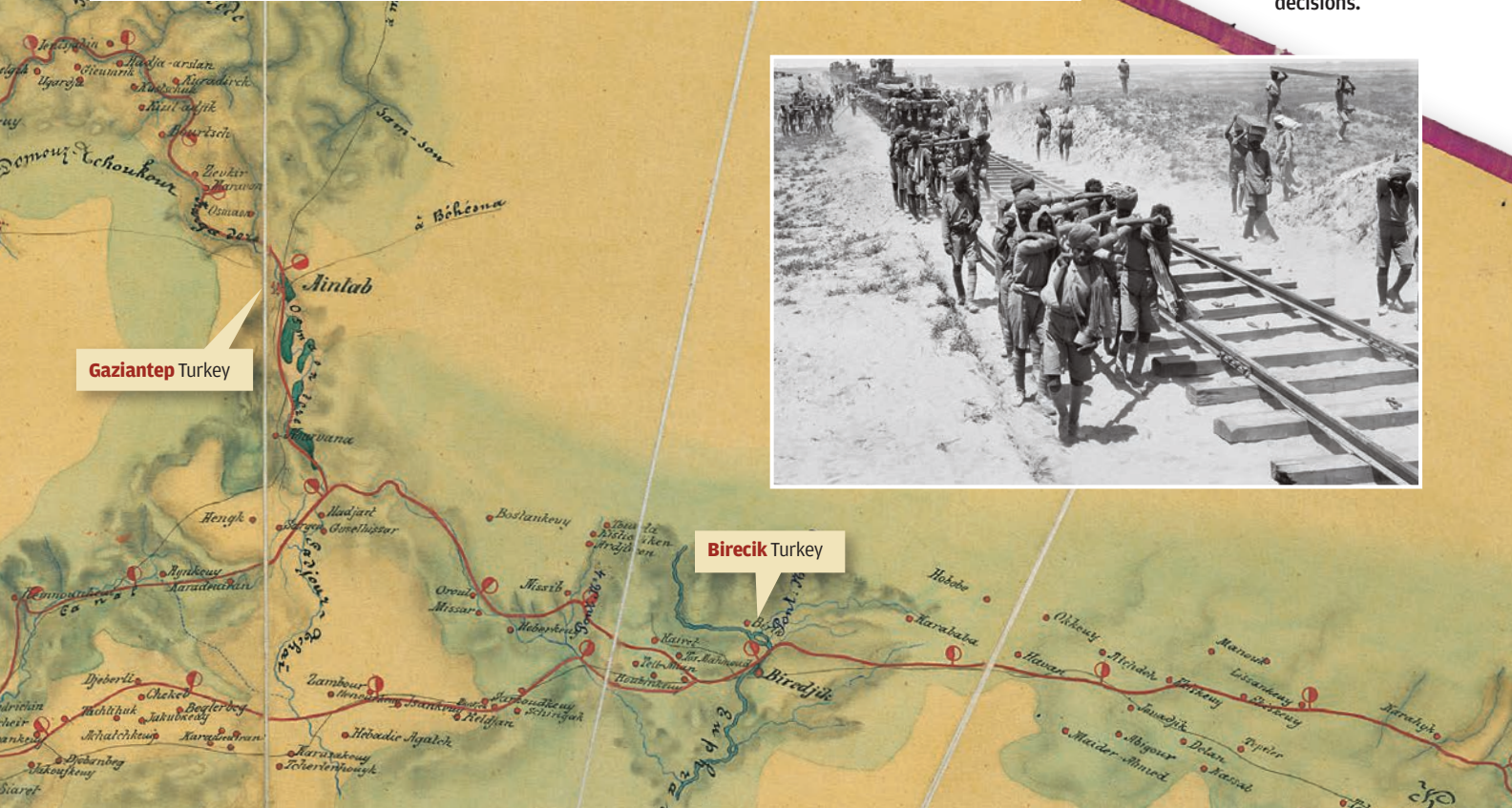
**MOVING FORWARD:** The railway was the Ottoman Empire's most significant modernization project, and came near the empire's end.





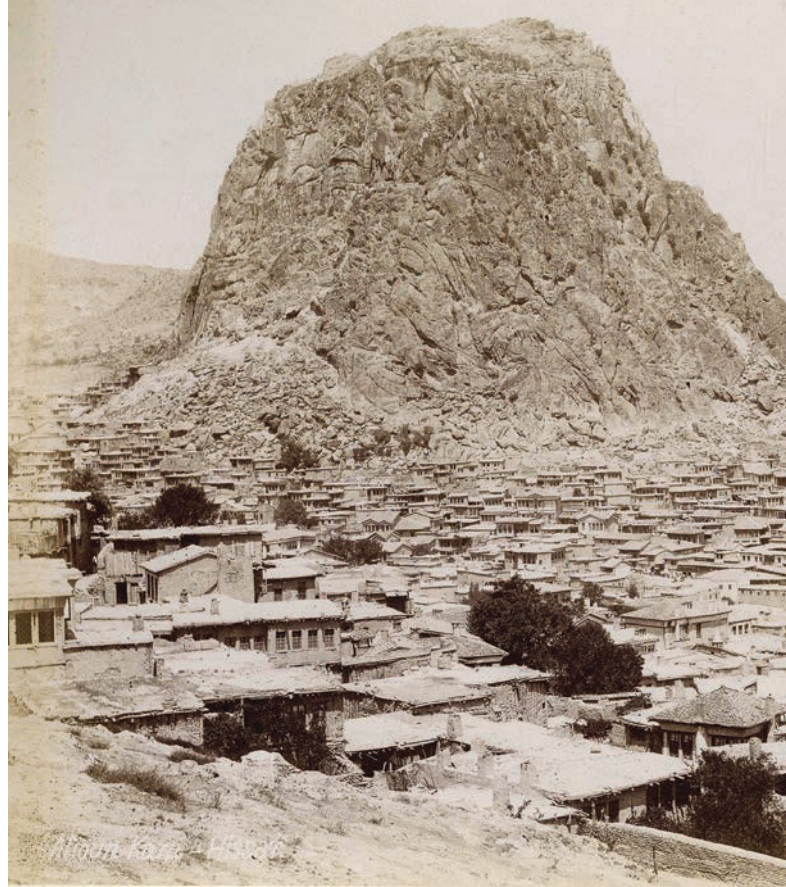
**TRACKING BOUNDARIES:** The Ottoman Railway traversed lands that are now in Syria, Lebanon, Turkey, Iraq, Israel, and Greece. “As recently as 100 years ago, the borders of these now geopolitical hot spots were completely different—and this railway was meant to connect these disparate lands,” says Christensen, who argues that structures of the immense 19th-century civil works project show a melding of East and West.

**LABORING:** Indian prisoners of war working on the Baghdad Railway, 1916 (below). Station designs, like the Adana station (bottom, left) and the Medina terminus for the Hejaz Railway (bottom, right), reflect laborers’ decisions.



ADANA STATION, VIEW FROM SOUTH (BOTTOM LEFT); MEDINA STATION AND ENVIRONS (BOTTOM RIGHT)





**LANDSCAPE VIEW:** Site-scouting photos “also comprised loose panoramas, offering vivid views of the cities as ‘as found’ landscapes,” like this image (above) of Afyonkarahisar, in western Turkey, Christensen writes.

ook at a map of roads or railroad tracks—the winding lines suffuse the terrain like veins in a body.

That’s no accident, because “they are the stuff of life,” writes Peter Christensen, an assistant professor of art history.

Trained as an architect as well as a scholar, Christensen is the author of a new book—*Germany and the Ottoman Railways: Art, Empire, and Infrastructure* (Yale, 2017)—that considers globalization through the lens of an immense civil works project that spanned cultures and borders in the late 19th and early 20th centuries.

While buildings may be the glamorous figures in architecture, “infrastructure is what modernizes us,” Christensen says. And he argues that it deserves a place in architectural history not just as technology, but also as art.

“Infrastructures make empires,” he declares on the book’s first page. “The economic, social, and cultural systems of empires are guided by and given form and purpose through canals, bridges, tunnels, ports, and, perhaps most importantly, railways.”

And the construction of infrastructure is, at many levels, a collaborative one, crossing boundaries to take advantage of expertise and finances, and reliant on the vision not just of architects and engineers, but of local laborers, too. “There are multiple layers of authorship involved in the creation of buildings and all the other objects that go into engineering a railway network,” says Christensen, who has also studied a similar effort in western Canada.

Conceived of by the Ottoman sultan, the railways of the Ottoman Empire—which encompassed the lands of what are now Syria, Lebanon, Turkey, Iraq, Israel, and Greece—were largely a German project in engineering, materials, and finances. But the relationship between the two empires was always an ambiguous one. While the German Empire was a rising power during the Ottoman Empire’s decline, and

**SCENE-SETTING:** Deutsche Bank commissioned German military artist Theodor Rocholl to create an album of 28 watercolors commemorating the Anatolian railway, a project affected by tension between “heroic Ottoman impulses” and “more romantic German” expectations for the endeavor.





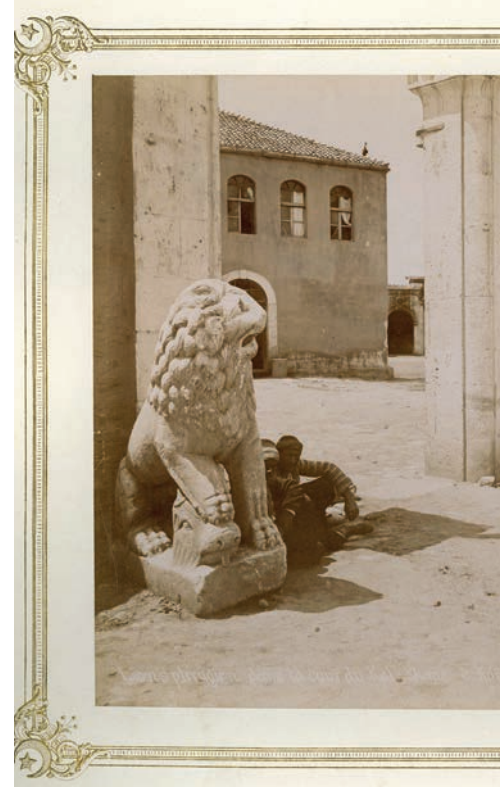
Bahnwärter an der Anatolischen Eisenbahn



Meerschaum-Händler

**RAIL ART:** Rocholl also depicted the people who worked around the railways, including an Anatolian railway attendant (left) and a dealer of Meerschaum pipes (above), who found his market expanded by the railroad.






the railway project was characterized by the international press as a colonial one, with Germany at the helm, the connection was more dynamic than antagonistic, Christensen argues.

He finds testament to the cross-cultural nature of the effort in material artifacts of the Ottoman railway, including train stations, maps, bridges, and monuments. German architects created standard designs for the railway stations based on the size of the towns' populations. But he didn't see such replication when he studied the stations that were actually built. Instead, he found that key elements of design—the form of the windows, for instance, or the stone carving—were the handiwork of workers across the multicultural Ottoman Empire, laboring in different environmental conditions and drawing on their own cultural aesthetics.

"This is a moment that crystallizes globalization in architecture," Christensen says, "because styles are conflating freely, ideas and models of architecture are traveling and being changed."

His book is part of a larger project that also involves three-dimensional imaging using face-recognition software. He and his research team have used 3-D scanning to map precisely where the various Ottoman railway stations differ, zeroing in on the contributions of on-the-ground laborers, who typically figure little in architectural history. It's a technology that he's continuing to develop—with current collaborations at the Rochester Museum and Science Center and the Museum of Modern Art—to yield a tool he hopes will be broadly useful to architectural and art historians.

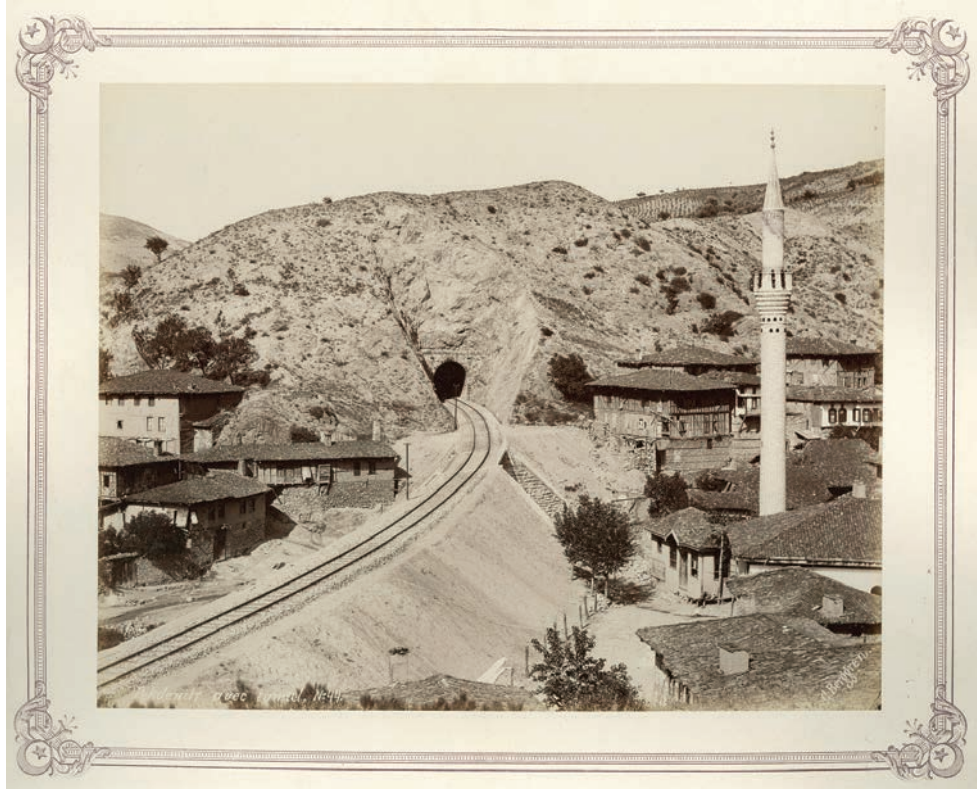
Christensen's book is also the product of a low-tech but time-honored skill for art historians: scouring the archives. Few of the images that fill his book have been published before, but Christensen says the importance of the Ottoman railway continues to reverberate in contemporary life. "As recently as 100 years ago, the borders of these now geopolitical hot spots were completely different—and this railway was meant to connect these disparate lands," he says. "After World War I, the border between Syria and Turkey was made by the railway line—it was an arbitrary line in the proverbial sand.

"We live with the aftereffects of the creation of these networks to this day." 



GUILLAUME GUSTAVE BERGGREN, VIEW OF SULTAN HAN, AKSARAY, CA. 1893 (TOP LEFT), PHYRIGIAN LIONS IN THE COURTYARD OF THE KAL-HAN[*E*] IN KONYA, CA. 1893 (TOP CENTER). NIEDERSÄCHSISCHES LANDESARCHIV, WOLFENBÜTTEL





**PHOTOGRAPHIC RECORD:** Swedish-born, Istanbul-based photographer Guillaume Gustave Berggren was hired by Deutsche Bank to document the Anatolian and Baghdad railways and their environs.

**OFFICIAL VISIT:** Kaiser Wilhelm visiting the Dome of the Rock, 1898. Located in Jerusalem, the shrine is a cultural landmark of Islamic architecture.





**Grand Prize: Study Abroad**

**INDIA**

*Shivaratri Festival in Varanasi*

**Raina Langevin '18**, a Take Five Scholar from South Burlington, Vermont. *Spring 2016*

**Global Experience: Winner**

**NEW ZEALAND**

*A solo trip to Queenstown*

**Jenna Duerr '18**, a linguistics and American Sign Language major from Wilmette, Illinois. *Spring 2017*

# Depths of Field

Rochester students used their cameras—and mobile phones—to capture their experiences around the world in this year’s Education Abroad Photo Contest.

Now in its 21st edition, the contest is administered by the Center for Education Abroad with support from the Office of Global Engagement, *Rochester Review*, and University Communications.

This year’s contest, which covered the period from January 2016 through the 2016–17 academic year, received a total of 245 entries from 53 students who

submitted their photos in the categories of Physical World, Local Culture, the Student Experience, the Global Experience (sponsored by Global Engagement), and Most Epic Selfie.

The contest also included a Community Vote category, selected by visitors to the social media outlets of the Center for Education Abroad. Each year, more than 275 students study abroad through more than 100 academic programs offered by the Center for Education Abroad in more than 50 countries.







▲ **Global Experience: Honorable Mention**

**MOROCCO**  
*Camel riding in Tangier*  
**Gina Bolanos '18**, a mechanical engineering major from Dallas. Spring 2017

◀ **Community Vote**

**ITALY**  
*Corricella port, the island of Procida*  
**Jeremy Lopez '20E**, an applied music (voice) major from Hicksville, New York. Summer 2017





▲  
**Student Experience:  
Honorable Mention**

**HONG KONG**

*Pavilion of Harmony,  
the Chinese University  
of Hong Kong*

**Azmayeen Fayeque Rhythm** '19,  
a computer science major from  
Rochester. *Summer 2016*

**Local Culture: Winner** ▶

**MOROCCO**

*Fresh orange juice in Kasbah  
des Oudayas*

**Danielle Douglas** '17, an  
international relations and  
anthropology major from Croton-  
on-Hudson, New York. *Spring 2016*







◀ **Local Culture:  
Honorable  
Mention**

**FRANCE**  
*Karneval in  
Strasbourg*  
**Elizabeth Stanitz '18**,  
a mechanical  
engineering major  
from Cleveland.  
*Spring 2017*



◀ **Student  
Experience:  
Winner**

**ITALY**  
*Learning to bake  
pizza on the island  
of Procida*  
**John Cole '19**, an  
international relations  
major from Oberlin,  
Ohio. *Summer 2017*



◀ **Physical World:  
Honorable  
Mention**

**MALAWI**  
*Mua Mission:  
Kungoni Centre of  
Culture and Art*  
**Marysa Corona '20**,  
an environmental  
health major from  
Skaneateles, New  
York. *Summer 2017*





▲ **Most Epic Selfie: Honorable Mention**

**AUSTRALIA**

*Meeting a quokka, Rottneest Island*

**Selena Lilley '17**, a neuroscience and psychology major from Erie, Pennsylvania. *Spring 2016*



▲ **Most Epic Selfie: Winner**

**SPAIN**

*Sagrada Familia*

**Steph Warsh '17**, a Japanese major from Lafayette, New Jersey. *Spring 2016*

▶ **Physical World: Winner**

**ICELAND**

*Gullfoss Waterfall*

**Joshua Hill '18**, a political science and English major from Penfield, New York. *Spring 2017*









## A Mind for Sound

Kedar Shashidhar '15, '16 (KEY), one of Rochester's first audio and music engineering graduates, is on the forefront of three-dimensional sound.

Interview by Kristine Thompson

As a high school student in Corning, New York, **Kedar Shashidhar** '15, '16 (KEY) was accepted into the Eastman School of Music for classical saxophone performance. His parents told him he could attend on one condition: that he coupled it with a degree in engineering.

Shashidhar complied, and was admitted as well into the College, where at a required orientation program for students who planned to study engineering, he learned about a soon-to-be-offered major in audio and music engineering.

Shashidhar knew this was the program for him. He withdrew from Eastman and became one of the very first audio and music engineering majors at Rochester.

Today, in addition to designing audio-only games at his studio, Blackout VR, Shashidhar puts his skills to work at OSSIC Studios, a Kickstarter-funded company in San Diego that's developing three-dimensional audio headphones. As the company's associate creative director, he has a range of responsibilities, from product and software tool development, to working directly with designers, musicians, and game developers, to building virtual reality experiences to showcase 3-D audio's potential.

### What is three-dimensional audio?

Three-dimensional, or 3-D, audio is about experiencing sound as we hear it in the world. Think about it: sound exists in a particular location; it has directionality. In that way, 3-D audio allows us to experience truly immersive worlds

### Ready for a New Reality?

Three-dimensional sound is a basic component of the computer-based experiences known as virtual reality and augmented reality—usually called VR/AR.

VR “allows people to immerse themselves in different worlds,” says Shashidhar. “You can move around in a different reality and even interact in it.” AR “combines reality with the virtual” by allowing users to place virtual items, through a smartphone app, in their “real” environment.

What are some of the best examples of virtual or augmented reality applications that are widely available to consumers now? Here are a few of Shashidhar's favorites.

**Google Tilt Brush** allows you to paint and create in a 3-D space, then to share your artwork as “room-scale VR masterpieces” or GIFs. Equipment needed: HTC Vive or Oculus Rift virtual reality headset.

**Google Blocks** can help you create 3-D objects with a simple set of tools. Equipment needed: HTC Vive or Oculus Rift.

**TheWaveVR**, essentially a giant online wave, is reinventing the concert experience and lets you view, host, and socialize in a virtual environment. Equipment needed: HTC Vive and a computer.

while sitting at the movies, watching TV at home, playing a video game on a gaming console, phone, or computer, or listening to music through any type of device. Even while creating music or composing musical scores.

### Can we hear 3-D audio now? If so, where?

It's already creeping into our daily lives. For instance, Dolby is using it in music now. Games are also featuring it. YouTube and Facebook support 3-D audio now when watching 360 videos, too, but there's a ways to go on the technology. Although you can plug in a normal pair of headphones and experience spatial audio from 360-video content that's already there, you might experience spatial blur. This happens when you're trying to pinpoint a sound source, but its location is unclear. It makes it difficult to tell if a sound is coming from in front or behind your head, or directly above or below it. These problems arise because the spatial audio is created using a model of the average human head and ears. In actuality, our individual anatomical differences are key to our ability to tell clearly where a sound is coming from.


### Besides entertainment, what are potential applications for 3-D audio?

It's certainly of particular interest to a number of industries, such as aerospace or military communication. Imagine, for example, that you're a pilot. Sounds come from many directions inside the cockpit. When sounds are spread out so they aren't coming from one source, our auditory comprehension improves, which can improve pilot reaction times.

Or, say you are on a Skype call with 12 other people from around the country. You hear voices on top of each other and it's nearly impossible to distinguish them. With 3-D audio, you can distinguish among voices that are coming from in front of you, behind you, and to the left or right of you.

### What special considerations are involved in developing 3-D headphones?

The OSSIC X headphones we're developing are full of technology that “understands” the distinctive aspects of each listener's anatomy—aspects like head shape and width—that help us figure out where sounds are coming from. An individual's ear for example, is as unique as a fingerprint.

Our headphones also feature head-tracking technology. This helps users confirm where a sound is coming from. It's like when we rotate our heads to get visual confirmation of where a sound is coming from. When we hear a car honking, for example, we turn our heads to locate the car. This head-tracking, paired with the headphone's ear calibration, allows us to create accurate 3-D sound that actually lives outside of our heads. It's the evolution of both the 3-D audio technology you might find on YouTube and the surround sound technology you might find in your movies. 







**MULTIDIMENSIONAL:** As both a musician and an engineer, Shashidhar is steeped in sound. When he's not working to develop state-of-the-art 3-D headphones and audio-only games, the one-time classical saxophone student—and pioneering audio and music engineering major—sings in a San Diego barbershop quartet.





## Systems and Sensibility

C. Mike Lindsey '08, '09 (T5) harnesses his passion for improving systems as an urban agricultural entrepreneur.

By Jim Mandelaro

After working in veterinary medicine for seven years, **C. Mike Lindsey** '08, '09 (T5) was looking for a way to apply his knowledge of animals and biological systems that would have a greater impact.

He discovered it as cofounder of an urban agriculture start-up company.

The company, NexLoop, is the producer of AquaWeb, a system that can be retrofitted onto buildings and that emulates spider webs and cacti to harness rain and fog for use in urban farms. Last fall, NexLoop was awarded \$100,000 in seed money at the

**AN ABSORBING PROJECT:** With his partners at the start-up NexLoop, Lindsey helps develop systems that harness rain and fog for urban agricultural use—and that are integrated right into the built environment.

Bioneers Conference in San Francisco after winning the Biomimicry Institute's Global Design Challenge.

"We're taking a whole systems approach to the local-food conversation," says Lindsey, who lives in Brooklyn. "Where does your water come from? What if, even in a desert, we could think about irrigation as little as we think about breathing?"

Municipal water is cheap, but there are problems in New York City and many other cities with outdated sewer systems. "If it rains, the streets are flooded within 10 minutes, causing debris to flow directly into surrounding waterways," he says.

Creating soil-based green roofs and other absorptive infrastructure soaks up water and harnesses a free resource for urban farmers. "It also allows an off-the-grid farmer in rural Montana to gather their own water for less than the cost of a well," he adds.

Lindsey is accustomed to thinking broadly, and to making connections across disciplines that might elude others. During his sophomore year at Rochester, the Wisconsin native created



an interdisciplinary major called “integrative neurobiology,” studying the biological and neurological factors contributing to animal behavior and cognition.

“I started taking classes in brain and cognitive sciences and psychology and got pulled into the neuroscience world,” he says. He spent a fifth year completing a Take Five program called “Understanding Bilingual Representation,” in which he analyzed how language is organized in the brain.

His Take Five advisor was Jeffrey Runner, a professor of linguistics and now dean of the College.

“I remember C. Mike as someone who was very creative and very outgoing,” Runner says. “He got the most out of his Rochester experience.”

Lindsey had long wanted to be a veterinarian, and sought experience in the field after graduation. In roles at veterinary hospitals and zoos, “I helped with everything from diabetic cats, to dogs hit by cars, to an anteater’s endoscopy, and even autopsies on endangered species like a clouded leopard and a maned wolf,” he says. The work fascinated him, but “it’s a stressful field and really tough emotionally.”

Not one to limit his pursuits, Lindsey was at the same time following Brooklyn Grange—the largest soil-based rooftop farm in the world—on Instagram. In 2015, he added an apprenticeship there to his routine, as a change of pace.

“It was idyllic, and a stark contrast to stressful days in the emergency room,” he says. “At 5 a.m., I’d watch the sun rise over the New York skyline while picking tomatoes and salad greens in the middle of the city.”

A friend from Rochester connected Lindsey with Jacob Russo, a recent Carnegie Mellon graduate who is completing a master’s program in biomimetic architecture in Germany. They teamed with Anamarija Frankic, an ecology research professor in Croatia who specializes in coastal water ecosystems. NexLoop was formed.

Lindsey’s life course—from Rochester to veterinary work to his role at NexLoop, focused on business and customer development—may seem like it’s taken twists and turns. And yet, some basic elements have been pretty constant. “The common thread in all of this,” he says, “is that I really enjoy using different perspectives to improve systems.” 📍



**BUFFALO-BOUND:** Daboll has been named offensive coordinator for the Buffalo Bills. He served in that same role in 2017 for the national champion University of Alabama Crimson Tide.

## New Game Planner for Buffalo

**Brian Daboll** '97 has been named offensive coordinator for the Buffalo Bills. The position places him second-in-command behind head coach Sean McDermott.

Daboll won five Super Bowl rings as an assistant coach with the New England Patriots before becoming offensive coordinator at the University of Alabama in 2017 and helping the Crimson Tide win its fifth national championship in nine years.

A Buffalo native who grew up rooting for the Bills, Daboll majored in economics at Rochester and played two football seasons as a safety before an injury in the 1995 season finale ended his playing days. He spent his senior season as a student assistant before beginning his coaching career at the College of William & Mary in 1997.

## A Winning Sports Journalist

**Ron Thomas** '71, a veteran sports reporter and director of the Morehouse College Journalism and Sports Program, won the 2017 Legacy Award from the National Association of Black Journalists. The award is presented annually to “a black print, broadcast, digital or photo journalist of extraordinary accomplishment who has broken barriers and blazed trails.” Thomas—who reported for *USA Today* and the *San Francisco Chronicle*, and is the author of *They Cleared the Lane: The NBA’s Black Pioneers* (Bison Books, 2004)—was cited for his own work in addition to his role as an educator and mentor.

Thomas has also been celebrated for work that places sports and the business of sports in social and cultural context. In 2011 he won the Lifetime Achievement Award for Excellence in Sports Journalism from Northeastern University School of Journalism and its educational and consulting center, Sport in Society.



**TRAILBLAZER:** Thomas is honored by the National Association of Black Journalists.



## A Times-Honored Musician

A violinist is named a ‘New Yorker of the Year.’

When a *New York Times* metro columnist asked readers which New Yorkers had made an outsized impact on the city in 2017, readers responded with more than 100 names. Among the four who were ultimately honored in the “New York Today” column was violinist **Kelly Hall-Tompkins** ’93E.


Hall-Tompkins “earned acclaim last year as the fiddler in the Broadway revival of *Fiddler on the Roof*,” wrote columnist Alexandra Levine. “But more than a decade ago, well before she would have imagined landing the coveted violin soloist gig, she was playing chamber music in soup kitchens.”

Hall-Tompkins founded Music Kitchen—Food for the Soul, an organization she started in 2005 that has grown to include nearly 200 chamber musicians—including Hall-Tompkins herself—who offer intimate classical music performances in city shelters, soup kitchens, and other venues. Music Kitchen has expanded to offer performances in other cities as well.

The idea for Music Kitchen “came to me while preparing for a series of solo concerts in February of 2004,” she writes on [Musickitchennyc.org](http://Musickitchennyc.org). “Having just experienced the passing of a friend, I had not had time to arrange to play through my concert repertoire for my usual friends and colleagues.”

At the urging of her husband, Joe, a volunteer coordinator at a homeless shelter, she played her repertoire at the shelter. “The experience was very rewarding for me. Some had never heard classical music before and some were knowledgeable about it, but all seemed interested and moved by the music.”

Hall-Tompkins is an active soloist, chamber, and orchestral musician. Her soloist role in Broadway’s *Fiddler on the Roof* featured music composed specifically for her.

She has also performed for several years as concertmaster for the Gateways Music Festival, which, in association with the Eastman School of Music, brings together professional classical musicians of African descent. 

—KAREN MCCALLY



**QUEEN OF THE HILL, TOP OF THE HEAP:** Recognized for making a big impact in the Big Apple, Hall-Tompkins also receives applause for her role as concertmaster of the orchestra of Gateways Music Festival, held in association with the Eastman School of Music.





## Joining the Cable (Hall of Fame) Lineup



Naomi Miron Bergman

**Naomi (Nomi) Miron Bergman** '85, senior executive at the media company Advance/Newhouse, has been named to the Cable Center's Cable Hall of Fame.

Based in Denver, the Cable Center launches exhibits and preserves archives on the history of the industry. The non-profit organization also operates as a hub for industry leaders to help shape cable's future.

Bergman, a University trustee, got her start in the cable business at Bright House Networks, where she became a recognized leader in high-speed data and on improving customer experience.

## Alumni Advancing Science

For a brief period this past winter, the president and president-elect of one of the world's leading organizations for the advancement of science were both Rochester alumni.

**Steven Chu** '70 was named president-elect of the American Association for the Advancement of Science (AAAS) in January. **Susan Hockfield** '73 completed her term as president of the association in February, after which she became chair of its board of directors. Under AAAS rules, the president-elect serves one year in the role before assuming the presidency.



Steven Chu

The AAAS, founded in 1848, is one of the world's largest scientific societies, with more than 120,000 members. With the goal "to advance science, engineering, and innovation throughout the world for the benefit of all people," the association publishes a network of peer-reviewed journals, including *Science*, operates educational programs, and works to inform public policy and lobby on behalf of scientific freedom and cooperation.

Chu, the William R. Kenan Jr. Professor of Physics and Professor of Molecular and Cellular Physiology at Stanford University, won the Nobel Prize for Physics in 1997 and served as secretary of energy during President Barack Obama's first term in office.



Susan Hockfield

Hockfield is a professor of neuroscience at the Massachusetts Institute of Technology and served as president of MIT from 2004 to 2012.

"As secretary of energy, I was reminded daily that science must continue to be elevated and integrated into our national life and throughout the world," Chu wrote in his candidacy statement. "Never has there been a more important time than today for AAAS to communicate the advances in science, the methods we use to acquire this knowledge and the benefits of these discoveries to the public and our policymakers."

—Karen McCally



# Class Notes



**BUSY BALCONY:** The Yellowjacket mascot Rocky, who turns 10 this year, has a few ancestors, such as these, pictured on the balcony of Rush Rhees Library. Recognize anyone? Email us at [rochrev@rochester.edu](mailto:rochrev@rochester.edu).

## College

### ARTS, SCIENCES & ENGINEERING

**1949 Gloria (Lou) Patchen Alexander** (see '50).

**1950 Kenn Hubel** rounded up some news from classmates. "Hoping that I might rouse some of the remaining 200 members of the U of R Centennial Class of 1950," he writes, "I sent a 'What's up?' message" to several classmates for whom he had email addresses. Kenn passes along the following news:

"**Mary Lee Monroe Birmingham** reports that she was the first student from the University to spend a junior year of study abroad. The experience, in Lima, Peru, 'changed (her) life.' She is an avid genealogist and archaeologist and worked as a volunteer in studies of the Coconino National Forest in Arizona. She and her husband have six children between them. She is a member of the Red Hat Society, loves to play poker, and reads an average of 10 books a month. She writes: 'I am still alive and kicking, enjoying my

old age.' She can be reached at [ladyflossmore@frii.com](mailto:ladyflossmore@frii.com) or 1225 W. Prospect Rd., Fort Collins, CO 80526.

"**Marvin Mandell**, a passionate egalitarian and socialist, died in March 2017 at age 90, writes his daughter, Charlotte Mandell Kelly. His obituary in the *Boston Globe* reported that he was a man 'who believed that equality was more than just a philosophy. For him, it was a daily practice, a way of life.' Marvin taught at Curry College in Boston. In the 1960s he launched the journal *New Politics* and remained an editor thereafter. Charlotte wrote that her parents 'wanted everyone to be equal; they didn't want us to think of them as authoritarian.'

"Mary Lee told **Gloria (Lou) Patchen Alexander** '49 of my email, and Lou responded with a note. She writes that, following graduation, she earned a master's degree in social work from Columbia University and practiced and taught with various age groups and at several colleges. She married Bob Alexander in 1958. They are retired and living in Vermont. She welcomes mail at PO Box 363, Arlington, VT



**1957 Anderson**

05250 or email at [globoalex@gmail.com](mailto:globoalex@gmail.com)."

Kenn adds that he will send more email requests soon. "Perhaps the appearance of some class notes from 1950 will encourage other classmates to reply."

**1957 Bill Anderson** sends a note and photograph: "The Theta Chi Class of '57 held its 60th anniversary reunion. This time it was aboard the cruise ship *Regal Princess*, trav-

eling up the East Coast from New York City to the Canadian Maritimes in October 2017 (during Meliora Weekend). We visited Newport, Boston, Bar Harbor, Saint John, New Brunswick, and Halifax. We became reacquainted at our 50th reunion in 2007, and a number of us have gathered in seven of the succeeding 10 years. This was our third cruise, along with various other reunion locations and activities. Out of the original 18, eight have passed away,



and most of the others who were missing this year are no longer able to travel for various reasons." Pictured from left to right are **Ralph (Roy) Whitney '73S (MBA)** and **Fay Wadsworth Whitney '60, '61N**; **Mark Sharnoff** and his wife, Marcia Halio; **Garrett Smith '61** and his friend Maryanne Madigan; and **Carol (Kay) Stiles Anderson '59, '59N** and Bill. . . . **Joan Coombs McKinley** (see '84).

**1958 Harry McKinley '58** (see '84).

**1959 Carol (Kay) Stiles Anderson '59N** (see '57).

**1960 Fay Wadsworth Whitney '61N** (see '57).

**1961 Garrett Smith** (see '57).

**1964 Pauline deHaart Adams '66 (MA)** died in September, writes her son-in-law, John Countryman. Pauline was born in the Netherlands and moved to Rochester when she married Richard Adams, an American soldier who fought in the Battle of the Bulge. They had four children. She earned her degrees at Rochester after divorcing, and then moved to Washington state to take a registrar's position at the Seattle Art Museum. Pauline was an active hiker, theater-goer, and painter of watercolors.

**1971 Clayton Press**, an art collector and consultant in New York City, recently joined Forbes.com as a contributor focusing on contemporary art's creators, innovators, influencers, and entrepreneurs. Since autumn 2016, he has provided art criticism to Arteviste.com, a British digital platform. He published two books in 2017: *Robert Mangold: A Survey, 1965-2003* (Mnuchin Gallery) and *Next to Nothing, Close to Nowhere: Kathleen Jacobs* (Burckhardt Boles).

## Abbreviations

<b>E</b>	Eastman School of Music
<b>M</b>	School of Medicine and Dentistry
<b>N</b>	School of Nursing
<b>S</b>	Simon Business School
<b>W</b>	Warner School of Education
<b>Mas</b>	Master's degree
<b>RC</b>	River Campus
<b>Res</b>	Medical Center residency
<b>Flw</b>	Postdoctoral fellowship
<b>Pdc</b>	Postdoctoral certificate

**1973 Eileen Lewis** sends a photograph from an October 2017 mini-reunion that **Myra Hirschberg** and her husband, Tom Calwell, hosted at their winter getaway in Asheville, North Carolina. Pictured from left to right are **Andrea DiGaetano Turner**, Myra, and Eileen. Eileen writes that she is anticipating many postretirement travels from Los Angeles; Andrea and her husband, Peter, have retired to Jerusalem, Israel; and Myra and Tom live in Peterborough, Ontario, Canada. . . . **Alan Levinson** died in August, writes his wife, Micki. According to his obituary, after graduating from Rochester, Alan "had a few good years of hippying and travel that took him from inside the Iron Curtain to the driver's seat of a taxi" before getting a master's degree in industrial relations at the University of Wisconsin. He then settled in the San Francisco Bay Area, where "he began a career dedicated to workers and the public interest."

**1974 Carol Karp** (see '11).

**1975 Catherine Coates** sends a photo and an update. She writes, "In June 2017, I was ordained as an interfaith minister by the One Spirit Learning Alliance in New York City. An interfaith minister is open to people of any or no faith, without insisting on one way being normative." . . . **Howard Stein**, a partner at Certilman Balin and based in the firm's East Meadow, New York, office, has been named to the 2017 New York Super Lawyers list. Howard heads the real estate practice group. He is an adjunct professor of real estate law at Touro Law Center and chairman of the school's board of governors.

**1977 Peter Friedenber** was selected by the rating service Super Lawyers to be included in its 2017 rankings for Massachusetts. Peter is a real estate attorney with the Boston-based law firm Sherin and Lodgen. . . . **James Holahan**, an attorney in the Rochester office of Bond, Schoeneck & King, was named the lawyer of the year in Rochester in the labor law-management practice area in the 2018 Best Lawyers in America list. . . . **Judy-ann West '82W (Mas)** sends a photo and a note: "I traveled to Rio, Buenos Aires, and Santiago in October with my daughter. Rocky visited the Christ the Redeemer Statue in Rio as well as made it to the top of



1973 Lewis



1977 West



1979 Vallarini



Sky Costanera, Santiago, the tallest structure in South America.”

**1979 Steven Goldberg** was named Best of the Bar 2017 by the *Sacramento Business Journal*. Goldberg is a partner at California-based Downey Brand. . . . **Joseph Kubarek** and **Sharon Porcellio**, both attorneys with Bond, Schoeneck & King, were named to the Best Lawyers in America 2018 list. . . . **Tina Seelig**'s book *Creativity Rules: Get Ideas Out of Your Head and into the World* (HarperCollins) was released in September. She is a professor of the practice in the Department of Management Science and Engineering at Stanford and a faculty director of the Stanford Technology Ventures Program, the entrepreneurship center at the university's engineering school. She teaches courses on creativity, innovation, and entrepreneurship. . . . **Carl and Sue White Vallarini** '80N send a photo (see page 53) from an “Alpha Delta Phi and friends birthday party reunion” in Half Moon Bay, California. “This is a long-planned trip, which was sidelined by fires and then re-orchestrated. We had so much fun! In the photo with Carl and me are **Tom Ketterer, John Conway, John Mora, Van Battle, Tim Ruhland, Jean Merenda Conway, and Sandy Beback Ketterer**. Notice the Yellowjacket.”

**1982 Tom Murray** (see '90).

**1984 Phil McKinley** writes, “Attached is a photo with three generations of Rochester students taken in August 2017 at the home of **Joan Coombs McKinley** '57 and



**1984 McKinley**

**Harry McKinley** '58 in Dartmouth, Massachusetts. From left to right are Harry, Joan, me, and **Alex McKinley** '19.” Harry and Joan are Phil's parents, and Alex is Phil's and his wife, Lisa's, son. Harry and Joan are retired, and Phil is a staff engineer at MIT Lincoln Laboratory in Lexington, Massachusetts. Phil adds that “Alex's sister, Sarah, is a senior in high school and evaluating college choices for next year.” . . . **Darryl Powell** wrote and illustrated *Rocks, Minerals & Crystals: A Coloring & Collecting Book* (Gem Guides Book Co.) for adults and youths.

**1985 Caroline Yates** (see '88).

**1988 Chris Carver** died in July, writes **Rob Park** '90S (MBA). “We lost our friend and brother Chris to a battle with cancer in July. The life of the former social chairman of Psi Upsilon was celebrated in Rochester,

and more than 25 brothers and friends gathered from all over the world. Chris's family and friends wish to thank the many wonderful people at Wilmot Cancer Center and the Palliative Care team at Strong as well as the folks at Hope Lodge.” Pictured are: (standing, from left) **Eugene Smith, Mike McCarthy** '87, **Sharone Lane Simone, Lisa Kronthal Elkin, Dennis Alpert, Richard Yates** '87, **Caroline Yates** '85, **Bill Theriault** '90, '94S (MBA), **Jeff Kroon** '87, **Chris Lee** '87, **Jay Ryan, Lynn Hallock Wasserman** '89, **Gus Weigel** '89, '90S (MBA), **Greg Wasserman** '87, **Pat Jeffrey, Rob, John Freedman** '87; (seated, from left) **Andy Hall, Tom Canty** '87, **Terry Travers** '87, **Dan Rosenthal, and Gloribel Arvelo-Park** '89. Also attending, but not pictured, were **Chris Thomas** '89, **Alex Strassenburgh, Chris Giglio, and Brian Weinberg** '87. . . . **Beth Fried**

(see '90). . . . **Sonia Gyan Pazak** (see '90). . . . **Julie Falwell Weidner** '92M (MD) (see '90).

**1989 Bridgid Brennan** (see '90).

**1990 Carolyn Haberek Blanco-Losada** sends a photo from the 30th anniversary celebration of Delta Gamma's Zeta Delta chapter, held last Meliora Weekend. Carolyn writes that the celebration, which included current students and their parents, featured “a reissue of the popular Absolut shirts from the year the chapter was founded.” Pictured are founding sisters (back row, left to right) **Susan Bishara Santarosa** '91, **Colleen Farrell** '92, **Tracey Planavsky Belsky** '92, **Connie White** '91, **Deanna Drzewiecki Deshpande** '91, **Marlene Mourtzikos, Erin Allen** '92, **Trish Murley** '92, **Mamta Shah** '92N, **Sarah Berger** '92, **Allison Ault** '92, **Loretta Santilli** '92; (middle row) **Katie Keller** '93N, **Karen Berman** '92, **Nadia Malik** '92, '94S (MBA), **Anne Merton** '89N, **Ashley Sartor McNamara, Nicole Kaplan, Penny Pearson O'Neil, Janice Gillman Greenberg, Jennifer Gordon Gross, Nancy McGhee Stevenson** '93, Carolyn; (front row) **Lisa Weber** '92, **Beth Fried** '88, **Julie Falwell Weidner** '88, '92M (MD), **Bridgid Brennan** '89, **Janet Ramirez Glausier** '88N, **Sonia Gyan Pazak** '88, **Donna Schwind Border** '90N, and **Liliana Alonso-Smith** '93. . . . **Lisa Chapman Clay** sends a note and photo from a mini-reunion: “Greetings. Please find attached a picture of Kappa Delta sisters and BFFs for the last 30 years having our annual girls' weekend. We met in



**1988 Carver**



Boston in November.” Pictured are: (front row) **Lisa Lim Mui**, **Nicole Schaeffer Orlov**; (back row) Lisa, **Erin O’Rourke Fuller**, and **Brenda Gingalewski Smith**. . . . **Bob Hartz** ’98S (MBA) married Lauren Murray in Buffalo. Lauren’s father, **Tom Murray** ’82, sends a photo and writes, “On hand and in attendance were many Yellowjackets.” Pictured are (kneeling) **Rowan Crawford** ’95, **Mike Rosato** ’82, ’89S (MBA), Tom, Lauren, Bob, **Griff Altmann** ’90, ’91 (MS), ’01S (MBA), **Mike Clark** ’89; (standing) **Jorge DeRosas** ’92, **Mike Dougherty** ’91, **Rich Harrison**, **Chuck Alf** ’92, **Jon Ty** ’91, **Paul (PJ) Scott** ’92, **Mitch Riesenberger** ’95, **Fred Falkowski** ’91, **Kurt Doyen**, **Joe Bailey** ’97W, and **Ted Sweeney** ’84. . . . **John Sotomayor**, publisher of *Elevate Magazine* (formerly the *Ocala Christian Advocate*), writes that the Florida Press Club awarded work published in the magazine with first place in religion writing and second place in community news. The City of Ocala REACH committee presented the 2017 Mary Sue Rich Diversity Award to *Elevate* in October. “We are humbled and honored to be acknowledged with such high praise by both the City of Ocala and the State of Florida in our first year,” writes John.

**1991 Deanna Drzewiecki Deshpande** (see ’90). . . . **Susan Bishara Santarosa** (see ’90). . . . **Connie White** (see ’90).

**1992 Erin Allen** (see ’90). . . . **Allison Ault** (see ’90). . . . **Tracey**

**Send Your News!**

If you have an announcement you’d like to share with your fellow alumni, please send or e-mail your personal and professional news to *Rochester Review*.

E-mail your news and digital photos to rochrev@rochester.edu. Mail news and photos to *Rochester Review*, 22 Wallis Hall, University of Rochester, Box 270044, Rochester, NY 14627-0044.

Please do not edit, crop, or resize your digital images; send the original, full-size file downloaded from your camera or smartphone.

To ensure timely publication of your information, keep in mind the following deadlines:

Issue	Deadline
July 2018	April 1, 2018
September 2018	June 1, 2018



1990 Blanco-Losada

**Planavsky Belsky** (see ’90). . . . **Karen Berman** (see ’90). . . . **Sarah Berger** (see ’90). . . . **Colleen Farrell** (see ’90). . . . **Nadia Malik** ’94S (MBA) (see ’90). . . . **Trish Murley** (see ’90). . . . **Loretta Santilli** (see ’90). . . . **Lisa Weber** (see ’90).

**1993 Liliana Alonso-Smith** (see ’90). . . . **Brian Laudadio**, an attorney in the Rochester office of Bond, Schoeneck & King, was included in the 2018 Best Lawyers in America list as the lawyer of the year in Rochester for the litigation-municipal practice area. . . . **Nancy McGhee Stevenson** (see ’90).

**1997 Jody Kidney** writes that she married Kirk Schmidt of Chapel Hill, North Carolina, “via Cincinnati, Ohio,” last July. “We were married on the beautiful shores of Lake Ontario in Mexico, New York,” writes Jody. “**Laura Bobis Olley** was my best person, and Kirk’s best person was his sister, Sorien Schmidt. Many dear friends and family attended from near and far, and at the end of the day everyone ended up swimming in the lake, roasting marshmallows, and enjoying a beach bonfire. It was a lovely gathering of friends and family. Kirk and I own the Kraken, a historic roadhouse bar and music venue located on the outskirts of Chapel Hill, North Carolina. We book and perform in a number of bands and regularly host charity events.” . . . **Ronian Siew** ’99 (MS) recently published *Perspectives on Modern*



1990 Clay



1990 Hartz





2001 Sternberg

*Optics and Imaging: With Practical Examples Using Zemax OpticStudio* (Amazon Kindle Direct).

**1999 Vince Mancuso '10W** (EdD) recently published *Phenomena-Driven Inquiry: A Strategy to Explore and Explain Phenomena Using the POQIE Model* (Planet Magic), geared toward in-service and pre-service science teachers of all grade levels. He teaches chemistry in the Brighton Central School District, near Rochester. . . . **Aaron Olden '10M** (MS), medical director of palliative care for Lifetime Care Home Health Care and Hospice in Rochester, was selected as one of *Rochester Business Journal's* 2017 "Forty under 40" honorees.

**2000 David Viens** sends an update: "I am excited to share that I have rejoined the law firm of Morrison Mahoney as a partner in the firm's Boston and Worcester, Massachusetts, offices. I will continue my practice focusing on business law and business/commercial and other complex litigation. I started my legal career at Morrison Mahoney as a law clerk and later returned as an associate. I am very happy to be back after nearly eight years at Bowditch & Dewey, where I was a partner in that firm's Worcester office."

**2001 Lauren Gaffney Sternberg** sends a photo and announcement: "My husband, Jeremy Sternberg, and I welcomed our second child, Lucy Alexandra, in December. She and her big bro, Connor, 3, are already BFFs."

**2002 Elizabeth Hakiel '03S** (MBA), vice president and senior wealth advisor for Tompkins Financial Advisors, has been named by the *Rochester Business Journal* as a 2017 "Forty under 40" honoree.

**2004 Deepak Sobti '10M** (MD), an ophthalmologist at Kleiman Evangelista Eye Center in Arlington, Texas, recently climbed Mount Kilimanjaro in Tanzania with three friends. "#TeamKil" raised more than \$21,000 through peer-to-peer crowdsource fundraising methods for the Himalayan Cataract Project to fund more than 800 cataract surgeries.

**2005 Matt Kelley '08S** (MBA) was hired by Tompkins Financial Advisors as the company's first portfolio manager. He also will serve as an investment specialist for the business development team. Previously he worked for Morgan Stanley as assistant vice president of its Graystone Consulting unit.

**2006 Dave and Meghan Mitchell Levi** send a photo and an announcement. Meghan writes, "Our son, Jacob Avi Levi, was born in April 2017 in Fort Lauderdale, Florida. Dave currently works for Citrix Systems as a data analyst, and I recently started my own business, Achieving Expectations, an applied behavior analysis therapy company for children with developmental disabilities."

**2008 Tyler Stapleton** writes, "**Jackie Monaghan '10** and I took a picture at our October wedding with our friends and relatives who are Rochester alumni. Although my wife and I did not meet at Rochester, when we did meet later in Washington, D.C., where we live, it was a great icebreaker that led to many dates and now our marriage." Pictured from left to right are **Erin**



2004 Sobti



2006 Levi



2008 Monaghan and Stapleton



**Partin '12, Julianne Nelson '10, Emma Pollock '16, Becca Hester '10, Nicole Telleri Simpson '10,** Jackie, Tyler, **Matt Fenichel '16S (MS), Chris Bell '10M (MS), '15S (MBA), David Simpson '10, and David Geisler '88.**

**2009 Kristen DeCarlo** sends a photo from her wedding. She and Bill Holdsworth were married in Clarence, New York, in October.

**2010 Jackie Monaghan** (see '08). . . **Brad Orego** writes, "I recently moved to New York City after approximately six years in Madison, Wisconsin. I'm currently living in Brooklyn and will be continuing to pursue both my tech career and my dance career." . . . **Patricia Dieter** sends a wedding announcement and photo: "I was married to Daniel Taylor in Cape Neddick, Maine, in May 2017. We had many alumni in attendance, and we were thrilled to take a group photo." From left to right are **Kelly Sullivan, Caitlin Rioux, Anna Frenette, Amanda Palo, Patricia, Daniel, Kevin Dieter '11 (MA), Shobha Kaushik Colon, and Hector Colon.**

**2011 Sarah Karp** married Christopher Jory in July at the Boathouse in New York City's Central Park. Sarah writes that her "mother and alumna **Carol Karp '74** celebrated with fellow trustee **Kathy McMorran Murray '74.**" She sends a photo of herself with fellow alumni (left to right) **George Barberi '15W (MS), Palida Noor '12, Sarah, Gregory Corrado '14, Andrea Sobolewski, Frances Swanson '12, and Matthew Myers. . . Andrew Younger** graduated with a PhD from Northwestern University's interdisciplinary biological sciences program in June 2017. He worked for Joshua Leonard in the Laboratory for Cellular Devices and Biomolecular Engineering, and in 2012, at the Wyss Institute for Biologically Inspired Engineering at Harvard under professor James Collins. Andrew is a scientist for Zymergen in Emeryville, California.

**2012 Andrew Cirillo** sends a photo from his November 2016 wedding. He writes that he and Kaitlin Christ Cirillo were married at St. Mary's Catholic Church in Clinton, New York, and the reception took place at Dibbles Inn Orchard & Estate in Vernon, New York. Kaitlin is an admissions event manager at



2009 DeCarlo



2011 Karp



2010 Dieter

the Simon School, where she is also working toward an MBA. Pictured are (front row, left to right) David Montenegro, **Julie Czupryna '04,** Andrew, Kaitlin, **Paul Kintner,** and Maryann Olson; (second row) **Jeffrey Benton '13,** Lindsey Markham, **Matthew Metz '13, Andrew Fleisher,** and **Jonathan Cyganik '14;** (back row) **Daniel Lane, Jacqueline Lane, James Vavra, Brian Thomson '11, '12 (MS), and Craig Baumgartner '11.**

## Graduate

### ARTS, SCIENCES & ENGINEERING

**1964 Richard Ognibene (MA), '73W (EdD),** a professor emerit-



2012 Cirillo



tus of education at Siena College, has published a book, *Change in Early Nineteenth-Century Higher Education in New York's Capital District* (Peter Lang).

**1966 Pauline deHaart Adams** (MA) (see '64 College).

**1976 William Greener** (MS), a patent attorney with Bond, Schoeneck & King, was named to the Best Lawyers in America 2018 list. William's practice covers intellectual property law related to advanced technologies such as optics, nanotechnology, medical devices, and photonics.

**1994 Tim Kasser** (PhD), professor and chair of psychology at Knox College in Illinois, provides text, and cartoonist Larry Gonick, illustrations, for *HyperCapitalism: The Modern Economy, its Values, and How to Change Them* (The New Press), a "primer for the post-Occupy generation" on the effects of modern global "hypercapitalism" on human well-being and the environment. . . . **Wendy Scinta** (MS) has been elected president of the Obesity Medicine Association, a national organization. Wendy, who earned a master of science degree in electrical and computer engineering at Rochester, went on to become a family practice physician and earn certification in obesity medicine in 2007. She's the founder and medical director of Medical Weight Loss of New York, founder of the Bounce Program for Childhood Obesity, and an assistant professor of family medicine at Upstate Medical University. She is also the founder of One Stone Technology, a software company that develops apps to help patients sustain behavior modification through direct communication with a health care team.

**1999 Ronian Siew** (MS) (see '97 College).

**2002 Toshihiko Mukoyama** (PhD) is the winner of the 2018 Nakahara Prize. The prize is awarded annually by the Japanese Economic Association to a Japanese economist under the age of 45 whose work has attracted international recognition. Toshihiko is an associate professor of economics at the University of Virginia and a visiting professor of economics at Georgetown University. His specialty is macroeconomics, and in particular, aggregate labor

## TRIBUTE

# Dean Harper: An Influential Sociologist

Dean Harper, a professor emeritus of sociology at the University of Rochester whose work influenced academic thinking on the sociology of mental illness, is being remembered as a dedicated researcher and thoughtful teacher.


Harper, who was a member of the Rochester faculty for six decades, died last September at the age of 88.

Harper wrote several papers on the 1964 race riots in Rochester and on migrant farm workers, all of which explored relevant psychiatric or mental health issues. His second research focus was "the use of mathematics, statistics and computers in sociological research."

After earning a master's degree in sociology from what is now Iowa State University in 1953, Harper joined the US Army for two years for noncombat duty during the Korean War. Three years later, he became an assistant professor of sociology at Rochester, and earned his doctorate at Columbia University in 1961.

Harper acknowledged that some of his work outside of sociology and mental illness did not appear related to his primary research areas. But in describing his work, he noted that the subjects of those papers "have, in fact, grown out of my affiliation with the Department of Psychiatry and from research that originally was motivated by a concern with the sociology of mental illness."

He was named professor emeritus in 2009.

Among his honors, Harper was named a Lydia Roberts Fellow at Columbia University (1955–57) and received a Ford Foundation Fellowship (1963). 

—PETER IGLINSKI



**SCHOLARLY LIFE:** Harper, a member of the faculty for six decades, devoted his career to the sociology of mental illness.

market dynamics, economic growth, and business cycles.

**2011 Kevin Dieter** (MA) (see '10 College).

## Eastman School of Music

**1955 Vienna Prioletti Cocuzzi** '57E (MM) sends an update. She writes that her husband, Mario, died in October 2016. She lives in Erie, Pennsylvania, where she is active in the group the Tuesday Music Club, playing piano as a soloist and accompanying singers and instrumentalists. She performs at the Regency at Southshore, where she

lives, as well as in other locations around Erie.

**1958 Francis Brancaleone** writes that he has an essay in the 2017 compilation edited by Douglas Bomberger, *Very Good for an American: Essays on Edward MacDowell* (Boydell & Brewer). His essay is titled "Wagnerian Influence and Motives in the Works of Edward MacDowell." Francis is a professor emeritus at Manhattanville College, where he taught for 40 years and chaired the music department from 2009 to 2014. In March 2017, he delivered a paper, "Georgia Stevens, RSCJ, Indefatigable Educator and the Pius X School of Liturgical Music," at the Gregorian Chant in Pastoral

Ministry and Religious Education National Conference in Yonkers, New York.

**1968 Bill Cahn** writes that the 2017 recording *Home* (William L. Cahn/Nexus) by his percussion ensemble Nexus—which also includes **Bob Becker** '69—features performances by Eastman professor of percussion **Michael Burritt** '84, '86 (MM) and professor of voice Katherine Ciesinski. The album, available on CDBaby.com, contains premieres of "Home Trilogy," written by Michael for the ensemble, and Bill's "The Crystal Cabinet" and "This World."

**1969 Bob Becker** (see '68). . . . **Max Stern** writes that he delivered a lecture last October at the Music and Arts University of the City of Vienna called "In Search of a Sacred Ethos: A Composer's Creative Odyssey."

**1970 Art Michaels** writes that several of his compositions have been published recently. They include "Concerto for Clarinet Choir" (Wonderfulwinds.com); and "Seophonic Rhapsody" and "Milonga Ornamental" (Aamano Music). In addition, his concert band piece "Mythical Royals and their Heroic Defenders" will be performed by the Cypress Symphonic Band of Houston, Texas, during its 2017-18 season, which is dedicated to the theme "Monsters, Myths, Legends, and Heroes." Art adds that the piece is one of four works that were selected for performance through a juried competition. . . . **Chris Vadala** (see '76).

**1976 Chris Gekker**, a professor of trumpet at the University of Maryland, has released a CD, *Ghost Dialogues* (Divine Art Recordings), an anthology of music for trumpet by contemporary American composers. Saxophonist **Chris Vadala** '70 and mezzo-soprano **Clara O'Brien** '86 (MM) also perform on the recording.

**1979 Diane Abrahamian** '86 (MM) has been invited to be the guest conductor for the Cayuga Senior All-County Mixed Choir, Finger Lakes All-County Vocal Jazz Ensemble, and Erie All-County Vocal Jazz Ensemble. Diane is a voice instructor and jazz and contemporary music specialist at the Eastman Community Music School, and is also



on the faculty of Nazareth College's musical theater program.

**1981** **Madeleine Mitchell** has released a CD, *Violin Muse* (Divine Art Recordings), of commissioned works by modern composers living in the United Kingdom. She also writes that she performed recitals with fellow violinists **John Gilbert** and **Cora Cooper** '82 (MM) during her tour of the United States last November.

**1982** **Cora Cooper** (MM) (see '81).

**1984** **Michael Burrirt** '86 (MM) (see '68).

**1986** **Diane Abrahamian** (MM) (see '79). . . . **Michael Burrirt** (MM) (see '68). . . . **Clara O'Brien** (MM) (see '76).

**1989** Tenor **Mel Foster**, an associate professor of music at Morehouse College in Atlanta, has been named associate provost for student success at the college.

**1990** Pianist **Holly Roadfeldt** has released *The Preludes Project* (Ravello), a double CD on which she performs the complete Op. 28 preludes of Frédéric Chopin, in addition to 26 preludes by American composer Kirk O'Riordan.

**1993** **Chris Jentsch** (MM), a guitarist and composer, leads the Jentsch Group Quartet on *Fractured Pop* (Fleur de Son), a double-CD recording of jazz-rock hybrid compositions.

**1996** Composer **Jeremy Gill** writes that the Boston Modern Orchestra Project and Boston University Marsh Chapel Choir premiered three of his works on *Before the Wrestling Tides* (BMOP/sound). Oboist **Erin Stratton Hannigan** (MM) performs as a soloist on the recording.

**2005** Jazz drummer **Devin Kelly** (MM) has released *Whenever You're Ready* (DPK Records), his second recording as a band leader.

**2007** Pianist **Sergio Monteiro** (DMA) has released a CD, *Domenico Scarlatti: Keyboard Sonatas, Vol. 18* (Naxos). He directs the piano program at Oklahoma City University's school of music.

**2008** **Chris Ziemba** '11 (MM) (see '12).

## TRIBUTE

# Dan Gill: Trustee Rooted in Vision

For Dan Gill, a former CEO of the vision-care company Bausch and Lomb, service to the University was rooted in a kind of vision, especially for the arts in Rochester.

A member of the University's Board of Trustees since 1983, Gill died in October at age 81. After a 20-year tenure as a voting member of the board, he became a life trustee, a position in which he still served at the time of his death.

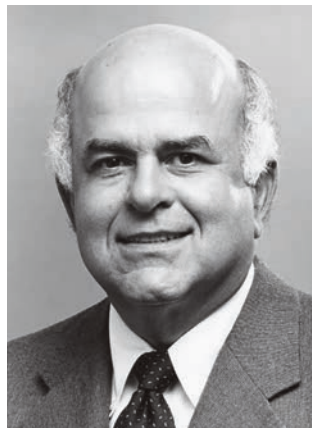
Born in the small, southern Illinois town of Zeigler in 1936, Gill moved to the Chicago area when he enrolled at Northwestern University, from which he graduated in 1958. He began his career in the Midwest, first as an auditor at Arthur Anderson, and then as an executive at Ross Laboratories in Ohio and Abbot Laboratories in Chicago.

It was Bausch and Lomb that drew Gill to Rochester in 1981, when he was hired to lead its soft-contact-lens division. He was the company's chairman and CEO for 13 years, retiring in 1995.

That year also brought the completion of one of his most important projects, the construction of Bausch and Lomb's then headquarters, a tower that helps define the Rochester skyline.

During their almost 60-year marriage, Gill and his wife, Dorothy, supported the arts. Gill funded the establishment of the Dorothy McBride Gill Discovery Center at the Memorial Art Gallery, honoring her devotion to the museum, on whose board and council she serves. The center was an interactive, multi-arts exhibition space created for all ages but catering especially to children and families. The Gills' support for exhibitions at the center, including *Protected for Eternity: the Coffins of Pa-debehu-Aset* and *Renaissance Remix: Art & Imagination in 16th-Century Europe*, "brought delightful, beautiful, hands-on educational experiences to hundreds of thousands of students, young and old, throughout the Rochester region," says Jonathan Binstock, the Mary W. and Donald R. Clark Director of the Memorial Art Gallery.

A charter member of the George Eastman Circle, the University's leadership giving society, Gill also lent his support to the College, the Eastman School of Music, and other facets of the University, in addition to other important community institutions, such as the Rochester Philharmonic Orchestra. **R**



**ART PATRON:** Gill took a special interest in the Memorial Art Gallery, supporting exhibitions that drew children and families to the museum.

—KATHLEEN MCGARVEY

**2010** Cellist **Mark Bridges** (MM) and electronic ambient musician Scott Morgan, performing as the duo High Plains, have released the CD *Cinderland* (Kranky). It features works inspired by Franz Schubert's *Winterreise*, and was recorded in a

Wyoming schoolhouse in the winter of 2016.

**2011** Composer **Scott Perkins** (PhD) has teamed with the Michigan-based vocal ensemble Audivi, which has released the recording *The*

*Stolen Child: Choral Works of Scott Perkins* (Navona). . . . **Chris Ziemba** (MM) (see '12).

**2012** Saxophonists **Owen Broder** and **Ethan Helm**, drummer **Matt Honor**, and pianist **Chris Ziemba** '08, '11 (MM) are members of the quintet Cowboys & Frenchmen, which released its second album, *Bluer Than You Think* (Outside In Music) last year. The ensemble completed an eight-city American tour in October.

## School of Medicine and Dentistry

**1992** **Julie Falwell Weidner** (MD) (see '90 College).

**2010** **Aaron Olden** (MS) (see '99 College). . . . **Deepak Sobti** (MD) (see '04 College).

## School of Nursing

**1959** **Carol (Kay) Stiles Anderson** (see '57 College).

**1961** **Fay Wadsworth Whitney** (see '57 College).

**1980** **Sue White Vallarini** (see '79 College).

**1986** **Fran Panzella London** '91 (MS) received the Health Care Education Association's Excellence in Practice-Professional Development award last September. She keeps a blog on the latest research in patient education at Notimetoteach.com. Fran served for more than 20 years as a health education specialist at Phoenix Children's Hospital and is the author of *No Time to Teach: The Essence of Patient and Family Education for Health Care Providers* (Pritchett & Hull Associates), which won the American Journal of Nursing Book of the Year award in 2010.

**1988** **Janet Ramirez Glausier** (see '90 College).

**1989** **Anne Merton** (see '90 College).

**1990** **Donna Schwind Border** (see '90 College).

**1991** **Fran Panzella London** (MS) (see '86).





**MASTER AT CRAFT:** Castle, who made Rochester his home, had an international reputation as a leading figure in American craft. The Memorial Art Gallery owns several of his works, including one commissioned for its Centennial Sculpture Park.

#### TRIBUTE

## Wendell Castle: A Global Figure

The influence of pioneering furniture artist Wendell Castle extends far beyond the Rochester region that was his artistic home for the past six decades.

When Jonathan Binstock, the Mary W. and Donald R. Clark Director of the Memorial Art Gallery, was organizing a one-of-a-kind exhibition of Castle's work for the museum last fall, he noted that despite the artist's global stature, the University and Rochester communities may not be fully aware of the range of his accomplishments.

The opening of the exhibition *Wendell Castle Remastered* “[was a] historic moment for the museum and its long-standing relationship with the artist, and a rare opportunity to share works of art with regional audiences that have been seen internationally but never in Rochester,” Binstock said. Representing the first museum exhibition to showcase Castle's digitally crafted works, the exhibition closed January 7, after being extended for a week due to popular demand.

Castle, who worked out of a studio in Rochester-area village of Scottsville, died a few weeks after the close. Among his works in the Memorial Art Gallery's permanent collection is one that was commissioned for the Centennial Sculpture Park on the museum's grounds. [G](#)

**1992 Mamta Shah**  
(see '90 College).

**1993 Katie Keller**  
(see '90 College).

## Simon Business School

**1973 Ralph (Roy) Whitney (MBA)**  
(see '57 College).

**1990 Rob Park (MBA)**  
(see College '88).

**1994 Nadia Malik (MBA)**  
(see '90 College).

**1998 Bob Hartz (MBA)**  
(see '90 College).

**2003 Elizabeth Hakiel (MBA)**  
(see '02 College).

**2008 Matt Kelley (MBA)**  
(see '05 College).

## Warner School of Education

**1973 Richard Ognibene (EdD)**  
(see '64 Graduate).

**1980 Barbara Waxman (Mas), '95 (PhD)** is a coauthor of *“Why We Drop Out”: Understanding and Disrupting Student Pathways to Leaving School* (Teachers College Press). She's an educational consultant in Seattle and teaches at Western Washington University.

**1982 Judy-ann West (Mas)**  
(see '77 College).

**1995 Barbara Waxman (PhD)**  
(see '80).

**2010 Vince Mancuso (EdD)**  
(see '99 College).

## In Memoriam

### ALUMNI

**John J. McGrosso '38E,**  
February 2017

**John P. Powell '41,**  
November 2017

**Ival O. Salyer '41,**  
October 2017

**Ann Nisbet Cobb '43E (MA),**  
August 2016

**Betty Oatway '43N,**  
October 2017

**Thais Levberg Ashkenas '44, '45N,**  
October 2017

**Halee Morris Baldwin '44,**  
November 2017

**William G. Moir '44,**  
August 2017

**Robert H. Cannon '45,**  
August 2017

**Shirley Defrees Greenhalgh '46N,**  
September 2017

**Fredrick H. Hoffmann '46,**  
September 2017

**Leonard R. Sayles '46,**  
August 2017

**Robert T. Yntema '46,**  
October 2017

**Bessie Percas Andrews '47N, '79,**  
October 2017

**Elizabeth Mohney Bean '47N,**  
October 2017

**Barbara Sites Bair '48,**  
October 2017

**Gordon Davenport '48M (MD), '50M (Res),** November 2017

**Shirley Nellis Mapstone '48E,**  
September 2017

**Catherine Barnhart Gerhardt '49E (MM),** October 2017

**Darrel W. Stubbs '49E,**  
November 2017

**Jacqueline Benson Auricchio '50N,**  
November 2017

**Ronald E. Eckler '50, '57 (MA),**  
November 2017

**Rose Iacobelli Guarino '50,**  
October 2017

**William H. Kirchoff '51,**  
October 2017

**Robert H. Quade '51,**  
November 2017

**Elizabeth Jacobson Reiss '51,**  
October 2017

**Eugene Surasky '51,**  
November 2017

**Catherine Wilson Joynson '52,**  
November 2017

**Carl F. Schwind '52,**  
November 2017

**R. Clinton Thayer '52E,**  
October 2017

**Beverly Rebmam Bingham '53,**  
October 2017

**Clyde J. Moon '53,**  
October 2017

**May Humm Payne '53,**  
October 2017

**Carroll A. Howansky '54,**  
October 2017

**Charles L. Moon '54E (MA),**  
October 2017

**Robert Palmieri '54E (MM),**  
November 2017

**Robert M. Roy '54M (Res),**  
October 2017

**Francis X. Gavigan '55M (MS),**  
October 2017

**Robert Kirkwood '56 (PhD),**  
September 2017

**Gary D. Wilcox '56E,**  
November 2017



**Richard D. Gerle** '57M (MD),  
September 2017

**Mitchell T. Peters** '57E, '58E (MM),  
November 2017

**Albert J. James** '58,  
September 2017

**Nelson P. Maracle** '59,  
November 2017

**Elizabeth Gray McKee** '59W (MA),  
October 2017

**Barbara Hall Sheppard** '59,  
October 2017

**Charles H. VanDeMar** '59,  
October 2017

**Joan Briggs Ashton** '60,  
November 2017

**Rose Dagirmanjian** '60M (PhD),  
October 2017

**William Guche** '60,  
October 2017

**Arthur R. Johnson** '60,  
May 2017

**Ruth Carlson Miner** '60N,  
November 2017

**Daniel Placido** '60D,  
February 2017

**Richard B. Chapman** '61,  
November 2017

**Edmond C. McLane** '61M (Res),  
October 2017

**Michael T. Boland** '63, '75W (Mas),  
November 2017

**Robert L. Eberly** '63M (MD),  
September 2017

**Robert F. Klein** '63M (Res),  
October 2017

**Charles E. Lindahl** '63E (MM),  
November 2017

**Mary Seiler Nowatka** '63,  
November 2017

**Ruth Butler Stokes** '63E (MM),  
May 2016

**Linda Angell** '64,  
October 2017

**Robert W. Blake** '64W (EdD),  
November 2017

**Donald L. Warner** '64,  
September 2017

**Gerald A. Wysocki** '64,  
October 2017

**Elizabeth Deutsch Capaldi** '65,  
September 2017

**Jack Tager** '65 (PhD),  
October 2017

**Leon J. Canapary** '66M (Res),  
October 2017

**Barry W. Florescue** '66,  
October 2017

**Donald F. Gaiser** '66M (Res),  
November 2017

**Louis A. Rappaport** '66,  
October 2017

**David W. Brown** '67M (MD), '73M  
(Res), October 2017

**Suzanne Rodgers** '67M (PhD),  
May 2017

**Patricia Grossmith Cladis** '68  
(PhD), July 2017

**Peter M. Stacy** '68 (PhD),  
September 2017

**C. Rex Hill** '69,  
November 2017

**Robert H. Kessler** '70,  
November 2017

**Richard L. Worland** '70M (MD),  
October 2017

**Morris DeYoung Jr.** '72,  
November 2017

**Jonathan B. Harding** '73,  
October 2017

**Paul L. Moore** '73W (Mas),  
November 2017

**Robert J. Berrettone** '74,  
October 2017

**Frank C. Leana** '74 (PhD),  
October 2017

**Stephen C. Pohligh** '74,  
April 2017

**Eva Monson Bennett** '75N,  
August 2017

**Jeffrey T. Richelson** '75 (PhD),  
November 2017

**Bruce W. Selleck** '75 (PhD),  
July 2017

**Constantino Fernandez** '76M (Res),  
October 2017

**Harold E. Hendler** '76S (MBA),  
October 2017

**Edmund S. Henry** '76 (PhD),  
October 2017

**Bradley L. Kummer** '78W (Mas),  
October 2017

**Susan Ware** '78,  
October 2017

**Mark S. Webman** '78D,  
October 2017

**Mary Sue Jack** '80N (Flw), '85N  
(PhD), November 2017

**Mary Maleski** '81 (PhD),  
November 2017

**Marie Dressler Johnson** '83W  
(EdD), October 2017

**Seymour Levitt** '83M (Flw), '93M  
(Res), September 2017

**Amelio F. Paolucci** '85W (MS), '97W  
(MS), November 2017

**William J. Allen** '87S (MBA),  
November 2017

**Gerald T. Gray** '89E (MM),  
October 2017

**Bernard Grunstra** '89M (Res),  
November 2017

**Faith Rothermel** '89,  
November 2017

**Jo-Anne Healy** '90N (MS),  
October 2017

**Javier F. Duclaud** '92S (MBA),  
October 2017

**Jacqueline Davis** '95N,  
October 2017

**Cheryl Della Sala** '96N (MS),  
October 2017

**Ian H. Turvill** '97S (MBA),  
October 2017

**Stephanie Vinh** '11D, '13D,  
September 2017

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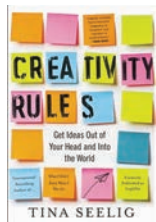
UNIVERSITY OF ROCHESTER  
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## Books

### Creativity Rules: Get Ideas Out of Your Head and into the World

By Tina Seelig '79  
HarperCollins, 2017



Seelig—a professor of the practice in the management science and engineering department at Stanford, and the faculty director of the university's Technology Ventures Program—adapts her

course on creativity into a guide on how to bring entrepreneurial ideas to fruition.

### High-Risers: Cabrini-Green and the Fate of American Public Housing

By Ben Austen '92  
HarperCollins, 2018

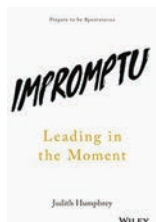


Austen explores the history of Chicago's iconic Cabrini-Green housing project through personal narratives set in the context of city politics and national events. Austen is a contributing editor for

Harper's Magazine.

### Impromptu: Leading in the Moment

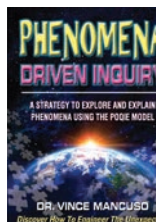
By Judith Humphrey  
Wiley, 2017



Founder of the Toronto-based leadership communications firm the Humphrey Group, Humphrey offers leaders tips for assessing, thinking, and responding “on the spot.”

### Phenomena-Driven Inquiry: A Strategy to Explore and Explain Phenomena Using the POQIE Model

By Vince Mancuso '99, '10W (EdD)  
Planet Magic Publishing, 2017

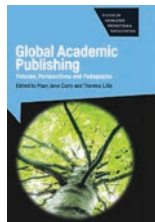


Mancuso, a chemistry teacher in the Brighton Central School District near Rochester, offers strategies to incorporate the philosophy of phenomena-driven learning using a

POQIE (Predict, Observe, Question, Investigate, Explain) model.

### Global Academic Publishing: Policies, Perspectives, and Pedagogies

Edited by Mary Jane Curry  
and Theresa Lillis  
Multilingual Matters, 2017

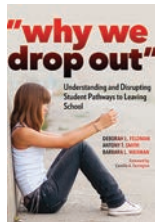


Curry and Lillis present a series of more than 20 essays by contributors around the globe exploring the causes and consequences of the increasing dominance of the English language in academic publishing.

Curry is an associate professor of teaching and curriculum at the Warner School of Education, and Lillis is a professor of English language and applied linguistics at the Open University in the United Kingdom.

### 'Why We Drop Out': Understanding and Disrupting Student Pathways to Leaving School

By Barbara Waxman '80W (Mas), '95W (PhD) et al  
Teachers College Press, 2017

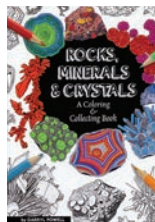


Waxman, a Seattle-based educational consultant, and coauthors interview a range of high school dropouts, concluding that “contrary to popular belief, most dropouts are not disengaged from

school at an early age” and “have positive memories of their education, both social and academic, that educators and policy-makers can draw on.”

### Rocks, Minerals and Crystals: A Coloring and Collecting Book

Written and illustrated  
by Darryl Powell '84  
Gem Guides Book Co., 2017

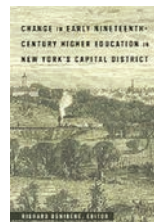


Powell presents an adult coloring book for mineral enthusiasts that includes original illustrations of mineral specimens from around the world.

Powell has written and illustrated multiple educational books for children on rocks and minerals and consults on earth science learning materials through his company, Diamond Dan Publications.

### Change in Early Nineteenth-Century Higher Education in New York's Capital District

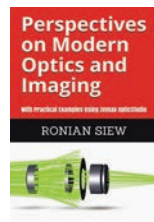
By Richard Ognibene '64 (MA), '73W (EdD)  
Peter Lang, 2017



Ognibene, a professor emeritus of education at Siena College, explores the origins and significance of eight distinct higher education institutions that developed in and around Albany, New York, in the first half of the 19th century.

### Perspectives on Modern Optics and Imaging: With Practical Examples Using Zemax OpticStudio

By Ronian Siew '97, '99 (MS)  
Self-published, 2017

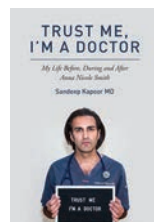


A consultant in optical engineering, Siew offers a review of key concepts in optics, with fresh perspectives on the theory and operational principles of a selection of modern optical

imaging systems.

### Trust Me, I'm a Doctor: My Life Before, During and After Anna Nicole Smith

By Sandeep Kapoor '89  
CreateSpace, 2017



Kapoor, a California physician in private practice, tells the story of his implication in the death of former patient and celebrity model Anna Nicole Smith, his acquittal, and the fallout he experienced as a result of the trial.

### HyperCapitalism: The Modern Economy, Its Values, and How to Change Them

By Larry Gonick and Tim Kasser '94 (PhD)  
The New Press, 2018



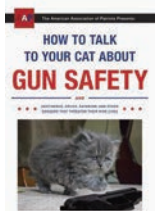
Kasser, a professor of psychology at Knox College in Illinois, joins with cartoonist Gonick to present an illustrated “primer for the post-Occupy generation” on the effects of “global,



privatizing, market-worshipping hyper-capitalism” on human well-being and the environment.

**How to Talk to Your Cat about Gun Safety: And Abstinence, Drugs, Satanism, and Other Dangers that Threaten Their Nine Lives**

By Zachary Auburn  
Three Rivers Press, 2016

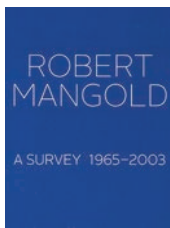


Children’s Hospital.

Auburn presents a modern social satire for cat lovers. The author of multiple works of humor, Auburn works as a sleep technician at the pediatric sleep lab at the University’s Golisano

**Robert Mangold: A Survey, 1965–2003**

By Clayton Press ’71  
Mnuchin Gallery, 2017



Press, an art consultant, private curatorial advisor, and collector with expertise in post–World War II art market dynamics and post-pop contemporary art, presents commentary on artist Mangold to accompany a recent exhibition. Press also published *Next to Nothing, Close to Nowhere: Kathleen Jacobs* (Burckhardt Press) in 2017.

**Recordings**

**Bluer Than You Think**

By Cowboys & Frenchmen  
Outside In Music, 2017



The jazz quintet that includes saxophonists Owen Broder ’12E and Ethan Helm ’12E, pianist Chris Ziemba ’08E, ’11E (MM), and drummer Matt Honor ’12E explores “individuality within homogeneity” on their second recording.

**Violin Muse**

By Madeleine Mitchell ’81E (MM)  
Divine Art Recordings, 2017



Violinist Mitchell and the BBC National Orchestra of Wales premiere commissioned works by modern British composers.

**Home**

By Nexus  
William L. Cahn/Nexus, 2017



The percussion ensemble that includes Bill Cahn ’68E and Bob Becker ’69E performs four original compositions by Cahn, Libby Larsen, and Michael Burritt ’84E, ’86E (MM), a professor of percussion and chair of woodwinds, brass, and percussion at Eastman. The recording also includes performances by Burritt, on marimba, and Katherine Ciesinski, a professor of voice at Eastman.

**Before the Wrestling Tides**

By Jeremy Gill ’96E  
BMOP/sound, 2017



The Boston Modern Orchestra Project and Boston University Marsh Chapel Choir premiere three concertos by composer Gill. Oboist Erin Stratton Hannigan ’96E (MM) performs as a soloist.

**Whenever You’re Ready**

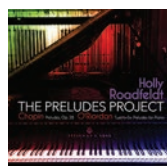
By the Devin Kelly Organ Trio  
DPK Records, 2017



Jazz drummer Devin Kelly ’05E (MM) joins with organist Joe Bagg and guitarist Gary Solt in his second recording as a band leader.

**The Preludes Project**

By Holly Roadfeldt ’90E  
Ravello, 2016



On a double CD, pianist Roadfeldt performs the complete Op. 28 preludes of Frédéric Chopin, as well as 26 preludes by American composer Kirk O’Riordan.

**Fractured Pop**

By the Jentsch Group Quartet  
Fleur de Son, 2017



Guitarist and composer Chris Jentsch ’93E (MM) leads the quartet consisting of himself, bassist Jim Whitney, drummer John Mattam, and multi-instrumentalist Matt Renzi in a double-CD recording of jazz-rock hybrid compositions.

**Domenico Scarlatti: Keyboard Sonatas, Vol. 18**

By Sergio Monteiro ’07E (DMA)  
Naxos, 2017



by 18th-century composer Domenico Scarlatti.

Pianist Monteiro, head of the piano program at Oklahoma City University’s school of music, performs a varied selection of keyboard sonatas

**Cinderland**

By High Plains  
Kranky, 2017



Schubert’s *Winterreise* and recorded in a Wyoming schoolhouse in the winter of 2016.

High Plains, a duo consisting of cellist Mark Bridges ’10E (MM) and electronic ambient artist Scott Morgan, present works inspired by

**The Stolen Child: Choral Works of Scott Perkins**

By Scott Perkins ’11E (PhD)  
Navona, 2017



The Michigan-based vocal ensemble Audivi performs works by Perkins rooted in the tradition of late Renaissance a cappella, but with contemporary timbre and texture.

The Michigan-based vocal ensemble Audivi performs works by Perkins rooted in the tradition of late Renaissance a cappella, but with

**Ghost Dialogues**

By Chris Gekker ’76E  
Divine Art Recordings, 2017



Gekker, a professor of trumpet at the University of Maryland, performs an anthology of music for trumpet by contemporary American composers. Also performing on the recording are saxophonist Chris Vadala ’70E and mezzo-soprano Clara O’Brien ’86E (MM).

Gekker, a professor of trumpet at the University of Maryland, performs an anthology of music for trumpet by

*Books & Recordings is a compilation of recent work by University alumni, faculty, and staff. For inclusion in an upcoming issue, send the work’s title, publisher, author or performer, a brief description, and a high-resolution cover image, to Books & Recordings, Rochester Review, 22 Wallis Hall, Box 270044, University of Rochester, Rochester, NY 14627-0044; or by e-mail to rochrev@rochester.edu.*



## Creative Classes

We're all creative—and with practice, we can all get better, says Stanford professor and author Tina Seelig '79.

Interview by Karen McCally '02 (PhD)

**I'm always asked if we are all creative. Of course, we are.** We wouldn't be able to pack a bag for a trip or to get dressed for an event if we didn't have the ability to envision things that didn't yet exist.

**After teaching courses on innovation and entrepreneurship for the last 18 years, I realized that we often talk past one another because we don't have a shared vocabulary for the creative process.** In my latest book, *Creativity Rules*, I take on this challenge, presenting a model for going from the seeds of an idea through implementation, including the attitudes and the actions that are required to move from imagination to creativity to innovation to entrepreneurship.

**I call my framework the Invention Cycle.** It explains how to engage with the world and then envision what might be different; how to experiment with ideas and to reframe problems to come up with unique ideas; and how to inspire others. It's a cycle because the end leads back to the beginning: to be successful in scaling your ideas, you need to inspire other people's imaginations.

### Tina Seelig '79

[Tinaseelig.com](http://Tinaseelig.com)

Professor of the practice, Stanford University Department of Management Science and Engineering; director, Stanford Technology Ventures Program; author, most recently, of *Creativity Rules: Get Ideas Out of Your Head and Into the World* (HarperCollins, 2017)

**Major at Rochester:** Interdepartmental studies: neuroscience

**On studying neuroscience at Rochester:**


"Studying neuroscience at Rochester was a profound experience. At the end of my sophomore year, one of my professors in the psychology department, Jerome Schwartzbaum, said, 'We don't know what this particular part of the brain does. Design some experiments that would help determine its function.' And my mind exploded. This was the first time that I was given permission to think creatively about biology. When I got my assignment back, Professor Schwartzbaum wrote at the top of my paper, 'Tina, you think like a scientist!' And at that moment, I became a scientist."

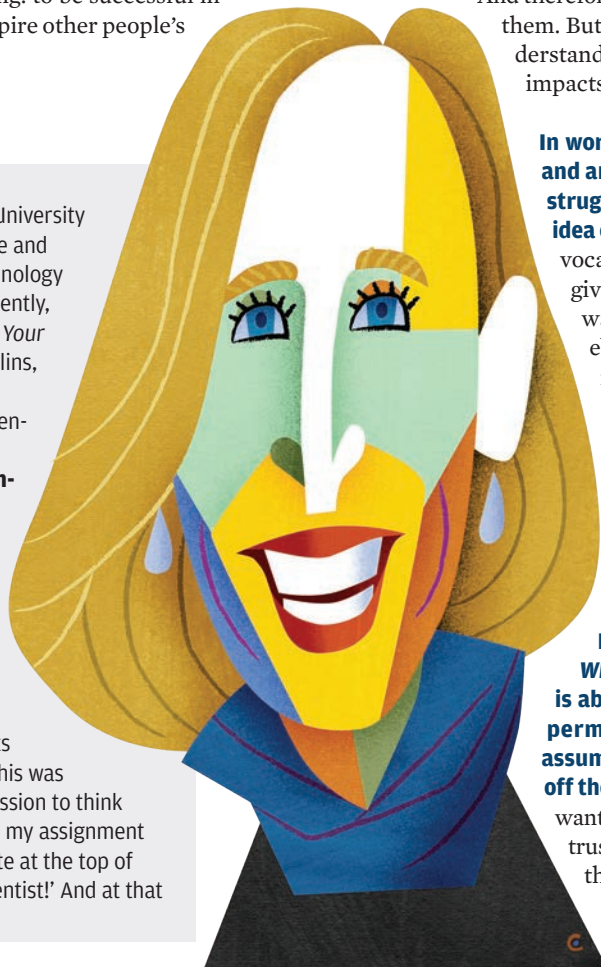
**There are exercises you can do to enhance creativity.** Yes, there are some people who are naturally more creative, just as there are natural athletes and musicians. But we'd never say that you can't or shouldn't teach sports or music. If you practice any of these skills, you're going to get better. The same is true with creativity. One of the most important exercises is to practice solving open-ended problems, such as "what two numbers add up to ten," as opposed to "what is the sum of five plus five," which has only one correct answer.

**It is also critically important to enhance your powers of observation.** Most people think that creativity starts with sitting by yourself, envisioning what you want to accomplish, and *then* engaging in making it happen. But the real power comes from turning this idea upside down—engagement is the master key that opens the door to possibilities.

**One of my favorite quotes is, "Not all things that count can be counted, and not all things that can be counted, count."** Things like creativity—or ethics, or compassion—can't easily be measured. And therefore, most educators don't explicitly teach them. But that's a huge mistake. We need to understand that it may take years before the real impacts of these skills are felt.

**In working with companies in Silicon Valley and around the world, I find that often they struggle with how to support the process of idea creation and implementation.** A shared vocabulary helps, but it's also important to give people permission to fail along the way. From the top down, you need to celebrate the entire innovation process, and not just the successful results. If you're doing something that hasn't been done before, you're going to have some surprises. And as a scientist, I don't like calling those surprises failures. I like to call them data. I ask my students to keep "failure résumés" to learn how to mine their failures for insights.

**I wrote a book titled *What I Wish I Knew When I Was 20* (HarperOne, 2009), which is about the importance of giving yourself permission—permission to challenge assumptions, to break the rules, and to get off the expected path.** Most people wouldn't want a script for their lives. It's important to trust the creative process and to appreciate that uncertainty is a gift, knowing that the world is opportunity-rich and full of possibilities. 





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**COMMUNITY SERVICE**

**Building Better Toys**

**CHANGING TECHNOLOGY:** Rachel Monfredo, a lecturer and senior technical associate in the Department of Chemical Engineering, listens to a stuffed animal during a workshop in which students learned to alter toys so that children with disabilities could better interact with the playthings and the technology that's inherent in many modern toys. Monfredo helped organize the student group, Toys for All Tots, which this winter delivered a set of adapted toys to children at a Medical Center clinic. **PHOTOGRAPH BY J. ADAM FENSTER**