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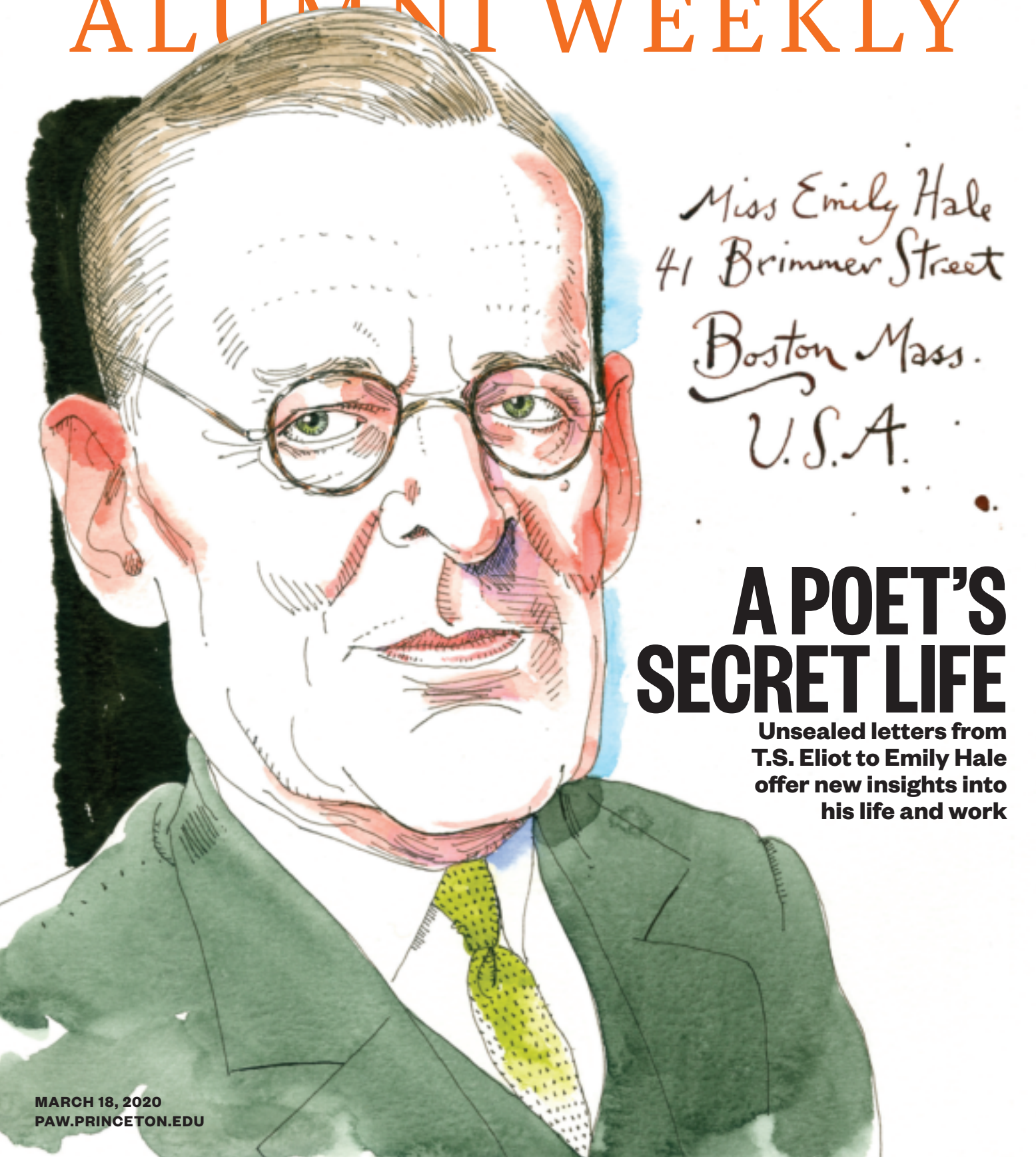
PRINCETON ALUMNI WEEKLY



A POET'S SECRET LIFE

Unsealed letters from T.S. Eliot to Emily Hale offer new insights into his life and work

MARCH 18, 2020
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Princeton's biodigester converts food waste into compost — part of turning the campus into a laboratory for real-world problem solving on sustainability. Pictured from left to right, front: Project Specialist Gina Talt '15; Reese Knopp '23; Kiley Coates '20; back: Wesley Wiggins '21, Stanley Cho '23, Joe Kawalec '21

SUSTAIN — ABILITY

The commitments of 1746 Society members through trusts, bequest intentions and other long-range gifts help sustain Princeton's mission — now and in the future. **We welcome the society's newest members.**

Thank you!

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Mrs. Robert D. Briskman S54
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W. Douglas Fisher '59
Gardiner H. Myers '59
Thomas C. Kehler '60
Joseph A. Caltagirone Jr. '62
David M. Gouldin '63
Joseph V. Battista Jr. '64
Joseph M. Anderson '65
David A. Shults '65
Sanford G. Thatcher '65 *67
David B. Harwi '66
Karin A. Trainer S68
Robert B. Bank '69
Anne Stovall Charrier S69
J. William Charrier '69
Robert Kent Durkee '69
J. William Earle '69
Linda Hagens Earle S69
Marc E. Miller '69
Elizabeth Taylor Peek S69
Jeffrey M. Peek '69
Geoffrey R. Peterson '69
Robert J. Saner II '69
Marian A. Bott S69
Stephanie S. deSibour S69
William H. Bohnett '70
Wayne S. Kubal '70
Guy B. Lawrence '70
Rand A. Mirante '70
James J. Morris '70 *71
Jean Porter Morris S70
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Robert S. Glenn Jr. '72
Greta M. Rubinow '73
Michael W. Stukenberg '73
Paul C. Atkinson '74
Stephen G. Guty '74
Peter M. Ogden '74
Andrea K. Scott '74
Mary Ann Frederick S75
Alan P. Zelicoff '75
Joseph P. Skudlarek '76
Wick Sollers '77
Carl A. Texter Jr. '77
Elliot G. Swan '78
Yukako Kawata '79
Carolyn S. Schwartz '79
David L. Schechter '80
William W. Alden '81
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Michael J. Russell '87
Elizabeth Chandler S87
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Lori Dickerson Fouche '91
Eric R. Dunn '92
Robert Waldemar Koehn '94
Thomas A. McDevitt '94
Margaret E. Vaden '97
Alexandra L. Hohmann '19
Anonymous (2)

Graduates

Elisabeth Pearson Waugaman *70
Jeffrey H. Lynford *71
Tondra Lynford S*71
Rhonnie Teena Goldstein S*71
Patricia Ann Smith S*72
James Randall Wilson *80
Beverly C. Wilson S*80

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New members for calendar year 2019; Princeton University also gratefully acknowledges 1746 Society members who passed away in 2019. For a list of their names, see giving.princeton.edu/giftplanning/1746-society

Photo by Tom Grimes

March 18, 2020 Volume 120, Number 9

PRINCETON ALUMNI WEEKLY

An editorially independent magazine by alumni for alumni since 1900

PRESIDENT'S PAGE 2

INBOX 3

ON THE CAMPUS 5
Student athletes — and entrepreneurs • Charter Club restores bicker • Scientist's artworks now grace campus • Divestment protest • SPORTS: Lacrosse star Michael Sowers '20 • Wrestling's great victory • Big Three

LIFE OF THE MIND 17
Anne Case *88 and Angus Deaton: More on 'deaths of despair' • Behind the Research: Neuroscientist Catherine Jensen Peña • Faculty Books

PRINCETONIANS 29
Trapeze artist Ashley Doran Northrup '99 • Alumni Day • Author Katie Roiphe *95 on power dynamics • Irene Sofia Lucio '08 on acting • Regional Roundup

CLASS NOTES 34

MEMORIALS 50

CLASSIFIEDS 54

PRINCETON PORTRAIT 56

Julia Wolfe *12's *Fire in my mouth*, page 20

New Music, Old Themes 20
Pulitzer-winning composer Julia Wolfe *12 explores themes rooted in the past, but her music breaks traditional molds.
By Mark F. Bernstein '83

Letters to Emily 24
Recently unsealed letters from T.S. Eliot to Emily Hale have thrilled scholars, who find new revelations into the poet's life and relationships.
By Elyse Graham '07

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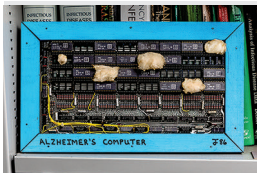
Ellie Mitchell '23, center

Basketball Updates
Looking for the latest news from the Ivy League basketball tournaments? PAW Online has you covered, with Kevin Whitaker '13 reporting on the action in Cambridge, Mass.



Horn's Creations
View a slide show of artwork by the late Henry Horn, now displayed in campus offices.

Historical Snippets
Gregg Lange '70 browses the shelves of Mudd Library's Class of 1935 Room.

Talking Creativity
Alumni artists and entrepreneurs gathered for workshops in February.

Top: © Chris Lee; from left: Beverly Schaefer; Ricardo Barros

On the cover: Illustration by Joe Ciardiello

The Library: Building on Strengths in a Dynamic Environment

Anne Jarvis became the University Librarian in 2016. Her thoughtful and innovative leadership of our library system helps to enable the teaching and research of scholars at Princeton and around the globe. I have invited her to share a few thoughts on the evolution of the library. — C.L.E.

Princeton University Library (PUL) has been central to the University's academic life for so long that its future influence could easily be taken for granted. The dizzying speed of technological and cultural change in education and research, however, now requires all great academic libraries to be innovative, dynamic, and responsive to the rapidly evolving expectations of their users. Traditionally, research libraries supported education and the creation of knowledge by acquiring a wide range of physical books, manuscripts, and archive material. PUL continues to build a broad and deep collection, but it also now offers a wide variety of services and tools that support innovative means of accessing and curating information, irrespective of format. In what follows I hope to give a flavor of exactly how the Library is working to deliver such change whilst retaining the traditional qualities that served to establish its world-class reputation.

DENISE APPLEWHITE

University Librarian Anne Jarvis

Last spring marked a significant milestone for PUL, as we celebrated the completion of the Harvey S. Firestone Memorial Library's 10-year renovation project. Anyone who studied in Firestone prior to the renovation will find it magically and marvelously transformed. Collection location is more intuitive, as is navigation. The Trustee Reading Room looks better than ever, but it now sits alongside modern spaces designed to support collaboration and communication: the Center for Digital Humanities (CDH), the Data and Statistical Services Unit, Imaging and Conservation labs, teaching spaces, group study rooms, specialized reading rooms, and the Tiger Tea Room.

These changes reflect and support the evolving research and teaching environment of Princeton and represent the Library's embrace of a dynamic new environment that allows us to build on our existing strengths. Thanks to the generous support of numerous alumni collectors over the centuries, we have a treasure trove of resources — be they books, manuscripts, or archives — and technological innovation allows our students and faculty to discover and engage with them in fresh ways. Advancements in digital technology in particular have triggered an information revolution comparable to the arrival of the printing press. PUL is facilitating unprecedented access to our collections through digitization, with over 160,000 items and 5 million images from our collections now available online. In the past year alone, highlights of the PUL digital studio's work included a 17th-century German Amuletic Scroll, the original cover art for *The Great Gatsby,* and an album of photographs of the construction of the Eiffel Tower taken by Gustav Eiffel's son-in-law, all now online. Far from undermining the importance of our collections, the digital world has presented an opportunity for libraries to open up collections to new audiences as well as to collate scattered rare books and manuscripts, permitting new methods of study and analysis.

In addition to digitization, the Library serves as both steward and innovator in this data-driven age. In partnership with the CDH, PUL's unique collections are being transformed into scholarly datasets and online archives. Faculty collaborations such as the digital *Shakespeare and Company Project* bring library resources to new audiences. Users around the world can browse through Sylvia Beach's famous Parisian bookstore and make their own discoveries about the Lost Generation. Furthermore, the Library maintains vast datasets and tools that we teach our students how to use, so that they can analyze disparate statistical data and discover connections to previously unanswerable questions. Examples of current projects include the impact of state regulatory malpractice law differences on choice and cost of medical procedures, vaping prevalence by presence of social capital, and opportunity zones and household debt correlation using detailed mortgage records.

PUL has always collected the printed output of our faculty and students, but the recently established Princeton Research Data Service (PRDS) supports the needs of researchers to manage, store, curate, and find digital research data. Datasets that have recently been deposited with the Library include astrophysics data modelling interstellar dust, genomics microscopy data investigating helical cell shape in bacteria, and a geosciences dataset underlying research on properties of sound velocity in shock-compressed silica. As a joint initiative between PUL, the Office of the Dean for Research, and the Office of the Vice President of Information Technology, PRDS is a natural progression for library services as we expand our collaboration with campus partners.

These are just some of the highlights from the Library's ongoing efforts to provide the right service, resource, and knowledge to our faculty and students. A key element of my work is maintaining strong relationships with University stakeholders to ensure that library services are integrated with the University's agenda for research, teaching, and learning. While we cannot always predict what is coming ahead, we remain in constant dialogue with faculty and students as we seek to anticipate changing needs and expectations. There could scarcely be a more exciting and rewarding time to lead PUL, and my colleagues and I look forward to the challenges ahead.

PRINCETON
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An editorially independent magazine by alumni for alumni since 1900

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A HISTORIAN'S ASSIST

I was saddened to see the story about Professor Stanley Stein's passing (In Memoriam, Feb. 12). Professor Stein will always have a special place in my Princeton experience. As an undergrad I took his course on Latin America and got to know him personally a bit. We were both native New Yorkers and very proud of our roots.

After Princeton, I continued my study of history at Stony Brook. During one of our seminars we were tasked with discussing Stein's definitive work, *The Colonial Heritage of Latin America*. Most of my classmates had a different interpretation of the work than I had. I basically told the class that I disagreed and would prove that my position was correct. I immediately wrote a letter to Stein at Princeton explaining my position. After 10 days, I still hadn't received a reply and dreaded going to that seminar. Another week went by and I received an air-mail letter from Brazil. Evidently, he was on sabbatical, and it took a while for the letter to get to him. Luckily, he supported my position. I then marched into the seminar armed with his letter. I read it out loud and experienced one of the highlights of my academic career.

Professor Stein was a very dedicated teacher. He was probably busy doing research in Brazil, but not too busy for a former student. I have told that story over the years many times when I'm asked about the caliber of professors at Princeton.

Jim DiOrio '73
Belmar, N.J.

ON DACA AND EXECUTIVE POWER

I much respect President Eisgruber '83's legal acumen, which is why he has to recognize that thrusting Princeton into a leading role in the DACA lawsuit (President's Page, Jan. 8) is disingenuous. The issue in that litigation isn't whether those who have been illegally brought to this country as children should be allowed to stay, or the wisdom of the DACA program specifically — let alone whether students like María Perales Sánchez '18 should be legally protected or whether Princeton should be allowed to benefit from the continued free flow of talent. (To me and a majority of Americans, those are all easy yeses.) It's not even whether President Barack Obama lawfully created a new immigration program out of whole cloth when Congress, to its shame, declined to do so legislatively. Instead, it's simply whether one U.S. president can rescind another's executive action, or whether courts can require more hoop-jumping for the rescission than for the original action.

If President Eisgruber truly cared for both the rule of law and sensible immigration policy, he would focus on the push for congressional action on immigration reform — which he mentions in the penultimate sentence of his essay — rather than trying to force something irregular through the courts and further warp executive power.

Ilya Shapiro '99
Washington, D.C.

Editor's note: The author is counsel of record on an amicus brief for the

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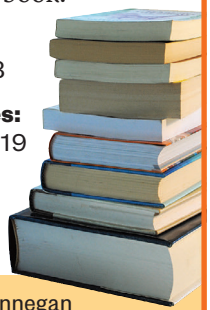

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Cato Institute on the DACA case. A copy of the brief is available online at bit.ly/cato-daca.

HISTORIANS AND IMPEACHMENT

I was very disappointed to see that 18 faculty members signed a letter supporting the impeachment of President Donald Trump (In Short, Feb. 12). As you are aware, he was acquitted by the U.S. Senate. The House impeachment was a sham. I suggest that these faculty members read our Constitution and other info about the authority of U.S. presidents. Need I say more?

Norfleet R. Johnston '56
Loretto, Tenn.

STEPS TOWARD SUSTAINABILITY

I am heartened to read about sustainable food for the students on campus ("Bye-Bye, All-Beef ... Hello, Sustainability," Jan. 8). Delving a bit deeper, I found the environmental studies course to which the PAW article referred.

Having attended our 45th reunion last spring, we were all once again fed the old-fashioned fast-food options, including processed meats and cheeses, tired and aging brown-rimmed lettuces and tomatoes, etc. I then discussed this situation with several of my classmates, some of whom said that I was "preaching to the choir," while others said that the choices made were based on food costs rather than food values.

This PAW article and the agriculture course both give me hope that fresh and sustainable food options might soon be available for Reunions as well!

My additional suggestion is that the course (or another one) include not just visits to local farms and agricultural facilities, but the development of a greenhouse laboratory on campus for the students to grow all the fresh vegetables that are consumed on campus. Let's bring a 21st-century food philosophy to Princeton and lead other universities in the nation to do the same!

Coke Anne Murchison Wilcox '74
Westport, Conn.

FROM A CLASS AGENT'S FILES

A Memorable Fundraising Call

TOM HOSTER '72, this year's recipient of the Harold Helm Distinguished Service Award, shared the following story at the Annual Giving dinner Feb. 21.

This is my 28th year as class agent for the Class of '72, meaning this is my sixth tour of duty. It was in my first tour of duty, in the late 1980s, that my family and I were living in Columbus, Ohio. It was early June, and I was making phone calls to classmates out of my bible: my three-ring notebook, with everyone's name, address, phone number, and giving history in it. It had color-coded Post-It tabs indicating the time zone in which the classmate lived, so that as the evening wore on, I could work my way east to west and never miss the 7-to-9 p.m. calling window.

Late in the evening, I was making a call to a classmate in Oregon. To be honest, I don't remember his name, but it was a common name, something like "Paul Johnson."

The phone rings, and a guy answers, "Hello?"

I say, "Hey, is this Paul Johnson?" He says, "This is Paul."

I slip into my routine: "Paul, this is Tom Hoster, from the Class of '72 at Princeton, calling to remind you that there are just a few weeks left in the Annual Giving year and we would love to hear from you again this year."

He says, "Let me stop you right there, Tom."

Of course, my heart sank.

He says, "I'm Paul Johnson, but I am not your Paul Johnson. I didn't go to Princeton."

I tell him, "Oh, gee, Paul, I am so sorry. Clearly a case of mistaken identity. I will call the University in the morning and have them take you off our list."

He replies, "You guys take this fundraising stuff pretty seriously."

I chuckle, "Well, Paul, I guess we do. But hey — not to worry; I will call the University in the morning and have them take your name off our list."

He replies, "Yeah, Tom, that's probably all for the best. Although I have to tell you, Tom, I am going to miss that alumni magazine you guys send out."

On the Campus

Henry Moore's *Oval With Points*, one of the University's most recognizable sculptures, was installed on campus nearly 49 years ago as part of the John B. Putnam Jr. Memorial Collection. A few months after its arrival, John M. Fenton wrote in PAW that Princetonians had grown fond of sitting in its contoured opening: "[A]lready the green patina has been worn off in some spots and the bronze beneath shines through goldenly." *Photograph by Ricardo Barros*

Gladiator Lacrosse founder Rachel Zietz '22 had her "a-ha moment" in middle school.

Matthew Marquardt '21's interests range from swimming equipment to solar energy.

Start-Up Students

Entrepreneurs Zietz '22, Marquardt '21 draw inspiration from athletics

Problems create opportunities. That's the thinking that launched Rachel Zietz '22 and Matthew Marquardt '21 toward entrepreneurial pursuits.

Zietz, the founder and CEO of Gladiator Lacrosse, first got the idea for her company in the seventh grade. An avid lacrosse player from Boca Raton, Fla., Zietz was practicing one afternoon and ripped a hole in the rebounder net she was using. Instead of purchasing another one, she figured out a way to create a more durable version.

"That was my a-ha moment," Zietz said.

She realized that selling her product was a real possibility after teammates in middle and high school confirmed they had experienced the same problem. After a year-long program at a Florida Young Entrepreneurs Academy, which teaches middle- and high-schoolers skills to be entrepreneurs, Zietz won funding through a pitch competition and launched her business.

It took another year to create the product with a manufacturer, produce a website, and put processes in place for efficient ordering and shipping. Zietz also did a lot of work on the ground, setting up booths at lacrosse tournaments, scheduling after-school sales calls, and managing the warehouse supply.

Marquardt had a similar experience. As a high school senior, he qualified for the U.S. Olympic Swimming Trials in the 200-meter backstroke event in 2016. For the event, swimmers can use an assisting wedge placed on the wall in the water to prevent their feet from slipping at the start of the race. Marquardt needed one for practice and balked at its high price (about $700).

Marquardt and his brother found the specifications and made their own, using a 3D printer Marquardt received for Christmas. Once news got around, friends, coaches, and others in his swimming circles encouraged Marquardt to put his product, BackFin, on the market.

Zietz has learned to navigate the demands of her coursework, sport, and business — scheduling company calls between classes, for example.

It took months — at that point he was in his first year at Princeton — but working with University athletics staff, Marquardt obtained the NCAA waiver needed to sell his product.

Once he got the OK, BackFin became a family operation. Marquardt purchased two additional printers so products could be created in the basement of his family's Ohio home. His parents would ship the parts to Princeton; he'd assemble the wedge in his room and ship it to the customer.

Though he made a small profit, "our goal was not necessarily to make money off of it — it was to enable accessibility of this extremely expensive swimming [equipment] to people that couldn't necessarily afford it," Marquardt said.

As Princeton students, Zietz and Marquardt have continued to make entrepreneurship a major part of their stories.

Now in its seventh year of business, Zietz's company has hit many milestones: She appeared on an episode of *Shark Tank;* the products are sold in Dick's Sporting Goods; she's hired eight full-time staff members; and she was recently recognized as one of *Forbes*

Photos: Ethan Sterenfeld '20

magazine's "30 Under 30" entrepreneurs in retail. This year Gladiator Lacrosse expects to make $7 million in revenue and recently acquired the company All Ball Pro.

Marquardt, meanwhile, largely shifted his focus from his business to academic and longer-term career interests, though he's still fulfilling occasional orders. After pursuing interests in sustainability and medicine during his first two years at Princeton, Marquardt took a leave of absence to figure things out. He remained in Princeton to work for Andluca Technologies, a startup headed by engineering professor Yueh-Lin (Lynn) Loo *01 that designs solar technology for "smart" windows. Marquardt is back at Princeton as a junior majoring in chemistry and working at Andluca.

"I do not deem it a success, but I also don't deem it a failure," he said of his own company. "Just because you didn't make a billion-dollar company does not mean that you didn't learn something. My brother and I, we learned a ton from that, and I would say that was really kind of the springboard into the other things that I had done since."

Both student entrepreneurs continue to be athletes. Marquardt is a member of Princeton's swimming and diving team, practicing an average of 20 hours per week. Zietz is the co-captain of the women's club lacrosse team. Time management is key.

"There are definitely days that run smoother than others," said Zietz, who has learned to navigate the demands of her coursework, sport, and business — scheduling company calls between classes, for example. She spends between 10 and 20 hours per week managing her business.

Marquardt added that it is equally important to periodically take a step back and reflect. "Most Princeton students have the mentality of just go, go, go — this is the path I'm on," he said. When he took time to pause, he found moments when he could ask himself: What do I want?

"That was not comfortable," he said, "but it was necessary in order to grow." *By C.S.*

Courtesy Charter Club

CHANGES ON PROSPECT AVENUE

Looking to Boost Membership, Charter Club Brings Back Bicker

Last fall, Charter Club's Graduate Board solicited proposals from the student body to take the eating club in a "bold new direction," aiming to increase its membership after years of decline. At the time, just 29 students were in the club.

According to Charter alumnus Matthew Daigger '17, a decrease in overall eating-club participation has particularly affected the five sign-in clubs on the Street, including Charter, which switched from a bicker selection system in the late 1970s.

Of the three proposals selected as finalists, two garnered significant support on campus. One sought to establish a bicker system that's less exclusionary than that of other clubs, beginning in the spring of 2021; another aimed to turn Charter into a cooperative. In January, the board chose the former, saying it was more popular and more feasible.

The winning proposal, written by sophomores, aims to attract a diverse group of students from different social groups on campus. Its goals include expanding financial aid for members, providing a wider variety of meal options, and revitalizing Charter's social scene.

"Our vision for the future of the club is to create and preserve an amazing space for groups of like-minded students to come together and form lifelong bonds with one another over meals and events," said John Beers '76, chairman of the Charter board, in an email to PAW.

Charter Club

With 125 sophomores and two juniors signing into the club during Street Week at the beginning of February, the proposal already has been successful in dramatically increasing membership. There is also a growing waitlist, according to Charter Club president Jaren McKinnie '21.

McKinnie said the success of the proposal would not be measured solely on these numbers. "It's mainly making sure that the membership continues to enjoy all of the things that Charter has to offer this year, next year, and [in the future]," he said.

The board's decision to reinstate bicker in a club that has been sign-in for several decades drew some criticism. On the anonymous Facebook page "Tiger Confessions," several students voiced concerns that a bicker system would be inherently exclusionary. Susan Spock '76, a member of Charter when it was a bicker club and a supporter of its switch to sign-in, criticized the decision in an opinion column for *The Daily Princetonian,* calling bicker "inimical to the mission of the University."

Beers pushed back against the critics, saying, "The desire to make the club selective came from our new sophomore section itself, and contrary to popular perception is being advocated as a way to preserve the diversity and inclusiveness the proposal group espouses."

Rowan Pierson '22 and Katie Goldman '22, writers of the proposal, emphasized that it is a "fluid document" and that they will seek input from current and new members going forward.

"We understand that the word 'bicker' carries a lot of weight with it. So, we're hoping to create a selection process that really helps get a membership that is excited about the club, and we're not sure about what the specifics of that process [are] going to look like," Goldman said. *By Mara Harwin '22*

HENRY HORN

Beloved Ecologist's Handcrafted Legacy

Known for his expertise in ecology and evolutionary biology, Professor Henry Horn was also quite creative in other fields. He sang in the Chapel Choir and created artwork as a hobby.

"Henry's art was different," said Simon Levin, a colleague and professor of ecology and evolutionary biology. For example, Horn "would take old bits of computers and create them into structures which told a story," Levin said.

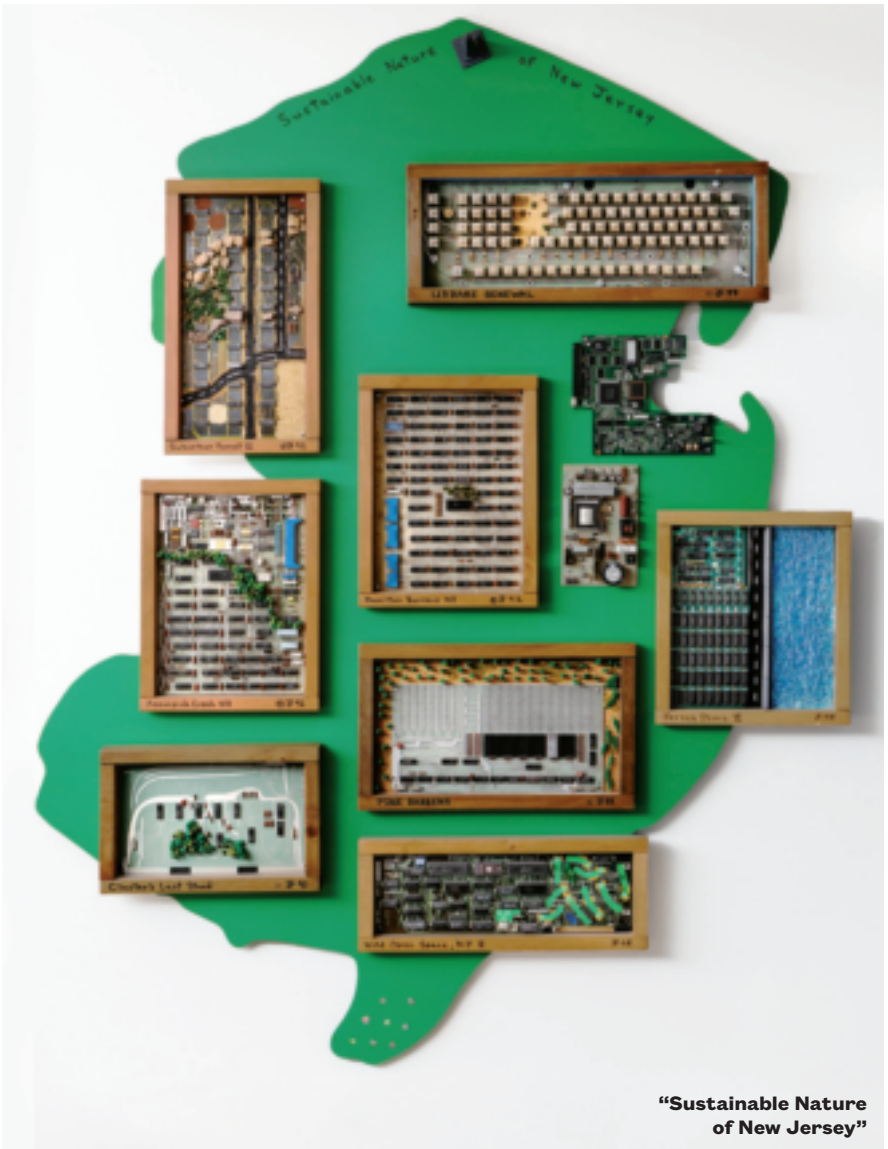
After Horn died unexpectedly last March, it seemed fitting to distribute his works to colleagues as a way to honor the professor emeritus. More than 50 of his works are displayed in various offices, labs, and lounge spaces throughout Guyot and Eno halls. There's also one at the Princeton University Press, where he served on the board.

Each work tells a story. Some draw inspiration from landscapes and nature, while others reflect on religious concepts. Most of his works feature defunct computer pieces Horn collected from old friends or by dumpster diving. Others incorporate carved wood, bottle caps, CDs, or pieces of metal.

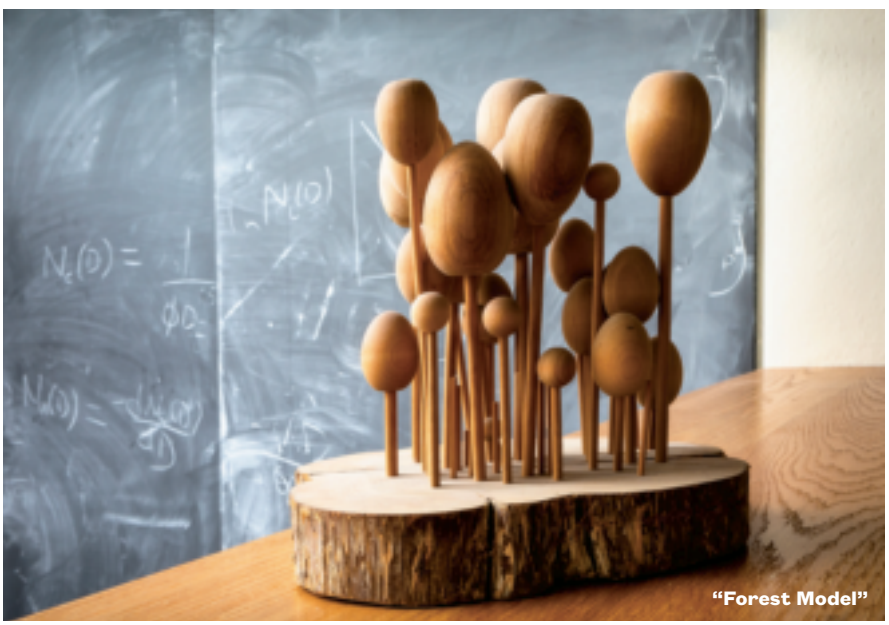
Betty Horn, his widow and a research staff member in the Department of Ecology and Evolutionary Biology, said her husband was deliberate in the messages he hoped to convey. For example, he did a series of work meant to represent neighborhoods and housing developments. She noted that these works have "a real ecological message about what we're doing to the environment."

Horn attributed his artistic output to an alter ego, J. Chester Farnsworth, and the tongue-in-cheek descriptions that accompany many of his works bring to life his commentary on the state of the world. "So much of [his work] was stored up on our third floor and nobody could see it," Betty Horn said. "So why not have it out where people can look at it and think about what he had to say?" *By C.S.*

SEE MORE of Henry Horn's artwork at **paw.princeton.edu**



"Sustainable Nature of New Jersey"



"Forest Model"

Photos: Ricardo Barros

IN SHORT

The number of APPLICANTS FOR UNDERGRADUATE ADMISSION was virtually unchanged this year, with 32,838 students applying, 34 more than in 2018–19. Applications peaked in 2017–18, when 35,386 students applied. "We continue to be impressed by the talent present in the first-year applicant pool," said Karen Richardson '93, who took over as dean of admission last July. "Once again the admission office will have to make difficult decisions as we build Princeton's great Class of 2024." The target for the incoming class is 1,308 students, including transfers. The University offered admission to 791 early-action applicants in December.

New Jersey Transit is conducting a study to evaluate alternatives to the 2.7-mile DINKY LINE between Princeton Junction and Princeton. Options discussed in a September 2019 Request for Proposals include a light-rail replacement for the two-car Dinky; a stand-alone rail line with parallel roadway; and a roadway for rubber-wheeled trams or buses that would replace the train. The study is expected to be finished by late spring, according to NJ Transit spokeswoman Kate Thompson. The Dinky line is the shortest scheduled commuter rail line in the country.

Sarah Hirschfield '20 of New York City has been awarded a GATES CAMBRIDGE SCHOLARSHIP. Hirschfield, a philosophy major at Princeton, is one of 28 U.S. winners of the scholarship, which covers all fees while the student pursues a degree at Cambridge University. She will pursue a master's degree in philosophy, focusing on the philosophy of law, ethics, and feminist philosophy.

The Programs in Theater and Music Theater will present a collaborative project in April to celebrate the 50TH ANNIVERSARY OF UNDERGRADUATE COEDUCATION at Princeton. Led by Jane Cox and Suzanne Agins '97, the project brings together students and alumnae to showcase the stories of some of the women from the first coed classes. The performances will take place at the Berlind Theatre at McCarter Theatre Center April 3, 4, 5, 10, and 11, with an event for alumnae artists prior to the April 4 performance. For more information, visit bit.ly/allherpower.

IN MEMORIAM: PIERRE A. PIROUÉ, professor emeritus of physics, died Feb. 12 in Princeton. He was 88. Piroué arrived at the University in 1956 as a graduate student and joined the faculty in 1961 after earning his

doctorate from the University of Geneva. He later became the Henry DeWolf Smyth Professor of Physics and transferred to emeritus status in 2001. He taught two of the largest courses in the department, General Physics I and II. An expert in particle physics, his research helped lead to key breakthroughs, including the discovery of the Higgs boson in 2012.

About 30 protesters delivered Divest Princeton's proposal to Nassau Hall Feb. 13.

New Call for Fossil-Fuel Divestment

The student group Divest Princeton joined with peers at about 60 college campuses around the world to protest university investments in fossil-fuel companies on Fossil Fuel Divestment Day, Feb. 13.

In front of Frist Campus Center, members read aloud their proposal, which includes Divest Princeton's demands. Afterward a group of about 30 protesters marched to Nassau Hall.

"Divestment from fossil fuels is not only a powerful symbolic gesture, but also a measure to protect the University community," said Divest Princeton member Kenji Cataldo '20, who read a *Daily Princetonian* op-ed about the submission before handing off the proposal to a staff member at Nassau Hall.

University spokesman Michael Hotchkiss confirmed that the document was received by the Resources Committee of the Council of the Princeton University Community (CPUC), which is responsible for evaluating divestment proposals. "We appreciate the engagement by our students and alumni on these important issues," Hotchkiss said in a statement to PAW. "As President Eisgruber has said, our planet faces urgent and complex environmental challenges, and we believe the University is uniquely positioned to have an impact in this area through our research, teaching, and campus sustainability efforts."

Divest Princeton's efforts are part of a groundswell of calls for change in the wake of climate crises. Some universities have committed to divestment, such as Georgetown, which made its announcement Feb. 6. While no Ivy institutions have agreed to divest from fossil fuels, it continues to be a hot-button issue on several campuses, including at Harvard, where the faculty voted in support of divestment and some candidates for the Board of Overseers are promoting the issue. *By C.S.*

Counterclockwise, from left: Sameer A. Khan/Fotobuddy; Anna Allport '23; Department of Physics/Theodore Lewis (2013)

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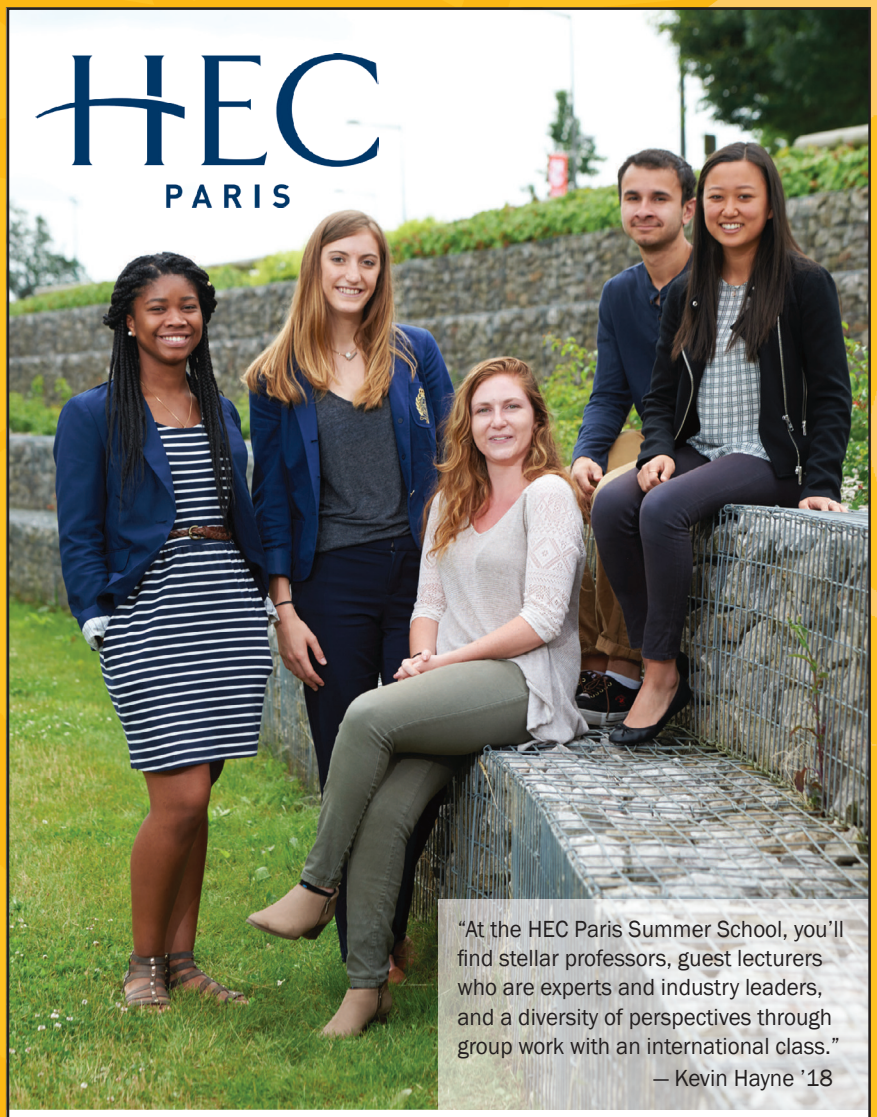

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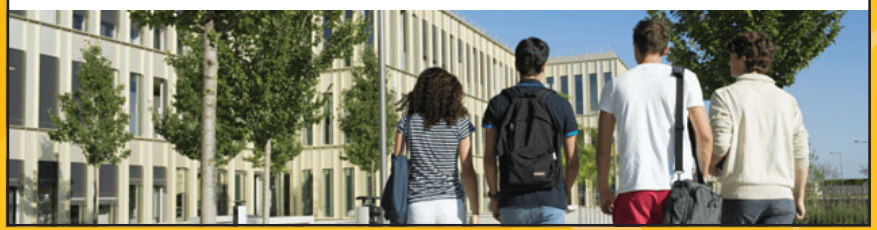

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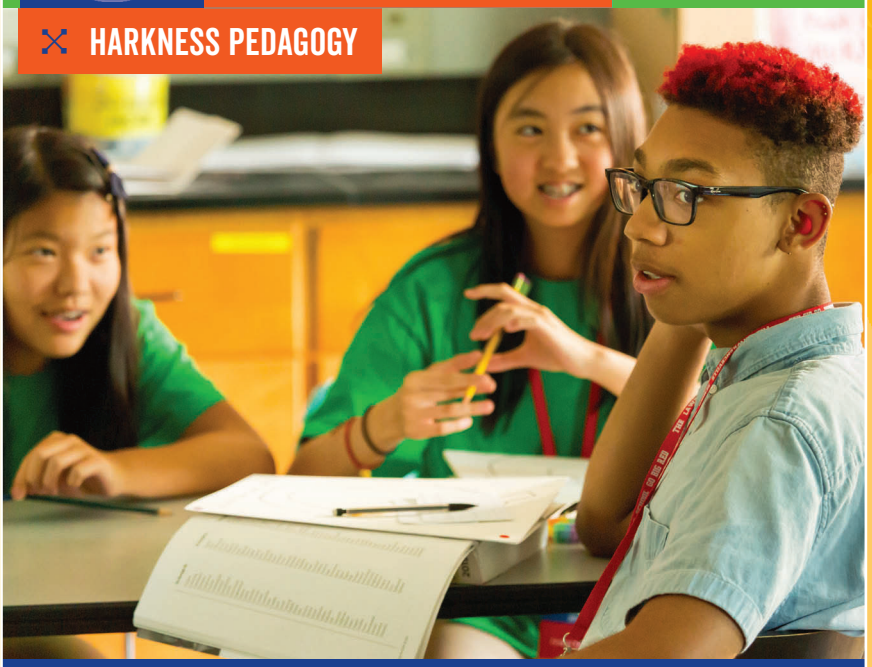

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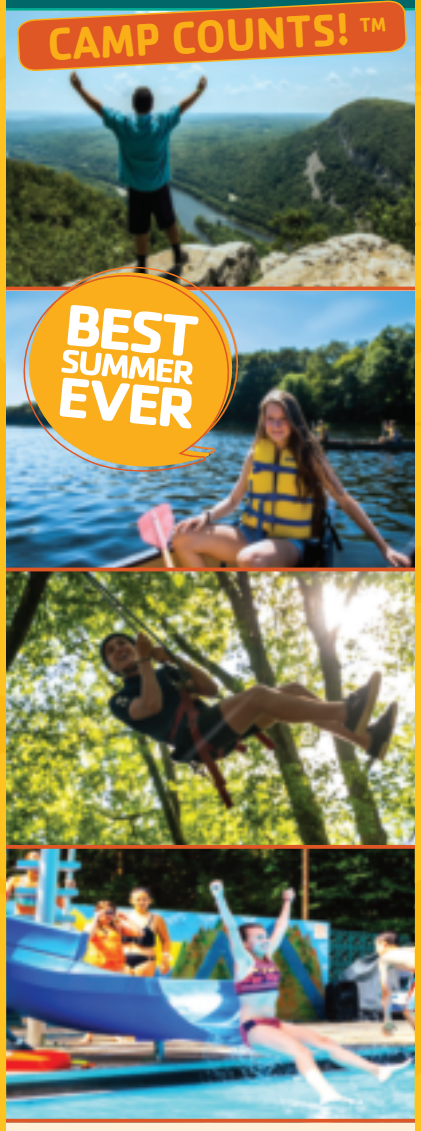

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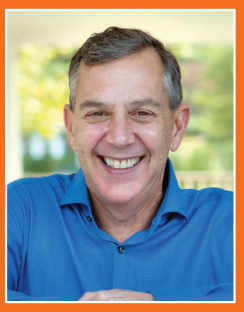

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PRINCETON ALUMNI WEEKLY

Michael Sowers '20 is Princeton's all-time scoring leader in men's lacrosse.

MEN'S LACROSSE

Student of the Game

Sowers '20 applies quickness, vision, and lessons gleaned from viewing video

Michael Sowers '20 has watched thousands of hours of lacrosse in his life, much of it on video: footage of his teams and their opponents, broadcasts of games on his laptop, highlights of great players on YouTube. He watches as a student and as a fan, and he's incorporated the best of what he's seen into his game, which won him All-American honors as an attackman last year and a place as one of the elite players in Princeton's history.

But Sowers prefers to "play with a free mind," he said. "Lacrosse is more similar to basketball than it is to football. Strategy is a huge part of the game, but there's a ton of gray area where you're outside of your settled offense or defense and you have to make an adjustment. Being able to understand that gray area is crucial."

Sowers holds Princeton's all-time record for points scored — 288 through Feb. 22, including 33 in the first three games this year — despite his modest size (5 feet, 9 inches and 175 pounds). His dominance stems from his quickness, vision, and an ability to anticipate what other players will do. Dylan Gaines, a former starting defenseman for the University of Denver, said Sowers "was holding us hostage" in last year's Denver-Princeton game, a 14–13 Tigers win in which Sowers had three goals and three assists. "The film doesn't do justice to his ability to change direction. He'll get you committed to going one way and then go to the other side," said Gaines, who thinks Sowers is the best attackman in the country this year.

As a boy, Sowers said, he and his father, Dave, a high school lacrosse coach, "would watch hours of film. I loved being with him and learning the game." He admired Michael Powell, the great Syracuse attackman in the early 2000s, because he could see how much fun Powell had playing the game. Sowers also was drawn to quick-but-undersized players, including eventual North Carolina star Joey Sankey, who played for a nearby high school. "I was the smallest

continues on page 16

Top: Tommy Gilligan; at right: Beverly Schaefer

THE BIG THREE

1 **NICOLE VENEMA '23** of the women's swimming team won titles in the 50-yard, 100-yard, and 200-yard freestyle events as Princeton surged past Harvard to win the Ivy League championship meet for the first time since 2015. Venema tied for High Point Swimmer of the Meet honors with teammate Ellie Marquardt '23 (another three-event winner) and Harvard freshman Felicia Pasadyn. The Tigers also had a 7–0 dual-meet record against Ivy opponents.

2 **CARLY BULLOCK '20** scored a hat trick against Brown and added two more goals against Yale as Princeton women's hockey dominated both opponents in its final regular-season weekend Feb. 21–22. Bullock, who led Princeton with 26 goals this season, became the ninth Tiger to total 150 points in her career (goals and assists). The team set a program record with 22 wins in the regular season.

3 **SAM ELLIS '21** of the men's track and field team ran the indoor mile in 3:57.66 at Boston University's Valentine Invitational Feb. 15, breaking Bill Burke '91's school record of 3:58.7, set at the 1991 Millrose Games. Ellis is the fifth Princetonian to run the mile in under four minutes as an undergraduate, joining Burke, Joe Stilin '12, Peter Callahan '13, and Michael Williams '14.

continued from page 15

kid in my class," Sowers recalled. "Here was this little guy as tough as nails, not backing away from anyone. You never saw him pull up."

Sowers dodges with the same fearlessness, said former All-American attackman Jon Hess '98. Instead of worrying about being hit by a defenseman, Sowers said, "I'm trying to read through my guy and see what the defense is trying to do on the play." Most goals are the result of defensive errors, he added. As an attackman he's trying to assess where the error is most likely to come from — and trying to cause it with his quickness.

The mistake can be modest, as it was on an assist from Sowers to Chris Brown '21 last year against Rutgers. Emmet Cordrey '19 set a pick for Sowers behind the goal, giving him a few more steps of distance from his defenseman as he ran toward the goal. Two Rutgers defenders froze as they watched Sowers, allowing Brown to cut to an opening, catch a pass from Sowers, and take a clear shot.

"The film doesn't do justice to his ability to change direction."
— Dylan Gaines, former University of Denver defenseman

Sowers cites the feed as one of his favorite plays of the year even though Princeton lost the game. He explicated the five-second clip for 10 minutes and said that he and Princeton's offense practiced the play for an hour each day in the week before the game. The Tigers saw the opportunity to get Brown that kind of shot when they reviewed an early-season loss to Virginia. "This play is the product of watching film and getting on the same page," Sowers said.

He also continues to study other players. Sowers and Tom Schreiber '14, a three-time All-American midfielder, have struck up a friendship, and Sowers found much to learn from Schreiber's play for his professional team, Archers L.C. of the Premier Lacrosse League. "He can see things before they happen," Sowers said. "He can manipulate people with his eyes. He can pass from any spot on the field. Every game, I was watching." *By David Marcus '92*

Quincy Monday '22 won a key bout in the Cornell match Feb. 9.

Beverly Schaefer

WRESTLING

Worth the Wait: Tigers Win Ivy Title, Ending Cornell's Dominant Stretch

Coach Chris Ayres tried to temper expectations before his Princeton wrestling team, ranked No. 16 in the nation, took on Cornell in February.

"We were favored, definitely, but I was thinking, they wrestle us tough, and we have to get this job done," Ayres said. "But then Pat Glory ['22] said the day before the match, 'I've been waiting 365 days for this.' That's how I felt too."

The wait had been even longer for the wrestling program — 12,412 days, to be exact. Before the invention of hybrid cars, the rise of the World Wide Web, the debut of *The Simpsons*, and the fall of the Berlin Wall, Princeton won its last Ivy League wrestling championship, in 1986.

Princeton believed last year was its chance to dethrone Cornell. The Tigers traveled to face the perennial Ivy champs in Ithaca and suffered a stinging 34–7 loss.

"I wanted to crawl under the bleachers last year in that dual meet up there," said Ayres, now in his 14th year as the Tigers' head coach. "I just wanted a little redemption. I knew our guys could get it done."

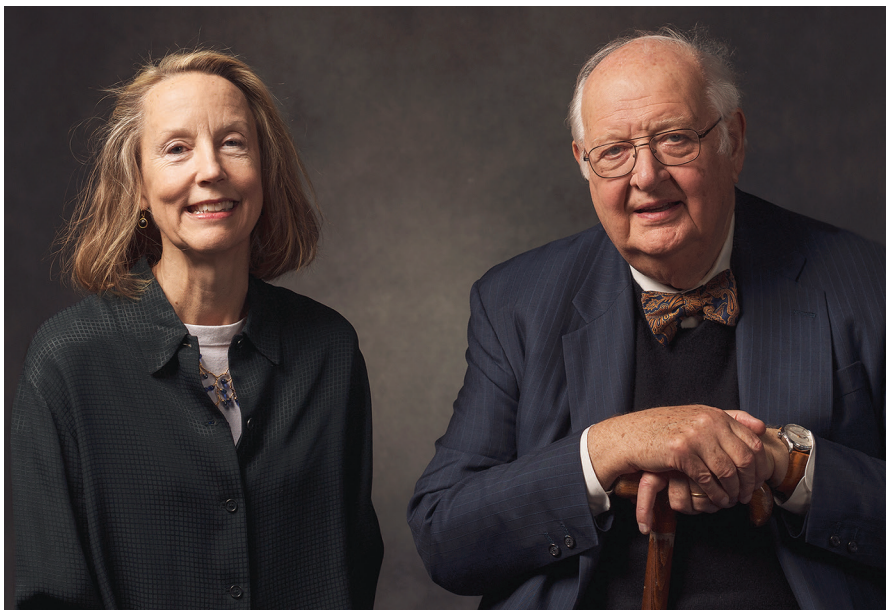
On Feb. 9, Princeton won for the first time in 34 years over Cornell, 19–13. The win snapped Cornell's 17-year Ivy unbeaten streak, which had spanned 92 league matches. The Tigers clinched the Ivy title outright a week later with a 33-6 win over Penn, and they finished the dual-meet season with another win over a top-25 opponent, in-state rival Rutgers, Feb. 23.

"It took so many people to get those victories — the athletes, the coaches, the alumni, and the supporters," Ayres said. "I felt really grateful to be here and be able to get it done, finally."

Princeton's match against Cornell featured wins by Glory, Matthew Kolodzik '20 (who returned from Olympic training in time for the season's home stretch), Quincy Monday '22, Grant Cuomo '22, and Kevin Parker '20. Travis Stefanik '22 clinched the match on a cradle late in the 184-pound bout. The win sparked a wider celebration for Princeton, which became the first school to claim 500 Ivy championships.

"Once we do something, we generally don't look back," Ayres said of his team's steady climb over the last decade. "This was another one of those steps in our program's development that we needed to hit. From here, we're really motivated to do more. We think we can win the [Eastern Intercollegiate Wrestling Association meet]; we think we can place top four in NCAAs." *By Justin Feil*

Life of the Mind

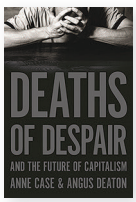


Rebecca Wilcox

FACULTY BOOK: ANNE CASE *88 AND ANGUS DEATON

System Failure

Economists who uncovered American 'deaths of despair' explain the causes



Princeton economists Anne Case *88 and Angus Deaton were the first to point out, in 2015, a startling development: Mortality was on the rise for middle-aged white Americans. That caused life expectancy at birth for all Americans to decline for three years in a row, from 2015 to 2017, a reversal not seen here since 1918, or in any other wealthy nation in modern times. (The National Center for Health Statistics recently announced that life expectancy was up slightly in 2018.) Their new book, *Deaths of Despair and the Future of Capitalism* (Princeton University Press), pinpoints the underlying social and economic forces that have propelled the rise in death rates for middle-aged white Americans, which has been caused by surges in suicide, drug overdose, and alcoholism, as well as by a slowing in the rate of decline of heart disease.

"Many lower-wage jobs do not bring the pride that can come with being part of a successful enterprise."
— Professor emerita Anne Case *88

Both Case and Deaton are professors emeriti jointly appointed in the economics department and the Woodrow Wilson School. Deaton received the 2015 Nobel Prize in economics. The two, who are married, spoke with PAW about fraying social connections, the effects of unaffordable health care, and the solutions they propose.

What you call "deaths of despair" were deaths that occurred mainly among those without a bachelor's degree.
Deaton: There is a dramatic divide between those who have a B.A. and those who don't. Our current economy benefits those with a B.A., and hurts those without it.

What other factors hurt working-class Americans?
Case: There's been a deterioration in the quality of jobs and stagnant wages. And there's much less attachment today between employer and employee. Work brings one status and a sense of self — feeling part of a bigger whole — and many lower-wage jobs do not bring the pride that can come with being part of a successful enterprise.

How does our healthcare system add to the difficulties?
Deaton: What is profoundly different about the U.S. economy is the cost of our healthcare system and the way we fund it. It costs a lot more than anywhere else, and we fund a lot of it through employers, which puts a huge burden on people's wages. A family policy on average costs $20,000, which is paid by the employee and the person's employer. For people with low wages, that's sort of a catastrophe. It's holding down their wages and destroying jobs.

What is the societal fallout compounding these issues?
Case: Without a good job, it's hard to get married. If you can't get married, you cohabit, and cohabitations are very fragile. You may not have family that supports you; if you are a man, you may not see your children much. Other structures have frayed — attachments to organized religion and to unions. This is a [sociologist Émile] Durkheimian recipe for suicide, and that is what we're seeing

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happen. Suicides continue to rise, along with alcoholic liver disease.

What solutions do you propose?

Case: I don't see us getting back on track until we are able to rein in health-care costs. The health-care industry is taking 18 percent of our gross domestic product. That's a cancer eating the economy from the inside out. Reining in costs will call for a concerted effort that, currently, there does not appear to be the political will to do.

Deaton: Two things are needed to make the health-care system work: a system that makes sure, one way or another, that everyone is insured, for example by enrolling people at birth, and some form of cost control.

More generally, it would be good to try to redress the growing power of corporations relative to workers and consumers. And workers need more of a say in what corporations do. We are in favor of a higher federal minimum wage.

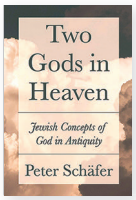
"What is profoundly different about the U.S. economy is the cost of our health-care system and the way we fund it."
— Professor emeritus Angus Deaton

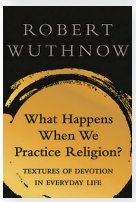
What's next for you?

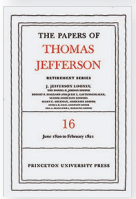
Case: I'm continuing this work on deaths of despair. I am extraordinarily worried about the children in these families. They are at risk for much worse outcomes because of the atmosphere in which they have been raised.

Deaton: I think I might retire and write my memoir. *Interview conducted and condensed by Jennifer Altmann*

NEW RELEASES







Peter Schäfer, professor emeritus of religion and Judaic Studies, shows in *Two Gods in Heaven* (Princeton University Press) that Judaism was not always strictly monotheistic. In the pre-Christian Second Temple period, Jewish mystics and rabbis embraced a second, junior god, according to Schäfer. His examination creates a new understanding of Judaism's relationship with Christianity.

It is difficult to conceptualize the enormity of the universe, but **Lyman Page,** professor of physics, creates an accessible entry point for readers. *The Little Book of Cosmology* (Princeton University Press) describes the discoveries scientists are making by studying the fading thermal afterglow from the Big Bang and illuminates future avenues for research into the cosmos.

What does "practicing" religion really mean? In *What Happens When We Practice Religion?: Textures of Devotion in Everyday Life* (Princeton University Press), a textbook-style work, sociology professor **Robert Wuthnow** employs interdisciplinary methods to explore religious practices, experiences, and other manifestations of religion in everyday life.

The Papers of Thomas Jefferson: Retirement Series, Volume 16: 1 June 1820 to 28 February 1821 (Princeton University Press), edited by **J. Jefferson Looney *83,** illuminates' Jefferson's public and private lives in his retirement years. This compilation of 571 documents, reflects Jefferson's political, philosophical, and religious beliefs toward the end of his life. These writings include documentation of his insistence that slavery should be unrestricted in Missouri, while also exclaiming that liberty — in America and abroad — was ascendant, and his reflections on death and loneliness.

Ruins bear witness to past civilizations, but why has Western society been so fascinated by them? In *The Ruins Lesson: Meaning and Material in Western Culture* (University of Chicago Press), English professor **Susan Stewart** traces the history of this preoccupation, with a particular focus on the Renaissance and Romantic periods.

NEUROSCIENCE: CATHERINE JENSEN PEÑA

The Lifelong Impacts of Childhood Trauma

During her freshman year at the University of Pennsylvania, Catherine Jensen Peña was looking for another class to fill her schedule. Her neighbor recommended the intro biology course he was taking. Intrigued, she figured she'd give it a try. By the end of the year, she was so smitten with the subject that she was tutoring her neighbor in it.

That passion blossomed into a full-fledged love affair, as Peña went on to major in biology and earn her Ph.D. in neurobiology and behavior. Her research focuses on the neurobiological impact of childhood stress such as trauma caused by neglect, abuse, and institutionalization.

"It's such an understudied question, which is so shocking," says Peña, an assistant professor in the Princeton Neuroscience Institute. The topic also has a special meaning for her: "My mom is a children's social worker and my dad is an engineer. I feel like I found the perfect combination [of the two] — wanting to know how things work and the effect of childhood stress." By *Agatha Bordonaro '04*

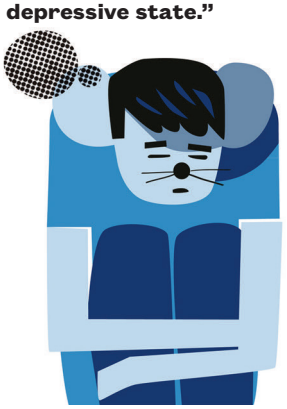
"Despite 100 years of research on epidemiology, there's still so little known about how the brain develops after birth," says Catherine Jensen Peña.

Illustrations: Agata Nowicka (top); Mikel Casal (at right)

Peña's Studies: A Sampling

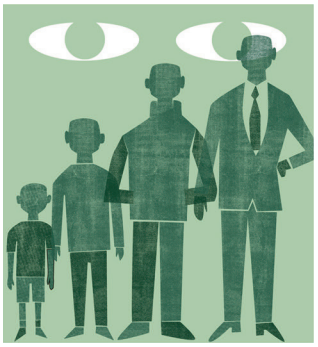
A BRAIN PRIMED

Peña was curious to see whether childhood stress, which is one of the strongest known risk factors for adult depression, alters the brain to make it more sensitive and less resilient to challenges later in life. She and her team studied how two groups of mice — those that had experienced early-life trauma in the form of maternal separation and those that had not — responded to a stressor such as bullying in adulthood. For the mice that had experienced early-life strain, the second life stressor triggered depression-like behavior and the expression of genes not associated with the bullying alone. Looking at the RNA of these mice, Peña says, "it was like the brain was in this pro-depressive state."



TRACKING CHANGES

Peña's lab is working to tag and track the specific cells that are changed by early-life trauma to determine how these changes prime the brain for depression. Her team has successfully bred a mouse with these particular cells permanently marked, allowing researchers to study how these cells react to stress from infancy through adulthood. Understanding how the brain circuitries of depressed individuals vary depending on their childhood experiences can lead to more varied and effective treatments for humans, Peña says.



WITH PURPOSE

Last spring, Anne Elizabeth Sidamon-Eristoff '20 received funding to interview migrant parents in Texas shelters about their children's experiences with stress, immigration, and border detention. She and Peña are analyzing the results from 84 parent interviews to determine the impact of these early-life stressors and their contribution to symptoms of post-traumatic stress disorder. "There are people out there who've had these traumatic experiences, and we are trying to understand what the resulting changes are in the brain," Peña says. ***By A.B.***

NEW MUSIC, OLD THEMES

JULIA WOLFE *12 IS MUCH IN DEMAND THESE DAYS, but the composer of the Pulitzer Prize-winning *Anthracite Fields* and the Grammy-nominated *Fire in my mouth* can't be in two places at once. On the same January weekend that her work *Fountain of Youth* is making its West Coast premiere with the San Francisco Symphony, Wolfe is in Los Angeles, in Walt Disney Hall, contemplating floor lamps.

Four floor lamps, mismatched and with drooping shades, surround the Bang on a Can All-Stars, the eclectic six-piece performance ensemble that is part of Bang on a Can, the new-music group Wolfe co-founded more than 30 years ago. The All-Stars are seated on a large Indian rug that, along with the lamps, was the inspiration of Wolfe's production technician, Jeff Sugg. Wolfe says she didn't even notice the lamps or the rug until the end of the first rehearsal, but she likes them; they create the homey feeling of a jam session in a Haight-Ashbury loft rather than a concert on a proscenium stage. The effect almost works, except for the 70-odd members of the Los Angeles Philharmonic arrayed behind them.

They are all there to rehearse Wolfe's newest composition, *Flower Power,* which would premiere Jan. 18. Wolfe's Pulitzer and two Grammy nominations have made her one of the most sought-after classical composers. When conductor John Adams, himself a Pulitzer Prize-winning composer, takes the stage to begin the rehearsal, he faces the orchestra and opens his arms wide.

"Everybody wanted a piece by Julie," he declares. "And we got one!"

As the title suggests, *Flower Power* is inspired by the Summer of Love. Wolfe says she was drawn to write the piece for the LA Philharmonic in part because many of its musicians are also top session players. When she asks them to play a certain section "sassy," they know what she's looking for. That's fortunate, because the composition is musically challenging, as many of Wolfe's works are. Where a typical tempo marking in most classical works might read *allegro moderato,* for example, Wolfe's first marking in *Flower Power* says, "trippy."

There is a lot of note-bending and *glissando.* All-Stars guitarist Mark Stewart plays his electric guitar with an erhu bow, in much the same way Jimmy Page did for Led Zeppelin in the late '60s. Wolfe asks the Philharmonic's woodwinds to play with an unusually wide *vibrato,* deliberately eschewing clean, crisp notes for more elongated ones. "Your first chord is a bit of a shock," Adams confesses to Wolfe during a public discussion before the concert. "Just for a split second, it sounds like my junior-high orchestra, and then you kind of get into it and it goes to another place."

"It's a weird time right now," Wolfe says in that pre-concert talk. "It's easy to slip into cynicism. So I was trying to think about that change point in the late '60s and that feeling of optimism and hope. Not to idealize that time, but trying to get back to a moment of people breaking open and thinking that they could change things."

Thematically, *Flower Power* is something of a departure from several of Wolfe's other recent pieces, which explored the American labor movement, yet it, too, has an historical dimension. Though it would be inaccurate to describe Wolfe as a history composer, several of her works draw on historical themes. In her 2009 composition, *Steel Hammer,* she reimagined the legend of John Henry, a battle between man and machine. *Anthracite Fields* examined the culture of Pennsylvania coal-mining country. *Fire in my mouth,* which premiered in 2018, centers on the 1911 Triangle Shirtwaist Factory fire. In all, Wolfe has written about 65 compositions in her career, including string quartets, solos, and oratorios, in addition to works written collaboratively for Bang on a Can. In 2016, she won a MacArthur Foundation "genius grant." "Many of her works blur the line between music and theatrical experience," the citation said.

She is also another star in the constellation of the Princeton music department, one of the leading places for developing new music. In 2016, Ph.D. student Caroline Shaw won the Pulitzer for *Partita for 8 Voices.* In 2018, Pascal LeBouef, also a doctoral student, was nominated for a Grammy for best instrumental composition. Several other recent graduates also are doing innovative and exciting work.

"It's like Vienna in the 18th century," jokes Professor Steve Mackey. "Back in the '70s and '80s, Princeton sort of had an intellectual, egghead reputation as a place where music was meant to be seen and not heard. Now we're putting out composers whose music doesn't just live on their teacher's desk. It lives on stages all over the world."

GROWING UP OUTSIDE PHILADELPHIA, Wolfe listened to a wide range of music, ranging from Motown to folk to spoken-word performer Gil Scott-Heron. Music was more of a hobby than a prospective career, though there were hints of something more. As a child, Wolfe began taking piano lessons; once she mastered that, she began to improvise. "I wouldn't say really 'compose' yet," she recalled in a 2018 interview, "but I'd be playing a piece and then change it a little bit."

In person, Wolfe is cheerful and engaging, diving into discussions about the research she undertakes for her

© Peter Serling, 2020

Julia Wolfe *12's experiments with sound span the traditional and the trippy

BY MARK F. BERNSTEIN '83

compositions with a professor's mild intensity. (Wolfe teaches musical composition at New York University's Steinhardt School of Music.) She seems like a teacher. She does not — how does one put this? — *seem* like a hard-core Led Zeppelin fan.

Wolfe entered the University of Michigan intending to major in the social sciences, but a freshman-year course called Creative Musicianship changed her direction. The professor, Jane Heirich, had her students listen to all kinds of music, from Mozart to Dave Brubeck. "She didn't think in terms of 'higher art' and 'lower art,'" Wolfe recalls. "She'd play a piece and ask, 'What's interesting about it?'" Heirich also assigned her students to write short musical sketches, and Wolfe found that she was good at it. By the time she graduated, Heirich had hired her to teach a section of the class to freshmen.

During a visit to New York in 1982, she met composer Michael Gordon, whom she married two years later, and another young composer, David Lang. Five years later, the three were living and working in New York, navigating a music scene that was divided, Wolfe recalls, between genres and age groups, high and low, serious and allegedly unserious.

Hoping to find a place where they could play and hear the broad range of new music they liked, the trio approached a SoHo art gallery with a proposal to stage a 12-hour music marathon. Wolfe, Gordon, and Lang invited many composers and artists to attend — and 400 people came. Someone advertised the show as "a bunch of composers banging on cans" and the three musicians embraced the name.

Bang on a Can, the group they co-founded, has repeated the marathon every year since, and expanded it, drawing thousands of fans. (Now called the LONG PLAY Festival, this year it takes place May 1–3 in Brooklyn.) Over the decades the group has showcased everyone from Philip Glass to much more obscure artists, and almost nothing is off-limits. In 2006, for example, it staged, for the first time, Anthony Braxton's *Composition No. 19*, written for 100 tubas. (The *New York Times* reviewer described the work as "somewhere between elegy and exorcism.")

"At the time, nothing really looked like that," Wolfe says of the marathons. "It was somewhat of a new idea to try to throw music together based on its power and adventurous quality."

In 1992, Wolfe, Gordon, and Lang created the Bang on a Can All-Stars as, in essence, a house band to perform their work at concerts and festivals around the world. Bang on a Can now stages a summer music festival (known affectionately as "Banglewood") at the Massachusetts Museum of Contemporary Art and hosts a developmental program for young composers. It created the Asphalt Orchestra, a "radical street band that brings ambitious processional music to the mobile masses," according to the group's website. The musicians also have come up with other, more entrepreneurial innovations. To gain wider distribution for their music and works by similar artists, they formed their own music publishing company, Red Poppy Music, as well as a record label, Cantaloupe Music.

Meanwhile, Wolfe was writing her own works. She had a master's degree from Yale, but in 1991, Mackey persuaded her to apply to Princeton's Ph.D. program. The music department was going through its own metamorphosis, Mackey says, working toward a broader and more inclusive post-modernism

of just the sort that Wolfe embraced. After completing her coursework, Wolfe left for the Netherlands on a Fulbright Scholarship and did not return to write her dissertation for two decades. The doctoral degree, she concedes, was a condition of her getting tenure at NYU, but her composing career had flowered without it.

WOLFE'S WORK HAS CONTINUED to cross boundaries, drawing inspiration from a broad range of sources, time periods, and styles. Her 1989 work *The Vermeer Room* was inspired by the Vermeer painting *A Girl Asleep,* while *Four Marys* (1991) was inspired by Wolfe's love of the mountain dulcimer common to folk music of Appalachia. *Cruel Sister* (2004), written for a string orchestra, is based on a 17th-century Northumbrian ballad, but several pieces have their roots in contemporary music. *My lips from speaking* (1993) contains pieces of chords from the opening bars of Aretha Franklin's Motown hit "Think." *Believing* (1997) has some of the same psychedelic flavor as *Flower Power. Lick* (1994) has a driving funk beat.

Some of Wolfe's compositions are more experimental than others. *My Beautiful Scream* (2003), a 25-minute long concerto for amplified string quartet, was written in response to the Sept. 11 attacks and mimics a long, slow-motion scream. Her 2007 composition, *Lad,* was written for nine bagpipes, while *riSE and flY* (2012) is a "body concerto" in which percussionist Colin Currie, backed by the BBC Orchestra, snaps his fingers, claps hands, and thumps his chest.

Wolfe's growing interest in American labor history drove her 2009 composition *Steel Hammer,* an oratorio in eight

Exactly 146 singers perform in Wolfe's *Fire in my mouth* — the number of workers who perished in the Triangle Shirtwaist Fire in 1911.

© Chris Lee

movements. The work amalgamated more than 200 versions of the old ballad "John Henry," including those by Bruce Springsteen and Johnny Cash, and was nominated for a Grammy.

Five years later, another composition debuted: *Anthracite Fields,* which is now seen as Wolfe's master work. Though the Philadelphia-based Mendelssohn Club, which commissioned it, initially expected a 20-minute choral composition, Wolfe proposed something much more ambitious: a full-length oratorio that looked at the history and legacy of Pennsylvania's coal fields. Over the next year, Wolfe read everything she could about coal mining, from geology textbooks to oral histories. She conducted interviews with miners and their families, visited museums and small towns, scoured public records, and even went down into a mine herself.

The result was a collage-like blend of styles and sources that resembles Braque's or Picasso's Cubist paintings or John Dos Passos' *U.S.A.* novels. The libretto contains snippets of old coal-country nursery rhymes, passages from a speech by labor leader John L. Lewis, lists of appliances run by coal-generated electricity, and even a government report, the *Pennsylvania Mining Accident Index, 1869–1916,* from which Wolfe pulled the names of injured miners named "John" with a single-syllable last name, then set them to music in an almost dirge-like chant (*"John Ace, John Art, John Ash, John Ayres ..."*). The score begins with bows digging into the strings of a double bass and an electric guitar being scrubbed with the handle of a metal kitchen whisk to create what Wolfe calls the "deep woolly sound" of a dark mine. Other sections break into a driving hard-rock jam.

"It's out there, it's weird, and it's abstract," says Mackey, who happened to be one of the Pulitzer judges in 2014, when the work was nominated. "[*Anthracite Fields*] is a real *tour de force* of text and signing and music."

Wolfe's focus on labor history continued. *Fire in my mouth* (2019), her next major choral composition, looked at the deadly Triangle Shirtwaist Fire and the movement for higher wages and safer working conditions in New York's garment industry. Joining the New York Philharmonic, which commissioned the piece, were the Bang on a Can All-Stars, 36 women from The Crossing, a Philadelphia-based new-music choir, and 110 girls from the Young People's Chorus of New York City. The number of singers equaled the number of people who died in the fire.

As she had in *Anthracite Fields,* Wolfe built the libretto for *Fire in my mouth* from every historical fragment she could find, portraying those who died not just as tragic victims but as immigrants seeking a better life and struggling for their economic rights. The title comes from an interview with Ukrainian immigrant Clara Lemlich, one of the organizers of the International Ladies' Garment Workers Union, who in later life reflected on her youthful activism saying, "Ah, then I had fire in my mouth!"

Again, Wolfe played with new and unusual sounds. In one section, 12 women open and shut heavy shears in unison; Wolfe scoured supply stores in Manhattan's garment district searching for shears that made just the right sound. In the second movement, "Factory," violinists strike the strings with their bows, creating a scratchy sound that evokes the whirling sewing machines of a garment factory. The final section, "Fire," culminates in "slashing sounds in the strings; low, ominous rumbles in the double basses and contrabassoon; and, at times, all-out orchestral pandemonium," a *Wall Street Journal* reviewer wrote.

WOLFE WILL NEXT TURN HER FOCUS toward another historical theme. In September, the Nashville Symphony will premiere *Her Story,* a 40-minute composition for orchestra and women's vocal ensemble celebrating the centennial of the 19th Amendment, which gave women the right to vote. Wolfe wanted the piece to debut in Tennessee, which was the 36th — and deciding — state to ratify the amendment.

Why write about the suffragettes? Why write about a labor tragedy or coal miners? Why, for that matter, write a piece for bagpipes or one that makes use of garment shears? If nothing else, Wolfe's work disdains the distinction between high and low, between serious and popular, between what composers can do and what they supposedly can't. She writes about the topics she finds interesting and uses sounds and instrumentation that augment them.

Though the premiere date is set, the score for *Her Story* still exists only in Wolfe's head. Speaking about her approach to *Flower Power* and other compositions, though, offers a sense of where she might go with it.

"I like the idea of presenting in a musical context these things that I'm thinking about or that I care about or that jumped out at me, and everyone else can think about them or interact with them," she says. "I want it to be an interesting conversation."

Mark F. Bernstein '83 is PAW's senior writer.

Letters to Emily

T.S. ELIOT scholars are gossips who live for drama, so on Jan. 2, when Firestone Library unsealed a set of letters that Eliot wrote to a confidante named Emily Hale, researchers began to live-tweet the archive's opening as though they were chronicling television's *The Bachelor.*

AFTER 60 YEARS, FIRESTONE LIBRARY REVEALS A POET'S SECRET LIFE

By Elyse Graham '07

Eliot, a poet, essayist, and critic of the first half of the 20th century and winner of the Nobel Prize in literature, wrote "The Waste Land," "The Love Song of J. Alfred Prufrock," and the 1939 collection *Old Possum's Book of Practical Cats* — which inspired the musical, and the recent movie, *Cats.* His doctrine of poetry said that critics should separate poems from the biographies of writers, but he also seemed determined to control the biographical details left to future readers of his poetry. When Eliot heard that Hale had given Firestone a collection of more than 1,000 letters he had written to her, which were to be kept under seal until 2020, he wrote an indignant letter to posterity that was kept under seal at Harvard until Hale's collection was opened. The Harvard letter assures Eliot's readers that, despite what the Princeton letters may say, he "was not in love" when he wrote them.

"From 1947 on," he wrote, referring to the year that his first wife died, an event that could have allowed him and Hale, a teacher of speech and drama, to conduct their love affair openly, "I realized more and more how little Emily Hale and I had in common. I had already observed that she was not a lover of poetry, certainly that she was not much interested in *my* poetry; I had already been worried by what seemed to me evidence of insensitiveness and bad taste." The decades-long courtship could never have ended in marriage without a loss to world literature: "Emily Hale

This page: Ashley Gamarello/courtesy Princeton University Library; opposite page: courtesy Princeton University Library

Emily Hale and T.S. Eliot in Dorset, Vt., in the summer of 1946.

would have killed the poet in me."

Upon reading that, one literary critic tweeted: "Read TS Eliot's letter and feel like Emily Hale really dodged a bullet there."

"More keeps trickling out on this TS Eliot/Emily Hale thing. Fourteen boxes of letters but dude then says 'jk [just kidding], I didn't really love her.' "

"Between *CATS* and his weird, defensive statement about Emily Hale, T.S. Eliot has been doing an awful lot to posthumously ruin his own reputation in the past month; very 2020 of him."

Eliot met Hale in 1905, when he was 16 and she was 13. In 1914, he professed his love to her, then went abroad, believing, he said, that he could not propose without the money to support her. He moved to London and remade himself as a proper English gentleman in a three-piece suit, not even American in his accent. But he never stopped thinking about the woman from Boston, and, starting in 1930, they exchanged letters steadily for 26 years. These were passionate letters — perhaps more passionate because Eliot had married someone else in 1915. Love letters can be very intense when you know you aren't going to make good on them.

Two months after their romance reignited in 1930, Eliot told Hale that he wanted her to preserve his letters in a library. Twenty-eight years passed before she gifted Eliot's letters to Princeton, and by then, he no longer wanted to be remembered as her lover.

The opening of the Princeton letters came as a relief to scholars — the more so because they proved not to be idle talk, as some had feared. They show how thoroughly Hale, an ardent Unitarian and a minister's daughter, informed the religious tenor of Eliot's poetry. After the death of his first wife, Vivienne Haigh-Wood, he wrote still more amorously, but made no gestures toward marriage. "He loves me," she told a confidant, "I believe that wholly — but apparently not in the way usual to men less gifted i.e. with complete love thro' a married relationship." Instead, he showed his love in the customary manner of many gifted men: by using her as a muse for his art and then shoving her off the pedestal to place his art there instead.

By Jan. 7, a humming news network was operating out of Firestone. The Eliot scholar Frances Dickey of the University of Missouri, supported by a grant from the International T.S. Eliot Society, visited Princeton to read the letters; every day, she wrote a summary of her reading for the Society's blog. The blog had 4,000 hits in the first week. (Princeton classics professor Katerina Stergiopoulou *14 also wrote posts about the letters for Dickey's blog: Eliot's goal in writing to Hale, she remarked, seemed to be "to know her and be known by her as fully as possible.") Michelle Taylor, a Ph.D. candidate at Harvard, created an electronic newsletter to send Dickey's posts as news alerts to almost 150 scholarly inboxes.

Eliot sent Hale descriptions of his daily thoughts and experiences: the odors of springtime, which troubled him with memories; successful lectures that he gave at universities; bad tea; his Missouri boyhood; his need for whiskey to help him sleep; his irritation with his unintellectual relatives; his wife, who had, he complained, a child's emotional maturity; his visits with the novelist Virginia Woolf, whose company he liked better than her novels; his moods. The letters will gratify those looking for private details of the poet's life. Though their confidences did not extend, it seems, to sex, the lovers exchanged physical intimacies: They traded kisses, she sat on his lap. He told her, in French, that he kissed her hands; later, more boldly, he described himself kissing her feet. He told Hale that he slept with a woman who was not his wife, and a male friend once kissed him, which made him feel shocked and embarrassed, he wrote.

But the revelations from the letters about Eliot's literary inspirations will have far more profound consequences. "He's telling her that she's basically been the muse of his poetry, that she's the hyacinth girl and the lady of 'Ash Wednesday.' She's his Beatrice, and the letters are his 'Vita Nuova,' " says Dickey, referring to the poet Dante Alighieri's chronicle of his love for his muse, Beatrice. The hyacinth girl is one of the most famous — and mysterious — figures in Eliot's poem "The Waste Land," appearing, with a charming voice, in a passage that feels like a memory:

> "You gave me hyacinths first a year ago;
> They called me the hyacinth girl."
> — Yet when we came back, late, from the Hyacinth garden,
> Your arms full, and your hair wet, I could not
> Speak, and my eyes failed, I was neither
> Living nor dead, and I knew nothing,
> Looking into the heart of light, the silence.

Volumes of material have been written on the meaning of this passage. Critics proposed that the hyacinth girl is Vivienne, who tended plants; that she is the poet Edith Sitwell, who moved in Eliot's circle; that she is a product of pure imagination, a symbol of the renewal of spring. One suggested that "she" is a boy, and that we should read the word "girl" with an incredulous tone. Some guessed that the hyacinth girl might be Emily Hale, as biographers knew she had flirted with Eliot in 1914. Now we know for certain.

The takeaway from the letters is Hale's importance to his work, and also the duration of Hale's importance to his work: Eliot knew Hale at a younger age, and put more of her into his work, than anyone had guessed. "There have been suspicions

"He had a secret life that he was open about in these letters … [H]e was writing to her constantly." — Eliot scholar Frances Dickey

*That Hale's letters are at Princeton ... is the result of the heroic work of Willard *26 and Margaret Thorp, a Princeton power couple.*

that Emily Hale was a figure of *some* note in his life, but nothing like what these letters reveal," says Dickey. "Now we see he had a secret life that he was open about in these letters. I mean these letters *were* his secret life. He didn't meet Emily Hale often, but he was writing to her constantly."

Dickey, who is working on an annotated bibliography of Eliot scholarship, has been struck by how much will now need rewriting. "So much criticism has been rendered obsolete by that correspondence," she says. "Decades of speculation about the literary sources of this or that reference in Eliot's poetry have been undercut by the biographical identifications that his letters give for those references." Eliot told Hale that references in his most famous poems invoke people they knew, memories they shared, or performances they attended together. His poem "Ash Wednesday" was a love song for her, he said — but as commentators on Dickey's blog quickly noted, he dedicated that poem to his wife.

"You have made me perfectly happy: that is, happier than I have ever been in my life," he told Hale in one widely quoted letter; "the only kind of happiness now possible for the rest of my life is now with me; and though it is the kind of happiness which is identical with my deepest loss and sorrow, it is a kind of supernatural ecstasy."

John Haffenden, the editor of a forthcoming volume of the Hale letters from the publisher Faber and Faber, has denounced the blogosphere for circulating gossip, "rather scandalously in my view and unnecessarily," before everyone sees the letters firsthand. But digital chatter takes nothing from the slow communion that historians call, unsubtly, the pleasures of the archive. Eliot fetishized the physical form of Hale's letters, telling her that he had an insatiable appetite for the feel of the stationery and the sight of her spiraling script.

For the scholars who have made the pilgrimage to Firestone to see the letters themselves, Eliot's letters, too, hold the presence of their maker: the paper; the letterhead; the master's inscription, with typewriter crossings-out and blots from a lingering pen that tell stories of their own. (During a hectic time in his life, Eliot went for almost 18 months without replacing his typewriter ribbon.)

On the day that the letters were unsealed, when Firestone opened its doors at 8 a.m., eight scholars were already waiting outside, like fans lining up for tickets to a blowout concert. The library, anticipating a rush, had devised a ticket system for scholars to choose which folder to look at.

"The air was just incredibly charged with excitement," says Dickey, who got ticket No. 1. "And the letters did not disappoint. The very first letter I looked at was an outpouring of emotion and self-revelation — very unexpected for a poet of such reserve. After I read a few letters, I jumped up and went to the end of the table, where Lyndall Gordon"— a famed biographer of Eliot — "was sitting, and I said, 'Lyndall, you have to look at these letters.'"

That Hale's letters are at Princeton — that the letters are in an archive at all — is the result of the heroic work of Willard *26 and Margaret Thorp, a Princeton power couple. Willard taught in the University's English department, where he founded the American studies program; Margaret, who held a Ph.D. from Yale, wrote books and journalism. Margaret was a friend of Hale, and through that acquaintance, the couple became friends with Eliot. (Determined, as always, to exemplify English reserve, Eliot first addressed his letters to "Mr. Thorp"; then, years later, to "Thorp"; then, finally, to "Willard.")

From early on, Eliot made noises about preserving his letters and Hale's in a British library. Willard and Margaret recognized that deeds are better than words and importuned Hale to give her letters from Eliot to Princeton. They pleaded for the needs of future scholars, and they promised that the library would keep the gift secret, so that neither she nor Eliot would see their private lives become public. She assented, writing to Willard in 1956, "So, my friend, you can lick your whiskers metaphorically, that Princeton is to receive the collection; naturally you will realize this decision is due mainly to my years of friendship with you both." Willard replied, "I do wish you had come here to see my face when I opened your letter and read of your decision to give to Princeton this fall all of your letters from T.S.E.! [A guest] was in the guest room, so Margaret and I had to have a discreet session of rejoicing out in the garage. This is one of the nicest things that has happened to the Thorps and we bless you for it. Margaret can't lick her whiskers, but I lick mine — as you said I might well."

Willard added, "I hope it will be a long time before scholars

From left: Princeton University Archives, Princeton University Library; Willard Thorp Papers (C0292), Manuscripts Division, Department of Special Collections, Princeton University Library

"I was the confidante by letters of all which was pent up in this gifted, emotional, groping personality," Hale wrote.

have access to this correspondence, but when they do they will surely find a treasure-horde." An added pleasure came from showing up other Ivies: Colleagues at Harvard had been boasting to him about papers they had received from Eliot's brother, and a colleague at Yale, which had received papers from Eliot's biographer, "was patronizing about Mein Eliot materials."

The University librarian at Princeton, William Dix, drew up the necessary forms and quietly stored the collection in a fireproof vault. (Willard assured Hale, "He is a most discreet person and a good friend of ours.") Eliot's response to hearing of Princeton's acquisition is not recorded, but seven years later, in 1963, he burned his collection of Hale's letters to him — the letters that he once promised to give to an archive together with his own. Had Hale sent him her collection to be kept in a British library — had Princeton not been, in Willard's words, so "zealous for posterity" — then none of the Eliot-Hale letters would survive today.

More than this, Willard and Margaret persuaded Hale to leave to posterity her own account of her experiences with Eliot. She dictated one narrative to a tape recorder, which the University transcribed, and gave the Thorps a second on a set of notebook pages. (The University has made these documents available online, at bit.ly/hale-narrative.) When, after Eliot's death, she wrote to the Thorps to ask that these gifts be returned, Willard agreed but asked her to reconsider:

"Margaret and I would ask you to wait a bit before destroying these records. Only think what is to come! In Tom's lifetime there were books and essays beyond, I think, what any living poet ever knew. Now there will be a whole library of biographical works and special studies. The critics are already saying: 'This was the Age of Eliot.' And so it was. Dryden, Pope, Johnson, Coleridge, Tennyson, Arnold, Eliot. Questions will be asked — will still be asked, in A.D. 2015. (Isn't that an ungraspable date?) ... Perhaps I am being too objective, thinking in too scholarly a fashion about what we have missed and may never know: about the thinness of our knowledge of Dryden's personal life, about Tennyson and another Emily. If I am being too impersonal, chastise me and I'll be 'still as any mouse.'"

Hale agreed to let Princeton keep her narratives. In them, as though to shore an intense and turbulent correspondence against the stability of sexual propriety, she stresses that "we kept the relationship on as honorable, to be respected plane, as we could."

"I was the confidante by letters of all which was pent up in this gifted, emotional, groping personality," she wrote. After the death of Eliot's first wife, Hale hoped that the relationship might culminate in marriage; but "instead of the anticipated life together which could now be rightfully ours, something too personal, too obscurely emotional for me to understand, decided T.S.E. against his marrying again. This was both a shock and a sorrow, though, looking back on the story, perhaps I could not have been the companion in marriage I hoped to be, perhaps the decision saved us both from great unhappiness I cannot ever know."

Do poets correspond with their lovers, or with posterity? Eliot's anger over the letters, his desire in later years to destroy the correspondence, may have come from his desire to dictate the relationship between the "Tom" of his private signatures and the *T.S. Eliot* on the copyright pages of his books. Did he fear, once critics started to understand his poems, that her writing would strip away their remaining mystery? Did he regret the flares of vanity and temper that his letters reveal? Or had the Eliot who wrote those letters been, as the Harvard letter insists, merely in love with love, with the memory of himself as a young lover?

Haffenden told an interviewer that the letters are heart-rending: "How wonderful to receive these letters. I would fall in love with him instantly." Dickey and Taylor are more circumspect.

"Why did she stay with him? He was a good writer," Dickey says. "He's so compelling in his professions of love. I honestly don't understand what Eliot thought he was doing to Hale. I think he worked himself up to believe everything he told her, but there were aspects of his own feelings that were obscure to him, and he kept her at arm's length in practice. I can't explain why."

"I want to try to be sympathetic to him," Taylor says. "In the letters, he talks a lot about self-deception, and he's so clearly deceiving himself. There are enough times when she seems to say, 'Why don't you divorce your wife?' and he dodges that question in his reply. I don't think he ever thought he was going to marry her. I think he convinced himself that she was on the same page. That she was getting what she wanted out of this relationship: friendship, admiration, fun times in gardens."

Nothing, in the end, is unimportant. Willard and Margaret Thorp, conspiring with William Dix, sought to save everything they could of Hale and Eliot's shared life on the page, from literary drafts to idle gossip. Their work followed through on a theory of literature: that literature relies on collaborative exchange, that poets mine ore from every seam of experience, that posterity may cherish any fragment rescued from the ruins of history. That everything in Eliot's life informed his art, including the women he knew.

On her blog, Dickey wrote, "In entrusting Eliot's letters to Princeton, Hale was only acting on his original wishes; in destroying hers, he attempted to erase the key to his poetry. Ironically or fittingly, his testament remains to tell us what he meant, after all."

Elyse Graham '07 is an associate professor of English at Stony Brook University.

PRINCETONIANS

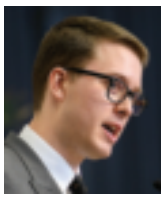
David Treadwell '89

LEARNING TO FLY: Ashley Doran Northrup '99 spends four hours each week at Emerald City Trapeze Arts in Seattle practicing her skills as a "flyer." She also does strength conditioning to help her improve, but says "the hardest thing about trapeze is the mental strength that it requires." She credits the trapeze for helping her to "fly" out of a slump: "Trapeze helped me find myself [and] people that I adore," says Northrup, whose circus name is Tiger Flyer. "And I get to cover myself in glitter and sequins while I do it!"

Top Honors

PYNE HONOR PRIZES, the top award for undergraduates, went to:

EMMA COLEY '20, a religion major with certificates in ethnographic studies, humanistic studies, and urban studies. A volunteer and activist on the issue of homelessness since her high school days in Ohio, Coley is exploring homelessness in Portland, Ore., for her thesis, which incorporates fieldwork, urban history, and Catholic social thought.



BEN PRESS '20, a history major with certificates in medieval studies and in history and the practice of diplomacy. He has chaired the Butler College Council and the Undergraduate Student Government's U-Councilors. His thesis investigates how the collapse of governance in mid-1620s England fueled new models of parliamentary representation.

THE PORTER OGDEN JACOBUS FELLOWSHIPS, which fund a graduate student's final year, were awarded to four students:

VINICIUS DE AGUIAR FURUIE, anthropology. His work analyzes the economic life of traders on the Iriri River, a tributary of the Amazon.

TALMO PEREIRA, neuroscience. Using artificial intelligence and insights from multiple fields, he builds novel methods for quantifying body language.

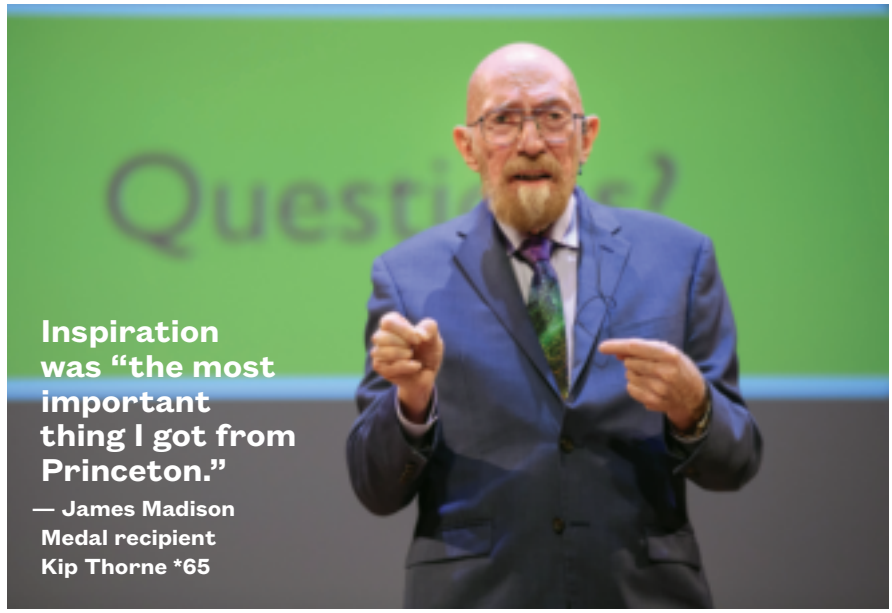
KARAN SINGH, computer science. His dissertation seeks ways to improve feedback-driven interactive learning algorithms.

RAISSA VON DOETINCHEM DE RANDE, religion. Her research focuses on Islam and the study of religious ethics.

Alumni Awards

THE CLASS OF 1994 received the Class of 1926 Trophy for raising $7,028,794 for its 25th reunion.

The Harold H. Helm Award for sustained service to Annual Giving went to TOM HOSTER '72 of Palo Alto, Calif.



Inspiration was "the most important thing I got from Princeton."
— James Madison Medal recipient Kip Thorne *65

ALUMNI DAY

INSPIRING MINDS

At Alumni Day, speakers share how their careers and their values were shaped by Princeton

Alumni Day award winners invariably give thanks to the people who made their accomplishments possible, but this year, their words of appreciation reached more broadly than usual.

Nobel laureate Kip Thorne *65, the James Madison medalist, shared gratitude for his Princeton mentors, generations of students and postdocs, and his extended scientific family at the Laser Interferometer Gravitational-Wave Observatory (LIGO), which includes some 1,000 researchers from 15 nations.

American Civil Liberties Union executive director Anthony Romero '87, the Woodrow Wilson Award winner, praised his family, his teachers, Princeton friends, and the thousands of people at the ACLU who have committed themselves to public service over the past century. "No one does anything meaningful or influential alone," he said.

Romero also pointed out the irony of receiving Princeton's highest honor for undergraduate alumni. "There's a good chance that Woodrow Wilson [1879] is right now spinning in his grave like an Olympic figure skater as an award in his name is bestowed on the executive director of an organization literally established to oppose the xenophobic, anti-immigrant, flagrantly unconstitutional Palmer Raids that he oversaw and engineered," he said, referring to the Wilson administration's efforts to arrest and deport suspected leftists in 1919 and 1920.

Romero praised the students of the Black Justice League, whose sit-in at Nassau Hall in November 2015 sparked a reexamination of Wilson's legacy on campus. Some would prefer to have Wilson's name removed from the award, he said, and others might wish that an ACLU leader would refuse to accept the honor. But Romero viewed the occasion as an opportunity to "reckon with the past," including his own growth as an undergraduate and the moments in history when the ACLU did not fully live up to its principles.

Romero was not the only honoree to call out the namesake of an Alumni Day award: At the luncheon in Jadwin Gymnasium, Emma Coley '20, a Pyne Prize winner, spoke about Moses Taylor Pyne 1877's fortune and its ties to slave labor in the sugar trade, citing research

Photos: Sameer A. Khan; Tori Repp/Fotobuddy (Service of Remembrance)

from the Princeton & Slavery Project. Coley shared Pyne Prize honors with Ben Press '20.

Nearly 1,000 alumni and guests returned for the Feb. 22 Alumni Day festivities, which featured talks about mathematics in biology, innovation and entrepreneurship, and navigating college admissions. Alumni also gathered for the annual Service of Remembrance at the University Chapel.

In his address at Richardson Auditorium, Romero discussed coming to the University from humble circumstances. Neither of his parents had finished high school before moving to New York from Puerto Rico. Romero spent part of his childhood living in a housing project in the Bronx, and when he was admitted to Princeton, his guidance counselor told him not to come because he wouldn't fit in. At first, the University felt "like a foreign country whose language I barely understood," he said, but he was grateful for the chance to learn, grow, and be humbled.

Romero concluded with a call to action, encouraging all Princetonians to find the joy and rewards of public service. "Being in service isn't something that can be outsourced — it can't be delegated," he said, citing Wilson's own belief that "there is no higher religion than human service."

Thorne, a professor emeritus of theoretical physics at Caltech, devoted his lecture to "adventures in inspiration" and the area of physics that he calls "the warped side of the universe" — black holes, wormholes, singularities, and gravitational waves.

Inspiration, Thorne said, was "the most important thing I got from Princeton." It came from towering faculty members such as John Archibald Wheeler. Thorne recalled his first meeting with Wheeler, in which "he gave me a personal 90-minute lecture, in the form of a conversation," explaining his theory of the "fiery marriage" between general relativity and Einstein's laws of warped spacetime. As a graduate student, Thorne also was enthralled by the experimental work of Professor Robert Dicke, a pioneer in the field of experimental gravity.

Thorne shared slides and animations to explain the foundations of LIGO, the project that draws on more than four decades of his work in theory and research. Developing a tool to detect gravitational waves, he said, was the best way to explore the warped side of the universe, since gravitational waves and black holes are made from the same thing — warped space and time.

LIGO's first detectors were completed in 1999, but it wasn't until 2015 that the project successfully detected gravitational waves, from an instance of two black holes spiraling together and merging — a finding that made headlines around the globe and helped earn Thorne a share of the 2017 Nobel Prize in physics. Now, researchers are detecting gravitational waves on a weekly basis, he said. There's even a smartphone app to alert team members and the general public to the latest event.

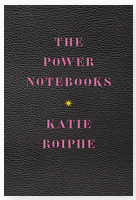
While citing those who inspired him, Thorne also spoke about his efforts to inspire others, sometimes through nontraditional means, such as consulting on the science-fiction film *Interstellar* (and writing a companion book about the science behind it). His latest project is a book of physics-inspired poems, illustrated by the painter Lia Halloran.

Fielding audience questions, Thorne was asked whether he believes in the existence of extraterrestrial life. He shared a story about a meeting with Stephen Spielberg, in which the director asked a roomful of Caltech physicists if they believed there was intelligent life somewhere in the universe that is more advanced than we are. "Every hand went up," Thorne said. "That is certainly my view — it's very likely. But it's very unlikely that any of them have come to Earth." *By B.T.*

Alumni sing "Old Nassau" at the conclusion of the Service of Remembrance in the University Chapel.

READING ROOM: KATIE ROIPHE *95

A NUANCED LOOK AT FEMALE POWER AND ITS ABSENCE



Katie Roiphe *95 burst onto the national scene in 1993 with a polemic, *The Morning After,* challenging the widespread cultural panic about date rape on college campuses. She was hardly done making enemies. In a controversial 2018 *Harper's* article, she took the #MeToo movement to task, arguing that it overrode due process, failed to distinguish sex crimes from lesser transgressions, and muzzled dissent.

Roiphe, director of the cultural reporting and criticism program at New York University's Arthur L. Carter Journalism Institute, also has authored scholarly works on unconventional literary marriages and writers near death. But her latest book, *The Power Notebooks* (Free Press) — her most personal yet — likely will rattle both fans and detractors. "People expect from me more of a ferocious polemical energy," Roiphe says. "My dedication to ambiguity here will surprise people."

Roiphe says *The Power Notebooks* is consistent with her career project of questioning oversimplified political speech. "I've always written about the inadequacy of political language to get at the complexities and intricacies of experience," she says. "That's been my obsession, my theme."

Composed in fragments and inspired by the journals she has kept since age 12, the book explores the contrasts between the public and private lives of women writers, including Roiphe herself. Her subjects include Simone de Beauvoir, Mary McCarthy, and Sylvia Plath — all, to varying degrees, in thrall to the literary men they loved. "Her long-maintained abjection is almost an achievement," Roiphe writes of de Beauvoir's relationship with the philosopher Jean-Paul Sartre.

The book captures what Roiphe calls "some of the weird ways I've behaved over the years." She describes walking on eggshells during her first marriage, afraid to trigger her husband's temper. During one car trip, she was unable to quiet their infant, and he demanded that she walk home with the baby in her arms. She complied. But she rejects labeling her ex-husband "emotionally abusive," preferring to see them as mismatched — and noting that he has since become a friend.

"My dedication to ambiguity here will surprise people."
— Katie Roiphe *95

She describes two other less-than-satisfactory relationships — a prolonged tryst with the father of her second child and a dalliance with a man 20 years her senior, "both gifted at and panicked by intimacy ... responsible to no one, beholden to no one, faithless, family-less ... . " A friend nicknamed him "the Claw," in tribute to both his hold on Roiphe and his seemingly monstrous behavior.

Even more troubling is the sexual relationship Roiphe pursued, at 15, with a rabbi in his 30s. "I felt shame for liking the things we did, for wanting them," she writes. "I felt deep repulsion at what was happening even as I was enjoying it."

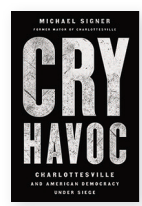
"I had played down the dark side of that story for a long time," she says. She still declines to call the experience molestation, saying: "It is possible that this man was abusing his power, but I also had some agency, or got something out of this situation." But she now realizes: "I also wasn't as in control as I thought. At the time it was scarier and more upsetting than I have allowed myself to confront."

The Power Notebooks sets out to show that "you can be both a strong public person, and also sometimes not so strong," Roiphe says. In fact, she says, it is hard — for her or for anyone — "to be a kind of feminist warrior heroine all the time." Letting go of that belief can be "liberating," she says.

While she celebrates the contentment of her second marriage, Roiphe says she sought to avoid too pat a conclusion about women and power. "I believe a lot of these contradictions are huge and innate and inescapable," she says. *By Julia M. Klein*

NEW RELEASES

When an affair with a married man sours, a woman struggling to make ends meet decides to join a research study wherein she must live with an AI device that charts her brain and can, in some ways, read her mind. **Marianne Apostolides '94** raises difficult ethical questions in her novel *I Can't Get You Out of My Mind* (Book*hug Press), probing what it means to be human, the value of privacy, and how we communicate our thoughts.



Mike Signer '95 was the mayor of Charlottesville when the white nationalist "Unite the Right" rally descended upon the city in August 2017. He was also a political science teacher and lawyer with concerns for both free speech and public safety. In *Cry Havoc* (Public Affairs), Signer reflects on the Charlottesville rally and its aftermath, offering lessons about how government should confront hate speech and promote civility.

Jason Andrew

Irene Sofia Lucio '08 has had acting roles in major television shows and Broadway productions.

IRENE SOFIA LUCIO '08

MAKING HER OWN WAY

A performer describes her journey from reluctant arts student to up-and-coming actress

Acting is a career with no linear path, no ideal ratio of auditions to roles booked that will guarantee success. Irene Sofia Lucio '08 is well aware of that uncertainty, and for years tried to steer away from performing and toward something more practical. "There was a part of me that was always like, 'I'll grow up and mature and become a lawyer or be in advertising,' " she says. "But it didn't work out that way."

After Princeton, Lucio attended the acting program at the Yale School of Drama. She's done theater — most recently in the acclaimed Broadway show *Slave Play*. She's done television — she has credits on *The Americans, Gossip Girl,* and *Madam Secretary*. The web series she co-created and stars in, *BUTS,* which satirizes Latinx stereotypes in the media, was an NBC Short Film Festival winner.

The web series was notable for Lucio, who grew up in Puerto Rico: "Something that's interesting about being a Latina who's white-passing, but has a Spanish name, is that I'm not being treated as a white person," she says. "But, I'm also not being given Latina roles."

Lucio's recent role in *Slave Play* allowed her to engage with that cultural duality. In the show, she played Patricia, a therapist who, along with a colleague, leads a performance therapy devised for interracial couples to confront the legacy of slavery in their sexual dynamics. "It's not very often that you get parts that are close to your actual person, but my character is described as a 'white-passing brown woman with many lives,' " Lucio says of Patricia.

Growing up in Puerto Rico, Lucio fell in love with acting. "There was something, weirdly, that made sense the moment I went on stage," Lucio says, remembering her experience playing the title role in *Annie* in a school production. "Things just started aligning and even though it was scary, it felt right."

As a freshman at Princeton, Lucio says, she tried to escape acting and move toward a more "serious" career. Ultimately though, she found herself in her most authentic role: actor.

"I basically lived at 185 Nassau, and three professors — Michael Cadden, Robert Sandberg ['70], and Tim Vasen — took me under their wing," Lucio remembers. "That's when I claimed what I wanted to do."

Lucio has advice for today's acting students: "Reach out to people, reach out to teachers who believe in what you're doing," she says, adding, "Everyone, especially in these fields, has had a hard time. Nobody had it easy, so they'll empathize."

What's next for Lucio? The *BUTS* plaudits have generated further projects and inspired Lucio to create more original work. "It gave me the confidence that I have a voice that knows what it's doing." *By Elena Sheppard '09*

Regional Roundup: Princeton in Hawaii

Princeton history professor Martha Sandweiss visited alumni and their families during a trip to Honolulu organized by the PRINCETON CLUB OF HAWAII in October. Pictured, from left, are Ivan Hall '54, Professor Sandweiss, and Princeton Club of Hawaii President John Ellis '81. While there, Sandweiss gave presentations about the Princeton & Slavery Project, met with curators at the Hawaiian Mission Houses Historic Site and Archives, and dined with Princeton alumni. With help from David Ball *07, an English teacher at the Punahou School, Sandweiss met with students and teachers at the private K-12 school for a day. "The content of the slavery project had a lot of resonance for people wrestling with the particularities of Hawaiian history," says Sandweiss. "And a bunch of students now seem fired up to think harder about Punahou's own storied past."

From top: Katie Levine; Robert Kekuna '80

CLASS NOTES

Online Class Notes are password protected. To access, alumni must use their TigerNet ID and password. Click here to log in: http://paw.princeton.edu/class-notes

MEMORIALS

PAW posts a list of recent alumni deaths at paw.princeton.edu. Go to Reader Services on PAW's home page and click on the link "Recent Alumni Deaths." The list is updated with each new issue.

THE CLASS OF 1948

Forster W. Freeman '48

Forster was born April 19, 1927, in Paterson, N.J.

At Princeton Forster majored in economics, but his life work became teaching and pastoring in human potential and spiritual growth, building upon Christian and other faith traditions. He and his wife, Julia, founded and led many Christian church congregations and other groups in a variety of locations across the United States. He earned theological degrees from Union Theological Seminary in 1951 and from Weston Jesuit School of Theology in 1984. He was ordained as a Presbyterian pastor and had joint standing as a pastor in the United Church of Christ.

Forster and Julia maintained that they gained much insight and understanding through Eastern mysticism and natural foods and from participation in the civil-rights movement of the 1960s — "clues about human transformation and spiritual potential that the New Testament authors talked about."

Forster died Nov. 5, 2019, in Portland, Ore., at age 92. He was predeceased by Julia in December 2009. Forster is survived by their five sons, two daughters, six grandchildren, and nine great-grandchildren.

John F. Garber Jr. '48

John was born July 10, 1925, in Lancaster, Pa. He died Dec. 2, 2019, in a retirement center in Willow Street, Pa.

After public school in Ephrata, Pa., and Franklin and Marshall School, John graduated from the Lawrenceville School in 1944, and from Princeton in 1948 with a degree in economics.

John entered the dairy business in a company that had been founded in 1890 by his grandfather. He followed his father as a director, president, and then chairman of what had become Penn Dairies. Under that company name and private label, Penn Dairies produced, distributed, and sold dairy products from Maine to Virginia and through a number of company-owned convenience and dairy stores. After John's retirement in 1990, the company was sold to Crowley Foods of Binghamton, N.Y.

As avocations in Pennsylvania and in Naples, Fla., John was an avid golfer and tennis player, and he was a private pilot with multi-engine and instrumental ratings. He also was a founder or leader of many industry and community organizations.

He was married for 54 years to Barbara, who died in 2003. They are survived by two sons, two granddaughters, and five great-grandchildren. John then married Barbara Betts, who died Aug. 30, 2019, and thus became stepfather to two stepdaughters and two stepsons.

Thomas Smyth '48

Tom was born May 12, 1927, and grew up in Indiana, Pa., where his father, an ornithologist, was head of sciences at Indiana State Teachers College.

After Army service, Tom graduated from Princeton with honors in biology. In 1952 he earned a Ph.D. at Johns Hopkins University.

He was a teacher-researcher at Tufts University from 1952 to 1955, and then professor of entomology and biophysics at Penn State University until his retirement in 1991. He remained active in the university community, especially as a leader and adviser for the Penn State Outdoor Club.

Throughout these years he climbed mountains worldwide: in the Himalayas, on Mount Kilimanjaro and Mount Kenya in Africa, up Fuji in Japan and Mount Ararat in Turkey, on the Matterhorn in Switzerland, and in China's Tien Shan Mountains.

While at Tufts University he had explored the Greenland ice cap more than 900 miles into the Arctic Circle. Penn State gave him a Friend of the (Nittany) Mountain Award. He personally maintained 25 miles of trails there; an outlook on the mountain is named for him.

Tom was cited as a dedicated teacher and for exemplary stewardship of natural resources, and as a "tireless guardian of Mount Nittany." He died Dec. 5, 2019, in State College at 92.

THE CLASS OF 1949

Michael C. Gill '49

Michael died Oct. 13, 2019, in Bayanup, Western Australia, with his daughters, Alice Gill and Laura Hardman, at his side. A lifetime potter, he was a resident of Sherborne in Dorset, England, but had spent many years in Uganda.

Michael was born in England and came to us from the Bryanston School there. At Princeton, where his father was a member of the Class of 1914, Michael majored in chemistry, earned Sigma Xi honors, and participated in the Rugby Club, JV crew, and cross-country. He was also president of the Pottery Club and the Chemistry Club.

Ten years after leaving Princeton, Michael had moved on from graduate work at Leeds University and was in Kampala, Uganda, as a potter and as a developer of several local potteries. He was active in the Uganda Development Fund for many years.

By 1974, Michael was back in Dorset, actively restoring a 13th-century watermill for his pottery business. He continued as a potter and became a member of the Royal Forestry Society, managing a small woodland in Dorset.

Michael is survived by his daughters and by his partner, Rachel Hooton. We offer our sincere condolences to them all.

William H.R. White II '49

Bill died Sept. 29, 2019, in Shrewsbury, N.J., just a few miles from Red Bank, where he was born and spent his entire professional career. An obstetrician and gynecologist, he spent more than 40 years in the area, ending up as chief of obstetrics at Riverview Hospital.

Bill came to Princeton from Red Bank High School and lived in the third entry of Hamilton for four years, with numerous roommates. He majored in chemistry and was a member of the crew, the Chemistry Club, and Cloister Inn.

After graduation he enrolled in Hahnemann Medical College. Following a stint in the Navy Medical Service Corps in Bainbridge, Md., he joined his brother Ensley for 40 years in their medical practice of obstetrics and gynecology in Red Bank.

Bill moved several times, but never far from Red Bank. He enjoyed fishing and crabbing on the Navesink River and was an accomplished and talented carver of waterfowl decoys.

Bill is survived by his wife of 63 years, Dorothy; children Pamela Siderewicz, William H.R. White III, Robert, and Dwight; and six grandchildren. We offer our condolences to all of them.

THE CLASS OF 1951

Clinton Gilbert Jr. '51

Clint was born March 10, 1930, in New York City to Clinton and Elizabeth Gilbert. His

father was a member of the Class of 1921. His mother lived to be 104.

Clint came to us from Phillips Exeter Academy. At Princeton he majored in modern languages and was active in lacrosse, JV football, ROTC, and Tiger Inn. He roomed with Ed de Coningh, Bill Dwight, Don Mathey, Gerry Mayer, Neil McConnell, Ralph Peters, and Don Scott.

After graduation Clint was an artillery officer for two years in the 82nd Airborne Division. From 1958 to 1995 he was portfolio manager and later a management VP at Scudder, Stevens and Clark in New York City.

Clint was a resident of Dorset, Vt., when he died Nov. 30, 2018. He was predeceased by his first wife, Ann Norton Gilbert, the mother of his children; and by his second wife, Jane Treman Paton Gilbert. Clint was survived by his children Clinton, Cornelia, Ann, Nina Pedersen, and Geoffrey; and stepson Townley Paton. Donations in his memory can be made to the Gilbert Concert Series at Phillips Exeter or to the Maple Street School in Manchester Center, Vt.

THE CLASS OF 1953

Gordon Woodward Daiger '53 Gordon was born in Washington, D.C., and spent his whole life in that area except for brief excursions to Princeton and Japan.

At Princeton he joined Cottage Club, rowed crew for four years, majored in history, and wrote a thesis on the North Atlantic Treaty Organization.

In Japan he served as a commissioned officer in the Navy. Returning to the Washington area after brief service with the Hanover Bank in New York, Gordon became an operations officer with the CIA's Clandestine Service.

Having earned a law degree by studying at night at George Washington University Law School, Gordon then moved to the Justice Department as a civil-trial attorney dealing with what he called "the litigation aftermath" of the "tensions and upheavals" of the late 1960s and early 1970s.

He wrote for a class yearbook that "neither my clients nor the positions I advocate are popular with the ACLU, but I find the work consistently challenging and interesting." Gordon was at the forefront in developing case law addressing state-secret concerns and defended a number of complex and sensitive cases involving state-security issues.

He died Nov. 16, 2019, and is survived by two sons and three grandchildren.

Samuel William Gelfman '53
Born in Brooklyn, Sam grew up in New Jersey and came to Princeton from Grover Cleveland

High School in Caldwell, N.J.

After flunking out and spending time in the Army in Korea, Sam returned to Princeton, where he joined Tiger Inn, played 150-pound football, and was captain in his senior year. He majored in architecture and wrote a senior thesis on "Alaskan Building."

Somehow all of that led to a career in show business. Sam went to New York and went to work for a talent agency, which led him into off-Broadway theater that led somehow to Hollywood. In 1974 he was producer for *Caged Heat,* about women in prison. He was a producer and actor for *Cannonball* and *Born to Kill.* Later he moved to Los Angeles, where he established the Australian Film Office and helped promote releases of films like *Newsfront, My Brilliant Career, Gallipoli, The Last Wave,* and *Mad Max.* At various times Sam also represented Joseph Heller, Philip Roth, Ring Lardner Jr., Bernard Malamud, George Plimpton, and many others.

Sam died Aug. 15, 2019, of heart and respiratory disease at UCLA Hospital in Westwood, Calif. He is survived by his former wife, Jane Gelfman; three children; and three grandchildren.

Charles Templeton Kellogg '53 When his city, Waterbury, Conn., went into receivership and verged on bankruptcy, Chuck Kellogg was named to an oversight committee and before long the city was running a surplus. A local colleague praised his leadership skills and called him "the ultimate reasonable man."

Chuck grew up in Waterbury and left home to go to Westminster School in Simsbury, Conn., and then to Princeton, where he joined Colonial Club and wrote a thesis on "The Hartford Convention and the War of 1812." He took part in ROTC and served in the Army in Germany before coming back to the New York area to earn an MBA at Columbia.

Returning to Waterbury, Chuck represented the fifth generation of his family to join a small chemical-distribution company, serving eventually as chairman and CEO before handing the chairmanship to his daughter a year ago.

Active in a variety of community affairs, Chuck served on the governor's committee on polluted industrial sites and as mentor in a Waterbury school for students who had never had a responsible male adult in their lives. He served also on the board of directors of Waterbury Hospital, several regional banks, the Waterbury Chamber of Commerce, the Connecticut Junior Republic, and the United Way of Greater Waterbury.

He had a special passion for running and completed 10 marathons, including the Boston Marathon five times.

Chuck died Nov. 23, 2019, in Waterbury. He is survived by his wife, Martha; four children including Molly '87; and seven grandchildren.

Barry Coon Phelps '53 Life for Barry Coon Phelps was a roller coaster both personally and professionally. After he was married and divorced three times, his fourth marriage left him a widower in his 60s.

In business, Barry started his own company to finance other companies that sometimes succeeded.

Born in Detroit, Barry came to Princeton from Phillips Academy. He joined Tiger Inn, majored in English, and wrote his thesis on "William Faulkner and the American Negro." He also worked for Opinion Research Corp. and Blakeley Laundry Co. and was campus representative for Pan American World Airways.

After two years with the Marines, Barry graduated from Harvard Law School and the University of Michigan Business School. After two years in Chicago in investment banking, Barry formed his own company specializing in venture-capital situations. In the 50th-reunion yearbook, Barry reported that he had been "very affluent and very broke — several times each," and that he had no desire to retire.

Barry died Dec. 1, 2019. He is survived by six children.

THE CLASS OF 1954

Philip H. Griggs '54
Phil, a loyal, lifelong Princeton Tiger, died Nov. 12, 2019.

He prepared for Princeton at Kingswood (Conn.) Academy, majored in civil engineering, and was a member of Terrace Club.

In 1956 he earned a master's degree in civil engineering at Rutgers University, and he became a licensed professional engineer in 1962. As president of Topper & Griggs he designed and fabricated the steel for many buildings in the Canton, Conn., area, including the Stilts Building, a Hartford landmark. He was active in the American Society of Civil Engineers, where he led a group focused on enhancing earthquake standards.

He was a dedicated member of the Canton Lions Club, a deacon in the church, and a volunteer for numerous other organizations. A longtime firefighter with the North Canton Volunteer Fire Association, he produced its "Little Red Phone Book" — a fundraiser for the Fire Association and later for the Lions. A passionate skier and lifetime member of the National Ski Patrol, he patrolled at Canton

Ski Hill and Ski Sundown for more than 60 years. His legacy as a ski and toboggan instructor continues through the generations he mentored.

Phil was predeceased by his wife, Cynthia, in 2014. He is survived by his children, Alisa, Carolyn, Edward, and Andrew; nine grandchildren; and one great-granddaughter.

David R. Tomb '54

Dave died Oct. 31, 2019, after a decade-long battle with Parkinson's disease.

He prepared at Keith School in Indiana, Pa., and the Lawrenceville School. At Princeton he majored in the Woodrow Wilson School and wrote his senior thesis on Hawaii statehood, which was still being debated at the time and was granted only in 1959. He was a member of Quadrangle Club and participated in 150-pound crew.

After serving as a first lieutenant in the Army from 1954 to 1956, he earned a law degree from the University of Pennsylvania. Dave practiced law in Indiana from 1960 until his retirement in 2015, and he served as a director, legal counsel, and corporate secretary of First Commonwealth Financial Corp. from its formation in 1982 until 2011.

An avid golfer, Dave could be found walking 18 holes at Indiana Country Club well into his 80s. He is remembered for his wisdom, selfless generosity, and steadfast love.

He is survived by his wife of 51 years, Kathleen; eight children; and 12 grandchildren. He was preceded in death by his sister, Elizabeth C. Tomb; and an infant grandson.

THE CLASS OF 1957

Edwin L. Bryan '57

A busier but more caring life than Ned Bryan's would be hard to imagine. He was born in Japan, the son of a Presbyterian missionary. The family left in 1939, settling in Bessemer, Ala., where Ned became president of his high school student body.

At Princeton, he was president of Cloister Inn and a member of the Chapel Choir, the Undergraduate Council, Inter-Club Council, and Westminster Foundation. He managed the Express-Reunion Agency and the Parking Squad senior year. His senior-year roommates were Hal Bahls, Karn Griffen, Gordy Huff, Ralph Quere, John Robinson, and John Weinberg.

After the University of Pennsylvania Medical School and residency, Ned was chief medical officer at a women's prison in West Virginia, then a cardiology fellow.

There followed private practice in Greensboro, N.C., from which he retired in 2001, continuing as an expert medical witness for appeals of Social Security disability cases, president of medical societies and hospital medical boards, and financial supporter and leader of local charities.

He was a founder of an insurance plan that became part of United Health and an elder of his Presbyterian church, where he sang baritone in the chancel choir.

Ned died Nov. 29, 2019, at home, of cancer of his tongue. He is survived by his wife, Joan, whom he met in high school and married in 1958; three children; and two grandchildren. "He loved everyone he knew at Princeton," Joan said.

THE CLASS OF 1958

Charles R. Luger Jr. '58

Charlie died Sept. 4, 2019, in Sarasota, Fla., after a short illness. He was 83.

He came to Princeton from Pen-Day School in Kansas City, where he participated in tennis, baseball, and dramatics and was on the staff of the yearbook.

At Princeton, he was in the chemical engineering department, a member of Key and Seal, and on the squash and tennis teams. He roomed with Irv Hockaday, Chuck Singleton, Arch Edwards, Charlie Talbot, Russ Riggs, and Al Burgess.

Charlie married Martha Kassenbaum shortly after graduation and then entered the Navy for four years. Thereafter he worked for his entire career for Phillips Petroleum in Bartlesville, Okla. When he retired in 1999, he and Martha split their time between Bartlesville and Sarasota, Fla.

Charlie loved working with his hands. He was an avid gardener; played tennis, golf, and skied; and built two boats and several automobiles.

Charlie is survived by Martha, their sons Charles III and David, and grandchildren Anna and Benjamin. The class extends its deepest sympathy to them all.

THE CLASS OF 1964

Joseph Sessa '64

Joe died Aug. 29, 2019, from complications of Parkinson's disease. Joe followed his father, Anthony Sessa '29, to Princeton, coming from Poly Prep Country Day School in Brooklyn, N.Y., where he had earned honors playing football and lacrosse.

At Princeton, Joe majored in economics, played lacrosse, and ate at Elm Club. After graduation, Joe went to Naval Officer Candidate School and served with distinction aboard the USS *Ticonderoga*. He then earned a law degree from Stanford in 1967. Joe's legal career spanned three decades, and he retired in 1997 as general counsel of Reckitt & Colman.

In 1968 Joe married Alice, and they raised two daughters in Chappaqua, N.Y. After an early retirement, they moved to Scottsdale, Ariz., where Joe focused on his golf game. Following Alice's death in 2003, he married Dale Engelson and moved to California. They lived happily in both Beverly Hills and Palm Springs, where he focused on his family, travel, golf, and a renewed love of bridge.

Joe is survived by his wife, Dale; daughters Kristina '92 and Andrea; brother Anthony '68; four grandsons; and two stepchildren. A charming, smart, loving gentleman, Joe is dearly missed by both family and friends.

THE CLASS OF 1970

Robert R. Cullinane '70

The beloved poet laureate of our class died Nov. 11, 2019 — the Armistice Day so important to his hero, Woodrow Wilson 1879 — from complications of lymphatic cancer. He was interred in Princeton Cemetery.

Robert came to us from St. John's College High School in Washington, D.C. While there, through his journalist father Leo, he met Wilson's widow, Edith, who befriended the enthused young scholar and persuaded him to apply to Princeton. He majored, of course, in history, exploring his passion with his thesis, "Woodrow Wilson as President of Princeton," written under the exacting care of renowned Wilson scholar Arthur S. Link.

After earning a master's degree at Virginia, Robert employed his literary and historical talents at the Woodrow Wilson Center, the National Archives, the National Trust for Historic Preservation, the Smithsonian, and for the Librarian of Congress James Billington '50. He was an associate trustee of the Wilson Presidential Library.

Twenty years ago Robert returned to Princeton as a writer for the development office; he formalized for the University the poetic tasks he had long been performing for the class. Among his assignments were the inscriptions for historical markers throughout the campus, in Latin, English, Irish ... whatever. Thus his thoughts live on in bronze, brass, granite, and limestone.

Robert is survived by his four brothers, Leo, Anthony, Eugene, and Michael; their spouses, including his close friend Ardith Cullinane; and their children and grandchildren. A memorial service in Princeton will be scheduled for the spring.

When his classmates miss Robert or feel their own mortality, they make their way to the Class of 1970 Plaza on Washington Road overlooking the Woodrow Wilson School, and recall our time together in his inscribed words: "In a Season of Unrest/Amid the Crossfires of the Left and Right/We Found Here/In Gothic Halls and in

the Goodness of Friends/The Keep of Reason/ And the Steadying Bond of Community."

GRADUATE ALUMNI

Howard K. Rae *50

Howard Rae, a retired vice president of Atomic Energy of Canada Limited, died Aug. 28, 2019, at age 94.

Born in 1925 in Quebec, Canada, Rae graduated with a bachelor's degree in 1948 from McGill University in Montreal and earned a Ph.D. in chemical engineering from Princeton in 1950.

That year he began working at the Chalk River Nuclear Laboratories, conducting research in reactor development. He then became vice president of radiation application and isotopes for Atomic Energy of Canada Limited.

During his 39-year career he received many awards for his contributions to the nuclear industry, including the Century of Achievement Award in Chemical Engineering. He retired in 1989 and moved with his wife, Mavis, to their dream home on the Ottawa River, where they pursued gardening, sailing, and skiing, as well as traveling the world together.

Rae was predeceased by Mavis, his wife of 59 years. He is survived by three children, four grandchildren, and two great-grandchildren.

John T. Tate *50

John Tate, winner of the world's top prizes in mathematics and regental professor emeritus at the University of Texas at Austin, died Oct. 16, 2019, at age 94.

Tate graduated from Harvard in 1946 and earned a Ph.D. in mathematics from Princeton in 1950. He went on to teach at Princeton, Columbia, Harvard, and Texas.

He received the 2010 Abel Prize in mathematics. When the committee of the Norwegian Academy of Science and Letters awarded him the Abel Prize, it stated, "Many of the major lines of research in algebraic number theory and arithmetic geometry are only possible because of the incisive contributions and illuminating insights of John Tate."

Tate also received the prestigious Wolf Prize in 2002 and was a member of the National Academy of Sciences. His involvement in sophisticated mathematics led to several concepts bearing his name: the Tate module, the Tate curve, the Tate conjecture, and others.

He is survived by his wife, Carol P. MacPherson, whom he married in 1988; three daughters from his first marriage to Karen Artin; six grandchildren; and one great-grandson.

Jason D. McManus *58

Jason McManus, the former editor-in-chief of Time Inc., died Sept. 19, 2019, at the age of 85.

McManus graduated in 1956 with a degree in philosophy and religion from Davidson College. In 1958, he earned an MPA degree from Princeton's Woodrow Wilson School. He then was awarded a Rhodes scholarship and studied at Oxford University.

In 1957 he had worked as a summer intern at Time Inc., and he joined *Time* magazine in 1959 as a writer. He later was its first Common Market bureau chief in Paris. In 1964 he returned to New York, and as world editor directed coverage of the Vietnam War. As national editor, he oversaw reporting on the Watergate scandal.

In 1985 McManus became managing editor of *Time* and in 1987 he succeeded Henry Grunwald to become the fourth editor-in-chief of Time Inc., overseeing its 24 magazines. In 1990 the company merged with Warner Communications to become Time Warner Inc. He retired in 1994.

He is survived by his wife, Deborah, whom he married in 1973; three children; and one granddaughter. Two former wives, Patricia Gold and Jill McManus, also survive. McManus was a Princeton University alumni trustee from 1989 to 1993.

Clifford J. Parker *70

Clifford Parker, who served in the Executive Office of the President under four U.S. presidents, died at home Aug. 9, 2019. He was 81.

Parker graduated from Cornell College in Iowa in 1959. While a graduate student at the University of Minnesota, he accepted an offer to join the White House staff in 1960 under President Dwight Eisenhower. He remained under presidents Kennedy, Johnson, and briefly under President Nixon with Donald Rumsfeld '54 as head of the Office of Economic Opportunity.

From 1969 to 1970, he held an Institute of Public Affairs fellowship as a visiting student at Princeton's Woodrow Wilson School. He returned to Washington to work at the Department of Transportation before joining the Environmental Protection Agency and finishing his career in the Department of Commerce. In 1980, he was awarded the Presidential Meritorious Executive Rank Award.

Parker believed that government could make a positive difference in people's lives. In retirement, he became a master gardener and volunteer at the U.S. Botanic Garden. In 2003, he and his wife, Tina, moved to Fort Myers South, where he remained an avid gardener and received his second master gardener certification for Florida.

Parker is survived by his wife, Tina; and his four children.

Thomas J. McCormick *71

Thomas McCormick, professor emeritus of art at Wheaton College, died peacefully at home April 2, 2019. He was 93.

He was a medic in the Army from 1944 to 1946 in the European Theater. After seeing the grand buildings and monuments of Europe, he was inspired to become an art historian. Raised in Syracuse, N.Y., McCormick earned a bachelor's degree in 1949 and then a master's degree from Syracuse University. In 1953, he received an MFA degree in art from Princeton. He completed his Princeton Ph.D. in art in 1971.

McCormick's first position was at the Virginia Museum of Fine Arts. His career included teaching at Vassar College, where he was also director of the art gallery; Williams College; the University of Vermont, where he was also director of the Fleming Museum; and Smith College.

At Wheaton, McCormick was chair of the art department and, at times, the Wright-Shippee Professor of Art and the A. Howard Meneely Professor. He was best known for his work and publications on Charles-Louis Clérisseau, a French architect and artist who influenced Thomas Jefferson. He lectured internationally.

He is survived by his wife of 62 years, Margaret; two daughters, including Martha Notaras '82; and three grandchildren including Charlotte Notaras '19.

Anthony C. Janetos *80

Anthony Janetos, professor and chair of the Earth and Environment Department at Boston University, died Aug. 6, 2019, of pancreatic cancer. He was 64.

Janetos graduated from Harvard in 1976 and earned a Ph.D. in biology in 1980 from Princeton. He worked for many years with the EPA and NASA. He examined the impact of humans on the natural world through air pollution, starting at the EPA and its acid-rain program.

This led to work on climate change, landscape dynamics, and remote sensing, which included eight years as a manager and team leader with NASA, founding its land-cover and land-use change program. During the next 15 years, he was an international leader in climate-change science, science policy, and global environmental assessments. He advised the U.N. and others and was the director of the Joint Global Change Research Institute of the University of Maryland.

In 2013, Janetos became the director of Boston University's Pardee Center for the Study of the Longer-Range Future and professor in the College of Arts and Sciences. University President Bob Brown wrote that "in only a few short years with us, he had an enormous impact."

Janetos is survived by his wife, Valerie; and two children.

Graduate memorials are prepared by the APGA.

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The Duel Doctor In Weehawken

By Harrison Blackman '17

On July 11, 1804, as Alexander Hamilton and Aaron Burr 1772 stood across from each other on a ledge in Weehawken, N.J., Dr. David Hosack 1789 waited below, on the shore of the Hudson River. Though Hosack was present at Hamilton's request, dueling was still illegal, so the doctor had to profess ignorance of the duel or risk prosecution.

When he heard the shots, and moments later, the cries for help, Hosack raced up the ledge and found Hamilton on the ground. Burr's bullet had shattered one of Hamilton's ribs, tore through his liver and diaphragm, and splintered a vertebra; under Hosack's care, Hamilton died 31 hours later. But Hosack's involvement in the most infamous duel in American history overshadowed his role as a leading American physician and botanical pioneer.

A New York native, Hosack attended Columbia College until 1788, when an angry mob, apparently disturbed by the medical profession's practice of robbing graves for instructional cadavers — and, in particular, the sight of a medical student waving a cadaver's severed arm out a window — stormed one of the college's laboratories. In the chaos, a rock struck Hosack in the head. In search of a calmer atmosphere, Hosack transferred to the College of New Jersey.

After graduating, and then completing his medical doctorate at the University of Pennsylvania in 1791, Hosack traveled to the University of Edinburgh to learn from leading medical practitioners. There, he also became impressed with European advances in botany. Returning in 1794, Hosack established a prominent medical practice in New York, eventually befriending Hamilton.

In 1801, Hosack founded the Elgin Botanic Garden in what became midtown Manhattan. The first botanical garden in the United States, it occupied 20 acres and contained 1,500 species of American plants and 1,000 minerals from England. Hosack's institution served as a valuable, if fleeting, scientific resource for the young republic.

By 1810, Hosack could no longer afford to maintain Elgin. He sold the gardens to the state of New York, which later gave the property to Columbia; the gardens were thereafter abandoned. In 1929, Columbia leased the land to John D. Rockefeller Jr. for the construction of Rockefeller Center. Radio City Music Hall was built on the former site of Hosack's conservatory.

Disturbed by the sight of a medical student waving a cadaver's severed arm out a window, a mob stormed one of the college's libraries.

With the collapse of his botanical dream, Hosack's collections required a new home. In 1818, Hosack donated his mineral collection to the College of New Jersey, providing an early foundation for the geology department. A rock in the head had sent him to Old Nassau; this time he sent Princeton a cabinet of rocks.

Daniel Hertzberg

Amy Solomon ’14 grew up idolizing Gilda Radner and performing sketch comedy in Chicago. At Princeton, she joined the Quipfire! improv troupe, co-created the All-Nighter late-night talk show, and interned at “The Colbert Report.” “People don’t always think of Princeton and comedy, but going there afforded me all of these unbelievable comedy opportunities.” After moving to Hollywood, she’s now a co-producer on the HBO show, “Barry.”

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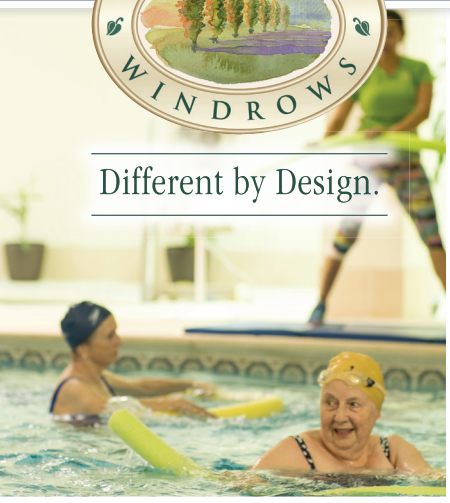

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