



Princeton Alumni Weekly

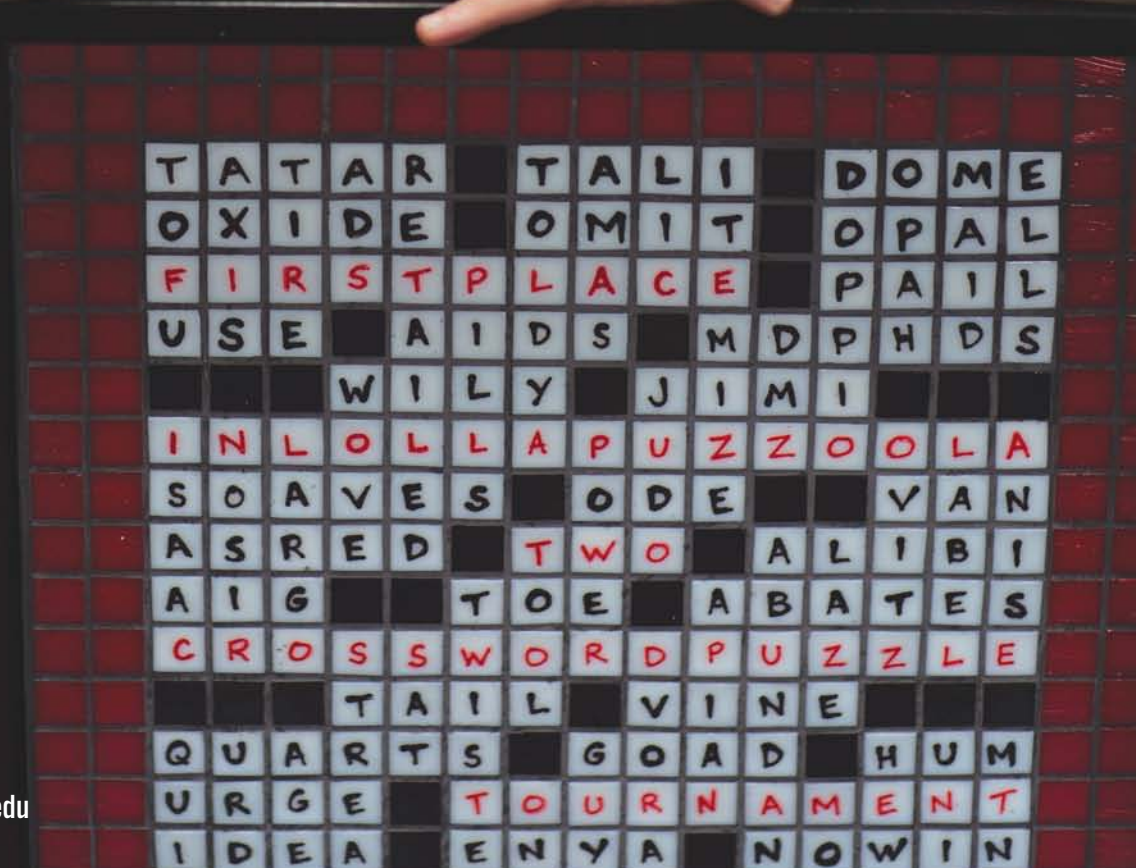
Science and art come together

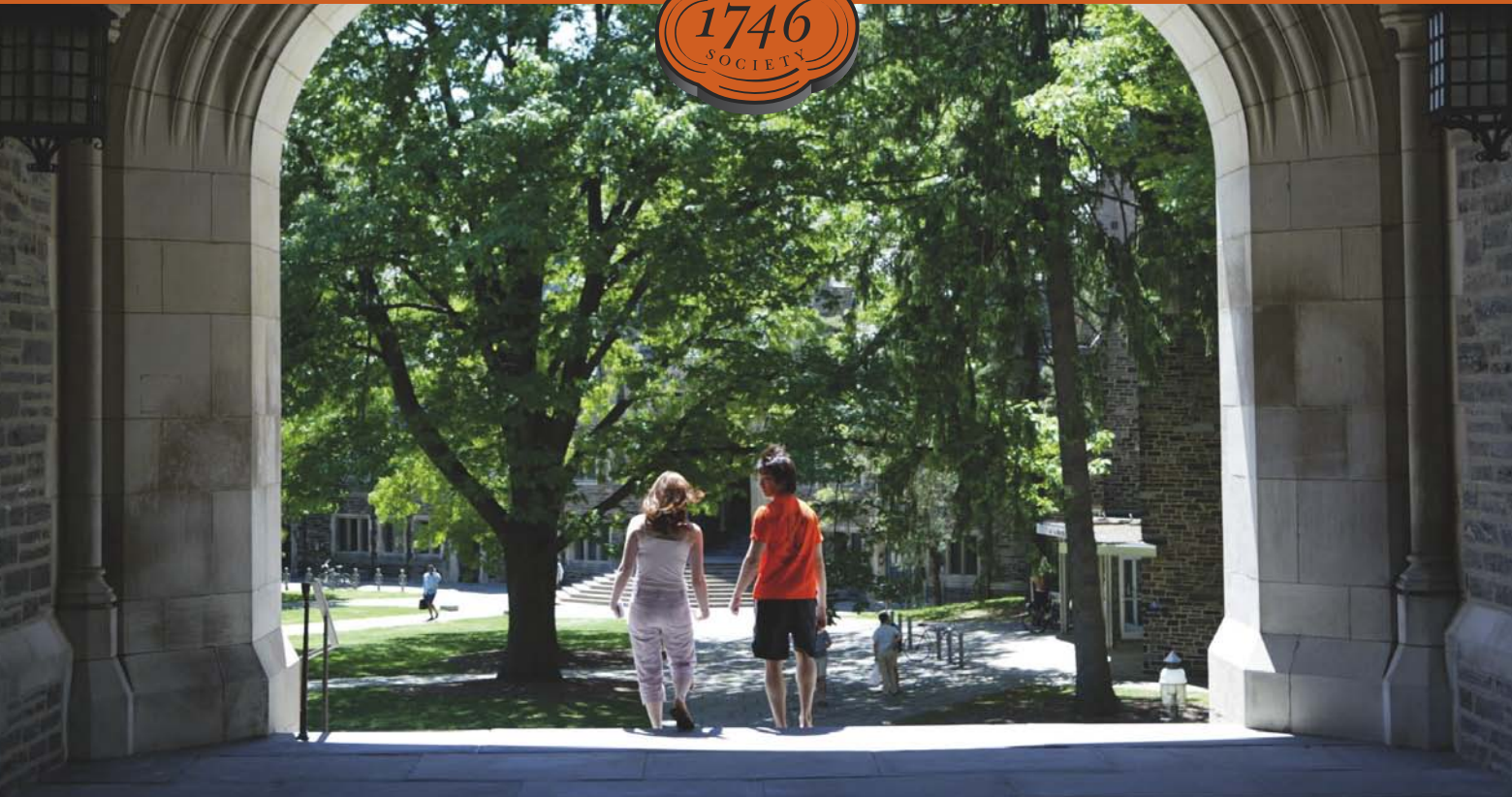
Anne-Marie Slaughter '80 to become emerita

The war in Iraq: What was accomplished?

THE FASTEST OF THEM ALL

DAN FEYER '99,
KING OF CROSSWORDS





Welcome to 1746

Welcome to a long tradition of visionary people who have made Princeton one of the top universities in the world.

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Princeton University also gratefully acknowledges Society members who passed away in 2012, as well as those not previously enrolled from whom a bequest was received: giving.princeton.edu/1746-society





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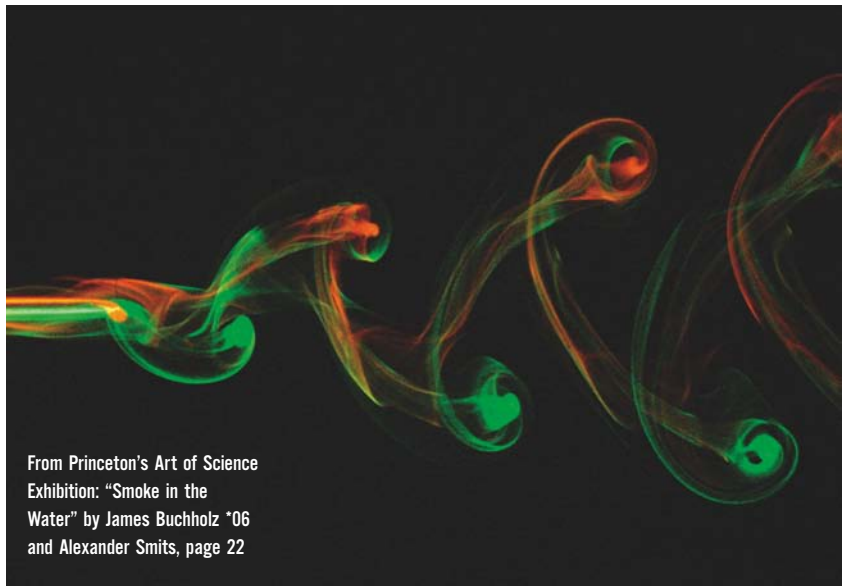
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ON THE COVER: Crossword wizard Dan Feyer '99 holds a crossword mosaic that was his prize in a 2009 competition. Photograph by Michael Falco/Black Star.



COURTESY ART OF SCIENCE/PRINCETON UNIVERSITY

Four down 18

Dan Feyer '99 is the fastest in the land — when it comes to completing crossword puzzles, that is. PAW visits the American Crossword Puzzle Tournament, where Feyer won his fourth consecutive title.

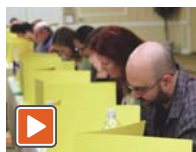
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A museum exhibition with Princeton roots highlights the visual beauty in the world of science.

By Vivienne Chen '14

What's new @ PAW ONLINE



SOLVERS IN ACTION

Watch video highlights of Princetonians at the American Crossword Puzzle Tournament.



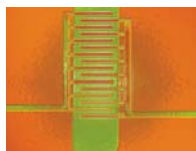
PAW ARCHIVE

Read Stella Daily Zawistowski '00's essay about the crossword competition.



A SCENE IN MOTION

View time-lapse video of this issue's Final Scene near Robertson Hall.



SCIENCE AS ART

Browse more selections from the Art of Science photo exhibition.



Gregg Lange '70's Rally 'Round the Cannon

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Download a PDF of the April 24 issue.



PRINCETON UNIVERSITY ART OF SCIENCE COMPETITION/PRINCETON UNIVERSITY

The Cold Wind of Sequestration

Even as winter loosens its grip, Princeton is bracing for the chilling effects of sequestration—the major across-the-board cuts, chiefly affecting federal discretionary spending, that took effect March 1. A device designed to force much-needed agreement on federal deficit reduction measures has now become a bludgeon, subjecting both civilian and defense programs to indiscriminate reductions of roughly one trillion dollars over the next 10 years. Not only does this approach unfairly target areas of spending that constitute only a third or so of the federal budget, it also fails to differentiate between programs we can reasonably curtail or eliminate and those that are essential to our nation's future. Among the latter are investments in higher education and fundamental research. I say this not because I lead a university, but because these investments immeasurably strengthened America's social and economic fabric in the second half of the 20th century and, to a large extent, will determine whether we continue to prosper under the far more competitive conditions of the 21st.

Hunter Rawlings '70, president of the Association of American Universities, put it well when he testified on Capitol Hill in February. "These investments produce the educated people and the ideas that lead to new products, new businesses, and entire new industries, as well as to the jobs that go with them. . . . More than half of economic growth since World War II has resulted from technological advances, almost none of which would have been possible without federally funded innovations." In other words, there are many paths to deficit reduction, but hobbling a major engine of economic progress is not one of them.

I wish I could say that Princeton's private status and robust endowment will insulate us from sequestration's consequences, to say nothing of what *The New York Times* has aptly described as a "perpetual cycle of deadline-driven short-term fiscal policy" in Washington. But though we stand on firmer ground than our nation's public research universities, already reeling from reductions in state support, we are not immune to the 5.1 percent cut in civilian discretionary spending that took effect March 1, or even the cut in defense spending, given the research support we receive from the Department of Defense. As I write, the precise impact of sequestration on our University community remains uncertain, and bullets dodged this fiscal year or next may well be unavoidable later. Suffice it to say that our exposure is substantial. Even in the realm of undergraduate financial aid, where Princeton is far less dependent on federal funds than other colleges and universities, our students are supported by \$4.7 million in Pell, Supplemental Educational Opportunity, and Work Study Grants.

Sponsored research is another story, however, with federal funds accounting for 84 percent of the grant expenditures we received last year—all told, \$161.5 million from major players such as the National Science Foundation and National Institutes of Health and small but indispensable sources of support such as the National Endowment for the Humanities. Funded activities are as varied as the scholarly interests of our faculty and students. Last year, for example, 1,007 projects were sustained in whole or in part by federal funds—



The Princeton Plasma Physics Laboratory, located on the Forrestal Campus, is one of 10 National Laboratories operated by the Department of Energy.

everything from the acceleration of chemical reactions on which major pharmaceutical discoveries are predicated, to the study of the intricate workings of the brain, to the publication of the papers of Thomas Jefferson, to the acquisition of Near Eastern languages by both undergraduates and graduate students at a time when this competency is critical to the effective pursuit of international relations. Still another component of federal support takes the form of pre- and post-doctoral training grants, a vital means of preparing young scientists and engineers to assume a leadership role in their respective fields.

The single largest enterprise sustained by federal dollars—representing an additional \$81.5 million—is the Department of Energy-sponsored and University-managed Princeton Plasma Physics Laboratory. Its contributions to fusion research and the quest for clean, safe, and abundant energy are as far-reaching as they are important, and the further erosion of its funding base threatens not only jobs and recent progress in this field but also a unique body of skills and knowledge built up over many decades. I am grateful to the laboratory's leaders and federal officials for doing their utmost to mitigate the effects of sequestration and other budgetary stringencies.

Any reduction in federal funding, including possible "clawbacks" from existing grants, will be widely felt, at an individual, departmental, and institutional level. Multi-year research projects cannot be conducted in fits and starts or even scaled up and down without compromising their integrity and disrupting the careers of those engaged in them; indeed, the pursuit of new knowledge requires precisely the kind of stable, predictable funding environment that hyperpartisanship precludes. My colleagues and I are making every effort to persuade our elected representatives to safeguard the crucial investments I have described, but the current climate in Washington—in which short-term political advantage is frequently pursued at the expense of long-term national wellbeing—merits the concern of all Americans.

Jim Tjebkman

Inbox

“I welcome the news about Princeton’s redemptive plans to explore ways to assist gifted, economically disadvantaged students achieve admission and, importantly, an eventual degree.”

— *MacKnight Black '50*

Help for low-income students

What a pleasant surprise to see President Tilghman becoming involved in such mundane education topics (“Tilghman to lead a study of barriers faced by low-income students,” *Campus Notebook*, and President’s Page, Feb. 6). For Princeton has ignored the 2002–12 K–12 education-reform movement even though Old Nassau, year after year, cherry-picks the majorities of her freshman classes from America’s public high schools.

Similarly, Princeton has not warmed to proposals for the use of standardized tests to determine student-achievement accountability at colleges and universities. The nexus of several arguments against such testing becomes entangled with the University’s senior-thesis requirement that certainly has stood the test of time in New Jersey. Many of the suggestions for post-secondary education reform were not made with Princeton in mind. The greatest problem facing higher education (but not Princeton) is public resistance to ever-increasing college costs, combined with a growing awareness that four-year graduating students too often lack the knowledge and academic skills to sat-

isfy the needs of the professional job market. Some standardized tests should help less-selective institutions.

President Tilghman mentions “culturally constrained aspirations” as one of the powerful “barriers to access” for low-income students. That brings to mind Daniel P. Moynihan’s 1965 research report emphasizing that educational achievement correlates with the presence of both a mother and an employed father in the child’s household.

I welcome the news about Princeton’s redemptive plans to explore ways to assist gifted, economically disadvantaged students achieve admission and, importantly, an eventual degree. I look forward to the recommendations of the committee.

MACKNIGHT BLACK '50
Oakton, Va.

Tuition and the endowment

In the March 6 *Campus Notebook* section, PAW reported that endowment income “is expected to contribute \$752 million to the budget,” which is “47.6 percent of the projected income,” and also that the budget for 2013–14 is \$1.5

billion. But you fail to provide us with the facts as to how much endowment income there is — if all endowment income would be used to pay for operating expenses, how much more would be left for tuition, Annual Giving, etc., to cover. Normally, in personal and business life, income from investments is used to cover operating expenses, and it is a luxury to use it for reinvestment. My guess is that more endowment income could be used to actually reduce tuition.

NICK ANGELL '54
Garrison, N.Y.

I found the recent issue of more than passing interest, not least the story about rising attendance costs, especially tuition (*Campus Notebook*, March 6).

In the early summer of 1957, as an accepted engineering-student applicant, I received a 21-page booklet from Princeton. Sent to help the applicants and their families in their financial planning, it was titled “Expenses, Scholarships, Tuition Loans, and Student Employment.” It listed certain yearly costs as follows: tuition, \$1,100; room rent, \$205 (average); books, \$85. Total annual costs were listed as \$2,350. I still have the booklet; thinking of my own young grandchildren, it is sobering to consider what lies ahead for them, whatever path they choose for higher education, as current costs now total not far from \$60,000 a year.

The importance of Annual Giving and endowment performance loom large nowadays, not least against a backdrop such as these numbers suggest.
ALEXANDER M. WILLIAMSON '61 *62
Alpharetta, Ga.

Catching up @ PAW ONLINE





Listen to Princeton history, 10 minutes at a time

With each issue, Gregg Lange '70 — pundit of *Princetoniana* and P-rade emcee — chronicles a new chapter of University history at PAW Online. His Rally 'Round the Cannon column also is available as a podcast on iTunes.

To listen to the latest episode and browse archived podcasts from the last two years, follow the link at paw.princeton.edu or search for Princeton Alumni Weekly in the iTunes Store.



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Letters should not exceed 275 words, and may be edited for length, accuracy, clarity, and civility. Due to space limitations, we are unable to publish all letters received in the print magazine. Letters, articles, photos, and comments submitted to PAW may be published in print, electronic, or other forms.



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Pondering wealth, service

Given the fact that the increasing unequal distribution of wealth is threatening our nation at its very core, I am not sure how reassuring I find it that Princeton's best and brightest are going to work at Goldman Sachs and will tutor disadvantaged minority youth in their spare time (Alumni Scene, March 20). Is this simply an oxymoron or the 21st century's version of "Princeton in the nation's service," or both?

TOM SINGER '64

San Francisco, Calif.

A different Princeton

Perhaps Princeton changed between 1895 and 1905. What I know of my maternal grandfather, Linsly R. Williams 1895, doesn't jibe with Joyce Carol Oates' description of 1905 (Campus Notebook, March 6). According to my grandmother, her husband was so poor when he attended Princeton that he had only one pair of trousers. When it was being cleaned, he stood around wrapped in a blanket. Following graduation, he became a physician and devoted most of his life to matters of public health. His specialty was tuberculosis.

In an obituary written by Andrew Imbrie, the class secretary, Dr. Williams is credited with prolonging "the lives of untold thousands." Near the conclusion, Mr. Imbrie writes: "His classmates pay honor to the memory of one in whose great public service they take pride ..."

ROGER DERBY '54

Oak Ridge, Tenn.

Would they be admitted now?

In reading over the biographies/remembrances of the Princetonians who left us in 2012 ("Lives lived and lost," Feb. 6), one cannot help but wonder whether or not they would be admitted to the freshman class today. Were they all super-achievers at age 18?

I appreciate that some were graduate students. Same question.

WILLIAM C. MCCOY '45

Chagrin Falls, Ohio

Veterans at Princeton



Veterans in Princeton, from the 1956 Bric-a-Brac.

Recent writers to PAW have expressed a concern for the minuscule number of veterans on campus (letters, Feb. 6). With a commitment from the University, the assistance of the admission office, and regional schools committees, double-digit increases could be achieved. Federal funding is available for many of these veterans that could make a Princeton education a reality.

In 1954, I chaired the 72-member Veterans in Princeton group. We met on a regular basis to ease the transition from military life to life as college freshmen, and as necessary with the University staff to change *in loco parentis* rules as they unnecessarily applied to veterans. Mandatory chapel was eliminated, automobile passes were issued where appropriate, and veterans were allowed to join eating clubs as freshmen. The University created a veterans-affairs committee that could resolve problems and assist individual veterans. I was fortunate to have a committee member search for and obtain federal funds for research that allowed me to complete my senior thesis.

I would like a new generation of veterans to have the same opportunities that I had as a Korean War veteran at Princeton.

LOU LAGOMARSINO '56

Pfc. USMC (retired)

Scottsdale, Ariz.

From the Archives

I can shed some light on the March 6 From the Archives photo. About 20 protesters in Alexander Hall hung their banner at a speech by then-Secretary of Defense Frank Carlucci '52, who was

on campus to receive the Woodrow Wilson Award in 1988. As a member of the University Press Club, I covered the speech for *The Times* of Trenton. Here is an excerpt from my article:



“The protesters hung signs from the balcony of the auditorium where Carlucci spoke and handed out literature describing his involvement with the CIA in Europe and Africa. ‘We feel that his connections to the CIA as a foreign-service officer made him at least knowledgeable if not in some way involved in some illegal and definitely immoral acts,’ said Elliott Young, a junior at Princeton and co-organizer of the protest. At the beginning of his speech, Carlucci noticed the banners, some of which read ‘CIA Equals Assassination’ and ‘Why Honor Covert Action?’ I am proud to have served and to be serving in government organizations which make it possible for them to be here and to demonstrate,’ said Carlucci.”

Thanks for allowing me the opportunity to share this. Responding to a From the Archives photo, if nothing else, makes me feel like a quite elderly Princeton alum!
BRETT GOODMAN '90
North Caldwell, N.J.

Editor's note: Elliott Young '89 also wrote in, noting that the protest had been organized by the Students for Social Responsibility.

For the record

Information in a chart in the March 20 Campus Notebook section reporting on the career choices of the Class of 2012 was based on a PAW analysis of data from the Office of Career Services' 2011–12 annual report; some job categories were renamed. The number of graduates hired by Teach for America was provided by the organization.

Each story, letter, and memorial at paw.princeton.edu offers a chance to comment

FROM THE EDITOR

In March, Susan Patton '77 created a firestorm with her letter, published in *The Prince*, advising the “women of Princeton”: Seek a Princeton mate early in your college career, because never again will you find so many intelligent and worthy men, and the pool gets smaller each year (page 6). PAW asked a few undergraduate women to weigh in.

Vivienne Chen '14 noted the “incredible feminism and activism on this campus aimed at dealing with more pressing issues than what men women should marry, such as promoting a brand of feminism that is inclusive of race, class, gender identities ... and sexual orientation, all of which Patton’s letter sorely lacked.”

If Patton “believes that female Princeton undergraduates will never again be surrounded by this many brilliant, eligible, successful men, in a situation where the numbers are skewed in our favor, she has never seen Silicon Valley,” asserted Amy Zhou '13, a computer science student.

Erin McDonough '14 was more sympathetic: After all, women can find many smart men of their own age on campus, and there are fewer opportunities to meet potential mates elsewhere. But she rejected as outdated Patton’s assumptions that most men prefer younger women and beauty over brains.

Princeton women, like Princeton men, take varied paths to happiness. So perhaps the best advice comes from another alumna, Lisa Belkin '82, writing in *The Huffington Post*: “Focus, as everyone in any college anywhere should, on who you are and what you want and who you’d like to share it all with. Then forge ahead with the first two in the hopes that the last part will follow. There is a rich and fulfilling life waiting outside the school gates. Seize it.”

— Marilyn H. Marks *86

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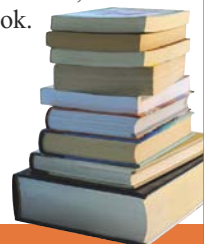
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New housing option: Arts, civic-interest 'collectives'

Princeton's growing menu of housing options will become even longer in the fall, when Whitman and Mathey colleges will offer "collective-living" programs for students with shared interests in the arts and humanities and in community service. At the same time, all the

residential colleges will offer gender-neutral housing to sophomores and upperclassmen.

"We are six years into the four-year college system," said Rebecca Graves-Bayazitoglu, the dean of Whitman College. While freshmen will continue to be assigned randomly to a residential college, she said, "we were really looking at new ways to do things."

Mathey's proposal for an arts collective drew a large wave of interest, with more than 50 applications for 20 spots on the third floor of Edwards Hall.

Kathleen Crown, Mathey College's director of studies, said that 29 were accepted, with some students to be housed on Edwards' fourth floor. Whitman received nine applications for its community-service collective, with four students ultimately joining to live on the third floor of Fisher Hall.

Joaquin Garcia '16, a member of Whitman's civic-engagement community, said the Whitman College proposal received fewer applications because "the application seemed to ask a lot of us," including a résumé of com-

munity-service activities and several essay questions. Graves-Bayazitoglu said the pilot program was planned to accommodate student interest regardless of size.

Each of the collectives is expected to offer group trips and mentorship opportunities with a faculty fellow and resident graduate students. But students said that what mattered most to them was the chance to live next to people who shared their interests.

"I like the idea of trips to New York, but I'm most excited to know I can knock on the door of my neighbor and find a friend who will be willing to read a page of my work, or share what they're passionate about," said Natasha Japanwala '14, a Mathey collective member interested in creative writing. "It feels like this is what I came to Princeton for."

Ryohei Ozaki '14, another member of the Mathey collective, said he hoped that the group would not be "something closed off, like another exclusive student group on campus." While the

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TOP OF THE NEWS

Alumna's advice: Marry a Princeton man!

The University got national attention at the end of March — though not necessarily the kind it wanted. A letter by Susan Patton '77 offering advice on marriage to Princeton's female undergraduates set off a media frenzy with scores of articles, outraged tweets, and network TV coverage.

In a letter published by *The Daily Princetonian* March 29, Patton wrote: "Here's what nobody is telling you: Find a husband on campus before you graduate. ... You will never again be surrounded by this concentration of men who are worthy of you."

Nina Bahadur '12, writing in *The Huffington Post*, said she was "dumbfounded" by the letter: "In what universe is the majority of a graduating college class ready to get married?" Others called the advice "elitist," "retro," and "cringe-worthy," though some said they thought Patton had a point.

Despite the outpouring (which crashed the *Prince* website), Patton — the mother of two sons, a Princeton student and a recent graduate — has no regrets. "I was stunned by the reaction, but delighted that it has sparked a necessary dialogue," she told PAW. "Young women are now talking about the components of a happy and fulfilled life other than career." *By J.A.*

“In what universe is the majority of a graduating college class ready to get married?” — *Nina Bahadur '12*

Angling to join a full class? Try this app

Zach Koerbel '16 and Jeremy Cohen '16 couldn't get into the precept they preferred for a computer science course. "I would check the registrar's site a dozen times a day to see if a spot had opened up," Koerbel said. So they wrote a program that alerted them when a space became available — and now any student can use it by visiting the student-run TigerApps website.

Using the free Web application, named Princeton Pounce, students registered to receive an email or text notification when slots in 50 courses and precepts became available. *By J.A.*



TALAJI/ISTOCKPHOTO.COM



group's first project will be to renovate the basement of Edwards into the collective's common area, he said he hopes it will become a community café that welcomes other students.

Kristin Wilson '14 said she wants the Whitman collective to focus less on programs and lectures and more on bringing local service projects to campus, such as connecting with the immigrant community in Princeton.

Wilson, who translates English into French for Haitian staff members in

the residential colleges, said she hopes the collective will offer "a different perspective on what it means to live a civically engaged life."

Also next fall, gender-neutral housing will be available in some rooms in the residential colleges. The option was introduced in the Spelman dorms in 2009 and expanded to dorms for upper-classmen a year ago. In gender-neutral housing, each student has a single bedroom, but students can share conjoined bathrooms or common rooms.

"I think expanding to the sophomores is a crucial step forward," said Emily VanderLinden '13, who last year led a petition drive that collected more than 1,000 signatures by the Princeton Equality Project to expand mixed-gender housing. Gay and transgender students benefit the most from flexibility in dorm options, students said.

"My experience with same-gender housing before was OK," said LGBT peer educator Richard Gadsden '13, who lives with a female friend, "but I often felt like the only thing I had in common with my roommates was our gender. I wanted to live with someone who shared more interests with me."

Anxieties relating to heterosexual couples using the option have yet to dissipate completely. Tony Cheng '14 lives in a Spelman dorm where two of his opposite-sex roommates ended a romantic relationship over the summer and yet continue to live in their suite in their respective singles. He said another straight couple live downstairs.

While Cheng had some initial concerns, he said the only disagreements have come over noise, study, and sleep, which is "normal for any college suite." *By Vivienne Chen '14*

ILLUSTRATION: STEVEN VEICH; PHOTO: MARIANNE NELSON/PAW

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Slaughter '80 to leave University; will head public-policy think tank

Anne-Marie Slaughter '80 is leaving Princeton to become president of the New America Foundation, a nonpartisan public-policy think tank.

Slaughter, a politics professor and former dean of the Woodrow Wilson School who has become a leading voice in the debate over women's leadership and work/life balance, told PAW that the new position, announced April 3, will enable her "to keep writing and speaking about important issues in both foreign policy and social policy."

In a message to the Wilson School community, she explained, "It is time for me to move one step closer to putting ideas into action." The foundation has about 140 staff members and fellows and an annual budget of \$20 million.



"It is time for me to move one step closer to putting ideas into action."

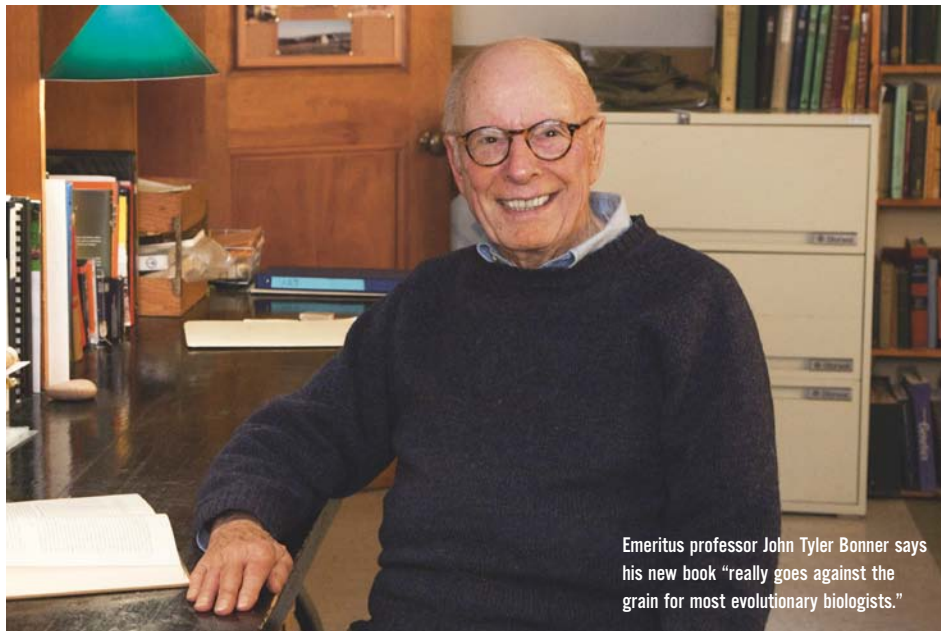
— Anne-Marie Slaughter '80

Slaughter said the position, which starts Sept. 1, will permit her to have a flexible work schedule, something she had deemed essential for working women in her much-discussed July 2012 *Atlantic* article, "Why Women Still Can't Have It All." She will work from the foundation's New York City office and spend "a couple of days a week" in its Washington, D.C., office, she said.

Slaughter joined Princeton's faculty in 2002, and took a leave from 2009 to 2011 to serve as director of policy planning for the State Department. She will become a professor emerita at the University.

"I am very sorry to leave Princeton," she said, "but it's time for a new adventure." *By J.A.*

SAMER A. KHAN



FYI: FINDINGS



Tweeting with a group of like-minded people on **TWITTER** means you are likely to use language the same way they do. That's the finding of postdoctoral research associate Sebastian Funk and scientists from Royal Holloway, University of London, who discovered that groups of people who form communities on Twitter use their own distinctive languages. The researchers observed that those with similar interests would misspell words the same way, so Justin Bieber fans were more likely to tweet the misspelling "pleasee." The study was published in *EPJ Data Science* in February.

When Darwin isn't the answer

Life on Earth varies enormously in size, from single-celled microorganisms to giant sequoias weighing 2 million pounds. Does evolution work the same way for the smallest life forms as it does for the largest? Biologists long have argued that it does. But a new book by John Tyler Bonner, *Randomness in Evolution* (Princeton University Press), makes a new claim: that tiny organisms often are shaped by completely random forces instead of by Darwinian natural selection.

Bonner, the George M. Moffett Professor of Biology emeritus, came to his conclusion by long experience studying the minute and strange organisms called slime molds, starting in his student days and continuing in his Guyot Hall lab until two years ago.

All organisms are subject to random mutations; evolution then selects for those mutations that are beneficial. But Bonner argues that randomness plays a powerful role in small organisms, including slime molds, because it instantly can produce viable results, so simple is the development of these organisms as they grow.


By contrast, bigger life forms undergo long, complex cellular development in the embryo, in which random mutations tend to wreak havoc by introducing fatal abnormalities. "Large size gives you a fantastic number of hurdles" that natural selection must overcome before producing a permanent effect on the species, Bonner says. Only the very

rare mutations will yield viable results.

It is largely random alterations, he argues, that account for the extraordinary diversity of small creatures. "There are 100,000 species of diatoms" — a type of one-celled algae — and not 100,000 species of elephants, he notes. That got him thinking that evolution may work differently based on size, he says.

Evolutionary biologists typically would argue that there are 100,000 types of diatoms because there is some competitive advantage to each of those types. But Bonner believes that "sometimes, every one of the mutations is equally successful in the struggle for existence," producing variety that owes nothing to Darwinian evolution. By contrast, he notes, his mainstream peers "say that never happens: There is always competition."

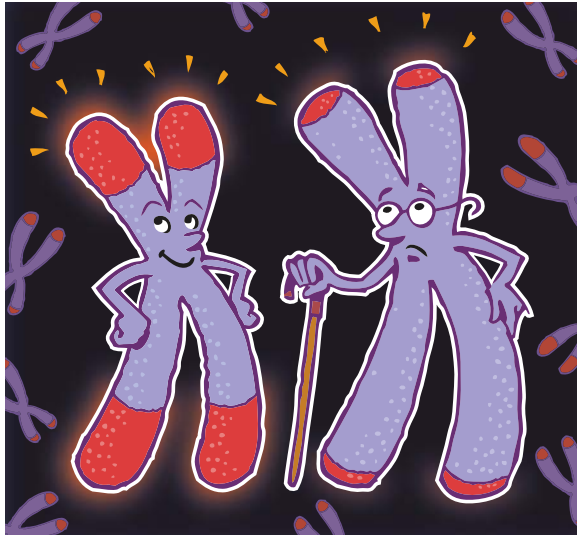
"Some will read it and think, 'Why didn't I think of this?'" Bonner predicts of his book. "Others will say, 'He's a radical.' Because this really goes against the grain for most evolutionary biologists, who think selection works exactly the same way for small and large." Even good friends "are furious with me," he says.

Emeritus professor of zoology Peter Grant says that by challenging evolutionary biologists to justify invoking natural selection to account for the diversity of form among microorganisms, Bonner's book is "controversial, but valuable at the same time." 
By W. Barksdale Maynard '88

In a paper titled "Don't Come Home, America: The Case Against Retrenchment" in the winter 2012–13 issue of the journal *International Security*, Professor of Politics and International Affairs G. John Ikenberry and co-authors Stephen G. Brooks and William C. Wohlforth ask whether the United States ought to withdraw from its prominent role as arbiter of world disputes, reversing course after 65 years of top **GLOBAL LEADERSHIP**. "According to many of the most prominent security-studies scholars — and indeed most scholars who write on the future of U.S. grand strategy — the answer is an unambiguous yes," the authors note. But they urge continued involvement, saying that the benefits of leadership — including reducing the necessity for our allies to build huge military forces — outweigh the considerable financial costs.

By Jennifer Altmann and
W. Barksdale Maynard '88

Pursuing a link to aging, cancer



ENDS AND BEGINNINGS
Human chromosomes are linear, and each end has a special structure called a telomere — think of it as a shoelace aglet that prevents fraying and unraveling. Telomeres are made of repeating sequences of DNA at both ends of a chromosome. Every time a cell divides, the telomere DNA gets a little bit shorter. Essentially, the telomere DNA is sacrificed to

prevent important DNA sequences necessary for life from being lost.

THE SHORT AND LONG OF IT Because telomeres shorten as a cell ages, telomeres of an older person generally are much shorter than those of someone young. But an enzyme called telomerase can add extra DNA repeats onto the telomeres, and thus can lengthen the shorter telomeres every time a cell divides.



Zakian

How this happens is one of the questions of the laboratory of Virginia Zakian, professor of molecular biology.

Zakian recently identified one way cells make sure only the shorter telomeres are lengthened. An enzyme called Pif1, which is able to remove proteins attached to DNA, does just that with telomerase — Pif1 associates with longer telomeres, kicking telomerase off longer telomeres but not shorter ones.

This in turn promotes telomerase lengthening of only the shorter telomeres. Lengthening the shorter telomeres inhibits the effects of aging by preventing cells from losing their telomeres completely, which causes cells to die.

The Zakian lab conducts experiments using budding yeast, the one-celled organism used to make wine, beer, and bread, but the same phenomenon also likely occurs in humans.

A CANCER CONNECTION The Pif1 enzyme was discovered in Zakian's laboratory in 1994. In humans, one of the roles of Pif1 is to help prevent cancer development.

The lab is working to understand whether the tumor-suppressor role of Pif1 is because of its role at telomeres. "There has been little analysis on the human enzyme, but we can study yeast in a test tube to determine how Pif1 functions," Zakian said.

There is great interest in understanding how telomeres are regulated within the body because they are significant in aging and in cancer. Recently, mutations in telomerase have been found in as many as 70 percent of melanoma patients. Cancer cells constantly are dividing; they need telomerase to add telomeres to chromosome ends to prevent the cancer cells from dying or becoming inactive.

"A continued wave of excitement about telomerase comes from its connection with cancer, but its effects seem even more profound in affecting life span through its role in stem cells," Zakian said. Some scientists think "everything is about telomeres," she said, "and really, in the end it may be." *By Anna Azvolinsky '09*

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Class of '78: Tell your story

Princeton Alumni Weekly will be interviewing members of the Class of 1978 for an oral history project at Reunions this year. Class members will have the opportunity to talk about memories of Princeton from their undergraduate days.

If you would like to participate, please contact PAW digital editor Brett Tomlinson at btomlins@princeton.edu or (609) 258-1160.

Down to a science: Required courses get a fresh approach

For years, undergraduates majoring in the humanities have been anxious about the University's two required courses in science and technology, each with a weekly three-hour lab. But a recent overhaul cut the lab requirement in half while making greater use of technology to ensure that students understand the material.

During a review of the science and technology courses in 2008, molecular biology professor Bonnie Bassler was surprised to find that many students were taking the minimum number of science classes.

"That was sad to us," she said: It "was really clear that these entry-level classes were not all doing their job to spark further interest in science."

History major Angela Shin '13 belongs to the second-to-last Princeton class that had the two-lab requirement. Shin said she enjoyed courses in psychology and molecular biology, but "having to take lab classes twice was definitely a big time sink, especially since I was much more interested in learning the concepts in class than practically applying them," she said.

Bassler concluded that one lab was enough to give students an appreciation of hands-on science. "Instead of having a second 'seeing how science is done' class, we could have classes that helped students understand how science influences their lives, no matter what their jobs are," she said. The reduction in the lab requirement took effect with the Class of 2015.

Princeton's distribution require-

ments compel undergraduates to take classes in nine fields, one of which is science and technology. Bassler's over-

haul resulted in a reimagining of existing courses, among them "Neuroscience and Everyday Life," "Structures and the Urban Environment," and "From DNA to Human Complexity." New non-lab courses have been introduced, including "The Environment: Science and Policy" and "Science and Global Security."

Two new science-teaching specialists were hired to help professors present information in ways that engage students and use interactive

techniques. In some courses, students may text questions to a graduate student who responds during the class.

In "From DNA to Human Complexity," which has 140 students, Bassler stops every few minutes to ask students to apply a concept to a particular situation, restate facts, or offer opinions. The students' responses, sent on their cellphones, help Bassler ensure that students understand the material and help shape the discussion, she said.

In "Climate: Past, Present, and Future," geosciences professors Michael Bender and Daniel Sigman pose questions on the material throughout class. After students answer on their computers, the correct reply and an explanation pop up. "If the majority of the people in the class got the answer wrong, they would go back and re-explain the concepts," explained Joan Cannon '15. "Any questions that I had about the key concepts were cleared up immediately." □

By Nora Taranto '13



“Entry-level classes were not all doing their job to spark further interest in science.”

— Professor Bonnie Bassler

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Passion for music spurs bequest to music groups



J. Mahlon Buck Jr. '46, an owner of the Philadelphia Phillies who had a lifelong interest in music, has given the University an endowment to support the Glee Club and University Orchestra. Buck died in 2011.

The University described the gift as a “generous bequest” but did not disclose the amount.

The endowment will fund domestic and international tours, production costs for performances, and an expansion of their library of scores. It also will provide support for the Sinfonia orchestra and the Chamber Choir.

“Dad loved all things Princetonian, but he was never happier and more connected to his alma mater than when he played music and sang with his close friends, many of whom he came to know as an undergraduate,” said his son, Jim Buck '81. “He credits the University with fueling his lifelong interest in music.”

Gabriel Crouch, a senior lecturer in music who oversees the Glee Club, said the donation would allow the club “to bring in more collaborative artists and commission a body of new choral music for the first time.” Most importantly, stu-



J. Mahlon “Jim” Buck '46, second from right, sang with fellow Nassoons, from left, Don Finnie '47, Ed Knetzger '46, and Al Burr '49 at the 1948 Class Day ceremony.

dents no longer will have to pay their own way to go on the club's international tours, which occur every two years, he said.

Buck, who helped build pharmaceutical-distribution businesses, lived in Haverford, Pa. As a student, he was a member of the Glee Club, Nassoons, and Triangle Club. **P** By J.A.

PHOTOS, FROM LEFT: COURTESY BUCK FAMILY; PRINCETON UNIVERSITY ARCHIVES

<p>Revealing the African Presence in Renaissance Europe</p> <p>THROUGH JUNE 9</p>	<p>Picturing Power Capitalism, Democracy, and American Portraiture</p> <p>THROUGH JUNE 30</p>	<p>1913 The Year of Modernism</p> <p>THROUGH JUNE 23</p>
<p>PRINCETON UNIVERSITY ART MUSEUM</p> <p>ALWAYS FREE AND OPEN TO THE PUBLIC artmuseum.princeton.edu</p> <p><small>Agnolo Bronzino, <i>Portrait of Duke Alessandro de' Medici</i> (detail), after 1553. Istituti museali della Soprintendenza Speciale per il Polo Museale Fiorentino, Galleria degli Uffizi, Florence; Daniel Huntington, <i>The Atlantic Cable Projectors</i> (detail), 1895. New York State Museum; Amedeo Modigliani, <i>Jean Cocteau</i> (detail), 1916-17. The Henry and Rose Pearlman Collection. Photo Bruce M. White.</small></p>		



ON THE CAMPUS



Ex-Princeton fellow's tale triggers postdoc debate among grad students

By Gregory Rosalsky GS

A former Princeton postdoc has sparked a soul-searching conversation among Ph.D. students with a blog post that criticizes the intensifying rat race for tenure-track faculty positions.

Ethan Perlstein, an evolutionary pharmacologist and until recently a Lewis-Sigler Fellow at the University, once clung to the dream of becoming a tenured professor, jumping through academic hoops and deferring the start of a family to make it a reality. But as he neared the end of his fellowship without an enticing college job offer, he decided he could not put his life on hold any longer with another postdoc position.

Perlstein now thinks he was naïve to believe he could sail into a tenured professorship simply by checking all of the academic boxes needed and apprenticing as a postdoc at top-tier universities.

"My 'postdocapocalypse now' post is a cautionary tale of expectations versus reality that I think is common among a

lot of academic trainees," Perlstein said, referring to his provocatively titled blog post that laments the increasing obstacles for life-science students in the chase for tenure.

Sarah Grady, a fourth-year Princeton Ph.D. student in molecular biology, also flirted with the idea of becoming a professor before ultimately realizing the tenure-track rigmarole was not for her. "I've seen countless friends and lab members go through the process of finding a postdoc, finding another postdoc, publishing as much as possible in a short time, and competing with hundreds of others for a single faculty position," she said.

"While I agree that academic postdocs can be a worthwhile experience for some, the combination of low pay, long hours, and little opportunity for professorships makes the rarefied air at a major university a little more difficult to breathe," Grady added.

Amir Roknabadi, a third-year Prince-

ton Ph.D. student in molecular biology from Iran, has read Perlstein's post and knows that he faces long odds. But Roknabadi can't shake the dream of becoming a professor, which he believes would afford him the freedom to pursue his intellectual passions as no other job can. Nevertheless, he looks down the road with some trepidation.

"There are too many Ph.D.s," Roknabadi said, and standing out in such a large group of impressive candidates requires not only hard work, noteworthy publications, and brilliance — but also plenty of luck.

A 2012 survey by the American Association for the Advancement of Science found that 56 percent of postdocs said they expected to get tenure-track spots, but only 21 percent ended up with one.

"The market is clearly not functioning properly because it seems to be more of a lottery, as opposed to a meritocracy," Perlstein said. "At the point where you've reached an assistant-professor search, you've got people who survived college, graduate school, and a postdoc — and sometimes multiple postdocs."

In the 2011–12 academic year, 53 percent of Princeton Ph.D. students in the natural sciences went on to become postdocs, according to University statistics. The figures were lower for other disciplines: 23 percent of doctoral-degree recipients in the social sciences, 15 percent of those in the humanities, and 24 percent of those in engineering reported taking postdoc positions.

Daniel Wright, a fourth-year Ph.D. student in environmental engineering who once yearned to become a professor, now is looking outside of academia. "You have the opportunity to get involved in bigger sorts of projects, potentially projects that involve many different people across many different disciplines," he said. "When I realized that, the other stuff just fell away."

That echoes the new attitude of Perlstein, who said he can have just as big an impact outside of academia, particularly by blogging and tweeting his ideas. "As I progressed toward a Ph.D., being a scientist meant being an academic," he said. "Now I see that science is a calling, but 'professor' is just a job title." ■

IN BRIEF

The University offered admission to 1,931 students, or 7.29 percent of the near-record 26,498 applicants for the Class of 2017 — the **LOWEST-EVER ADMISSION RATE** for Princeton. Thirty-six percent of the admitted students applied through early action; the rest learned of their acceptance March 28.

More than 10,600 applicants had a 4.0 GPA, and more than 13,800 had combined scores of 2,100 or higher on the three sections of the SAT. Of those admitted, 48.8 percent identified themselves as students of color, including biracial and multiracial students. Men make up 50.2 percent; women, 49.8 percent. International students are 11.4 percent of those admitted. The University estimated that 60 percent of the incoming freshman class would receive financial aid. Children of alumni make up 9.7 percent of the admitted students, compared with 9.5 percent a year ago.

At Princeton's peer institutions, the lowest admission rates this year were reported by Stanford at 5.7 percent,

Harvard at 5.8 percent, and Yale at 6.7 percent. The final admission rate for Princeton's Class of 2016 was 7.85 percent.

The faculty voted to change the **ACADEMIC CALENDAR** by starting Thanksgiving break a day earlier, on the Wednesday before the holiday. The fall semester will begin on the second Wednesday of September, instead of the second Thursday. The change takes effect this fall.


CHEN GUANGCHENG, a blind, self-taught lawyer who has spent decades working to expose human-rights violations in China, received the American Whig-Clivosophic Society's James Madison Award, its highest honor, March 28. He said that activists within China are fighting to end human-rights abuses, but the international community must do more.

IN MEMORIAM RABBI JIM DIAMOND, the executive director of Princeton's Center for Jewish Life from 1995 to 2003, was



killed March 28 in Princeton when a speeding car sent a parked auto into a third car, which Diamond was entering. He died at the scene. Diamond, 74,

was ordained by the Jewish Theological Seminary of America and earned a Ph.D. in comparative literature from Indiana University. He taught classes in Judaic studies and Hebrew literature at Princeton and, before that, at Washington University in St. Louis, where he directed the Hillel organization. The author of numerous books, he was working on a translation of the works of Nobel-winning writer S.Y. Agnon when he died.

In a statement, the Center for Jewish Life noted that Diamond, a Conservative rabbi, was "admired by students and faculty for his kindness, his teaching, and his efforts to bring different Jewish denominations together." Several hundred people attended his funeral in Princeton. 

MARILYN SILVERSTEIN/COURTESY NEW JERSEY JEWISH NEWS

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Ashleigh Johnson '16 relishes her role as goalie, despite the pressure.

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For Johnson '16, a record-setting start as goalie for water polo

A player in her first collegiate game can be tentative, but that certainly wasn't the case for Ashleigh Johnson '16. In her inaugural game as the goalie for the women's water polo team, Johnson blocked 19 shots, setting a program record for saves in a single game.

That Feb. 8 game, against No. 4-ranked California, ended in a 7-5 loss for Princeton, but it was a spectacular debut for Johnson, a 6-foot-1 Miami native. The next day, Johnson showed that her first performance was no fluke, making seven saves in each of the team's three games to help the Tigers go 3-1 at the Princeton Invitational Tournament. Johnson was named the division's Defensive Player of the Week, Rookie of the Week, and Player of the Week, the

first player ever to sweep the awards.

"She just makes it look easy in terms of her physical strength and her leg strength and her quickness left-to-right," head coach Luis Nicolao said. "She's very smart in the water. She has a good feel for the game."

Johnson has been a goalie since elementary school, when her parents introduced her and her four siblings to water polo. She began playing for the Gulliver Riptides, a club team in Miami, when she was 12. Although Miami is not known for water polo, Johnson made frequent trips to California, the water polo capital of the country, with her club and with the U.S. Youth National Team.

Several California colleges known

for sending water polo players to the Olympics were interested in Johnson, but she chose Princeton because she wanted to focus on academics as much as sports, she said. "I can still enjoy my life" at Princeton, Johnson said. "I have a choice here."

The Tigers are fresh off their first-ever NCAA tournament appearance in 2012, when they started the season ranked 20th but defeated several tough opponents to finish in the top 10. This year, the No. 11 Tigers were 17-5 as of March 31. At the Aztec Invitational in San Diego March 16 and 17, they scored wins over No. 13 Cal State Northridge and No. 16 UC-Davis. Johnson continued to perform well, with eight saves in the UC-Davis game. She relishes her role as goalie, despite the pressure.

"I like the feeling after you block," Johnson said. "I feel that everything you do in goal, you can see an immediate reward." **P** *By Stephen Wood '15*

BEVERLY SCHAEFER



EXTRA POINT



Women's basketball falls in fourth NCAA bid

By Brett Tomlinson

Five years ago, when women's basketball was a middling Ivy League team, an NCAA Tournament win would have seemed like a long shot. The Princeton women had never even *played* in the tournament. For the last four seasons, though, it was well within the realm of possibility. The Class of 2013 — Niveen Rasheed, Lauren Polansky, Megan Bowen, and Kate Miller — redefined the program's expectations, almost from the moment they stepped onto the practice court.

All four seniors were in the starting lineup for their final chance at a post-season win March 24, when No. 9 seed Princeton faced No. 8 seed Florida State in Waco, Texas. But the Seminoles stymied the Tigers' offense, handing Princeton its fourth first-round defeat.

While Princeton never looked intimidated, executing a complicated set of defensive schemes to contain one of the country's most explosive offenses, the Tigers struggled mightily to put the ball in the basket, making just over 20 percent of their first-half shots. Even when they cut the Seminoles' lead to one point midway through the second



half, Florida State appeared to be in command — and proved it, scoring 16 of the next 18 points in a 60–44 win. “We never really played well enough to feel we were over the hump,” head coach Courtney Banghart said.

In the last four years, Princeton has beaten several of the upper-tier programs (including Southern California, Villanova, and Rutgers), dominated the Ivies (a 54–2 record in league games), and briefly appeared in the AP Top 25.

Even with the loss of Rasheed, arguably the best women's basketball player the Ivy League has ever seen, the Tigers seem to be in good hands, with top reserves Blake Dietrick '15, Mariah Smith '15, Michelle Miller '16, and Alex Wheatley '16 poised to step into starting roles. “This program is not taking a downturn at all,” Rasheed said after the Florida State game. “We're reloading every year.”

But in the short term, that was little consolation for the seniors — or for Banghart. Former players knew the coach would take the loss hard, and they reached out from all corners of the world, expressing their pride in the program. When you get those calls and messages, Banghart said, “you know you're doing something right.”

Brett Tomlinson is PAW's digital editor and writes frequently about sports.

SPORTS SHORTS

MEN'S AND WOMEN'S FENCING won its first combined national title in program



Eliza Stone '13, a national champion in saber

history, beating 24 other teams at the NCAA Championships in San Antonio March 21–24. All six of Princeton's competing women earned All-Ameri-

can honors, led by Eliza Stone '13, who won the individual NCAA championship in saber. Jonathan Yergler '13 and Susannah Scanlan '14 also reached the individual finals in men's

and women's epee, respectively.

Lisa Boyce '14 finished 13th in the 100-yard freestyle at the **WOMEN'S SWIMMING** NCAA Championships March 23, setting an Ivy League record. **MEN'S SWIMMING** finished in the top 30 at the NAAs in the 400-yard medley relay and the 400-yard freestyle relay March 28–30.

WOMEN'S LACROSSE finished March with victories over No. 12 Johns Hopkins and No. 11 Cornell. The Tigers were 3–0 in the Ivy League and tied for first with Penn and Dartmouth.

With a 3–0 victory over St. Francis March 28, **MEN'S VOLLEYBALL** clinched a spot in the four-team EIVA playoffs.

Schreiber '14 stands out in lacrosse

When Chris Bates was named the men's lacrosse coach in 2009, his predecessor Bill Tierney had some advice: Make a high school junior named Tom Schreiber your first priority.

Tierney, who left for a coaching job at the University of Denver, already had secured a commitment to attend Princeton from Schreiber, a midfielder at St. Anthony's High School on Long Island and one of the top recruits in the country. Such was Schreiber's promise, Tierney wrote in an email, that he "was one of the factors that might have made me stay at Princeton."

The day after Bates was introduced as Princeton's coach, he drove to Schreiber's house to spend the afternoon with the young player and his



father, Doug, himself a member of the Lacrosse Hall of Fame. During the visit, Bates "was drawing up plays on the coffee table," said Tom Schreiber '14, who liked what he saw and kept his promise to attend Princeton.

The results have been terrific for the squad. Schreiber led the team in goals and assists in each of his first two sea-

sons and was the Ivy League Rookie of the Year in 2011. He currently is "the dominant midfielder in the country," said Tierney, scoring 17 goals and 16 assists as of March 30 to lead Princeton to a 6-2 record. The Tigers were the Ivy League champions last year and should be in the running for the title this season. **P** *By David Marcus '92*

MICHAEL SONNENFELD

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Jacob N. Shapiro, on the anniversary of the Iraq war

“Enabling civilian cooperation with government authorities is critical and maybe as important as actually killing and capturing bad guys.”

Jacob N. Shapiro, an assistant professor of politics and international affairs, co-founded Princeton's Empirical Studies of Conflict Project. His work focuses on terrorism and political violence, aid, and security policy, subjects he began to contemplate between 1998 and 2002, while serving as a surface-warfare officer in the Navy and helping to enforce U.N. resolutions in the Persian Gulf. He spoke to PAW in March, shortly after the 10th anniversary of the beginning of the war in Iraq.



What did we accomplish in our 10 years in Iraq?

I think it's very hard to judge the war a success. The net outcome of it has been massive opportunity costs, not just in terms of the lives destroyed among U.S. citizens and contractors and soldiers who worked over there, but also in terms of things that weren't done because the government was focused on fighting the war in Iraq. The strategic gain, as far as I can tell, is fairly negligible, in the sense that you've probably reduced the incentives for Iran to cooperate with the West by removing a major enemy of theirs. Objectively, there's been no gain in terms of increased access to natural resources or increased leverage over potential foes in the region.

If you think about the conflict in Afghanistan, the opportunity costs of diverting planning resources, soldiers, and intelligence resources from Afghanistan are just massive. Imagine a world in which you don't invade Iraq, and don't — in mid- or early 2002 — begin moving intelligence assets out of Afghanistan: Maybe you don't have a resurgent Taliban, maybe you pick up the trail of Osama Bin Laden five, 10 years earlier than we did. You don't have seven or eight years of the promises of justice going unmet and the effect that has on the national psyche and our politics. When you start to spin out the scenarios of what could have been done with those resources, the world looks like a very different place.

What lessons from Iraq might be applicable in other places?

I think there are two lessons we shouldn't learn and three

that we should. The two lessons we shouldn't learn are that all interventions will turn out the way this one did, and we shouldn't leave with the sense that militarily, things can be turned around solely by U.S. action. There's a narrative about what happened in 2006–07 that says it was the change in what the U.S. was doing that was critical. That's wrong. There was a fortuitous coincidence between changes the U.S. was making and local political changes.

The three things we should learn: One is that enabling civilian cooperation with government authorities is critical and maybe as important as actually killing and capturing bad guys.

The second is that in the context of contingency operations like this, where you're doing aid projects, we should keep them small and secure and make them things that will provide value only if the government that we're trying to support remains in power, because then they create strong incentives for people to cooperate and become part of the governing coalition.

The last thing is that sometimes protecting people from their own government is the key to getting them to cooperate. A big and relatively untold part of what U.S. forces did in Iraq in 2007 was protecting Sunni units that had switched from the insurgency to cooperate against the insurgency from the Shia-dominated Iraqi army. They could cooperate because they were protected by the presence of U.S. soldiers. You have to maintain that long enough that the potential violence between them and the government goes down.

Are there lessons for us at home?

The big thing to highlight is just the striking failure in the runup to the war of our political discourse, of media and the political opposition. One interpretation of events is that for about 12 months you had a concerted campaign of slinging falsehoods and poorly thought-out arguments in favor of an action that was not well planned. And the political system didn't stop it. The media fell down, the political system fell down, and frankly the process within the government proved that it wasn't as robust as we would like. ■

— Interview conducted and condensed by Merrell Noden '78

D FOUR W N

At the American
Crossword Puzzle
Tournament, there
is no match for
Dan Feyer '99

By Mark F. Bernstein '83

WATCH:

Video highlights of
Princetonians at the
American Crossword
Puzzle Tournament
@ paw.princeton.edu

“The nice thing about doing a crossword puzzle is, you know there’s a solution.”

— Stephen Sondheim

SORRY, MR. SONDEHEIM, but that is small comfort. I may know that the name of the second-longest river in Belgium contains five letters, but that doesn’t mean I can figure out what they are. (I’ll spare you from running to Google: It’s the Meuse.) When it comes to crosswords, most of us spend hours staring at the blank boxes of the Sunday *New York Times* puzzle, drumming a pencil tip on the kitchen table. What’s a seven-letter word meaning “hung up on”? Try: stumped.

The 572 contestants at the 36th annual American Crossword Puzzle Tournament feel differently. The tournament, held in early March at the Brooklyn (N.Y.) Marriott, is the largest crossword competition in the world, indeed the largest puzzle tournament of any kind. More than a dozen Princetonians were among the 572 competitors, with three finishing among the top six in the toughest “A” division. And for the fourth year in a row, Dan Feyer '99 walked off with the \$5,000 first prize, putting yet another trophy on a shelf that already is groaning with them.

Want to feel bad? Feyer can whip through the Monday *Times* puzzle, traditionally the easiest, in about 90 seconds, and has been known to knock out the Saturday puzzle, the hardest, in less than three and a half minutes. (Although the celebrated Sunday puzzle is the biggest of the week, it is not the hardest.) That is barely enough time to get warmed up, so Feyer does three other puzzles daily (usually ones in *The Los Angeles Times*, *The Christian Science Monitor*, and *Newsday*), and more on the weekends, and matches his times against other top solvers on his blog, dandoesnotblog.blogspot.com.

Even that does not a champion make, so Feyer does another dozen or more crossword puzzles every day, just to stay sharp, and estimates that he has solved at least 40,000 in the six and a half years since he started doing them seriously. He thinks that he has close to 50,000 unsolved puzzles on his computer, many of which aren’t worth doing because they are too easy. His job as pianist and music director for theater productions provides him with lots of down time, but he says he sometimes finishes 10 puzzles on his tablet just on the half-hour subway ride to work. He prefers solving online because he can type faster than he can scribble; working on his tablet also shaves off seconds because the clue usually is highlighted when the cursor moves over the answer blocks, so he does not have to hunt for it. “Being able to immediately spot the desired clue is a key aspect of speed-solving technique,” he explains. “You have to look for clues 100 times or so in a normal puzzle, so any time not thinking or writing



Wearing noise-canceling headphones, Dan Feyer '99 finishes his puzzle to win the national crossword competition in March.

adds up!” When he works on paper, he favors a mechanical pencil; and, yes, he sometimes uses the eraser.

Although Feyer did the odd Sunday crossword in college, solving did not become an obsession until he saw *Wordplay*, a 2006 documentary about the tournament. Stella Daily Zawistowski '00, this year's fifth-place finisher, started doing crosswords at Campus Club as a way to avoid working on her junior papers. (Now a copywriter for a pharmaceutical firm, she wrote about the 2003 tournament for PAW. See “War of Words,” April 23, 2003.) Kiran Kedlaya '97, who finished sixth, got hooked as a graduate student. When he discovered that the tournament was being held relatively nearby in Stamford, Conn., he entered on a whim and has been competing on and off ever since.

Many crossword aficionados have mathematical or musical backgrounds, which does not surprise Kedlaya, now a mathematics professor at UC-San Diego. “Crossword puzzles do test knowledge,” he says, “but they also test your ability to combine strings of letters in an unexpected way, and a lot of mathematics is about the ability to combine things in unexpected ways.” Feyer has said that the same part of his brain that helps him sight-read music helps him to see how words will fit into a puzzle grid. After winning his first American Crossword Puzzle Tournament in 2010, he told *The New York Times* that as he begins to fill in a grid, he starts to recognize what the words will be based on just a few letters, without even looking at the clues.



Above, Feyer in the spotlight after his fourth consecutive victory; opposite: sixth-place finisher Kiran Kedlaya '97 at the puzzle table; fifth-place finisher Stella Daily Zawistowski '00, holding her trophy, stands with puzzle co-announcer Ophira Eisenberg of NPR.

THE FIRST CROSSWORD PUZZLE, diamond-shaped and without the internal black boxes, was published in the *New York World* on Dec. 21, 1913. Other newspapers followed, and the puzzles soon became a national obsession. The *Times*, characteristically, was slow to follow the crowd; it did not run its first Sunday puzzle until 1942 (publisher Arthur Hays Sulzberger thought it would give readers something to do during World War II air-raid blackouts), and daily puzzles did not appear until 1950.

Today, tens of thousands of crossword puzzles are produced each year in all shapes, sizes, and themes, but the ones in the *Times* remain, like the Gray Lady herself, the puzzles of record. Bill Clinton does them religiously. So do — or did — Ken Burns, Jon Stewart, Jude Law, Leonard Bernstein, Beverly Sills, and Moss Hart. Norman Mailer once described his morning puzzle ritual as “how I comb my brain.” (Sondheim, however, dismisses the *Times* puzzle as “a mechanical test of tirelessly esoteric knowledge ... sending you either to *Webster's New International* or to sleep,” and prefers a more difficult form known as a cryptic crossword.)

What makes crosswords so addictive? Bob Klahn '66, who bills himself as “The Universe’s Toughest Clue Writer,” directs the CrosSynergy Syndicate, which provides daily crossword puzzles to *The Washington Post* and many other papers, books, and websites. He believes puzzles are popular for many reasons, providing a challenge, a diversion, an escape, and a sense of accomplishment (or, depending on your skill level, frustration).

Despite the common belief that doing crosswords sharpens

mental acuity (the oft-cited assertion that it can help stave off Alzheimer’s, though, is just a myth), the talents that make a good solver don’t necessarily transfer to other types of puzzles. Feyer admits that he is not particularly good at Scrabble, which calls on a very different skill set. Zawistowski says she is “terrible” at Sudoku. One would think that crossword mavens would also be trivia buffs, but that is not always the case. While some *Jeopardy!* contestants prep by poring over the *World Almanac*, crossword addicts might know the capital of Mauritania (Nouakchott) because they have seen it before in clues.

WILL SHORTZ, the *Times*’ legendary crossword editor, organized the first American Crossword Puzzle Tournament in 1987 and has run it ever since. Contestants this year ranged in age from 17 to 86 and came from as far away as Hawaii and Great Britain. They were divided evenly between men and women. About 40 percent said this was their first tournament, but another 20 percent had competed there at least 10 times. Tom Weisswange '94, a high school math teacher, is a 19-year veteran, while Jenni Levy '82, a hospice medical director, had attended only once before.

Zawistowski, back for her 13th tournament, had her game face on. “If I don’t make any mistakes, I have a chance to finish in the top 10,” she reasoned before the first puzzle. “If I hurry, I’ll make mistakes and I’ll have no chance.” Not everyone, however, was gunning for the top. Kelly Ann Smith '95, a software engineer, said that her goal was just to finish all seven puzzles. “I’m really good compared to most people,” she said. “Here, I’m a ‘C.’”



Competitive pressures do not keep the tournament from being a social event. David Hodes '63 attended with his daughter, Laura Hodes Dove '92. Mike Molyneux '76 took the train down from Boston with four friends and caught up with others he sees once a year. The tournament, he says, "is a reunion." Levy, who recalls doing puzzles as a little girl with her mother and grandmother, echoes that sentiment. "It's wonderful to find a community," she says. "And they have the best puzzles!" Speaking of communities, Juli Robbins Greenwald '83, a B-level contestant who also has competed in several amateur bodybuilding tournaments, sees odd similarities between the two: Both provide "a peek into a weird, bizarre subculture."

Subculture, indeed. The Marriott ballroom was filled with people attired in puzzle hats, scarves, shirts, jackets, and umbrellas. One woman was dressed in crosswords print from head to foot: cap, pajamas, and slippers. A man wore a replica Mel Ott baseball jersey (Ott's name — three letters, starting with a vowel — is a favorite among puzzle constructors). Out in the lobby, vendors hawked crossword mugs, books, pens, pencil sharpeners, and websites — even a novel about crosswords.

Regardless of experience or skill level, all contestants did the same seven puzzles, six on Saturday and one on Sunday morning. Scores were based on the time it took to finish, with deductions for wrong answers and unanswered clues. Puzzle creators are rock stars to this crowd. When Shortz announced that a puzzle had been designed by Patrick Blindauer, a self-described "crossword fiend," the contestants let out a collective groan. One woman got up, turned in her

blank answer sheet, and announced that she was going upstairs to take a shower.

That puzzle also stumped Smith, who started but could not finish. It did not faze Feyer, whose pencil never seemed to leave his sheet and who finished in about as long as it took him to write down all the letters. During breaks, while other competitors relaxed or socialized in the lobby, Feyer sat in his back-row seat and did ... more puzzles, to keep himself in the groove. He estimates that he did a dozen extra puzzles on Saturday alone.

The top three finishers in the A, B, and C divisions advanced to the Sunday afternoon finals. They competed on stage, writing in marker on a large whiteboard while wearing noise-canceling headphones in case anyone in the audience shouted out an answer. (There were no finals for the less competitive D, E, and rookie tiers.) Everyone answered the same puzzle, but the clues were harder at each level. The answer to 1-across in all three final rounds, for example, was "Snapbrim." C-division finalists got the clue "Adjustable fedora feature." For the B division, it was "Cap part," and for the A division, the devilishly ambiguous "Tipping point?"

When Shortz called, "Begin," to kick off the A-division final, Feyer did something entirely out of character. For nearly 30 seconds he simply stared at the board without answering. With so much on the line, he wanted to read the clues carefully and think them through.

The tournament is a place for fanatics, so it is fitting that "fanatics" proved to be a hurdle on his way to title number four. It was the answer to 27-across (an eight-letter word for "Ones bearing high interest") and it stumped him for a moment, he admits — both "high" and "interest" have multiple meanings. One of the other finalists, Tyler Hinman, who won five consecutive titles before Feyer unseated him in 2010, appeared to take an early lead, filling in most of the right side of his board while Feyer still was working on the lower-right quadrant. But once Feyer cracked the difficult clue, the rest of his board fell into place. He finished in 10:41, not as fast as his other winning times, but it was a harder puzzle. As he wrote on his blog later, "The playoff puzzle put up a bigger fight than it ever had before."

Tempting as it is to call these whizzes "machines," they aren't. They're better. Although many easy puzzles are designed by computers, computers still have trouble solving them. Puns and other linguistic tricks trip them up. The top computer puzzle-solving program, called Dr. Fill (get it?), finished the tournament in 92nd place and could not solve the final puzzle using the A-level clues.

Schedules permitting, all the Princeton participants hope to return next year. As for Feyer, he was planning to use some of the \$5,000 prize money to pay for a post-tournament vacation to Puerto Rico, but he returned immediately to his daily ritual of puzzle solving. He expects to defend his title next year. There are still mountains to climb, particularly the tournament record of seven championships, he says: "I don't think I would want to retire before that." ■

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

Science as art

A PHOTO EXHIBITION SHOWS THE BEAUTY BORN IN PRINCETON'S LABS AND FIELD RESEARCH

By Vivienne Chen '14

PRINCETON'S ART OF SCIENCE exhibition, a showcase of 44 images representing science as an art form, will be on display at the Liberty Science Center in Jersey City, N.J, through Sept. 15. The exhibit draws from five years of photographs in the University's Art of Science competition, with images selected by renowned photographer and professor emeritus Emmet Gowin and former Princeton University Art Museum curator Joel Smith '01. The photos spotlight the striking aesthetic and scientific importance of Princeton's research, from fluid mechanics to biological fieldwork to plasma physics. "It's special to have your research highlighted as art," says Steve Brunton '12, a featured photo winner from 2010, "and it's a different way to express yourself than writing peer-reviewed papers." The competition was sponsored by the David A. Gardner '69 Fund in the Council of the Humanities and the School of Engineering and Applied Science.

Vivienne Chen '14, an English major, is a freelance writer and videographer who contributes frequently to PAW and PAW Online.

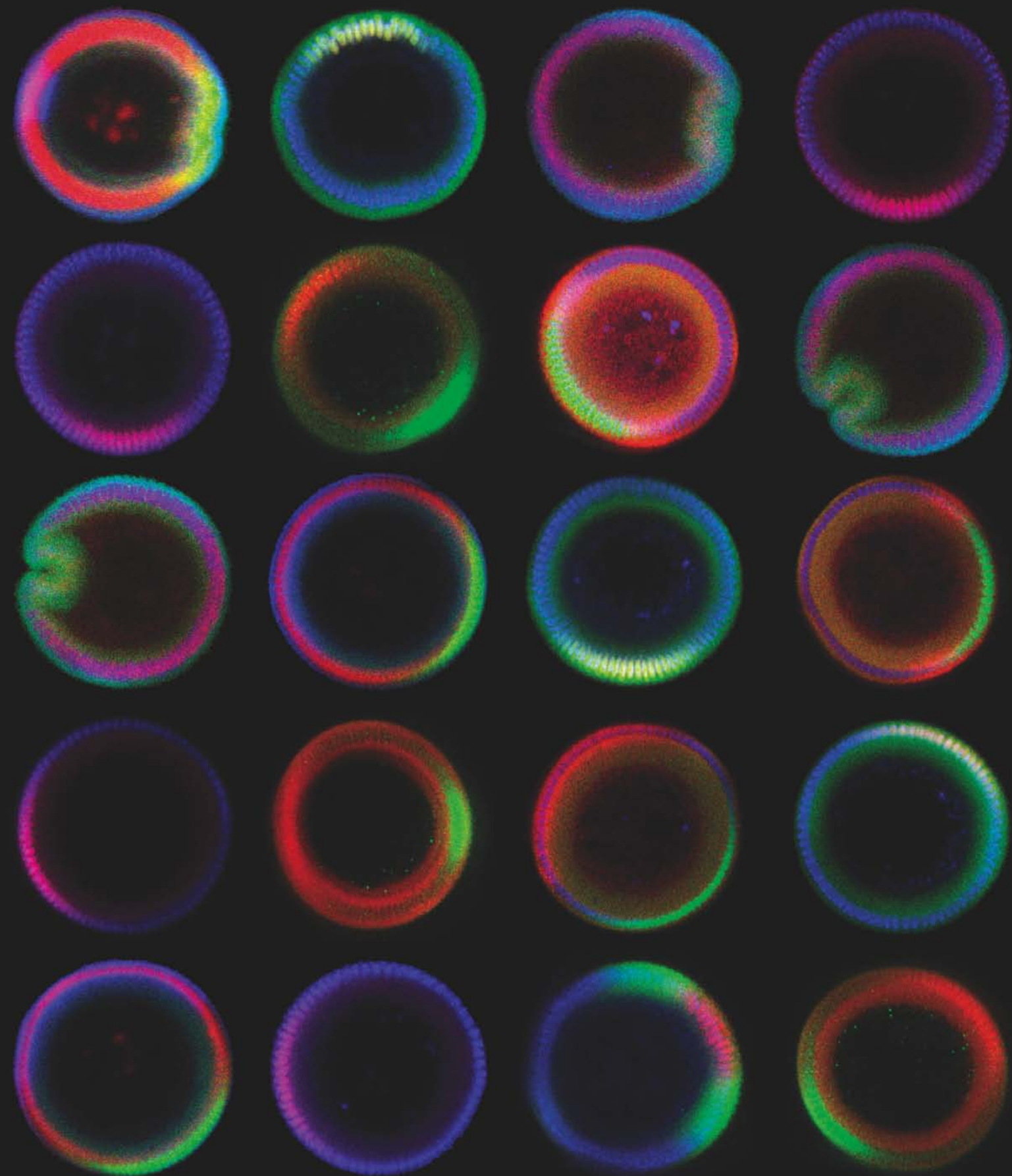
Patterning the Embryo

Yoosik Kim '11, Stanislav Shvartsman

For Yoosik Kim '11 and Professor Stas Shvartsman, a chance detour to an art exhibit inspired the presentation of their scientific research. "We were studying the cross sections of the fruit-fly embryo," says Shvartsman, a professor of chemical and biological engineering who supervised Kim, "but after looking at a large number of these embryos, we found out there was a Kandinsky exhibition at the Guggenheim." Russian abstract painter Wassily Kandinsky's iconic paintings of colorful concentric circles, known as Kandinsky circles, captivated the researchers. "Once I saw these paintings," says Shvartsman, "I knew we needed to arrange our embryos in the same way." Their photo shows how the embryo is subdivided into three main tissue types — muscle, skin, and nerve — creating a rainbow of cross sections arranged like Kandinsky circles.



To see more images,
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Stirring Faces

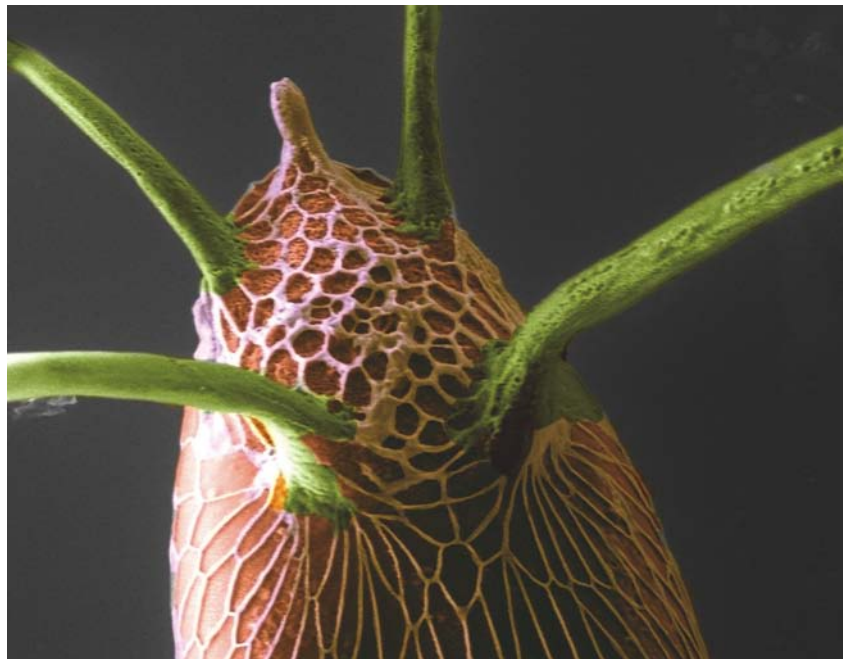
*Steve Brunton *12*

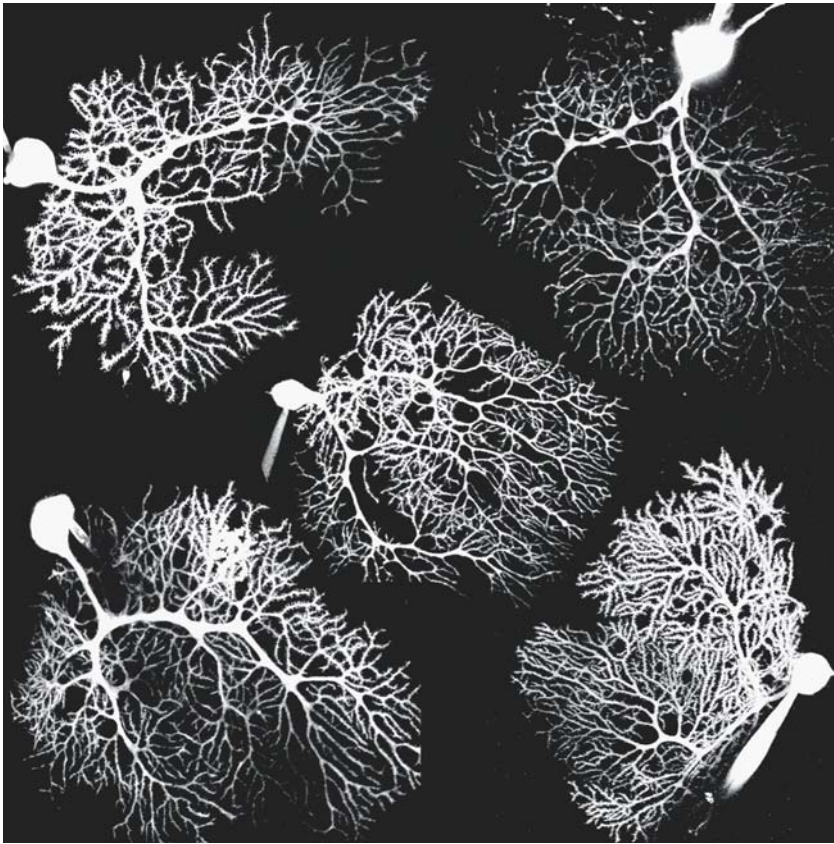
Steve Brunton *12 was testing some new computational tools during his graduate studies on fluid flow when he created these computer-generated swirls. “What’s exciting about this research is that even with a simple input, we get complex structures in the flow field,” says Brunton, “and it’s amazing to watch that development in real time.” The patterns that emerged when simulating a rigid wing in a still fluid — like a fruit fly flapping its wings, Brunton explains — were striking to him for their symmetry and complexity. Brunton even made large prints of his photo for his son’s bedroom.

Five-Horned Eggshell

Nir Yakoby, Maria Pia Rossi

The “horns” in Nir Yakoby and Maria Pia Rossi’s photo are not horns at all: The four green stalks actually are tubes extending from a fruit-fly egg, which Yakoby explains are used like “snorkels” to help the egg breathe after it is laid in a fruit. The white horn is used for the male fly to deposit sperm. “The egg itself is about 300 microns in size,” says Yakoby, a Rutgers University assistant professor who was a postdoc in Princeton’s Lewis-Sigler Institute for Integrative Genomics when this photo was taken. “It’s a speck if you look at it with your eye.” But with a scanning electron microscope and some post-production artificial coloring, the egg becomes the giant, intricate organ in the photograph, which Yakoby and Pia Rossi, an applications engineer, examined during their research. “We want to learn how cells decide what to become,” Yakoby says.





Purkinje Neurons

Dmitry Sarkisov '06

This collection of snapshots of the branch-like structure in the brain cells of rats came from Dmitry Sarkisov '06's research on long-term plasticity in the cerebellum. The white neurons are lit by a calcium-sensitive dye, which Sarkisov used to examine the cells micrometer by micrometer during his thesis work. The beauty of the photo, Sarkisov says, is in how the "geometry represents their unique function." The cells "receive inputs from tens of thousands of neurons," he explains, thus requiring the web of dendrites leading to the circular mass of the cell body.



To see more images,
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No Sibling Rivalry Here

Trond H. Larsen '06

Trond Larsen '06's photo of a swarming caterpillar colony was captured during his Ph.D. research in the Lago Guri islands of Venezuela. "I remember it was a particularly hot day, over 100 degrees," Larsen says. "I noticed these caterpillars on the underside of a leaf above my head while I was cutting a new trail into an unexplored area of one of the islands. ... I was struck by the bright, distinctive coloration of each individual caterpillar, but even more so by the colors and design that emerges from the entire group." Larsen, now on the staff of the group Conservation International, explains that the tight clustering of the caterpillars creates a confusing image that may deter predators — either by disguising their identity or by implying toxicity with their bright patterns. "Scientifically, it is fascinating to try to understand how this group behavior evolved," he says.





A company run by, from left, Scott Knackmuhs and Avi '05 and Noemi '02 Millman makes learning about a new city a fun adventure.

“It got me thinking about how passive a lot of sightseeing is.”

— Avi Millman '05

covered with green tendrils that might as well be hair. So my wife typed “green” into her iPhone and instantly learned that our correct answer earned us 20 points. Pleased with ourselves, we moved down the street toward our next clue.

We were taking a walking tour of New York City’s Chinatown and Little Italy offered by Stray Boots, a company co-founded in 2008 by Avi Millman '05. Stray Boots offers 60 tours in 14 U.S. cities and two in Great Britain, spicing up the traditional neighborhood walk by turning it into a scavenger hunt. Download the app (www.strayboots.com), sign up for a tour (there are 17 in New York alone), and let each clue guide you toward the next site. One of the clues on our tour, for example, told us to head to the first seafood market we encountered on Mott Street and find out what is kept in the waist-high gray buckets. [Spoiler alert: frogs.] Each correctly answered question earns points; the object is to earn as many points as possible, which makes it fun for groups that want to divide into teams.

AVI '05 AND NOEMI '02 MILLMAN

Touring becomes a hunt

P
26

Editor’s note: PAW senior writer Mark F. Bernstein '83 took a walking tour of New York City designed by Avi Millman '05.

What color “hair” does rambutan have? I had no idea who — or what — a rambutan was, and the first two peo-

ple I asked on the streets of New York City looked at me blankly. The third person I approached, a young woman at a Chinese produce stand on Baxter Street, jerked her head toward a pile of bright magenta fruit. A rambutan, I discovered, is an exotic Asian fruit



STARTING OUT: CHANEL CARMONA '10 Coordinator in the alternative programming department at the CW Television Network in Burbank, Calif. The

department develops unscripted shows, including reality series and game shows. Princeton major: sociology.

What she does: Carmona helps oversee casting decisions, listens to focus groups to improve the shows’ content, and screens episodes and makes suggestions on how editors can shape the shows. “A lot of what I contribute ... is

keeping up with what my friends and other people like me are liking and doing social-media-wise and ... consuming on the Internet.”

Challenges: “Once you have a foot in the door, it’s very competitive to move up or move on.” Carmona had an internship with CBS; colleagues there recommended her for the job at the CW.

Networking: She’s expected to go out nearly every evening “with people from different companies just to keep abreast of who’s working on what You have to know everything” about every show being developed, she says.

NEWSMAKERS

JOHN KOVAC '92, an assistant professor of astronomy and physics at Harvard, won a Faculty Early Career Development Award from the National Science Foundation. His research “seeks to illuminate the earliest moments of our universe through precision measurements of the Cosmic Microwave Background,” according to a Harvard press release. ...



COURTESY CHANEL CARMONA '10

ENTREPRENEURS ROUNDTABLE ACCELERATOR

DENIS BARKATS '04

Tiger
profile

MARTY KRASNEY '67


He works to cultivate leaders


Millman got the idea for the business while traveling with his family in Rome. "It felt like a scavenger hunt," he recalls, "and it got me thinking about how passive a lot of sightseeing is. I thought it would be a lot more interactive if you turned it into a game."

As of the end of March, 75,000 people have purchased tours, which cost \$12 (in a few cities Stray Boots also offers multi-tour packages, which cost more). Millman wrote all the tours himself until last year, when the business got too big and it became necessary to hire local writers. Each tour tries to give a sense of an area, encompassing cultural, historical, culinary, and recreational sites. His sister, Noemi '02, joined him in 2010 and is now the company's chief technology officer.

The iPhone app was introduced a few months ago and is available for tours only in New York and a handful of other cities, although Millman says the company is trying to convert all its tours to the app as quickly as possible. In cities where the app has not been introduced, clues are given by text message.

"People seem to really enjoy everything we are doing," Millman says. "Our challenge is to tell people about it, because once people [take a tour], they tend to come back and take others."

After sampling the lotus buns of Chinatown and the cannolis of Little Italy, a few more walks would do me good.  By M.F.B.

Among the "140 Best Twitter Feeds of 2013" named by *Time* that "stand out for their humor, knowledge, and personality" are those by **NICK CONFESSORE '98** (@nickconfessore), **RAMESH PONNURU '95** (@rameshponnuru), **DAVID ITZKOFF '98** (@ditzkoff), and Princeton professor **JOYCE CAROL OATES** (@joycecaroloates). ... **JOHN HEMINWAY '66** and **KATIE CARPENTER '79** teamed up to make the National Geographic Television film *Battle for the Elephants*, which premiered Feb. 27 on PBS. The film examines the killing of African elephants for their tusks. Heminway was the writer, director, and producer, and Carpenter a producer. 




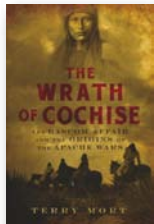
Marty Krasney '67, executive director of an organization that offers fellowships to college students, and Amanda Rees '12, a 2011 Dalai Lama Fellow, outside the group's office in San Francisco.

DEVELOPING ETHICAL LEADERS In 2008, a group inspired by the Dalai Lama asked Marty Krasney '67 to conduct a feasibility study for the creation of an organization that could develop leaders guided by ethical values. With the study completed and funding secured in 2010, Krasney became executive director of the newly established Dalai Lama Fellows. Based in San Francisco, the non-denominational organization offers fellowships of up to \$10,000 to college students with proposals that address poverty, violence, the environment, or cross-cultural cooperation. The fellows work on their projects while studying the organization's Head, Heart, and Hands curriculum, which promotes self-awareness and self-reflection. The goal is to cultivate a global network of young leaders who have the perspective and skills to implement long-lasting environmental and social change, says Krasney.

Résumé: Executive director of Dalai Lama Fellows. Founding president of the American Leadership Forum and first director of the Aspen Institute seminars, groups focusing on leadership development. M.B.A. from Harvard. English major at Princeton.

FROM WOOL TO APPS Fellows' projects have included creating a nonprofit T-shirt factory in Cairo that enhances workers' skills and educates them about their rights; developing a way to donate to charities via a cellphone app in Ghana; and setting up workshops for girls in Tanzania at which they were encouraged to address social problems such as HIV — a project led by Amanda Rees '12 and Gabrielle Wilkerson-Melnick '12. A third Princetonian, Marlene Morgan '13, spent a summer in Arizona researching the potential of marketing wool from the Navajo Nation. She concluded that marketing the wool would be difficult, due to small farm sizes, lack of infrastructure, and little knowledge of breeding for higher wool quality.

A LIFELONG COMMITMENT The group's Ethical Leadership Assembly, an annual gathering of faculty and fellows past and present, is crucial to Krasney's plan "to grow a really robust alumni network and make this a lifelong commitment." There are now about 15 fellows a year, and Krasney wants to increase that. He hopes that as the organization grows and gathers momentum, "these very dynamic people elevate this alternative way" of responding to the world's problems.  By Maya Rock '02



READING ROOM: TERRY MORT '64

Two cultures collided at Apache Pass

In 1861, the border between Arizona and Mexico was a dangerous place, with raiding parties of Indians threatening the American settlers who were moving in from the east through Apache Pass in the mountains, not far from today's Tucson. It was at that pass that two cultures came into an explosive confrontation — with one bloody episode that triggered a 25-year war between the U.S. Army and the Apache people — says Terry Mort '64 in *The Wrath of Cochise* (Pegasus Books).



WHAT HE'S READING: *Nomad: George A. Custer in Turf, Field, and Farm*, by American Civil War general George Armstrong Custer (edited by Brian W. Dippie)

What he likes about it: This collection of hunting and horseracing articles that Custer wrote for a sportsman's magazine has "interesting insights into the man's personality."

On this windswept pass, an inexperienced West Point graduate named Lt. George Bascom met inside a tent with Cochise, a feared leader of the Chiricahua Indians (a subgroup of the Apaches) to accuse him of having kidnapped the young stepson of a local rancher. Mort doubts that Cochise had been involved. Nonetheless, Bascom told him (along with some of Cochise's relatives) that they were now hostages for the boy's return. In an instant, Cochise pulled out his knife, ripped open the tent, and escaped into the hills amid gunfire. To punish Bascom, Cochise lost no time in retaliating. His warriors seized a wagon train as it crossed Apache Pass, taking four Americans hostage; then Cochise's warriors lashed nine Mexican associates of the settlers to the wheels of the wagons and burned them alive. Thus began a long series of guerrilla attacks and counterattacks that claimed thousands of lives until the Chiricahua were crushed. They were exiled as prisoners of war to Florida in 1886.

A Vietnam veteran and the author of several books, including three novels, Mort lives in Arizona, not far from where these horrific events took place. "It's beautiful there today, but eerie," he says. "It's easy to imagine what happened?" In reading about the Indian Wars, he became intrigued by the Apache Pass events but found that they rarely receive much attention from historians. "It's a footnote of history, but you can drill down and discuss all sorts of topics around it," he says, such as intertribal dynamics and the competing interests of settlers and Indians. Similarly, it was stumbling across a single footnote in a history book that led him to write a previous study about Ernest Hemingway's patrols of the Caribbean during World War II.

In describing the cultural conflict, Mort has resisted easy interpretations. Some accounts favor the long-suffering Indians, but Mort concludes that Cochise was by no means wholly the victim. "I dislike the binary constructs that people put onto everything nowadays," he says. "He was an accomplished leader, but he was a murderer — and the border was an awful place."

In Mort's telling, the story takes on deeper dimensions. "It's almost Aristotelian," he explains. "It has a tragic hero, Cochise, who makes a fatal decision — and that results in tragedy." **By W. Barksdale Maynard '88**

NEW RELEASES BY ALUMNI



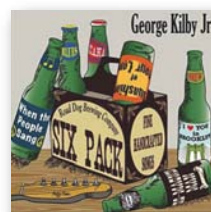
Set in Northern Iran, DINA NAYERI '01's debut novel, *A Teaspoon of Earth and Sea* (Riverhead Books), follows an Iranian girl as she grows up in post-revolutionary Iran after her mother and twin sister disappear. Born in Iran, Nayeri emigrated to the United States at age 10 and today is a fellow at the Iowa Writers Workshop. ...

In *The Evil Necessity: British Naval Impressment in the Eighteenth-Century Atlantic World* (University of Virginia Press), DENVER BRUNSMAN '04 examines how naval impressment — forcing skilled sailors into service — affected seamen, their families, and seaport communities. This book began as Brunsmann's dissertation. He is an assistant professor of history at George Washington University. ... **KJERSTIN**



GRUYS '04 was struggling with her body image and decided to forgo looking at herself in a mirror for a year. In her memoir, *Mirror, Mirror Off*

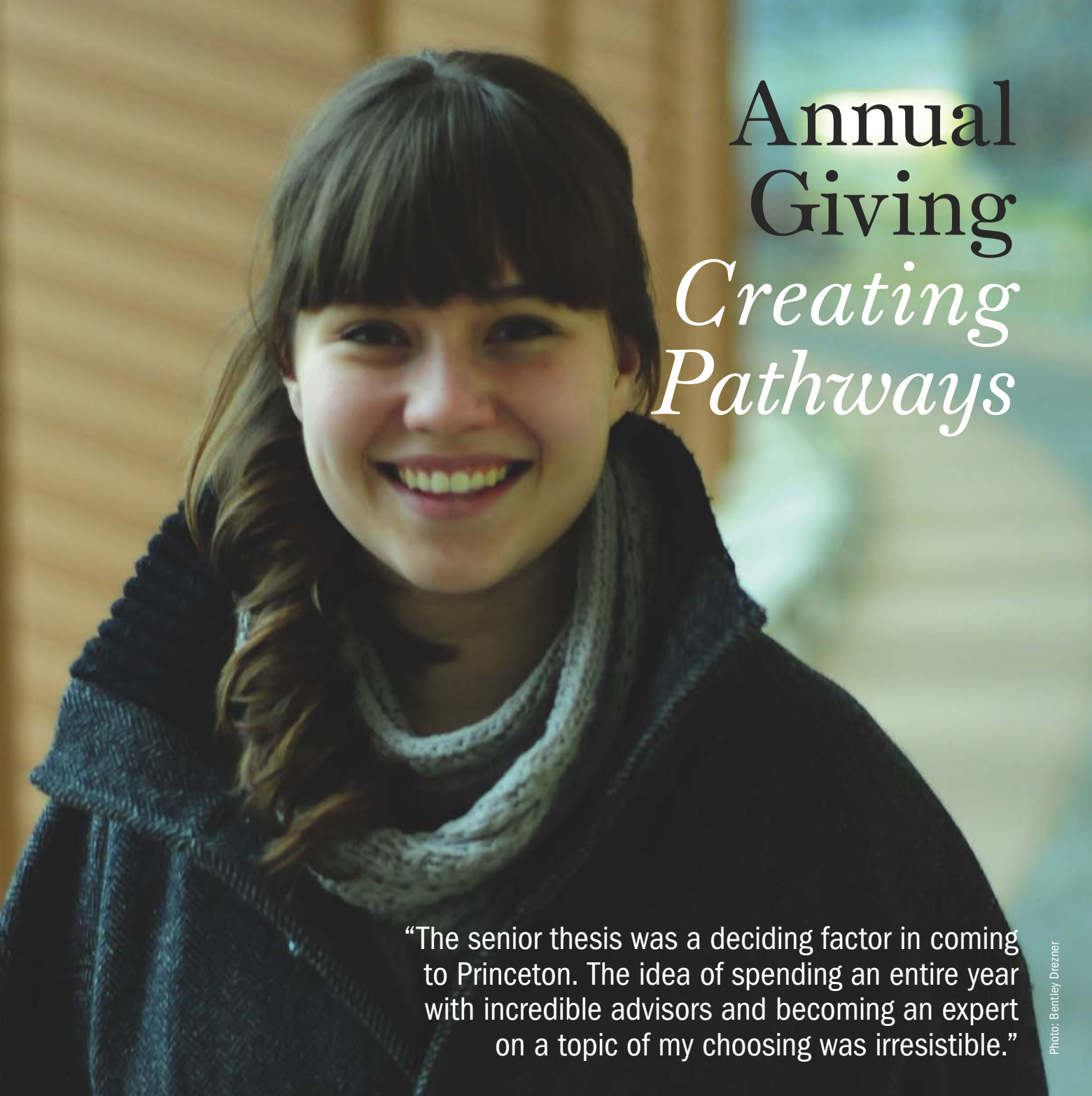
the Wall: How I Learned to Love My Body by Not Looking at It for a Year (Avery), she recounts her journey to self-acceptance and discusses our obsession with beauty. A Ph.D. candidate in sociology at UCLA, she researches how the fashion industry shapes ideas



about body size. ... Singer and guitarist **GEORGE KILBY JR.** '82's new album, *Six Pack*, includes six

songs, featuring Kilby, who plays what he calls "rough-cut American roots music," and his band, The Road Dogs. At Princeton, Kilby was a member of the George Dickel Band. **□**

LISTEN: A song from George Kilby '82's CD @ paw.princeton.edu



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Photo: Bentley Drezner

A native of Chicago, IL, **Amy Solomon '14** is an independent concentrator whose focus is journalism and media studies. She is a member of Quipfire!, Princeton's oldest improv group.

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A N N U A L
G I V I N G

Class notes



From the Archives

Some things change, and some remain the same. Palmer Square retains the vintage look it had when its construction was completed in 1941, although mature trees and other plantings now obscure much of the view facing Nassau Street. The bronze tiger memorial, which was dedicated in 1944 to developer Edgar Palmer 1903, is visible at the center of the grassy island in this undated photo. Holder Hall is partially visible across Nassau Street, and the spires of Holder Memorial Tower peek over all buildings in the foreground. Though businesses have come and gone in the last 75 years, the Silver Shop still is operating in the location it occupied when Palmer Square's western section opened in 1937.

Online Class Notes are password-protected.
To access Class Notes, alumni must use
their TigerNet ID and password.

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<http://paw.princeton.edu/issues/2013/04/24/sections/class-notes/>

Memorials

Editor's note: PAW posts a list of recent alumni deaths at paw.princeton.edu.

Go to "Web Exclusives" on PAW's home page and click on the link "Recent alumni deaths." The list is updated with each new issue.

THE CLASS OF 1935



GEORGE H. BOYNTON '35 George died Nov. 25, 2012, in Schervier Pavilion, Warwick, N.Y.

The son of George H. Boynton 1901, he was born

and raised in Atlanta. He graduated from University School in Atlanta and was accepted by Princeton at the age of 15 but spent a year at Emory University before joining our class. At Princeton he majored in politics, starred on the tennis team, and spent his junior and senior years living at Colonial Club.

After earning a law degree from Columbia, he practiced in New York City for some years before joining the Deering Milliken Corp., rising to vice president in charge of synthetic fibers.

George devoted many years to the incorporation and economic and social development of his longtime hometown, Tuxedo Park, N.Y. A national tennis champion with his partner Frank Parker in 1930, George remained active in tennis for his entire adult life. He was a regular Reunions attendee and came to our 75th with his son George '64.

In 1940, George married Mary Bridges, who predeceased him in 1992. In addition to his son George, he is survived by sons Geoffrey and Mark; seven grandchildren; and four great-grandchildren.

THE CLASS OF 1937



THOMAS R. YOUNG '37 '38 Thomas Young died Jan. 24, 2013, at his home in Stamford, Conn.

Before Princeton, he graduated from Exeter Academy and Deerfield. At Princeton

he majored in chemical engineering and graduated with honors. He was on the varsity swimming team, was a member of Elm Club, and served as president of the Princeton chapter of the American Institute of Chemical Engineers. Tom also earned a graduate degree from Princeton in chemical engineering, a field in which he spent his entire life.

After Princeton, Tom worked for a while at the DuPont Co. During the war, he served with the Coast Guard. After the war, he

became a consultant with Singmaster & Breyer in New York.

Tom's passion was sailing, and he became involved in sailboat racing all over the world. He later was an international judge.

He had seven brothers and sisters, and married Carolyn Taylor. Carolyn predeceased Tom. He is survived by his daughter, Anne Young Clark, and two sons, Rumsey Young and William Ellery Smith Jr.

The class remembers Tom with affection and sends sincere sympathy to his children and friends.

THE CLASS OF 1942



JAMES F. BROWN III '42 Jim Brown died Dec. 15, 2012, in Charleston, W.Va., the city in which he had spent most of his life, with the exception of service during World War II.

Jim prepared at Phillips Academy Andover. At Princeton he majored in economics and was vice president of Elm Club and circulation manager of the *Tiger*.

After training at Northwestern and anti-submarine school in Miami, Jim was assigned to duty as an ensign on a subchaser in the Atlantic. This led to his participation in the D-Day landings at Omaha Beach.

The end of the war found Jim in law school at the University of Virginia and then in practice in Charleston, where he established himself as a successful lawyer and corporate director. He became a community leader outstanding in his desire to help people at all levels of society.

He was preceded in death by his wife, Catharine ("Canky"), to whom he was married for 61 years. To his sons, Charles, James IV, and Edward; three grandchildren; and the other members of the Brown family, the class sends condolences.

THE CLASS OF 1944



PHILIP A. LIRIO '44 Phil died Dec. 1, 2012, in Vineland, N.J.

He graduated from Vineland High School, and at Princeton he majored in chemistry, played intramural football and basketball, and was a varsity football manager. He was active in Whig-Clio and Key and Seal.

Phil accelerated and left college with George Grace for Navy service in 1943, reporting for duty at Fort Pierce. He was in nine landings in the Philippines and served as a captain in charge of the USS *Newman*, a transport carrying troops for invasions.

A lifelong resident of Vineland, he started his own company, Lirio Chemicals. Extremely active in his community, Phil was YMCA treasurer, served on the Vineland City Council, and was in the Chamber of Commerce. He also volunteered for Princeton's Schools Committee.

He had a fishing boat and a flying license, finally buying his own twin-engine Cessna. Phil's page in our 60th yearbook included three World War II pictures — of his ship, of troops abroad, and with friends on the beach.

Phil is survived by his wife, Norma; sons Chris and Philip; and two grandchildren.



BRUCE MCCARTY '44 Bruce died Jan. 5, 2013, in Knoxville, Tenn.

He came to Princeton via Lawrenceville to study architecture and learn about sculpture under Joe Brown. He roomed with John Lord and then Henry Pogue, and was a member of Cannon Club. He left for the Army Air Corps in 1943 to become a P-38 pilot with domestic service.

In 1945, Bruce married Elizabeth Hayes and returned to Princeton to graduate in 1946. After he did graduate work in architecture at the University of Michigan, the couple moved to Knoxville, where Bruce soon became a partner in McCarty Associates. His notable career in architecture there included being a master architect for the 1982 World's Fair, being listed in *Who's Who in the United States*, and serving on the Knoxville Planning Commission for five years. Bruce received a silver medal from the University of Tennessee faculty in 2011 and was honored by the university as volunteer of the year in 2000.

He designed and built a home of glass, cypress, and brick, in which he lived with Elizabeth and their children for 40 years.

Bruce is survived by Elizabeth (whom he met on a blind date); three children, Bruce, Douglas, and Sarah; a brother, Stuart; six grandchildren; and six great-grandchildren.



HARRY R. MACDONALD '44 Mac died suddenly Jan. 30, 2013, his 90th birthday.

He was president of his class at Princeton High School. He left Princeton in 1942, transferring to the U.S. Naval Academy, from which he graduated in 1945. His naval career was primarily in submarines. He was recalled for duty during the Korean conflict.

Mac married Alma Lewis in 1946. She

died in 1983, and he married Suzanne Myers in 1988.

After his naval service, he worked for Lever Brothers Co. for 35 years, including 12 in Indiana, where he participated in community affairs. After returning to New Jersey in 1969, he was active in the Reformed Church in America — locally as an elder, regionally as president of the Delaware-Raritan Classis. He retired in 1985 from Lever House in New York as director of manufacturing services.

Moving to Hilton Head in 1996, Mac served as a director in the Presbyterian Men of the Church, and chaired an annual college ethics symposium. He served for 10 years as treasurer of the local Navy League.

Mac chaired '44's reunions from 1989 to 1999, and also served as class secretary, vice president, and then president in 2004.

He is survived by Sue; three children from his first marriage; four stepchildren; 13 grandchildren; and four great-grandchildren. He was a beloved 1944 man.

THE CLASS OF 1945



JOSEPH C. BUCK '45 Joe Buck died Nov. 19, 2012, in his home in Elmira, N.Y.

He entered Princeton from Millbrook School, following in the footsteps of his father, Joseph W. Buck 1913, and brother George '44. At Princeton, he joined Dial Lodge but left with the ROTC contingent for commissioning at Fort Sill, later seeing combat in the European theater. He returned to Princeton to graduate in 1947, the same year he married Martha Taylor.

Joe earned a law degree from Cornell and joined his father's law firm in Elmira. He remained with the firm and its successors until he retired in 2012.

Joe chaired boards of numerous area organizations, including the county library, the county human-relations commission, and the county planning commission. He also provided leadership for health organizations, service clubs, and the Park Church of Elmira. Joe and Martha traveled to Europe, the western United States, Canada, and Africa, where they visited their daughter and her family in Kenya. Joe loved sailing in New York's Finger Lakes region and hiking the trails and mountains of the Adirondacks and White Mountains.

Joe is survived by Martha; his brother; his sister, Cornelia; children Louise E. and Charles T. Buck; and two grandchildren. The class expresses its sympathy to the family.

CHESTER A. FILES JR. '45 The class lost another of its officers when Chet Files died Jan. 8, 2013.

Chet entered Princeton from Providence Country Day and joined Terrace Club. His



Princeton career was interrupted by World War II service with the 75th Division, which saw combat in Germany.

Returning to Princeton, he earned a bachelor's degree in economics in 1948 and thereafter enjoyed a long career working with law firms and banking institutions as an expert title examiner. Chet spent a quarter-century with the Commonwealth Land Title Insurance Co. of Philadelphia.

Chet remained active in the Army Reserve and was commissioned in 1960. He was in the Rhode Island National Guard until retiring as a major.

He remained devoted to the class, seldom missing any event — whether a reunion, Alumni Day, or a football game. His presence made each occasion enjoyable. When the class needed a secretary, Chet volunteered, and remained the author of our Class Notes columns until his unexpected and sudden death from pancreatic cancer.

There are no survivors known to the class, but we salute this loyal classmate. We will miss his presence whenever our dwindling numbers gather together.



DAVID D. FRANK '45 David Frank died Nov. 28, 2011, from complications of Parkinson's disease.

Dave entered Princeton from Kingswood School in West Hartford, Conn., following in the footsteps of his brother, Arthur '41. Dave joined Tower Club, but his Princeton studies were interrupted by service with the Army, during which he saw combat as a field artillery officer in the Pacific. Dave was among the ROTC contingent commissioned at Fort Sill. He returned to Princeton in 1945 and graduated from what is now the Woodrow Wilson School in 1947.

Dave worked as a reporter for *The Wall Street Journal* and later began his public-relations career at the American Locomotive Co. in Schenectady and Canada. Dave next joined the public-relations firm of T.J. Ross & Associates, of which he was president for six years before retiring in 1986. He served as president of the New York Chapter of the Public Relations Society of America.

In 1948 he married Marcia Peaslee. They retired to Texas in 1989 and in 2002 they moved to a retirement home in Denton, Texas, where they enjoyed a decade until his death.

In addition to his wife and brother, Dave is survived by daughters Wendy, Mary, and Amy; son Tom Frank '73; 10 grandchildren; and two great-grandchildren. The class expresses sympathy to the family.



WILLIAM F. POTTS '45 Bill Potts died peacefully Nov. 26, 2011.

Bill entered Princeton from Mercersburg Academy. After his freshman year at Princeton he enlisted in the Army Air Corps, where he served with the 391st Bomb Group in the 9th Air Force in England and France as an A-26 attack-bomber pilot.

He spent his entire career with DuPont, serving in a variety of sales and management positions. After retiring from DuPont he moved to Georgetown, S.C., where he enjoyed boating, fishing, and golfing. He served as commodore of the Belle Isle Yacht Club for a number of years.

Bill is survived by his wife of 66 years, Florence Rush Potts, whom he met while stationed in South Carolina during World War II; three children, Susan, William F. "Rich" Jr., and Helen; and eight grandchildren. He was predeceased by his daughter Emily Jane Potts. The class sends sympathy to the family

ELIZABETH M. SANFORD h'45 On May 12, 2011, the class lost an important officer and honorary member when Betty Sanford died at the University Medical Center in Princeton after a short illness.

Betty graduated from the University of Pennsylvania in 1947, the same year that she married our classmate, Laurence Sanford Jr., known to all of us as Laddie. After they moved to Princeton in 1967, the Sanfords were a bulwark for class unity. Every reunion featured a picnic dinner on the Sanford premises.

After Laddie died in 1982, Betty continued her strong support of class activities and was made an honorary member in 1985 and vice president for associates. We believe that she was the first woman to be recognized as an honorary member by any Princeton class. Betty was active not only in the class and University, but also in the community. She was a longstanding member of the Trinity Church Guild and the Contemporary Garden Club. As a member of both the Nassau Club and Present Day Club she assisted J.B. Smith and the Kimberlys in arranging class dinners.

She is survived by her sons, Laurence III '72, Stephen, and Andrew; daughters Beth '77 and Susan; and 10 grandchildren. The class expresses sympathy to the family as we mourn the loss of this dedicated classmate.

THE CLASS OF 1947



WILLIAM C. PURPLE JR. '47 Bill died Dec. 25, 2012, in Orlando, Fla., while visiting family. His home for the past several years had been Hilton Head Island.

Bill entered Princeton in November 1944

as a member of the V-12 program and graduated in 1947 with a bachelor's degree in electrical engineering. While at Princeton he developed an association with Albert Einstein, and they met weekly to discuss scientific and worldly events. After graduation he joined Melpar Inc., an electronics-manufacturing firm where he became vice president and general manager.

In 1966, Bill was recruited by Bendix Corp. as a group vice president in its aerospace section. In 1983, Bendix was acquired by Allied Corp., which became Allied-Signal in 1986. Bill served as executive vice president of Allied-Signal and president of the Bendix aerospace sector with responsibility for overall operations of 20 diverse high-technology divisions. He was a member of the Bendix Corp. board of directors from 1975 to 1983 and was honored as Bendix "Man of the Year" three times. He retired in 1991.

Bill enjoyed golf, tennis, and other activities but also found time to travel extensively. Our distinguished classmate is survived by his wife, Andrea; two sons; four daughters; a stepson; 13 grandchildren; 14 great-grandchildren; and his brother, Robert Purple.

THE CLASS OF 1948



FREDERIC W. BANCROFT '48 Fred "Derry" Bancroft died Jan. 15, 2013, in Alexandria, Va. He was 85.

Derry entered Princeton in July 1944 and returned to campus after Army service in 1946. He was a member of the University Choir and Glee Club and majored in history. He graduated in 1950. His entire professional career was in government as an analyst for the Central Intelligence Agency. He retired in 1987.

He is survived by his wife, Ellen; two daughters; and two grandsons.

ROBERT M. BARRON '48 Bob grew up in the Philadelphia area and graduated from Germantown Academy in 1944. He survived two years of Army active duty, including combat in the Battle of Okinawa, before entering Princeton in 1946.

At Princeton he majored in psychology and was in Terrace Club. He graduated in 1950 "with a bumper crop of veterans," and said he had a "reasonably fulfilling" career in marketing, sales, and sales management. He also founded and ran a startup company, arranging funding for new businesses.

Bob and his wife, Janet, were involved in music — Bob on piano, Janet in choral groups — and both pursued advanced music studies.

In 1984 they retired to Vero Beach, Fla. Bob died there Jan. 17, 2013, at the age of 86. Janet died in 2008. Bob is survived by his son, Robert R., and two granddaughters.



ANDREW BODNAR '48 Andy died Jan. 13, 2013, in Longmont, Colo., at age 89.

He was born in Czechoslovakia. The family moved to the United States in 1927, settling first in Pennsylvania and then in Trenton. Andy graduated from trade school as a carpenter and a year later from high school. During World War II he joined the Marines and served as a midshipman on a destroyer in the North Atlantic.

At Princeton he was in the Marine Corps V-12 program and Navy ROTC. He was a member of Key and Seal and graduated with honors in engineering. Andy was a decorated veteran of the Korean conflict, and retired in 1983 from the Marine Reserve as a lieutenant colonel.

Andy's civilian career was as a mechanical, civil, and aerospace engineer and project manager — at Princeton's Jet Propulsion Laboratory, J.A. Roebling, Lockheed Martin, and Colorado Fuel and Iron.

After his retirement in 1988, Andy was a deacon in the Byzantine Catholic Church and Fourth Degree in the Knights of Columbus.

Andy married Olga Franchak in 1956. During his retirement they traveled in Europe and taught English to doctors and nurses in the newly independent Slovakia. Olga survives him, as do their sons Sergius, Michael, Paul, David, and Gregory and their spouses; a brother; and two sisters.

G. ANTHONY CARTER '48 Tony died Feb. 11, 2011, in Carlsbad, Calif.

At Princeton he was a member of Cottage Club and graduated *cum laude* in economics.

Tony had two careers, first as an international business executive and then as an educational administrator. His more than 30 years in international marketing and management were with Borden, Campbell Soup, Warner Lambert, and Carnation — at company headquarters and at various overseas operations, including Panama, Venezuela, Guatemala, Peru, and Japan.

After retiring in 1981, Tony took administrative positions for independent schools in California. Then he "really" retired in 1993, but kept taking on volunteer assignments in community agencies and in education.

Tony's first wife, Betty, died before our 25th reunion. He is survived by Lorraine ("Lori"), his second wife, and five children from his and her previous marriages. We remember Tony's interest in and loyalty to the class, especially his attendance at Reunions in later years.

THE CLASS OF 1950

PETER D. SCULLY '50 Peter died Dec. 16, 2012, at his Dwight, Ill., home. His life was dedicated



to progressive and careful farm management.

Born in London, he lived his early life in England and France. In 1939, his father moved the family to Illinois.

Peter graduated from St. Mark's School in Massachusetts. At Princeton, he was a member of Orange Key, the rugby team, and Cottage Club. He graduated with honors in English and then served in Army intelligence in Germany.

After the two-year military hitch, he said he "settled down to apply Shakespearean criticism to agriculture." This entailed taking over the family business of farmland management. With his brother, Michael, he managed land holdings in four central Illinois counties. He also created an 18-hole golf course on land too poor to farm. Subsequently, he extended his agricultural investments to Spain and Argentina. The Spanish Ministry of Agriculture awarded him the Orden Civil de Merito Agricola for outstanding contributions to Spanish agriculture.

Peter had a substantial impact on community improvement through his leadership in educational, banking, and recreation groups, and by opening his home as a foster parent.

Our sympathy goes to Olivia, his wife of 58 years; and his children, David, Merida, Nadine, and Kirsten.

THE CLASS OF 1952



RICHARD E. GLASS '52 Richard graduated from Poly Prep. At Princeton he majored in chemistry and joined Prospect. He went on to earn

a medical degree at Johns Hopkins and then served two years as an Army captain and chief of psychiatry in Bitburg, Germany, returning in 1961 to private practice in New York.

After a divorce he married Sally Findley.

Richard died Dec. 11, 2011. Besides Sally, he is survived by two children, Jonathan and Nicholas.



ROBERT PARKER GOWING '52 Parker came to us from Rugby University School. His father, Earl, was in the Class of 1918. He majored in economics, joined Quadrangle, and roomed with Phil Nowland.

Parker earned an MBA at Xavier University in Cincinnati and later (1978) a master's degree in public health from Tulane.

He married Clover Brodhead of Cincinnati. They both taught in several colleges, Parker teaching courses in computer programming and quantitative business subjects, most recently at Notre Dame.

Parker died Feb. 5, 2012, in Seattle from injuries suffered in an auto accident. The class sends sympathy to Clover at the loss of a congenial and engaging classmate.



RAMON H. IVEY '52 Ray graduated from Needham Broughton High School in Raleigh, N.C., and served three years in the Navy before entering Princeton. He majored in politics, joined Cannon Club, and worked on *The Daily Princetonian* business board. He roomed with Chet Bell and Flip Miller.

Ray's career centered on the production side of magazine publishing. He spent 20 years at *Newsweek*, where he was director of production for international editions.

With his wife, Anne, he enjoyed retirement at Fearington Village in Chapel Hill, N.C., reporting in *The Book of Our History* that he had played on 40 golf courses nearby. They moved on to Plantation Village, N.C., near Wrightsville Beach, where they had spent summers.

Ray died May 2, 2012, leaving his children, Lauren, Linda, and Steve. To them and to Anne, the class sends sympathy.



MARTIN C. MARCH '52 Boom-Boom came to Princeton from Exeter with the name of Marcovich, which he later changed. He majored in English, joined Cottage, and was IAA president. He roomed with Peaches Porter. After graduation he served as a special operations officer in the Army.

Most recently chief financial officer of Tromar Industries, he previously had operated businesses in the fields of travel, investment, insurance, and real estate.

Boom-Boom, who was divorced, died March 23, 2012. He leaves three children, Scott K., Alan C., and Brook C., to whom the class offers its condolences.



THOMAS T. RHODES '52 Business success and churchman, Tom, the son of Robert P. Rhodes '21, left Princeton after sophomore year and received his bachelor's degree from the University of Arizona. After earning a master's degree in agriculture from the University of Florida in 1954, he launched, with a friend, the Driftwood Fruit Co. (still operating) in Vero Beach and later operated a chain of laundromats in the area.

Tom was active in the Community Church in Vero Beach and in local theater.

Tom died March 25, 2012. He is survived by his wife, Gerre Tripp Rhodes; a son, Thomas T. II; and a daughter, Susannah.

THE CLASS OF 1954



JOHN M. SWINFORD '54 John Swinford died Feb. 3, 2013, at Cedar Ridge Health Care Campus in Cynthiana, Ky., the town where he was born and graduated from high school.

At Princeton, he majored in history, played varsity football, and was a member of Cannon Club. He entered the Army after graduation and for many years was a high school and college football official.

John earned a law degree from the University of Michigan in 1959. His career included service in the Kentucky House of Representatives from 1962 to 1965 and from 1970 to 1975. He was the house majority leader from 1972 to 1975. He also served as chairman for the Democratic Party and was a member of the Harrison County Bar Association. He was named Citizen of the Year by the Cynthiana Chamber of Commerce, and he was a Kentucky Colonel.

John is survived by his wife, Mary; sons Jim and Bill; and five grandchildren. The class extends sympathy to them on their loss and is honored by John's service to our country.

THE CLASS OF 1956



HARRY J. HAON III '56 Harry Haon was born Aug. 2, 1934, in London, England. He died of pneumonia Jan. 15, 2013, in St. Francis Hospital, Wilmington, Del. He was in

very good spirits on Christmas Day, when the family gathered together in Lancaster, Pa.

Harry graduated *cum laude* from Tower Hill School in Wilmington. At Princeton, his senior-year roommates were Fred Pardee, Walter Stapleton, George Easter, Al Mather, John E. Thompson, Tom Duggan, and Bill von Oehsen. Harry majored in engineering and was a member of Tower Club. His professional career was with the DuPont Co., where his father and grandfather also had been employed. He was a dedicated environmentalist and conservationist and a Sierra Club member.

Harry is survived by Carolyn, his wife of 32 years; his sons, Jay and Andy Haon; his sister, Anne Cook s'44; stepdaughter Eliza Craig; stepson Peter Craig; niece Phyllis Wechsler; and nephew George Cook. He was devoted to his grandchildren, Miles, Lila, Ian, Kellen, Noah, and Chloe; and his grand-nephews, Alex and Jason. He was beloved by family and friends and will be greatly missed.

THE CLASS OF 1959

WINSLOW LEWIS JR. '59 Our class will not be the same. Princeton will not be the same. We



have lost Winslow Lewis. Enthusiastic, irreverent, unpredictable, irrepressible, loyal, gregarious, and Princeton to the core. A broad smile and explosive laugh.

Winslow died of throat cancer Sept. 21, 2012, at home in Boulder, Colo.

Pomfret and Andover sent him to Princeton, following his father, three uncles, and three cousins. He was a member of Ivy Club, the varsity heavyweight crew, 21 Club, the Jamesburg Committee, and one of five men who took a tandem bicycle ride from Princeton to the Yale Bowl for an "in-your-face" lap.

Winslow's professional career was in publishing, including *Ladies Home Journal*, *National Geographic*, *Rolling Stone*, *Life International*, *Money* magazine, and *Time*. He was a sailor, an airplane and glider pilot, a sergeant-major, a skier, a motorcycle rider, a sports-car enthusiast, and a target-shooter.

His third marriage, to Tina Johnson, was a charm, and he spent the last 35 years of his life with her. Scores of friends, including five '59 classmates, attended a remembrance of Winslow's life in Boulder Nov. 4, 2012.

Winslow is survived by Tina; daughters Brook and Diana; sons Winslow II and Parker; stepson Whitman Thompson; and his brother, Montgomery '62. We have sent condolences. To have known Winslow was to see life lived to its fullest.



PETER M. SMITH '59 Peter died June 14, 2012, at Myrtle Beach (S.C.) Manor, an assisted-living facility where he had resided for several years.

The son of Russell Smith '32, Peter was born in Newark, N.J., and attended Montclair Academy, where he served as class president, captained the football and track teams, played baseball and basketball, and was inducted into the Athletic Hall of Fame. At Princeton he was co-chairman of the Undergraduate Council staff and a member of Orange Key. He graduated *magna cum laude* with high honors in economics and ate at Tiger Inn.

Peter married Brenda Miles four days after graduation and shortly thereafter began a lifelong career as a product planner with IBM. He was involved in development of the IBM 3890 High Speed Document Processor, used for years by financial institutions to sort and tally all checks, utility payments, and gift certificates at the end of each banking day.

Divorced in 1972, Peter later married Sally Forte Bruner, who predeceased him in 2002.

Peter is survived by two children from his first marriage, Elizabeth Smith Weaver and Russell Smith; stepdaughters Sarah Bruner

Fry and Laura Bruner; a brother; two sisters; and six grandchildren, to all of whom the class extends its condolences.



HAROLD L. SPRINGER III '59 Hal died Aug. 31, 2012, at home in Wilmington, Del., after a long illness.

Hal came to Princeton from Alexis I. duPont High School. He majored in psychology and joined Cloister Inn. Following graduation, as he said in our 25th-reunion yearbook, he “tempted the fate of the draft” by returning to his summer-vacation employer, the Delaware State Hospital, as a recreational therapist. The fates caught up with him and he was drafted into the Army, serving two years in the Intelligence Corps in Philadelphia.

After his discharge, Hal worked for the predecessor to the United Way of Delaware as a campaign assistant, then as assistant director of the Fontana Art Gallery in Narberth, Pa. In 1969 he took a position as assistant director of the Children’s Beach House Inc., a Delaware foundation in Lewes Beach that provides summer residential programs for children with special needs. By 1974 he had become executive director of the foundation, and during his 30-year tenure he supervised expansion of the Beach House services, development of year-round programs, and enlargement of the physical facility.

Hal is survived by his partner, Kenneth E. Stecher; his brothers, Charles and Stephen; and his sister, Edith *74 p’87, to all of whom we offer our condolences.

THE CLASS OF 1960



H. PHILIP BRANDT II '60 Phil died of heart failure Nov. 3, 2012, in Germany while on a Danube River cruise with his wife, Cindy, celebrating their 30th wedding anniversary.

Phil was born in Pittsburgh and graduated from North Allegheny High School, where he was football captain. As a teenager he built and raced hot rods.

During his senior year at Princeton he roomed with Pete Crispo, Tom Kukic, Vince Lee, Bill Marr ’61, Dave Pearce, Bruce Rosenbauer, and Stan Shaughnessy. Commissioned from ROTC, Phil served in the Air Force as a weapons officer and navigator in several different aircraft, the last being the F-111A, which could fly at more than twice the speed of sound.

After his first wife died in 1981, Phil and their three sons took an assignment at Bergstrom AFB in Austin, Texas, where he met and married Cindy Dean, who had two daughters.

Phil retired from the Air Force after 22

years and joined IBM, where he worked 11 more years. He enjoyed restoring Chevies, Cadillacs, and Oldsmobiles, and was a skilled maker of model airplanes, some of which are on display at the Austin airport.

Phil cherished friendships and loved returning to Princeton for Reunions. Our sympathy goes to Cindy; his sons, Todd, Chris, and Dana; and five grandchildren.

THE CLASS OF 1962



PAUL S. CLARK '62 Paul Clark died of lung cancer Dec. 29, 2012, at home in Reno, Nev.

He came to Princeton from Governor Dummer Academy. Majoring in biology, Paul was vice chairman of Orange Key publicity and a member of the heavyweight crew and the Undergraduate Schools Committee. He roomed with Dave Mahoney, Bayley Silleck, Don deBrier, and Buel White.

After earning his medical degree from Cornell, he spent three years with the U.S. Public Health Service in Alaska. He also worked in Nigeria and Biafra under the Red Cross. He next held a nephrology fellowship at the Mayo Clinic. Paul moved to Reno in 1975, partnering to develop the first hemodialysis unit and organ-transplant clinic there.

He enjoyed fly-fishing in Nevada and Alaska, as well as his Lotus car collection. Paul recently gave a daughter the 1953 MG that he drove as a youth in Syracuse.

He had three children with his first wife, Pamela. He married Jeannine over 20 years ago and recovered from addiction, embracing the 12-step program while active in the Greek Orthodox Church. Our sympathy goes to Jeannine; his children, Paul, Jennifer, and Tamara; his sisters, Marilyn and Carol; and his stepchildren, Jennifer and Brian.

Graduate alumni

BRUCE ADKINSON '48 Bruce Adkinson, a retired associate professor of political science at Hofstra University, died June 17, 2012, at the age of 89.

Adkinson graduated from Pomona College in 1943, then joined the Army in World War II. Shipped to England, he was part of the 1944 Normandy invasion, after which he rode a Sherman tank through northern France, Belgium, and Holland.

He was wounded near Malmedy while fighting in the Battle of the Bulge and was in rehabilitation when the war ended. He earned four battle stars, a Purple Heart, and a Silver Star with cluster.

In 1948 Adkinson earned a master’s degree in politics from Princeton. He taught at Hofstra for the next 37 years, specializing in international relations, comparative gov-

ernment, and the Common Market. Popular with students, he also served as associate provost and dean of liberal arts.

Adkinson is survived by a daughter; a granddaughter; and a stepdaughter.

EDMUND G. JOHNSON '53 Edmund Johnson, a retired senior vice president of the Haley & Aldrich engineering firm of Cambridge, Mass., died Jan. 3, 2013, at the age of 83.

Johnson graduated from the Worcester Polytechnic Institute with a bachelor’s degree in civil engineering in 1951, and in 1953 received a master’s degree in civil engineering from Princeton.

He then served in the Navy’s engineering corps and was posted from Maine to Hawaii. After his Navy service he was employed by Haley & Aldrich, where he designed foundations for skyscrapers that were part of the Boston skyline. Johnson was active in the American Society of Civil Engineers and was president of its Boston branch.

A member of the Maple Street (Danvers, Mass.) Congregational Church for more than 50 years, Johnson served as a deacon and on the building committee. Proud of his Swedish heritage, he was a trustee for his local lodge of the Vasa Order of America.

Johnson is survived by Lois, his wife of 59 years; a daughter; and three grandchildren.

JOHN E. O'BRIEN '66 John O'Brien, former general counsel of the National Aeronautics and Space Administration (NASA), died Oct. 24, 2012. He was 80.

O'Brien graduated from Niagara University in 1953, and, after Army service, earned a law degree from Georgetown University Law Center in 1957. After a short while in private practice and then at the Department of the Navy, he joined NASA in 1962.

He served in several capacities before becoming NASA’s general counsel in 1985. In this position, he was responsible for all legal matters involving the explosion of the space shuttle *Challenger* in 1986. He was then with the law firm of Steptoe & Johnson before returning to NASA in 1989 as deputy assistant administrator. He retired in 1992.

During the academic year 1965-66, O'Brien was a mid-career fellow at the Woodrow Wilson School. This non-degree visiting student program now is known as the Princeton Fellowship in Public Affairs.

O'Brien is survived by Ann, his wife of nearly 56 years; six children; 11 grandchildren; and six great-grandchildren. He was predeceased by two daughters.

*This issue has an undergraduate memorial for Thomas R. Young '37 *38.*

Graduate memorials are prepared by the APGA.

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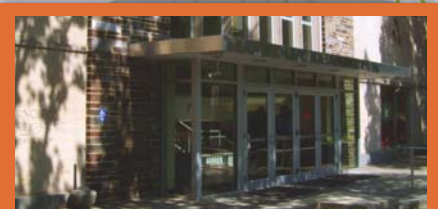
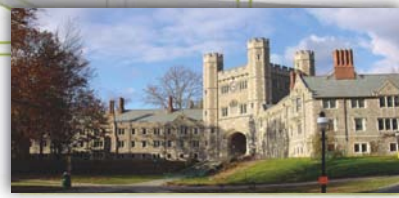
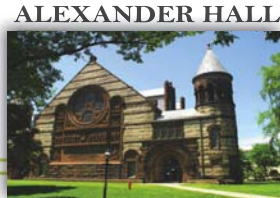
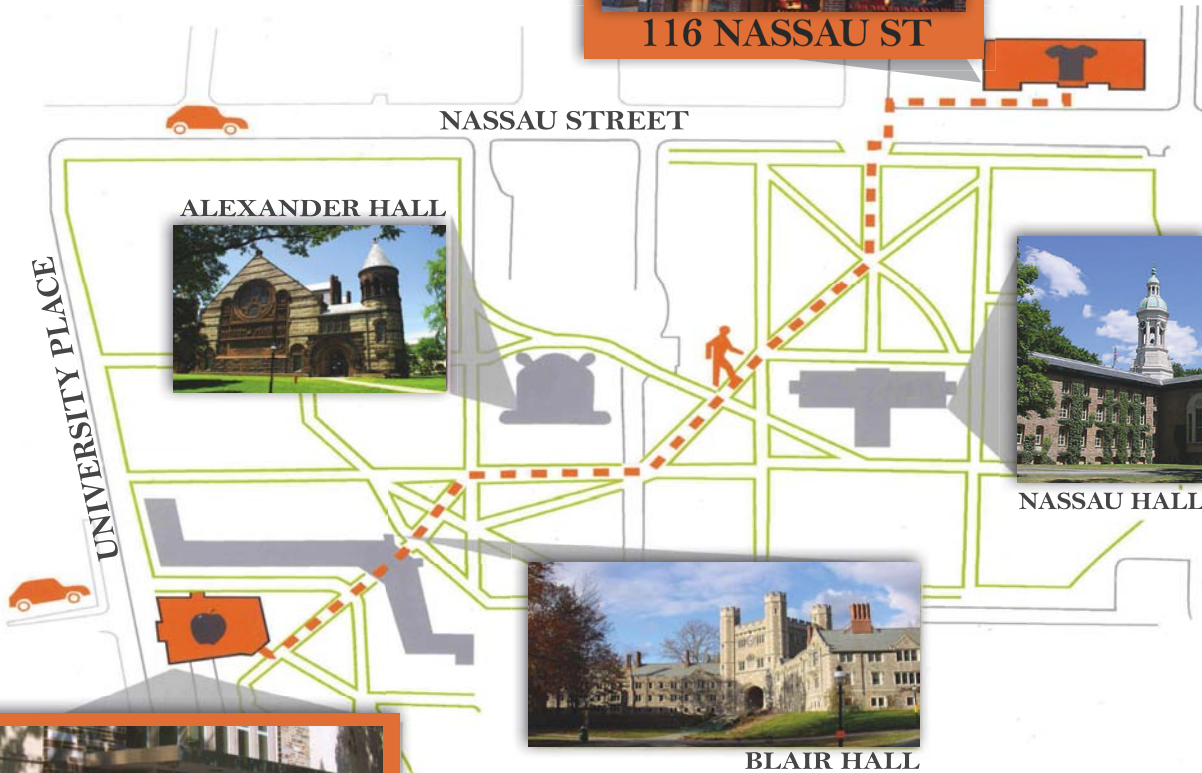
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