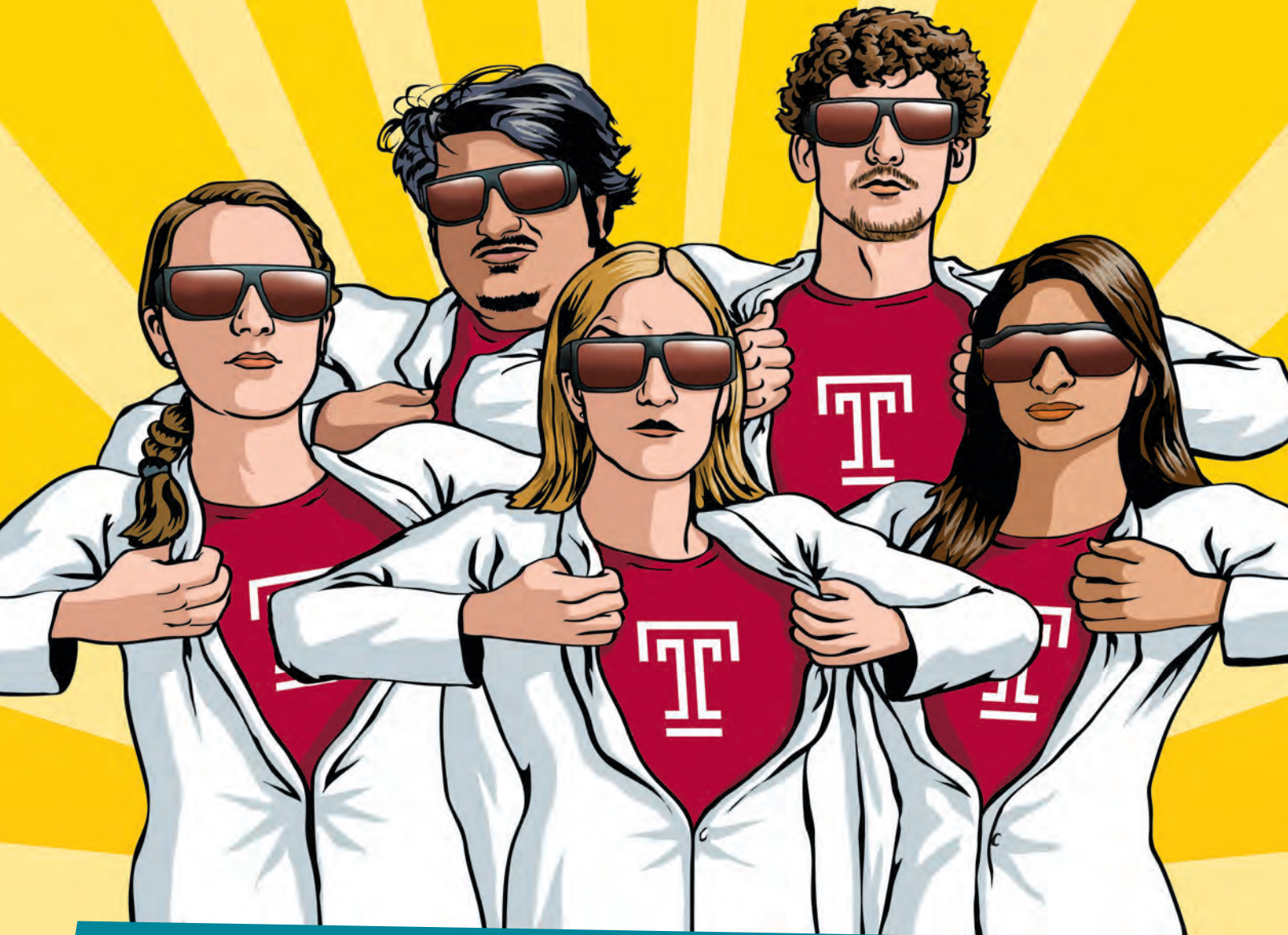


TEMPLE



LEAGUE OF EXTRAORDINARY SCIENTISTS
PERFORMING TINY FEATS WITH HUGE OUTCOMES!



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LIFE SUPPORT

Nursing students work to improve the health of homeless women.

TEMPLE

The promise of discovery drives Owls in all they do. In this issue, students create brand-new materials using lasers; researchers look to the human body to cure disease; and a women's shelter in North Philadelphia provides students with a real-world classroom.

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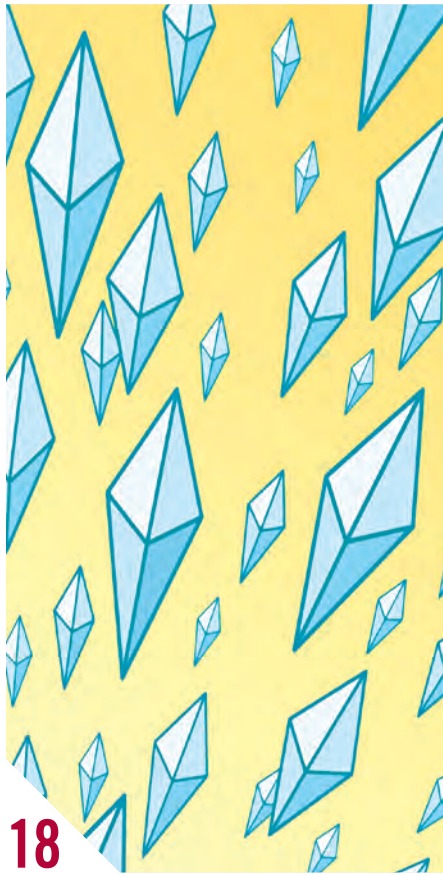
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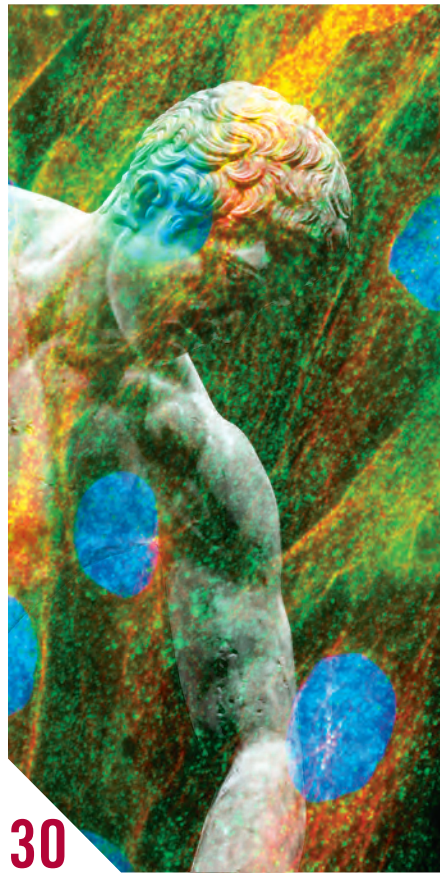


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The Sport Industry Research Center measures local programs that improve health and well-being.

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ON THE COVER: Through the Nanomaterials by Design project, students are using lasers to make new molecular materials. Illustration by JT Morrow.

WHAT DO YOU THINK?

Readers celebrate the fall issue for its content and design. Temple recognizes a piece of university history, and the past and future of two alumni.

FALL FANS



I want to echo others in complimenting you on your publication. Being an amateur photographer myself, I know what it takes to get well-composed, compelling shots, and your publication has them in abundance. When I read the articles, I find them to be inspiring, informative and well-written.

Though I work in information technology, I have worked closely with design professionals and know the importance of good design. From the choice of paper to the clean layout, your magazine has that as well.

In this day and age—when everything is going online—it’s refreshing to see a great print publication.

Ben Thomas, *ENG '97*, Downingtown, Pa.

Great story by Jared Malan, *POD '13*, about his experience at the 2013 Boston Marathon. Several of my friends were running in that marathon. All returned home safe, but with similar feelings of disbelief. Congratulations

to Jared for his strength of character and commitment to serve those with injury and in trauma. I just completed my third marathon and have seen what talented first responders can do in support of injured runners. Jared is a credit to Temple University.

Gerard Bodalski, *SSW '81*, Elm Grove, Wis.



Temple Stadium, in Philadelphia’s West Oak Lane neighborhood, housed the football team from 1928 to 1975.

Have you ever thought about doing a story about the history of Temple Stadium, which was located in the West Oak Lane section of Philadelphia? When I lived in the city, I can remember going to many football games there. The Eagles even used it as a practice facility. Next to the stadium was Temple Community College, from which I graduated in 1965. I bet many Temple people don’t know that Temple Stadium existed.

Stephen Pickholtz, *CLA '65, EDU '69*, Tabernacle, N.J.

Editor’s note: Temple Stadium was the home of Temple football from 1928 to 1975 and then of Temple men’s soccer until 2002. The Philadelphia Eagles did use it as their practice facility and played two professional games there. The stadium also hosted an all-star concert on May 16, 1970, which featured Jimi Hendrix, the Grateful Dead and the Steve Miller Band.

I really enjoy *Temple* magazine. I am a two-time Temple grad and reading the articles makes me proud to be Temple Made. After receiving my MBA, I made a career change from Temple employee to chef/entrepreneur. I particularly enjoyed your recent article “Daring Do’s (and Don’ts)” and can relate especially to Justin Rosenberg’s story!

Melissa Wiczorek, *FOX '93, '02*, Newtown, Pa.

Congrats on a wonderful magazine. The fall issue was particularly well-done. However, I was unable to find the credit for the fabulous photo on the cover. My husband (a diver) and I are also very curious whether this image was Photoshopped. Either way, it is outstanding.

Diane Mattis, Havertown, Pa.

Editor’s note: The woman in the photograph—taken by Jonathan Knowles—is model Funda Onal. We cannot confirm whether or not this image was Photoshopped.

JAMAICAN GREETING



Troy Jones, *SMC '00*, and Joy Woods-Jones, *SMC '99, SSW '05*, sent in this photo of their 13th wedding anniversary, which they celebrated in Negril, Jamaica. The couple met at Temple in 1998. Woods-Jones is director of Grandma’s Kids, a program in the Intergenerational Center at Temple.

To share your opinions with the *Temple* staff, email templemag@temple.edu or send a letter to *Temple Magazine*, TASB/1852 N. 10th St., Training Room 12, Philadelphia, PA 19122.

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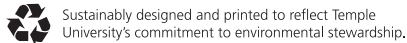
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sexual orientation, marital status or disability. This policy extends to
all educational, service and employment programs of the university.



KEY TO SCHOOL AND COLLEGE CODES

BYR	Boyer College of Music and Dance
CHPSW	College of Health Professions and Social Work
CLA	College of Liberal Arts
CST	College of Science and Technology
DEN	Kornberg School of Dentistry
EDU	College of Education
ENG	College of Engineering
FOX	Fox School of Business
HON	Honorary Degree
LAW	Beasley School of Law
MED	School of Medicine
PHR	School of Pharmacy
POD	School of Podiatric Medicine
SED	School of Environmental Design
SMC	School of Media and Communication
SSW	School of Social Work
TFM	Division of Theater, Film and Media Arts
THM	School of Tourism and Hospitality Management
TYL	Tyler School of Art

Homecoming 2013 at Temple University was an unforgettable weekend. It was the biggest Homecoming in Temple's history, with thousands of alumni and students celebrating their common bond as Owls.

It also was a big weekend for me as president. I had the opportunity to lay out a vision for Temple as a part of my inauguration ceremony in the historic Baptist Temple. During my address, I made several commitments to the university community that highlight goals we must pursue in order for Temple to be recognized as one of the great-est public urban universities in the nation.

Briefly, here are the commitments I've set forth:

- To illustrate how a Temple education can be both affordable and accessible
- To ensure the world is aware that excellent teaching is the hallmark of the university
- To bring Temple's intellectual resources to bear on behalf of Philadelphia and the commonwealth, so that this world-class city and Temple continue in their roles as national leaders
- To build a diverse and international learning community
- To conduct research that transforms lives in Philadelphia and around the world
- To be a leader in encouraging entrepreneurship across all disciplines, so students can create their own success, regardless of economic conditions

Notice that I call those items "commitments." That language is deliberate. They are not goals or objectives, which can be set aside or rewritten too easily.



Commitments are binding. They become a part of us, like a commitment to a spouse or a commitment to care for one's children. As Temple's 10th president, I vow to keep those commitments as essential parts of our vision for the university.

I value your views on where we can take Temple using those commitments. Feel free to contact me via email at president@temple.edu.

We all have a role in securing Temple's future. Please join me in making this vision of Temple a reality.

Neil D. Theobald
President, Temple University

Show us how you #CherryOn!

To share photos of you and your family decked out in cherry and white, post them on Facebook and Twitter with the hashtag #CherryOn or send them to templemag@temple.edu. Photos might appear in *Temple* magazine and Temple's online communities!

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Temple University Alumni Group

HISTORICAL PLAYER

In some ways, Joyce Lindorff likes to live in the past. A professor of keyboard in the Boyer College of Music and Dance, she has had a love affair with the harpsichord—a precursor to the piano—for most of her life. As a renowned harpsichordist, she has performed around the world and received recitalist awards from Pro Musicis and the National Endowment for the Arts.

Her latest album is titled Music From the Harpsichord Miscellany. Released on Boyer’s music label, BCM&D Records, it was performed on a 1758 instrument from the Colonial Williamsburg collection and based on a collection of rare, 18th-century sonatas.



Ryan S. Brandenberg

JOYCE LINDORFF

OCCUPATION: professor, keyboard

LOCATION: Boyer College of Music and Dance

How did you become interested in the harpsichord?

My first love was the piano, but in sixth grade, I got curious about its mysterious ancestor. I wrote a term paper about harpsichord pioneer Wanda Landowska. Finally, I was able to play one as an undergraduate at Sarah Lawrence College.

How is it different from a modern-day piano?

A harpsichord has a plucked-string keyboard. That prevailed from around 1500, but the piano had taken over by the late 18th century. Its hammers strike the strings, while a harpsichord’s action is like a guitar.

Is the community of harpsichord players and enthusiasts a large one?

It is growing every day! The harpsichord’s sound is essential for playing Baroque music, but in the 20th century, composers who wrote for the harpsichord included Igor Stravinsky, John Cage and Duke Ellington. You can hear its distinctive sound on many rock and pop tracks, including the Beatles’.

What do you love about the harpsichord?

First I fell in love with its beautiful sound. Then I began to appreciate its historical connection, learning about earlier playing styles and bringing forgotten notes back to life.

How does your understanding of that instrument influence your teaching?

I like to think of my classroom as a laboratory for experimenting with earlier traditions. Because older music comes from such a different time and place, we need to “learn the language”—how to translate centuries-old musical notation into live, meaningful sounds. Touch, ornaments, tuning—all those were quite different between the 16th and 18th centuries.

Do your students share your appreciation for the harpsichord?

They do a great job! Some have made it a big part of their performing lives after graduation. Early music has entered the classical mainstream, so knowing how to play, improvise and tune the harpsichord is a plus.

> To watch a video interview with Lindorff, visit temple.edu/templemag/lindorff.

NEWS

Whether scientific, intellectual or creative, new approaches to work are sought constantly by Temple students and faculty. For example, arts and science faculty create and produce a “robot opera”; students find their own way to express Owl pride; and a psychology researcher explores better learning through video chats.

SMART STATS

Green Party

Temple has adopted myriad imaginative ways to improve its environmental footprint, especially in the university’s newest buildings.

Rhiana Irvine



Pearson and McGonigle Halls utilize harvested rainwater to flush toilets. As a result, the amount of water used in flow fixtures decreased by 73 percent. Additionally, about 58 percent of the complex’s materials are made from recycled content.



The **Architecture Building** has a 9,251-square-foot green roof, which covers 67 percent of the entire roof surface. Such roofs reduce runoff volume, mitigate the urban heat-island effect and provide habitation for wildlife.



An approximately 4,500-square-foot solar array sits on the roof of **Edberg-Olson Hall**. It is the first solar project of its kind at a college or university in Philadelphia and supplies Temple with solar power.



Morgan Hall boasts stormwater-management features, including the use of gray water—used water from sinks and basins—to flush the public bathrooms on the building’s first four floors.

> To learn more about sustainability efforts at Temple, visit sustainability.temple.edu.

Whiz Kids

This year’s freshmen and new transfer students are the most academically qualified Owls in Temple history.

The approximate average SAT score of Temple freshmen is **1129**, 119 points higher than the national freshman average.

An all-time high of about **525** freshmen are enrolled in the Honors Program.

The projected average SAT score of Honors freshmen—**1371**, another record—is up 37 points from 2012.

The projected average high school grade-point average of Temple freshmen is **3.44**, a new Temple record.

Temple rose in the ranks of *U.S. News & World Report*, moving from No. 125 to **No. 121** among the top national institutions of higher education.

HILLEL J. HOFFMANN

NEW INVESTIGATOR

A new, two-year, \$150,000 grant will support the research of William Wuest, assistant professor of chemistry in the College of Science and Technology. Wuest is developing new molecules to function as therapeutics that could inhibit the processes of bacterial biofilms, which cause bacteria to become resistant to antibiotics. To do so, he has been awarded one of the first New Investigator Research Grants from the Charles E. Kaufman Foundation.

Biofilms are especially prevalent in hospital settings and can lead to chronic microbial infections such as MRSA, urinary-tract infections, catheter infections and heart-valve infections.

“Our group is interested in molecules that are involved in the biofilm process,”

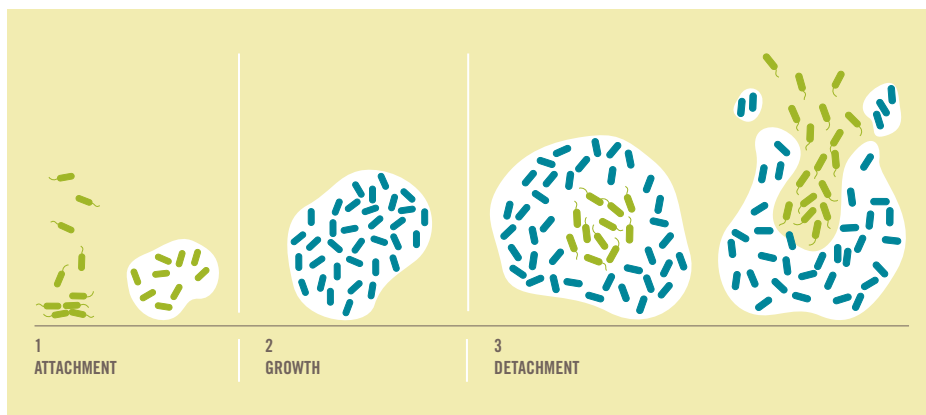
Wuest says. “We focus on making modified compounds that mimic the natural shape, but are designed strategically to shut down biofilm formation. The general idea is to confuse the bacteria into using our compounds, short circuit the system and, ultimately, kill the bugs.”

Wuest’s group is working with cyclic di-GMP, a molecule found in the majority of bacteria. The team is one of only a handful of research groups focusing on this molecule as a novel way of attacking the biofilms-infection problem.

The Charles E. Kaufman Foundation was established in 2006 to support scientific research in Pennsylvania’s institutions of higher education. [PRESTON M. MORETZ, SMC '82](#)

“The general idea is to confuse the bacteria into using our compounds, short circuit the system and, ultimately, kill the bugs.”

—WILLIAM WUEST, ASSISTANT PROFESSOR OF CHEMISTRY, COLLEGE OF SCIENCE AND TECHNOLOGY



BIOFILM LIFE CYCLE

The life cycle of a biofilm happens in three stages:

1. Bacteria attach to a surface and begin to colonize it.
2. The biofilm community grows, often within a few hours.
3. The biofilms disperse through clumps of cells or by individual cells.



Curated Stacks, a new exhibit in Paley Library, showcases research materials creatively.

VISUAL BIBLIOGRAPHY

A new library project allows patrons to display their research sources and methods in a creative and nontraditional format.

Called *Curated Stacks*, the exhibit will be assembled and installed by library users who have found materials in Temple Libraries’ collections for research articles, course assignments or multimedia projects.

“The *Curated Stacks* exhibit is a great way to introduce the larger campus to what goes on behind the scenes and how students are using the library beyond checking out books or using the databases,” says Jill Luedke, subject specialist for architecture, visual art and art history at Paley Library on Main Campus.

The current display is based on materials assembled by Phoebe Bachman, Class of 2014, a sculpture major in the Tyler School of Art. Using book covers from sources she applied to her research about women’s activist art in public spaces, Bachman included photocopies of articles, a complete bibliography and a description of her research project.

Bachman says, “It’s a way for students to see what other students are working on, and perhaps find something that piques their interest or inspires them.”

[JOSEPH B. SCHAEFER, SMC '13](#)



The HBO series *Boardwalk Empire* featured Temple in a storyline last season.

TEMPLE EMPIRE

In the fall, the HBO series *Boardwalk Empire* introduced an unexpected addition to its cast: Temple. Willie Thompson (above, left), the nephew of main character Nucky Thompson, was a sophomore at Temple trying to further his education while taking an interest in the family bootlegging business.

In the season opener on Sept. 8, Willie regales his family with the Temple fight song during dinner. In an episode that aired Sept. 21—titled “Acres of Diamonds”—Willie and his friends listen to a recording of Temple Founder Russell Conwell’s famous speech that reflects Temple’s mission.

The recurring references piqued the curiosity and interest of students, staff and alumni, and prompted an inquiry into why the university was featured so prominently.

“Because of Atlantic City’s proximity to Philadelphia, I thought it made sense for Nucky’s nephew to attend Temple, which would enable him to go home as frequently

as he wanted—and, more importantly, as frequently as our story required,” says Terence Winter, creator and executive producer of *Boardwalk Empire*.

Though many of the show’s characters are fictionalized, Winter has said that he has tried to make other elements as accurate as possible. That accuracy is thanks in part to alumnus Edward McGinty, FOX ’89, whom Winter hired as a research consultant for the show. McGinty grew up in Atlantic City, where his grandfather worked as head bellman at the Ritz-Carlton Hotel and where the real-life Nucky lived.

As for the Sept. 22 episode that was named after and included snippets of Conwell’s iconic speech, Winter explains, “I discovered [the speech] last year and was so taken with it, I decided to feature it and even name an episode after it.” **RENEE CREE, SMC ’12**

> To read “Acres of Diamonds,” visit temple.edu/about/history/acres-diamonds.

ETHICAL DECISION

The Department of Journalism at Temple is now one of the few programs in the nation to have its own code of ethics for student journalists.

Though many programs throughout the country refer students to codes used by professionals, Journalism Department Chair Andrew Mendelson says the faculty felt it should create a code that focuses on the student-journalist experience and reflects today’s media environment.

“We wanted to create a unique product using everyday language that addresses the types of ethical decisions and dilemmas students might face during their time at Temple,” says Assistant Professor Lori Tharps, who helped write the code with Professor Emeritus Thomas Eveslage.

The code was distributed to students at the start of the semester in many undergraduate and graduate classes. It is presented as a series of do’s and don’ts, such as, “Don’t fabricate”; “Do be independent”; and “Do hear from many voices.”

Mendelson says strong journalistic ethics are even more important in the age of digital media, which brings with it many ways to cross ethical boundaries mistakenly.

He explains, “There are so many new opportunities for doing things that impact your credibility, such as sending out a tweet that you didn’t verify.”

Tharps notes, “A student journalist is still a journalist and needs to have a clear ethics code to follow.” **JEFF CRONIN**





Whoopi Goldberg, recipient of the Lew Klein Excellence in the Media Award, offers advice to students in the School of Media and Communication during a question-and-answer session.

“You can look however you want to look; you can sound however you want to sound. But you’ve got to know what’s going on in the world and how it pertains to you, so that when something goes down, you know why and how, maybe, you can fix it.”

—WHOOPI GOLDBERG, 2013 LEW KLEIN EXCELLENCE IN THE MEDIA AWARDEE, OCT. 17, 2013, MAIN CAMPUS

ACCESS GRANTED

Through the W.W. Smith Charitable Trust Scholars Program, 90 Temple students were awarded \$169,000 collectively in the 2012-2013 academic year, and another 75 students will receive \$150,000 this year.

“I am forever grateful to the trust for awarding me and my fellow Temple students the privilege of stressing a little less about financing our college educations,” says Samantha McNulty, Class of 2015, a

scholarship winner and an environmental-studies major.

Grants range from \$2,000 to \$5,000 per student and are awarded to undergraduates in good academic standing from the Delaware Valley area whose financial need cannot be met by other aid programs.

JOSEPH B. SCHAEFER, SMC '13

> To support today’s Temple students, visit giving.temple.edu/scholarships.

WINNING WORK

A senior journalism major kicked off her final year at Temple by winning a College/University Student Production Award for Excellence from the National Academy of Television Arts & Sciences. Isabel Garcia emerged from the 2013 Mid-Atlantic Emmy Awards ceremony in September as a winner in the “College/University News” category.

Her story about sustainability efforts in London during the 2012 Summer Olympic Games was a part of the *Temple @ the London Olympics* series on TUTV-Temple University Television. For that series, five Temple students and Bill Mooney, assistant professor of media studies and production, reported from London on how the games affected the city.

Garcia interviewed an architect responsible for the design of Olympic venues and how they would be reused after the games had ended.

“I became very involved with the story,” Garcia says. “I think it helps if you have a passion and, as Kal Rudman, *EDU '57*, [founder of Temple’s television production center] would say, ‘a fire in your belly.’”

JEFF CRONIN

> To watch Garcia’s winning report, visit temple.edu/templemag/GarciaEmmy.



TEMPLE AND EMMY

Temple students and faculty members were nominated by the National Academy of Television Arts & Sciences’ Mid-Atlantic chapter for four other awards in 2013:

College/University Newscast

College/University Long-form Fiction

College/University Long-form Nonfiction

College/University Sports

A total of **five Temple students** have won College/University Student Production Awards for Excellence since the National Academy of Television Arts & Sciences launched its student program in 2011.

“If we have students out borrowing money, that’s when I get very concerned. Right now, our average debt is \$32,000 per student. Our goal is to get that under 30 in the next two years.”

—TEMPLE PRESIDENT NEIL D. THEOBALD, *PENNSYLVANIA CABLE NETWORK*, “FINANCING HIGHER EDUCATION AND STUDENT LOAN DEBT,” *AUG. 27, 2013*

R2 SINGS, TOO

Two Temple professors have introduced the world to robot opera. In September, three robots joined five singers and a chorus to present *Galatea_Reset* in Temple’s Conwell Dance Theater on Main Campus. The robots produced all the music and sounds, and portrayed characters.

Galatea_Reset is a collaboration between Maurice Wright, Laura H. Carnell Professor of Music Composition in the Boyer College of Music and Dance, and Rolf Lakaemper, associate professor of computer and information sciences in the College of Science and Technology. It tells the mythological story of sculptor Pygmalion, who falls in love with a creation of his that comes to life. Wright and Lakaemper have spent the past year and a half developing the opera.

Wright wrote most of the production’s music using an open-source computer-music programming language called Pure Data, which allows the robots to create music and sounds. Lakaemper, whose research focuses on rescue robots, wrote a Java program that controls the robots’ movements.

“With this project, I think we had a challenge as difficult on the scientific and engineering side as it was on the creative-arts side,” says Lakaemper, who also is a percussionist and pianist, and contributed approximately five minutes of the musical score.

The robots also donned costumes designed by Sandra James, systems support specialist and webmaster in Boyer.

PRESTON M. MORETZ, SMC '82

SKYPE ME!

When we respond to children in timely and meaningful ways, they learn—even when responses come from a screen. A new study from researchers at Temple, the University of Washington and the University of Delaware finds that children are able to learn new words through live video-chat technology, such as Skype.

“Our findings highlight the importance of responsive interactions for language learning,” says Kathy Hirsh-Pasek, Stanley and Debra Lefkowitz Professor of Psychology and co-author of the study “Skype Me! Socially Contingent Interactions Help Toddlers Learn Language.”

During the study, three dozen 2-year-olds were randomly assigned to learn new verbs in one of three ways: training with a live person; training through video-chat technology; or watching a DVD of the same person instructing a different child located offscreen.

The researchers found that children learned new words only when either conversing with a person face-to-face or when interacting via live video chat, both of which involved responsive, back-and-forth social interactions. They were not able to learn the new words through the prerecorded instruction on DVD.

Children who learned in the two environments that involved real-time conversations even used the new words to label the actions when different people performed them.

“The research has important implications for language learning,” Hirsh-Pasek says. “Children are less likely to learn from DVDs and televised programming than from live, responsive interactions with caring adults. Young children are not good at learning language if they’re merely parked in front of screen media.” **KIM FISCHER, CLA '94**



John McCarthy, *BYR '10*, performs as Pygmalion in *Galatea_Reset*.

Fred Lee



OWLS LAND AT GMA

Temple students took over the set of ABC's *Good Morning America* for two of the morning show's "College Week" broadcasts in September. On Sept. 10, members of the Diamond Marching Band performed at the ABC studios in Times Square. And on Sept. 12, busloads of Temple students, including the Cherry Crusade, descended on the studios for a pep rally.

HILLEL J. HOFFMANN

> To watch a video of Temple students on *Good Morning America*, visit temple.edu/templemag/GMA.

CHERRY ON

To build school spirit among students, faculty, staff and alumni, Temple Student Government (TSG) launched Cherry On Fridays. All Owls fans are encouraged to wear cherry and white each Friday throughout the academic year.

"Temple continues to rise nationally in every way possible," says TSG President Darin Bartholomew, a senior in the Fox School of Business. "This is just another way to show our pride."

Promotions began during freshman orientation and continued as students moved in during Welcome Week. Members of TSG distributed T-shirts and spread the word via social media. **VAUGHN SHINKUS, FOX '09**



Ryan S. Brandenberg

Joseph V. Labolito



Running back Zaire Williams, Class of 2017, helps bring the Owls to victory during the Homecoming game against Army.

GRIDIRON STANDOUTS

Several of the Owls' younger players had noteworthy performances this season. Freshman quarterback P.J. Walker was recognized by the College Football Performance Awards as an honorable mention "Quarterback of the Week." Linebacker Nate Smith and wide receiver Robby Anderson, both sophomores, earned a spot on the American Athletic Conference's weekly honor roll and the American Athletic Conference Honor Roll, respectively.

Senior Punter Paul Layton also earned notoriety. In October, he was named both "National Punter of the Week" by the College Football Performance Awards, and "Special Teams Player of the Week" by the American. He also was nominated for the Ray Guy Award, which honors the nation's top collegiate punter. Layton was ranked second in the conference in punting, averaging 45.1 yards per punt. **RENEE CREE, SMC '12**



USE, CLEAN, REUSE

A new material for removing contaminants from wastewater that is more effective, reusable and environmentally friendly than current methods has been developed by researchers in Temple's Water and Environmental Technology (WET) Center in the College of Engineering.

The researchers used cyclodextrins—a family of compounds made up of glucose molecules—to develop the adsorbent (which clings to substances rather than being absorbed into them). It could have a positive impact on the water-treatment, pharmaceutical, chemical and manufacturing industries, says Rominder Suri, professor of civil and environmental engineering and director of the WET Center.

Suri says that cyclodextrins have a much higher affinity for attracting organic compounds than activated carbon, currently the material used most commonly by industry to remove wastewater contaminants.

"Activated carbon is very porous, and water—whether it be surface water, groundwater or wastewater—contains a lot of natural organic matter," Suri says. That organic matter blocks the pores of the activated carbon, which then prevents contaminants also in the water from entering the pores.

Suri explains that the new adsorbent has a cavity-like area that traps the contaminants. The size of the cavity can also be increased or reduced. "That means we can potentially manipulate this substance to target and remove select contaminants—something that activated carbon cannot do," he says.

Though cyclodextrins are water-soluble, the researchers have made the new adsorbent insoluble and easily attachable to surfaces such as sand, glass, silica and filter paper.

Thus far, they have found that it has removed more than 90 percent of tested contaminants, Suri says.

"This new material has much less surface area than activated carbon, especially if you coat it on sand," he notes. "But our results demonstrate that it has comparable, or even better, capacity than activated carbon. And it has the potential to be even more efficient by coating it on porous, high-surface materials."

The team has tested several batches of the material through four different cycles of using, cleaning and reusing, and it continues to work with the same effectiveness.

"Activated carbon is one and done," he says. "Once it has been used, it will be either landfilled or reactivated through a very energy-intensive and expensive process."

PRESTON M. MORETZ, SMC '82

MEDICAL ADVANCE

Diffregen LLC, a Temple startup company, is now able to advance Angiocidin—a university-created therapeutic to treat acute myeloid leukemia (AML)—closer to human clinical trials. The National Cancer Institute awarded Diffregen a one-year, \$289,000 Small Business Innovation Research (SBIR) Phase I grant.

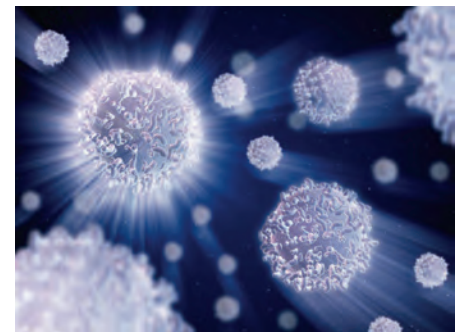
Discovered by Emeritus Professor of Neuroscience George Tuszyński, Angiocidin is a novel tumor-inhibiting protein that has shown effectiveness against AML in early preclinical testing.

Acute myeloid leukemia halts the maturation of white blood cells, causes immune-system suppression, and leads to secondary problems such as infection and pneumonia. Angiocidin has demonstrated the ability to stimulate maturation in the affected white blood cells, causing them to behave and function like normal cells.

The SBIR grant will allow Diffregen to begin manufacturing Angiocidin, confirm key data in a third-party lab and extend studies in models of AML, says Deni Zodda, CEO of Diffregen.

Once data are gathered and compiled, the company will have a basis for which to gain permission from the U.S. Food and Drug Administration to test Angiocidin in humans.

The drug will be the university's second-most-advanced therapy behind Rigosertib, a cancer therapy licensed by Onconova Therapeutics that is now in advanced clinical trials. **PRESTON M. MORETZ, SMC '82**



TUAA NEWS

Homecoming 2013 celebrates the people, the pride and the promise of Temple; Owls transform communities around the world; and the TUAA wants to hear from you!

HOMECOMING 2013 HIGHLIGHTS



Joseph V. Labolito



"I believe that we have won!" filled Lincoln Financial Field as Head Football Coach Matt Rhule earned his first win when Temple defeated Army, 33-14, in front of more than 25,000 cheering fans.



Betsy Manning, SMC '87, CIA '08

Temple's iconic "T" decorated Philadelphia, from the lights of the Cira Centre to the *flags along North Broad Street.*



Jim Roese, TY '85

Alumni rekindled old connections and made new ones at *The Temple News*, Diamond Marching Band and Residence Life *reunions.*

Jim Reese, TUL '85



Nearly **200 Owls** burned off tailgate indulgences at the *Homecoming 5K and Family Fun Walk* on Sunday morning.



Betsy Manning, SMC '87, CLA '08



Forty-two groups hosted tents along Alumni Tailgate Row—up from 17 in 2012—and welcomed thousands of visitors, making it the largest-ever Temple tailgate!

Mitchell Leff, THW '07



Members of the men's and women's basketball teams flaunted their off-the-court moves at The Liacouras Center during the *Cherry and White Night Basketball Open House*.

> To see photos from Homecoming 2013 and take a survey about the events, visit alumni.temple.edu/homecoming.

GLOBAL DAY OF SERVICE BY THE NUMBERS

Designed to unite Temple Owls worldwide in community service, the Temple University Alumni Association held its inaugural Global Day of Service Saturday, Nov. 9, 2013.

1

day

8

states

More than
350

volunteers

3

countries

27

volunteer events

Nearly
20

charities and causes

13

cities

> To see photos from Global Day of Service events, visit alumni.temple.edu/dayofservice.

Wanted by the TUAA!

The TUAA is accepting nominations for officers and directors-at-large for the July 2014-June 2016 term. To learn more about the TUAA and nominate yourself or another alumnus for a position, visit alumni.temple.edu/TUAA nominations. Nominations will be accepted through Feb. 28, 2014.

SAVE THE DATE!

ALUMNI WEEKEND 2014

APRIL 25-27

To find out about all upcoming alumni events, visit alumni.temple.edu/alumnievents.



[facebook.com/templealumni](https://www.facebook.com/templealumni)



@TempleAlumni



Temple University Alumni Group



@TempleAlumni

A NEW DAY

TEMPLE CELEBRATES PRESIDENT NEIL D. THEOBALD.

The university marked the formal investiture of Neil D. Theobald as Temple University's 10th president Oct. 18. The celebration included a ceremony in the historic Baptist Temple on Main Campus; daylong academic symposia about financing higher education, libraries in the digital age, disparities in urban healthcare and more; and a concert

that showcased the talented students in the Boyer College of Music and Dance.

It was an exciting opportunity for the entire Temple community to celebrate and reflect on the university's history and traditions, its presence in Philadelphia and the world, and its vision for the future.



Ryan S. Brandenberg

2



1. Inauguration delegates from Philadelphia and across the U.S. process through Temple's main gates to enter the Baptist Temple.
2. The Diamond Marching Band plays on Liacouras Walk as delegates enter the Baptist Temple before the ceremony.
3. During the ceremony, Pa. Gov. Tom Corbett calls Temple "one of Pennsylvania's educational treasures."
4. Board of Trustees Chair Patrick J. O'Connor presents President Theobald with the chain of office, signifying his official investiture.

3



4



SEAL THE DEAL

The chain of office and medallion, created specially for President Theobald's investiture, are symbols of the office that the president wears on official and ceremonial occasions. During the inauguration ceremony, Board of Trustees Chair Patrick J. O'Connor placed the medallion around the president's neck, recognizing the official investment of authority as the university's chief executive officer.

The front of the medallion is emblazoned with the official seal of the college, which comprises the university's name and its date of incorporation, a Greek temple, and the motto "Perseverantia Vincit" (Perseverance conquers).



The chain is adorned with symbols representing Temple's original schools and colleges.

The back of the medallion features an image of Temple Founder Russell H. Conwell and the phrases "Knowledge With Honor" and "Wisdom Through Diligence."



Ryan S. Brandenberg

1. President Theobald lays out his vision to make Temple more affordable, more entrepreneurial and more committed to serving the city of Philadelphia, the commonwealth and the nation.
2. President Theobald gathers with dignitaries at a reception celebrating his inauguration.
3. Speakers at academic symposia across Main Campus address pressing issues facing Philadelphia, the nation and the world.
4. President Theobald's wife, Sheona Mackenzie (second from right), and their family cheer on President Theobald during the inauguration ceremony.
5. The Boyer Mosaic Concert caps off the inauguration festivities.



Joseph V. Labalillo



Bryan Smith

TALKING POINTS

Temple scholars and scientists discussed issues confronting Temple and the world during six academic symposia held on Main Campus.



Back to Basics:
Food, Clothing and Shelter



Frontiers in
Computational Science



The Library in the Digital Age:
Communities, Collections, Opportunities



Health Disparities and
Urban Healthcare



Financing Higher Education



Medicine in the 21st Century

“Living here on the urban frontier allows Temple to seamlessly embrace its commitment to the power of diversity. Homogeneity is a death sentence in the modern world.”

— NEIL D. THEOBALD, *PRESIDENT, TEMPLE UNIVERSITY*



4

Ryan S. Brandenberg
Jeff Fusco



5



Betsy Manning, SMC '87, CLA '08

VISION

In his inaugural address, President Theobald shared his vision for Temple's future, including these six commitments to the university.

- To show the world how higher education can be both affordable and accessible
- To ensure that the world is aware that excellent teaching is the hallmark of Temple
- To bring Temple's intellectual resources to bear on behalf of Philadelphia and the commonwealth, so that both the city and Temple continue in their roles as national leaders
- To build a learning community that is diverse and international
- To conduct research that transforms lives in Philadelphia and around the world
- To be a leader in encouraging entrepreneurship across all disciplines, so Temple students create their own success regardless of economic conditions

To watch President Theobald's full address, visit inauguration.temple.edu/watch-presidents-speech.

NANOHEROES



A TEAM OF STUDENTS IN THE COLLEGE OF SCIENCE AND TECHNOLOGY MAKES NANOMIRACLES!

IN THE LABORATORY OF ROBERT LEVIS, CHAIR OF THE DEPARTMENT OF CHEMISTRY, OUR HEROES OF THE NANOMATERIALS BY DESIGN PROJECT CREATE NEW MATERIALS WITH THE HELP OF A SUPER-INTENSE, SUPER-FAST LASER—THE FEMTOSECOND LASER.

STORY BY RENEE CREE, SMC '12
ILLUSTRATIONS BY JT MORROW

WHEN IT COMES TO NANOMATERIALS, SIZE MATTERS.

WE'RE THE FIRST RESEARCHERS TO GET FEMTOSECOND LASERS INTO INDUSTRY-RELEVANT CHEMISTRIES. NO ONE IS TALKING ABOUT THIS LEVEL OF INTERACTION WITH INDUSTRY—PRODUCING THESE NEW MATERIALS WITH SHAPED FEMTOSECOND LASERS.

A LOT OF PEOPLE HAVE DISCOVERED YOU CAN MAKE PARTICLES USING NANOSECOND LASERS, BUT THERE ISN'T A LOT OF CONTROL YOU CAN EXERT WITH THEM TO LIMIT THEIR RANGE OF SIZES.

ROBERT LEVIS

WHEN YOU MAKE NANOMATERIALS, SIZE AND SHAPE DETERMINE THEIR PROPERTIES. BECAUSE THEY'RE SO SMALL, THEY'RE JUST BIGGER THAN THE ATOMIC MOLECULAR SCALE. THAT'S WHY THE HOLY GRAIL IS TO MAKE ANY SIZE WITH A NARROW DISTRIBUTION.

SHALAKA DEWAN, CLASS OF 2016, RACES AROUND THE LAB, GATHERING MATERIALS FOR AN ILLUMINATING EXPERIMENT THAT CURRENTLY ISN'T WORKING.



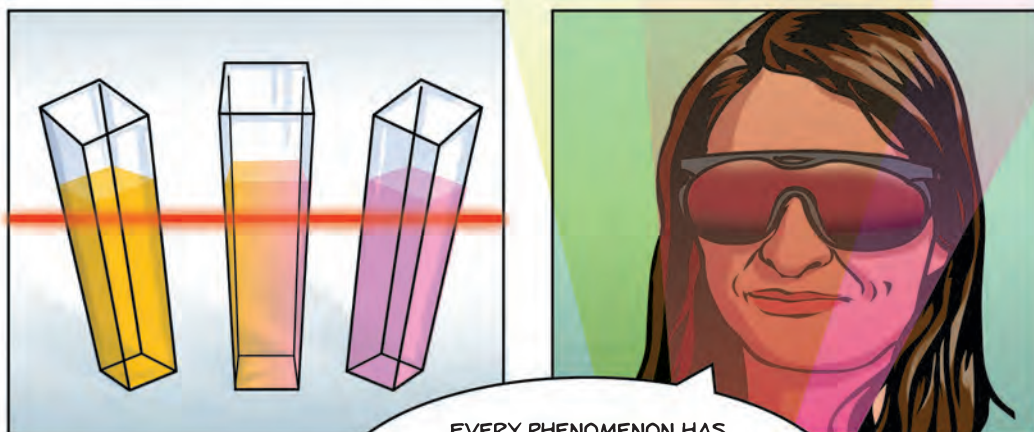
KATE MOORE TIBBETTS

JOHANNAN ODHNER



NANOMATERIALS ARE TINY PARTICLES THAT CAN BE USED IN MYRIAD WAYS, INCLUDING BIOIMAGING, DRUG DELIVERY AND EVEN AUTOMOTIVE REPAIR.

KATE MOORE TIBBETTS, A POSTDOCTORAL RESEARCHER, AND BEHZAD TANGEYSH, CLASS OF 2017, ARE TRYING TO CREATE GOLD NANOPARTICLES OF UNIFORM SHAPE AND SIZE. WHEN THEY FIRST TURNED ON THE LASER, THEY FOUND THAT THE SOLUTION OF PARTICLES CHANGED COLOR EVEN WITHOUT THE LASER—INDICATING THAT NANOPARTICLES WERE STILL BEING MADE. THAT WAS A NEW FINDING! THE LASER WAS TURNING THE WATER INTO HYDROGEN PEROXIDE, WHICH WAS DRIVING THE REACTION TO CONTINUE AFTER THE LASER HAD BEEN TURNED OFF.



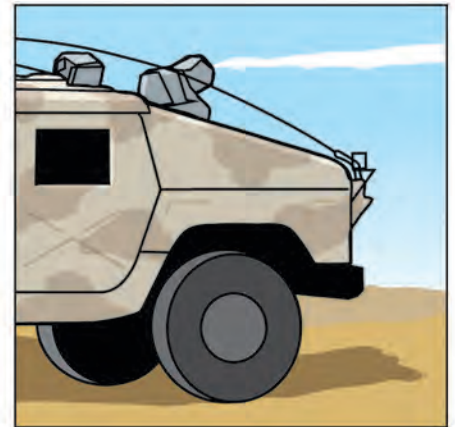
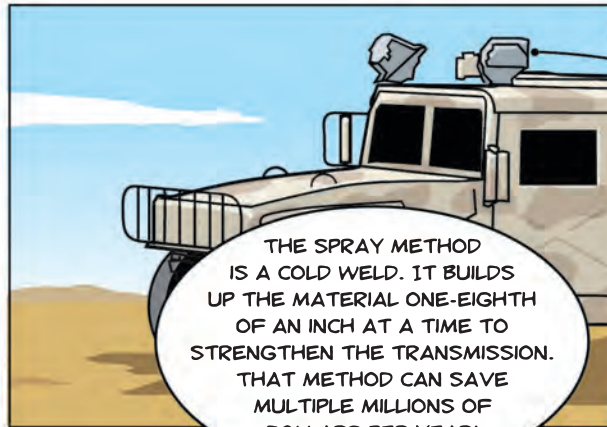
THE UNCEASING NOISE IN THE LAB FORCES POSTDOCTORAL RESEARCH FELLOW JOHANAN ODHNER TO WHISTLE CONSTANTLY!



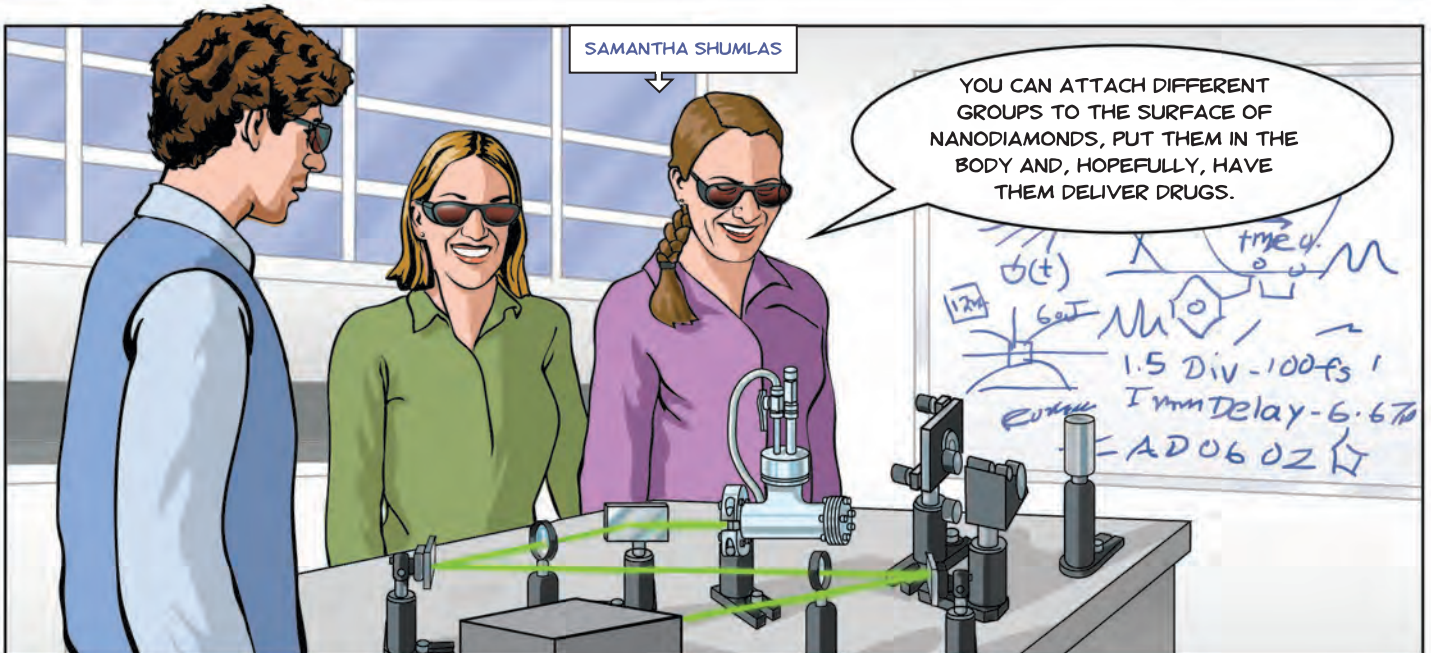
EACH OF OUR HEROES DRAWS ON SPECIFIC SKILLS AND KNOWLEDGE TO GET THE JOB DONE. SHALAKA DEWAN, CLASS OF 2016, IS STUDYING HOW TO USE THE LASER TO CREATE SILICON NANOPARTICLES THAT WILL GLOW UNDER ULTRAVIOLET LIGHT. THAT PROCESS CAN BE USED IN BIOIMAGING.

IT COULD BE A SIMPLER PROCESS THAN CURRENT METHODS, BUT THE INTENSITY OF THE LASER CAUSES THE SOLUTION TO LIGHT UP, RATHER THAN ONLY THE SILICON.

THE DRIVER OF NANOMATERIALS BY DESIGN IS TO IMPROVE COLD SPRAY, A REPAIR TECHNIQUE USED BY THE U.S. MILITARY. FOR EXAMPLE, IF THE BEARINGS IN A HUM-VEE'S TRANSMISSION COME LOOSE, THEY CAN BE REPAIRED BY FIRING MICRON-SIZED ALUMINUM PARTICLES FROM A HELIUM JET NOZZLE INTO THE BROKEN AREA—SORT OF LIKE SPRAY-PAINTING.



NOW, THE MILITARY WANTS TO FIND OUT HOW THE LASER CAN CREATE PURER FORMS OF THOSE PARTICLES AND DO SO IN A MORE CONTROLLED MANNER.

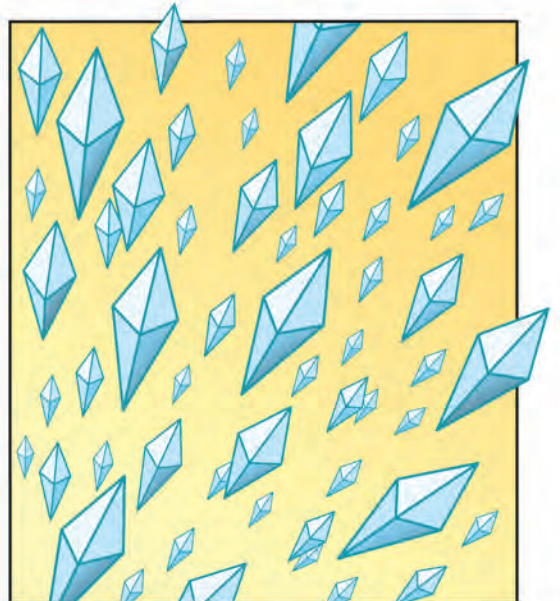


BACK IN THE LAB, GRADUATE STUDENT SAMANTHA SHUMLAS IS CREATING CARBON OUT OF THIN AIR. HER GOAL IS TO CREATE NANODIAMONDS, WHICH CAN BE USED IN LUBRICANTS, OILS AND DRUG-DELIVERY SYSTEMS.

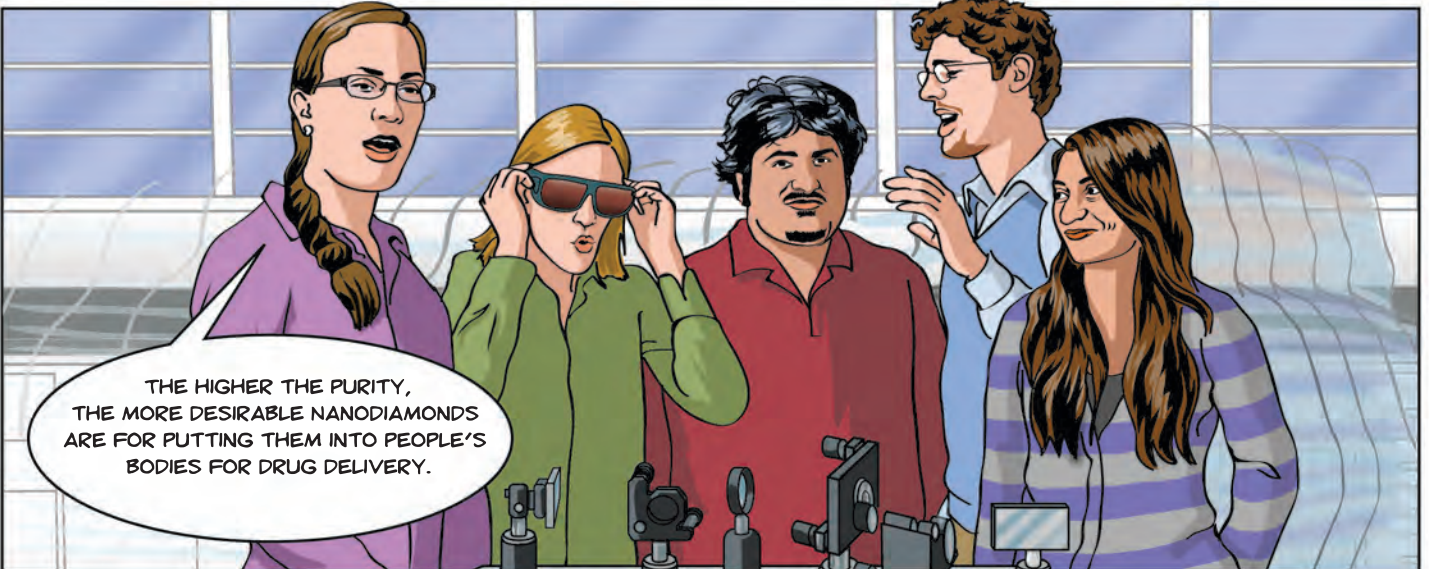
THERE'S CURRENTLY NO EFFECTIVE WAY TO MAKE NANODIAMONDS. IN THE 1960S, RUSSIAN SCIENTISTS FOUND THAT THE CARBON CONTAINED IN EXPLOSIVES COULD CREATE TINY DIAMOND PARTICLES UPON DETONATION. HOWEVER, IT REQUIRES VAST AMOUNTS OF SPACE AND IS TIME-CONSUMING AND SOMEWHAT DANGEROUS.



YOU BASICALLY HAVE TO BLOW STUFF UP!



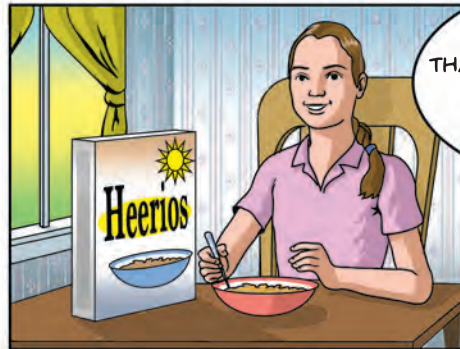
THE HIGHER THE PURITY, THE MORE DESIRABLE NANODIAMONDS ARE FOR PUTTING THEM INTO PEOPLE'S BODIES FOR DRUG DELIVERY.



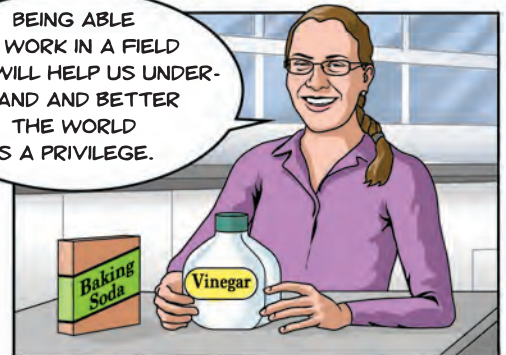
USING A LASER TO CREATE THESE PARTICLES IS QUICKER, MORE CONTROLLED AND LESS DANGEROUS THAN USING EXPLOSIVES, AND COULD CREATE A PURER FORM OF NANODIAMOND.

SHUMLAS HAS LOVED SCIENCE SINCE THE FIFTH GRADE, WHEN SHE LEARNED HOW TO USE MAGNETS TO EXTRACT IRON FROM HER BREAKFAST CEREAL. NOT LONG AFTER THAT, SHE BEGAN USING BAKING SODA AND VINEGAR TO CREATE MINI-ERUPTIONS IN HER KITCHEN AT HOME.

THERE IS ALWAYS SOMETHING NEW TO LEARN OR DISCOVER.

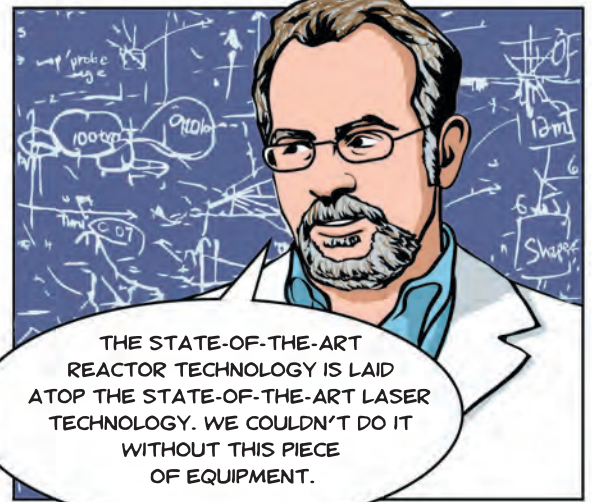


BEING ABLE TO WORK IN A FIELD THAT WILL HELP US UNDERSTAND AND BETTER THE WORLD IS A PRIVILEGE.



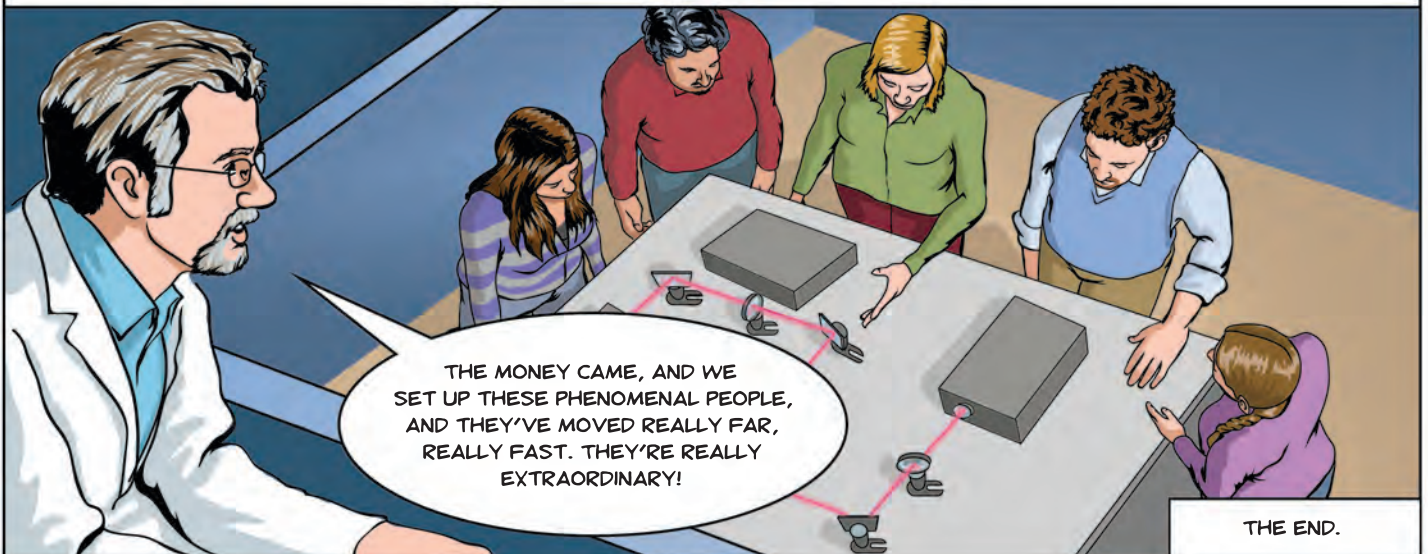
LEVIS RECENTLY RECEIVED A HYDRODYNAMIC NANOPARTICLE REACTOR FROM NICK COPPA, CST '90, WHO OWNS NANOMATERIALS CO.

THE REACTOR ENABLES THE TEAM TO PRODUCE NANOPARTICLES OF CONSISTENT SHAPES AND SIZES WITH LITTLE VARIATION.



THE STATE-OF-THE-ART REACTOR TECHNOLOGY IS LAID ATOP THE STATE-OF-THE-ART LASER TECHNOLOGY. WE COULDN'T DO IT WITHOUT THIS PIECE OF EQUIPMENT.

THESE EXPERIMENTS ARE FUNDED BY A \$2.3 MILLION GRANT FROM THE U.S. ARMY RESEARCH LABORATORY TO DETERMINE HOW LEVIS' LASER TECHNOLOGY CAN CREATE TAILOR-MADE PARTICLES FOR MYRIAD INDUSTRIES.



THE MONEY CAME, AND WE SET UP THESE PHENOMENAL PEOPLE, AND THEY'VE MOVED REALLY FAR, REALLY FAST. THEY'RE REALLY EXTRAORDINARY!

THE END.

LIFE SUPPORT

Nursing students who change the lives of homeless women and children are transformed in the process.

STORY BY **RENEE CREE, SMC '12**
PHOTOGRAPHY BY **RYAN S. BRANDENBERG**

Maria Tieng, Class of 2014, talks to two children living at a center for homeless women. "It's helped me see that there is so much more to nursing," she says of her experience.





Maria Tieng, Class of 2014, takes a resident's blood pressure during one of her visits to the shelter.

Richard Glover, SSW '81, stands in the middle of a brightly painted common room in a North Philadelphia facility* for approximately 185 homeless women and children, and holds court during a weekly community meeting. About 20 women, some with children, are seated in a circle in the room, which also is crammed with tables and chairs arranged for breakfast. The walls are adorned with nutritional posters, and an illustration of First Lady Michelle Obama encourages residents to “Eat smart!”

The women look tired—a combination of the meeting's early start time and getting little sleep the night before.

Glover, the director of this location for the past three years, holds weekly meetings to inform residents of operational issues, such as mealtimes and food allotment; allow them to voice their concerns, such as problems with heating or plumbing in their

rooms; and to provide the women with financial, legal and educational resources to help them get out of the shelter and into their own homes.

Glover starts the meetings in the same way each week, by addressing each woman in the circle individually. “Tell me your name, how you're feeling and what your goal is for today.”

The women are generally soft-spoken, and most respond with “I'm okay,” “I'm fine,” “I could be better.” Some of the women say their goal is to get more sleep. Others have more specific objectives in mind: “I need to enroll my son in daycare,” or “I need to call Social Security and get some things straightened out with my check.”

The group of women includes Temple nursing students, outfitted in maroon shirts and khaki pants, who come to the site once

a week each semester. They educate the women on all manner of health issues: weight management, healthful eating, birth control. The visits, which are part of the students' clinical curriculum, are designed to help them better understand North Philadelphia's public-health issues. Today, they focus on stress management.

“How many of you feel tired at the end of the day?” asks Maria Tieng, Class of 2014. Several hands go up. “Angry?” More hands. “Under pressure?” Even more hands. “Those are all results of stress,” Tieng explains. The students launch a discussion about what stress is and how it can affect one's health and well-being. A debate ensues over the definitions of good and bad stress.

“There's nothing good about stress!” Alice** exclaims. “I don't like that

terminology. You can't just say something's good when it affects you badly."

"I think what the students are saying is that stress can be either good or bad," explains Terri Kelly, clinical instructor for community health and liaison between Temple and the center. "It depends on how you let it affect you."

That steers the discussion toward stress-management techniques, and the students lead the women in a meditation exercise. Kerri Lewis, Class of 2016, plays relaxing music while Tieng instructs the residents to close their eyes and directs them on how to breathe. For five minutes, the women look tranquil and at peace. Traces of worry vanish from their faces.

"So, how do you feel?" Tieng asks the group after the exercise.

"That meditation stuff was off the hook," Alice says. "I don't usually get to stop after running all over and looking after him"—she looks at her son—"to just take a minute."

'WE'RE NOT LAZY'

Temple's nursing students have been visiting this particular facility for three years. In addition to providing the residents with health education, they also conduct blood-pressure screenings, take BMI (body mass index) measurements and assist with childcare.

The Department of Nursing requires its students to participate in a clinical component, through which students regularly visit various sites, such as schools, clinics and shelters. Those visits enable students to acclimate to working in real-life settings long before graduation and apply what they have learned in the classroom in a meaningful way.

**In the interest of the residents' safety, the name and location of this facility have been withheld.*

***The names of residents have been changed.*

The women who live there are not so different from the nursing students themselves.

"Having nursing students here is a mutually beneficial arrangement," Glover says. "The residents love having them there, they talk about a number of health issues, and the students have the opportunity to learn from the residents."

One thing the students have learned is that the women who live there are not so different from the nursing students

themselves. Some are college-educated, and many are around the same ages as the students.

"I was surprised at how similar I am to many of the women," says Lewis, a sophomore. "I haven't suffered some of the hardships these women have, but I was surprised to see that they have opinions, thoughts and experiences similar to mine."



Yanna Savkova, Class of 2016, assists with childcare at the center. That gives residents free time to find housing or jobs, or to simply decompress.

TOTAL HEALTH

In addition to having nursing students visit the premises each week, Director Richard Glover, *SSW '81*, works with other Temple schools to ensure that his residents are as happy and healthy as possible.

SCHOOL OF MEDICINE

Students involved in the Temple Emergency Action Corps' homeless outreach initiative provide health literacy to residents. In addition, Temple University Hospital medical residents visit this location four times per year to provide basic medical care, write prescriptions and give educational talks.

KORNBERG SCHOOL OF DENTISTRY

Each Wednesday, dental students treat residents of all ages. Students provide free dental checkups and cleanings to five or six residents per week.

SCHOOL OF SOCIAL WORK

The location hosts graduate interns from the School of Social Work each semester. While there, the interns shadow social workers, are assigned their own clients with which to work, and lead group counseling sessions.



Jenna DiFilippo, Class of 2015, leads a discussion for residents about sexual health and safety.

One resident, Jane, was enrolled in the Community College of Philadelphia and held several jobs before a series of factors, including health issues, unemployment and a bad family situation, forced her onto the street with two small children.

“We’re not lazy; we’re not uneducated,” Jane says. “Homelessness can happen to anyone.”

“When the public thinks of ‘the homeless,’ many picture a bag lady or a drunk lying in the street,” Glover says. “Those situations are extremely rare.” Instead, he notes, the women in his shelter are victims of myriad circumstances working against them, including abject poverty.

According to the Pew Charitable Trusts’ 2013 *State of the City* report, 28 percent of the population of Philadelphia lives below poverty level, ranking the city third highest in rates of poverty behind Detroit and Cleveland. In the neighborhood that houses Glover’s site, that rate is 53 percent.

Further, Glover estimates that about 70 percent of his residents are victims of some type of domestic abuse, whether it be physical, verbal, emotional or financial. Those numbers echo a national trend: According to the National Network to End Domestic Violence, approximately 63 percent of homeless women have experienced some form of domestic violence in their adult lives.

All those factors contribute to a vicious cycle of homelessness, Glover adds. By providing health education and treatment, and financial and legal counseling, “we do our best to stop that cycle.”

CIRCLE OF LOVE

After the day’s presentation on stress management, the last of the fall semester, the nursing students gather with Kelly in a separate room, for what she calls “the circle of love”—a meeting Kelly holds at the end of each visit so students can express their feelings about the day, and Kelly can provide feedback on the students’ performance.

“Students do a variation of this in all their clinical settings,” she explains. “In nursing, debriefing is an essential part of the communication process.”

During today’s discussion, Alice’s comments about good and bad stress are a hot topic.

“That was a little rough,” Tieng says. “I wasn’t expecting such pushback.”

“Alice is very smart and well-read,” Kelly responds. “She likes to challenge and ask questions. I thought you guys did a great job with your teaching, by asking so many questions.”

Kelly has worked with nursing students at this center for almost two years.

“Prevention is their focus,” Kelly says.

“The students take the things they learn

in a clinical setting and implement them in the community.”

For example, if a patient is diagnosed with high blood pressure, his or her health-care provider can advise the patient to get more exercise by walking or taking his or her children to the park. But the clinician might have no idea whether the patient’s neighborhood is safe or conducive to walking. Kelly says that having the students work at the shelter can help them become more aware of the needs of the community they will serve one day.

“Being there changes the idea of a nurse from someone just doling out medication and treating patients, to someone who educates them and prevents health problems from occurring,” says Megan Nardi,

Class of 2014. As a part of their clinical requirements, she and Tieng both had rotated through clinics and schools previously, but were unsure what role they would be able to play at a center for homeless women.

“I feel impactful at the shelter,” Tieng says. “It’s hard for these women to find out information about their health, but we can be resources for that. We talk about stress management, healthful eating, relationships, anything. It’s helped me see that there is so much more to nursing.”

As the students continue their discussion with Kelly, both Alice and Jane also make appearances in the circle of love. Residents sometimes join in these meetings to talk and share their feelings—their own form of decompression.

Alice talks more about her objection to the term “good stress” and discusses her frustrations in being unable to find a job. Tieng suggests having someone review Alice’s résumé. “He or she could tell you what works for employers and what doesn’t,” she notes.

Jane talks briefly about starting classes to become a certified nursing assistant and her hope of getting her degree in nursing. Kelly and the students share their excitement for her and their encouragement. Bolstered by their words, Jane brightens before saying goodbye to the students as they complete their semester.

“Goodbye, my nurses, I’m gonna be there with ya’ll soon,” Jane says with a grin. “R.N.—hello!” ■



Clinical Instructor Terri Kelly has worked with nursing students at this location for almost two years.

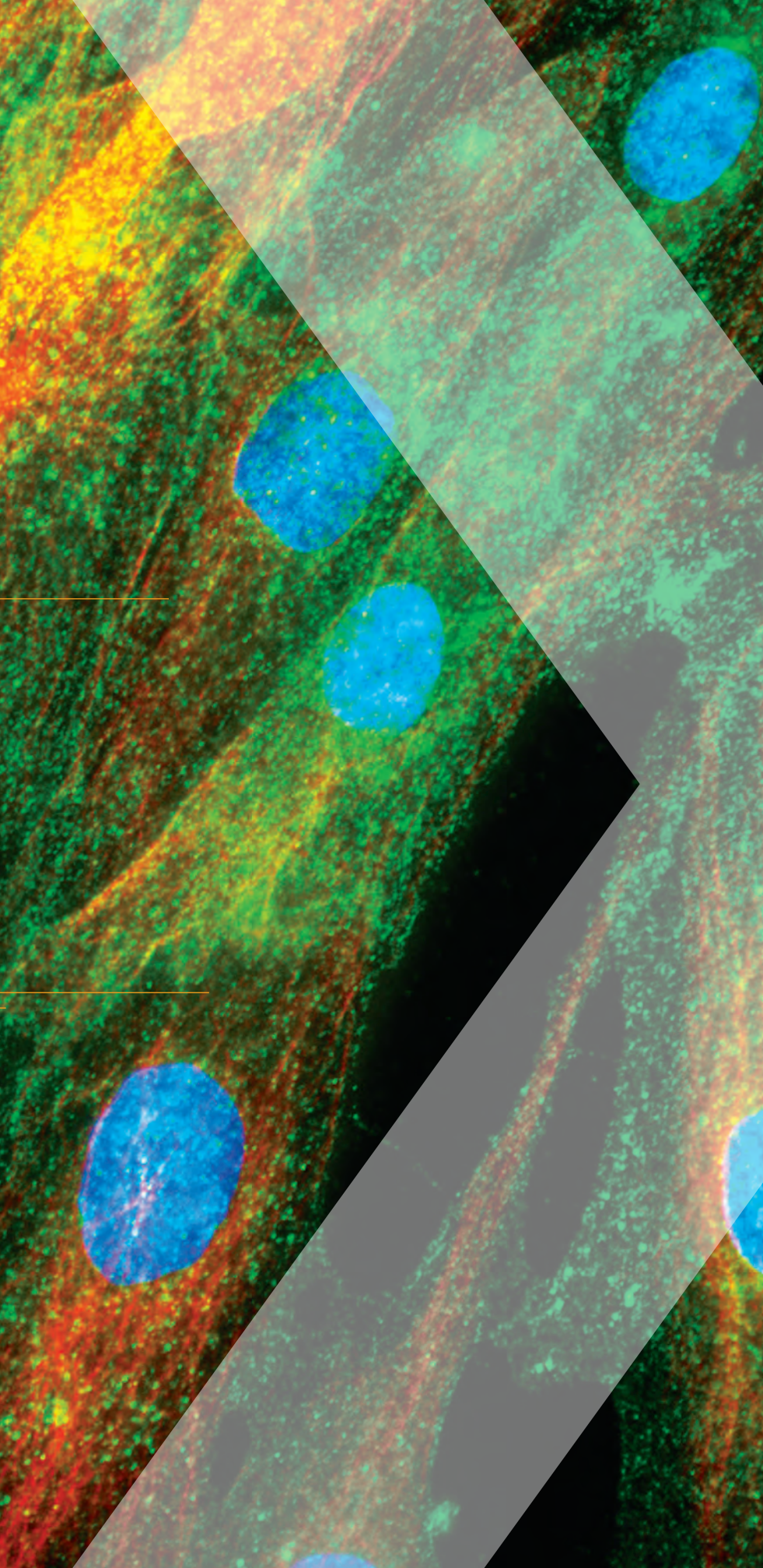
A fluorescence micrograph showing adipose stem cells. The cells are stained with various dyes, resulting in a vibrant display of colors. The nuclei are stained blue, while the cytoplasm and other cellular structures show green, red, and yellow. The cells are interconnected by a network of fine, fibrous structures, creating a complex, web-like pattern. The overall appearance is that of a highly organized and interconnected cellular network.

THE BODY'S MAGIC BULLET

STEM CELLS MIGHT OFFER THE MIRACLE CURE TEMPLE RESEARCHERS SEEK.

STORY BY RENEE CREE, SMC '12

The images of stem cells in this story depict adipose stem cells, which are derived from body fat. Here, they are magnified approximately 250 times. Photograph by Riccardo Cassiani-Ingoni/Science Source.



A lizard can regrow its own tail after it is lost due to injury. So can a starfish with its limb and a spider with its leg. Certain types of fish can regenerate whole fins. Even a planarian, or flatworm, can grow into another worm entirely if it is cut. Humans are capable of regeneration, too—the liver can regrow to its original size (though not its original shape) after injury or disease. And skin is regenerating itself continuously throughout our lives.

But the human body also has an often-misunderstood weapon for regeneration in the bones, blood and brain: stem cells. Those cells can divide and self-replicate over long periods of time, and give rise to new cells in affected areas. They have long been used to combat blood cancers, such as multiple myeloma. According to the Leukemia & Lymphoma Society, more than 17,000 blood-cancer patients had had successful stem-cell transplants in the U.S. by 2010.

Now researchers—particularly at Temple—are investigating how to steer stem cells toward other diseases that continue to stymie the medical community.

When a heart attack, or diseases such as Parkinson's or Alzheimer's, cause cells to die off, tissue becomes incapable of repairing itself.

"Degenerative diseases are the result of cells dying in whatever tissue is being affected," says Steven Houser, *MED '78*, chair of physiology in the School of Medicine. "How do you stop the death and replace those cells? It's very hard to replace them once they die."

Houser, who directs the Cardiovascular Research Center at Temple, likens cell death to a dead patch of grass. If it is not repopulated with new seeds, only weeds will crop up. In the body, scar tissue is the weed.

Houser and other researchers at Temple seek to capitalize on the body's ability to repair itself, to see if supplementing cells in damaged areas can help foster new cell and tissue growth.



THE VERY, VERY BAD GUYS

Though we usually view stem cells as effective therapeutics, some are deadly. Tomasz Skorski, professor of microbiology and immunology, studies how to stop one particularly insidious group of leukemia stem cells.

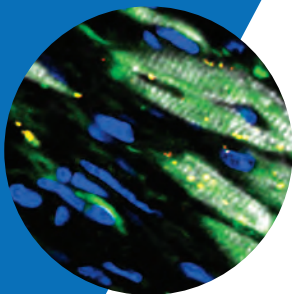
“This is a subpopulation of leukemia cells that can’t be eradicated with any known drugs,” says Skorski, also an associate professor in the Fels Institute for Cancer Research and Molecular Biology at Temple. “They are the very, very bad guys.”

Existing drugs can treat the majority of leukemia cells, but the disease’s stem cells have a genetic instability that contributes to their resistance. That subpopulation can cause genetic aberrations that can become immune to treatments. They then continue to mutate and reproduce. The body can harbor several million ultra-resistant leukemic stem cells that then deploy throughout the body and take over quickly.

Skorski and his team focus on the mutations. A clue could lie in the cells’ levels of reactive oxygen species, which cause tiny tears in our DNA. (Leukemia stem cells accumulate a lot of them.)

Whether leukemic or healthy, DNA tears have to be repaired in all cells. However, a mechanism not present in normal cells enables leukemia stem cells to repair faster and more efficiently than healthy cells. Skorski aims to target those repair mechanisms, so the breaks will accumulate and cause the cells to die off.

“We propose that we don’t have to use any toxic drugs [for treatment],” Skorski says. “If you target the pathways, then the leukemia cells can’t repair. At the same time, normal cells use different pathways, so they’ll be fine.”



BRAIN MATTER

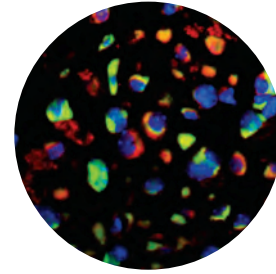
Ausim Azizi, chair of neurology in the School of Medicine, has been studying cell death in the brains of Parkinson’s and Alzheimer’s patients for more than 20 years. Current therapies simply treat the symptoms of those diseases, but Azizi is trying to find more effective treatments and, hopefully, a cure. He believes stem cells from a patient’s own bone marrow might be the key.

Though both embryonic and adult stem cells can be used for stem-cell therapies and research, adult cells can vary in their levels of malleability. Bone-marrow stem cells are a bit more flexible, or pluripotent—they can be manipulated to take on the characteristics of other types of cells more easily.

Azizi’s research has shown that when bone-marrow stem cells are implanted in the brain, some will adapt to the environment around them and take on the properties of neural cells. It was recently discovered that those cells release reparative and pro-growth chemicals. “Those chemicals can make the damaged tissue grow and repair wounds a bit faster,” he explains.

Bone-marrow cells were shown to be effective in wound care and healing more than 150 years ago, but the area was largely unexplored until the 1980s.

“People looked back and said, ‘This is a really good source of repair material,’” Azizi says. “So now, they’re used largely in bone and cartilage repair—knee injuries, rotator-cuff injuries.” He adds that chemicals from those cells also have been shown to decrease inflammation in the brain after strokes. So Azizi and his team are working with a stem-cell therapy company and researchers at the University of Pittsburgh to see whether infusing those cells directly into stroke-damaged areas of the brain will improve its function.



“They’re kind of like construction workers,” Azizi says of bone-marrow stem cells. “They’re recruited from far away and come in to help out.”

HEART HEALING

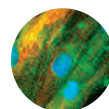
Houser also studies stem cells taken from bones, to determine their effectiveness in healing cardiac tissue damaged by heart attacks. Those cells, called cortical bone-derived stem cells (CBSCs), are even more primitive than bone-marrow cells—meaning they might have the ability to make multiple types of cardiac tissue.

In preclinical trials, Houser and his team found some promising initial results. When the CBSCs were injected into damaged cardiac tissue, they effectively grew new blood vessels and new cardiac muscle cells, and improved the overall function of the heart.

Time is a big factor when it comes to repairing the heart after an attack. Unfortunately, extracting cells, growing them and injecting them back into a patient can take too much time, Houser says. To that end, he and his team are testing the CBSCs as allogeneic cells—meaning they can be injected from one host into another. “[The cell] will die eventually,” Houser says, “but while it’s in [the body], it does good things,” such as promoting cell growth.

In another experiment in the Cardiovascular Research Center, Adjunct Assistant Professor Jon George is involved in a clinical trial examining the effectiveness of bone-marrow cells on patients with ischemic heart disease—also known as coronary artery disease—for whom traditional therapies, such as stenting or bypass surgery, will not work.

“The idea is that those people don’t have enough blood flow to the heart to allow it to work right,” Houser says of George’s research.



“So they would take bone marrow, isolate the cells of interest and inject them back into the heart.”

Houser operates under the theory that when cardiac cells die after a heart attack, the remaining ones must work much harder to keep the heart beating, impeding their regrowth. In order to reduce the chance of another heart attack, Houser says cell therapies can help reduce the workload.

“Data show that if you put a patient in end-stage heart failure on a medical-assist device so that a machine is pumping blood instead of the heart, the heart-muscle cells get better on their own,” Houser says. “You don’t have to do anything to them. All you have to do is reduce their workload for a period of time, and they remodel themselves almost to the way they were before they had to work so hard.”

REGENERATE DEBATE

Though stem-cell therapeutics show much promise for challenging and degenerative illnesses, they also are controversial. At the center of that debate are embryonic stem cells. Azizi says those are drawn from cells that have divided for eight days after eggs have been fertilized.

In 1995, the Dickey-Wicker Amendment prohibited federal funding of research that resulted in the destruction of an embryo. And in 2001, the Bush administration placed further restrictions on that kind of research, limiting the number of embryonic stem-cell lines that could be studied.

“It was an ideological position, stemming from the basis that life begins at conception,” says Nora Jones, *CLA ’01, ’02*, director of bioethics education at the center for Bioethics, Urban Health, and Policy in the School of Medicine. “The controversy was that it was equated to murder; you couldn’t do any research that could destroy a human life.” Additionally, according to the National Institutes of Health (NIH), some critics posit that the donation or distribution of embryonic stem cells might be conducted for profit.

Despite the overturning of the Bush administration’s policy in 2009, restrictions on embryonic stem-cell lines remain. A set

of research guidelines was put in place by NIH, and the ability to use embryonic stem cells varies from state to state.

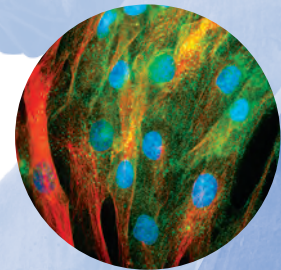
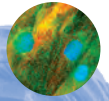
Jones says that adult-derived stem cells bypass this controversy completely. “If a cell can be taken from you and manipulated to do some sort of therapeutic intervention, then you’re not destroying anything.”

Even so, Jones adds, new concerns are being raised in bioethical literature, regarding what she refers to as the “social-justice issue.” For example, if a patient from the largely African-American community surrounding Temple donates bone marrow—from which researchers can obtain stem cells—will that community benefit from the results of that contribution?

The newest way to harvest stem cells might put such debates to rest. Azizi highlights the importance of induced pluripotent cells. “You can take any cell that’s dividing—like a piece of a skin cell—grow them in a culture dish and genetically modify them to become stem cells,” Azizi says. “During the division, those genes turn the cells into a stem cell.” But the induced cells come with a host of problems similar to other transplants, including whether or not a patient’s immune system will accept the foreign cells or kill them off.

Still, as research using stem cells continues to evolve, Jones notes that an ongoing dialogue is needed between scientists and the rest of society to address those ethical issues.

“There’s a lot of research happening out there, and it’s happening quickly,” she says. “As science develops, people need to have an understanding of where it’s going. If we can think about what we need societally, and how it can be regulated effectively, some of those concerns might be alleviated.” ■



GOOD SPORTS

The Sport Industry Research Center gives local fitness organizations a boost.

The Sport Industry Research Center (SIRC) in the School of Tourism and Hospitality Management measures and enhances the economic, social and environmental viability of sporting events such as the Philadelphia Marathon, the Broad Street Run and the PGA Tour.

But SIRC also focuses on the underdogs. It helps nonprofit organizations harness the power of sports for communities, enabling groups such as Students Run Philly Style and Black Girls RUN! to measure their impact. Providing these data can lead to greater access to financial resources for the group and, in turn, better outcomes for their participants.

Numerous recent, national studies positively correlate levels of physical activity with academic performance, mood and cognition. Those findings are particularly significant in Philadelphia, where childhood obesity is high and graduation rates are low. Organizations such as Students Run Philly Style and Black Girls RUN! aim to bolster the city's overall health by offering participants more exercise, stronger communities and better attitudes. Are they having an effect? The data say yes. ■



BLACK GIRLS RUN!

Black Girls Run! (BGR!) has been fostering fitness among African-American women since 2009. The organization—which has 60 running groups nationwide, including one in Philadelphia—aims to fight obesity by promoting healthful lifestyles and running events.

61%
participated in their first races in the past two years.



51%
did not consider themselves runners before joining BGR!

68%
do since joining.



IMPACT ON PARTICIPANTS

47%



often use their own behaviors to encourage their children to be active.



68%

think BGR! has positively affected their children's physical activity.



49%

use physical activity as a form of family recreation.

47%



have confronted health issues because of the support they receive from BGR!

REASONS FOR JOINING



64%

for motivation



65%

to run with others



67%

to connect with other women runners



74%

to help with weight loss



84%

for fitness advice and support



STUDENTS RUN PHILLY STYLE

Launched in 2004, Students Run Philly Style matches students ages 12 to 18 with mentors who help the students train to run a marathon or a half marathon. The organization aims to reduce rates of obesity in Philadelphia, decrease juvenile arrests and improve academic performances.



93%

have not been suspended this year.



5%

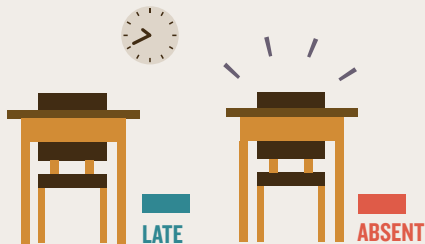
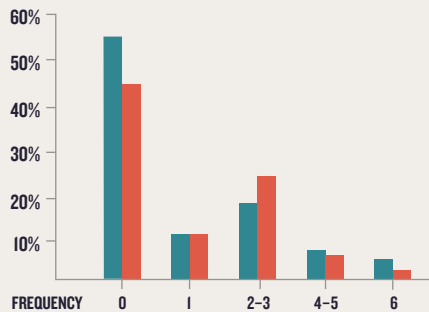
have been suspended once.

“It is important that I make my community a better place to live.”

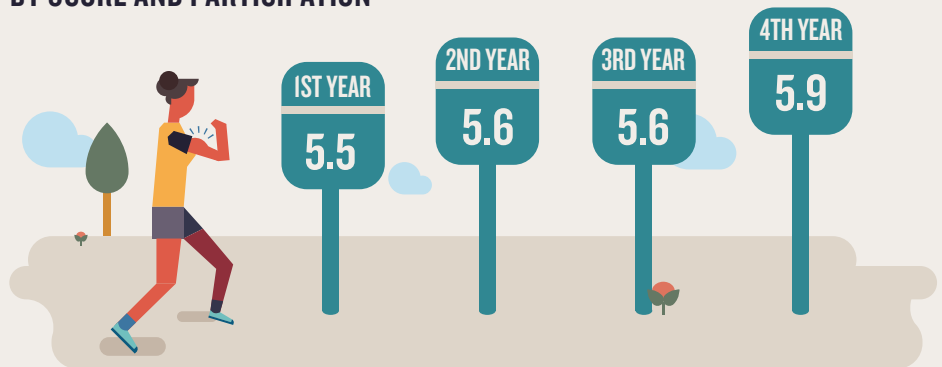
84%

AGREE OR STRONGLY AGREE WITH THIS STATEMENT.

INCIDENTS OF STUDENT ABSENCE OR LATENESS



SENSE OF COMPETENCE BY SCORE AND PARTICIPATION



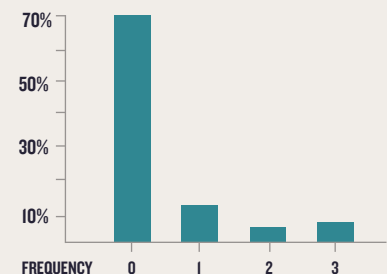
“All in all, I am glad I’m me.”

92%

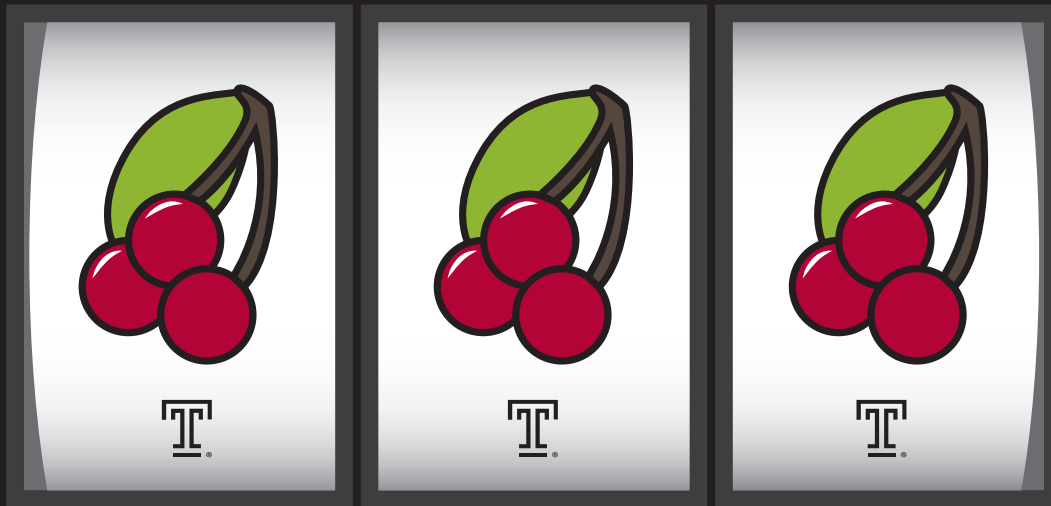
AGREE OR STRONGLY AGREE WITH THIS STATEMENT.



NUMBER OF DETENTIONS IN 2012-2013



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CLASS NOTES

Temple alumni define transformation: A lawyer launches Philadelphia's civil-rights unit; a woman aviator empowers the next generation of pilots; and a scientist develops a pediatric vaccine that decreases rates of infection dramatically.

1940s

SEYMOUR SHUBIN, SMC '43

published *Why Me?*, a collection of poetry, with Murder Slim Press. He also is the author of 15 other books and has received numerous awards and accolades for his work.

EVE R. MEYER, BYR '49, '56

is professor emerita in the Boyer College of Music and Dance. She now serves as editor-in-chief of the *Journal of the IAWM* (International Alliance for Women in Music). She also is a member of the advisory board and program annotator for the Symphonia of Boca Raton in Florida.

1950s

JEROME I. LEVENTHAL, FOX '55, EDU '60

was inducted into the Norristown High School Hall of Fame in Pennsylvania in 2012. During his career, he has worked at public schools in Philadelphia; Deptford, N.J.; Buffalo, N.Y.; and Port Washington, N.Y.; and in the community college system of Connecticut. He also is professor emeritus in the Department

of Curriculum, Instruction and Technology in Education in the College of Education at Temple.

FRANCES STEINER, BYR '56

is music director of the Chamber Orchestra of the South Bay on the Palos Verdes Peninsula in California. The orchestra resides in the Norris Center for the Performing Arts.

LAWRENCE J. ANASTASI, FOX '57

was inducted into the U.S. Fencing Hall of Fame in July. He is a two-time U.S. Olympian and was on Temple's fencing team from 1956 to 1957.

1960s

WALLACE K. KULIGOWSKI, DEN '61

published *Our Most Treasured Tails: Sixty Years of Pet Rescue*. A collaboration with his wife, Kate, the book is a collection of essays that advocate for animal-cruelty awareness and prevention.

ARNOLD S. WEISGOLD, DEN '61

received a leadership award from the Kornberg School of Dentistry at Temple in May. It recognized his influence in the areas of periodontal prosthesis, restorative dentistry, esthetics, implant prosthodontics and

occlusion. He also was honored with the 2013 "Distinguished Clinician" award at the 11th Symposium in Periodontics & Restorative Dentistry, held in Boston in June. Weisgold is an adjunct professor of periodontics at Penn Dental Medicine in Philadelphia.

JOHN P. DUNPHY, BYR '62

soon will celebrate the release of a second volume of the recording *Singing Adventures: Imaginative Songs and Activities for Young Children*. Along with its first volume, that album will be available online. Barbara Di Toro, BYR '92, '94, EDU '10, associate director of Temple Music Prep in the Boyer College of Music and Dance, and Monica Liggins, BYR '79, music director of Church of Our Savior in Jenkintown, Pa., also worked on the album. Additionally, Dunphy serves as director of music activities at Villanova University in Pennsylvania.

MICHAEL J. SATZ, FOX '65

was elected to his 10th term as state attorney of Broward County in Florida. He is a founder of the Broward County Sexual Assault Treatment Center and assisted in the creation of the Broward County Drug, Mental Health, Habitual Offender, Domestic Violence and Veterans courts.

JOAQUIN BOWMAN, TFM '66

published *Suscipiat Dominus*, the second book in his memoir series, with CreateSpace. His first book, *Tadville: A Brother's Story of Living With Asperger's*, was published in 2010.

STEPHEN J. SANSWEET, SMC '66

is president and CEO of Rancho Obi-Wan, a museum housing an impressive stockpile of *Star Wars* collectibles. It was named the "Largest Collection of *Star Wars* Memorabilia" in *Guinness World Records 2014*.

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ONLINE CLASS NOTES ARE RUN IN TEMPLE AND OTHER PUBLICATIONS.



Penny Rafferty Hamilton, CHPSW '68

PENNY RAFFERTY HAMILTON

DEGREE: AS, dental hygiene education, College of Health Professions and Social Work, 1968

OCCUPATION: High flyer

LOCATION: Granby, Colo.

As Penny the Pilot finished her talk at a daycare center, she was approached by a little girl. “Penny, can women fly airplanes?” the girl asked hopefully.

Penny the Pilot—a persona created by Penny Rafferty Hamilton, CHPSW '68, to teach children about aviation—smiled. “Well, what do you think? Are girls as smart as boys?” The girl nodded. “Do you know of any women pilots?” The girl shook her head. Rafferty Hamilton handed her a book filled with stories about female pilots, and the girl scurried off to pore over the facts.

According to Women in Aviation International, only 6 percent of licensed pilots are women, and aviation is among the fields in which women have the lowest representation. Rafferty Hamilton has made it her mission to change that. “Isn’t it amazing that so few women are pilots?” she wonders. “The airplane doesn’t know the sex of the pilot.”

After graduating from Temple, Rafferty Hamilton worked in various fields. But it was when she began serving as navigator and radio controller for her husband, Bill, that she discovered her true passion was flying. She earned her own pilot’s license at age 40.

Soon after she was certified, the couple set the still-standing international speed record for their weight class, flying from Lincoln, Neb., to New Orleans at 179.92 miles per hour.

Rafferty Hamilton retired from flying in 2007, but her passion for it has not waned. She speaks about flight to audiences from schoolchildren to professional aviators. In 2008, she founded the Teaching Women to Fly research project, which identified barriers to women’s success in aviation—including cost, lack of confidence, incompatibility with instructors, gender bias and the dearth of female mentors—and compiled a list of 101 strategies for overcoming those challenges.

“Isn’t it amazing that so few women are pilots? The airplane doesn’t know the sex of the pilot.”

In addition, Rafferty Hamilton earned the National Association of State Aviation Officials 2012 National Aviation Journalist Award for her many articles about flight. She has three books in progress and is writing a chapter in *The Absent Aviators*, which will be released by Ashgate Publishing in 2014.

While the number of women pilots remains low, Rafferty Hamilton is encouraged by the prospect of growth. “The research and advocacy that I and others have done has encouraged more aviation organizations to reach out to women,” she says. “More scholarships have been started for female college students interested in aviation and women who want private pilot training. There’s also more of a focus on mentoring now. I feel like I’m making a difference.” —*Theresa Medoff*

To learn more about Rafferty Hamilton’s work, visit teachingwomentofly.com.

JUDITH E. GLASER, *CLA '67*

published her seventh book, *Conversational Intelligence*, with Bibliomotion. That book references the work of Fox School of Business Associate Professor Angelika Dimoka and focuses on conversational rituals, practices and frameworks that elevate trust and help people navigate together successfully.

MICHAEL H. REED, *CLA '69*

was appointed to a one-year term as chair of the American Bar Association Standing Committee on Federal Judicial Improvements. He is a partner in the law firm of Pepper Hamilton in Philadelphia.

SANDY EISENBERG SASSO, *CLA '69, '72*

was appointed to the Indiana Humanities Board of Directors. She also became rabbi emerita of Congregation Beth-El Zedeck in Indianapolis in June. Now she directs the Religion, Arts and Spirituality Initiative of Butler University, also in Indianapolis.

ROBERT L. STERN, *CLA '69*

owns Robert L. Stern Financial Services in Amherst, Mass. His son Nicholas Stern, *FOX '09*, also is employed there.

1970s

ARTHUR S. GOLDSTEIN, *CLA '70*

was listed in the 2013 edition of *Chambers USA: America's Leading Lawyers for Business* in the area of litigation. He is a partner in the law firm of Wolff & Samson PC in West Orange, N.J.

GERHART "JERRY" KLEIN, *SMC '70, LAW '80*

won a silver medal in the 2013 Snoopy's Senior World Ice Hockey Tournament in Santa Rosa, Calif. He goaltended in the "age 60-plus" division; it was Klein's third year participating in that competition. He lives in Medford, N.J., with Anne, his wife of 37 years.

RONALD J. BECKMAN, *FOX '71, LAW '81*

was elected to the board of trustees for the Magee Rehabilitation Hospital Foundation. He is of counsel in the tax consulting firm of Drucker & Scaccetti and a partner in the law firm of Drucker Beckman Sobel LLP, both in Philadelphia.

STEWART M. WEINTRAUB, *LAW '71*

was elected council director of the American Bar Association Tax Section for 2013-2014. He also was named "Lawyer of the

Year" in the area of "Philadelphia Litigation & Controversy—Tax and Tax Law" by *Best Lawyers*. In addition, he is chair of the state and local tax practice in the law firm of Chamberlain, Hrdlicka, White, Williams & Aughtry in Philadelphia.

ERIC GOLDMAN, *CLA '72*

published *The American Jewish Story Through Cinema* with University of Texas Press in 2013. An updated and expanded version of another of his books, *Visions, Images and Dreams: Yiddish Film Past and Present*, was published by Holmes and Meier in 2011. He also teaches at both Yeshiva University and the Jewish Theological Seminary in New York City; writes for *The Jewish Standard* in New Jersey; and is president of Ergo Media, a distributor of Jewish films.

JUDITH L. NEWMAN, *CLA '72, '74, '78*

co-authored *Against Their Will: The Secret History of Medical Experimentation on Children in Cold War America*, published by Palgrave Macmillan in 2013. An associate professor of human development and family studies, she has taught psychology at Penn State Abington since 1977. Newman also researches children's concepts of illnesses and runs support groups for

families raising children with Tourette's syndrome.

JAMES W. JOHNSON, *CLA '73*

was selected to participate in the Airborne Astronomer Ambassadors program in 2012-2013. In that program, he partnered with professional astronomers to conduct scientific observations aboard NASA's Stratospheric Observatory for Infrared Astronomy.

HELENA KOZAK, *CLA '73*

was honored by the Art of Ukrainian Choreography History Museum in Kirovohrad, Ukraine, with a plaque and photograph displayed permanently in that institution. She was recognized for her choreography and promotion of Ukrainian dance in the U.S.

MARC P. WEINGARTEN, *CLA '73*

was named a "Pennsylvania Super Lawyer" in the area of plaintiffs' product litigation for the ninth consecutive year in 2013. In addition, he presented a paper titled "Arbitrating a Foreign Claim With an Asbestos Bankruptcy Trust—A Procedural Morass" during the annual convention of the American Association for Justice in July. Weingarten is a partner in Locks Law Firm in Philadelphia.

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BARBARA E. SIDOTE, *CLA '74*

retired from her position as coordinating supervisor of language arts and reading in the Parsippany-Troy Hills School District in New Jersey. During her 35-year career in education, she was a teacher, an assistant principal, a middle-school principal and a district-level supervisor. She resides in Ridgewood, N.J., with her daughter Joanne.

MARTIN BANNER, *BYR '75*

wrote an arrangement of Johann Michael Haydn's *Dixit* for women's choir. It was performed by the Louisiana All-State Women's Choir in October.

PATRICIA M. LEE, *SSW '75, '76*

retired after 35 years as a pediatric social worker for the Children's Hospital of Philadelphia.

NEIL A. MORRIS, *CLA '75, LAW '79*

was appointed special labor counsel for the Pocono Mountain Regional Police Department in Monroe County, Pa. He also is a partner in the law firm of Archer & Greiner PC in Philadelphia.

WILLIAM E. ROBERTS, *CLA '75, '79*

was named president and chief operating officer of GEICO in July.

CAROLYN M. SMAGALSKI, *TYL '75*

served as an expert for Saison de Rose, a pink seasonal beer brewed by Free Will Brewing Co. in Perkasio, Pa., to commemorate Breast Cancer Awareness Month in October. She is a writer who covers beer, a certified international beer judge and a Cicerone-Certified Beer Server.

CARL W. HITTINGER, *CLA '76, LAW '79*

was appointed co-chair of the U.S. Antitrust and Trade Regulation Group in the law firm of DLA Piper. He works in the firm's Philadelphia and Washington, D.C., offices and is head of the Philadelphia litigation practice.

B. CHRISTOPHER LEE, *LAW '76*

was included in the 2014 edition of *Best Lawyers in America*. He is litigation chair in the law firm of Jacoby Donner PC in Philadelphia.

MARILYN S. MAY, *CLA '76, LAW '79*

is litigation counsel in the law firm of Arnold & Porter LLP in Washington, D.C. She focuses on healthcare-, pharmaceutical- and medical-device-industry defense work. Prior to joining that firm, she served as head of healthcare fraud enforcement in the U.S. attorney's office in the Eastern District of Pennsylvania.

EDWARD P. CAINE, *FOX '77*

was named one of the "Top 100 Most Influential People in Accounting" by *Accounting Today*. He is president of the National Conference of CPA Practitioners and managing partner of Edward P. Caine & Associates CPA LLC in Bryn Mawr, Pa.

AKIKO L. KOTANI, *TYL '77*

was named "Artist of the Year" by the Pittsburgh Center for the Arts, which featured an exhibition of her work in fall 2013.

MATTHEW F. LAROSE, *TYL '77*

was named associate professor of art, and chair of the art and theater programs, at Park University in Kansas City, Mo.

ROBERT D. BUNNELL, *CHPSW '78*

was named interim dean of the Division of Continuing Adult and Professional Studies at Neumann University in Aston, Pa.

WILLIAM T. DEXTER, *TYL '79*

was honored for his contributions to glass art at a dinner hosted by the National Liberty Museum in Philadelphia in September. The event also recognized Karla Trinkley, *TYL '79*, and included a lecture about their work. Dexter and Trinkley own Taylor Backes, a glass-art gallery in Boyertown, Pa.

MONICA H. LIGGINS, *BYR '79*

soon will celebrate the release of a second volume of the recording *Singing Adventures: Imaginative Songs and Activities for Young Children*. Along with its first volume, that album will be available online. Barbara Di Toro, *BYR '92, '94, EDU '10*, associate director of Temple Music Prep in the Boyer College of Music and Dance, and John Dunphy, *BYR '62*, director of music activities at Villanova University in Pennsylvania, also worked on the album. Additionally, Liggins serves as music director of Church of Our Savior in Jenkintown, Pa.

JORDON N. ROSEN, *FOX '79*

was named a 2013 "Five Star Wealth Manager" in the August issue of *Delaware Today* magazine. He is an accountant in the firm of Belfint, Lyons & Shuman PA.

KARLA L. TRINKLEY, *TYL '79*

was honored for her contributions to glass art at a dinner hosted by the National Liberty Museum in Philadelphia in September. The event also

recognized William Dexter, *TYL '79*, and included a lecture about their work. Dexter and Trinkley own Taylor Backes, a glass-art gallery in Boyertown, Pa.

1980s

PAUL E. LUBIENECKI, *CLA '80*

earned a PhD in history from Case Western Reserve University in Cleveland. His dissertation is titled *The American Catholic Diocesan Labor Schools: An Examination of Their Influence on Organized Labor in Buffalo and Cleveland*.

NINA D. WEISS-KANE, *TYL '80*

supplied her painting "Bannockburn Creek" to the television series *Chicago Fire*. She also participated in the National Park Service's Artist-in-Residence program at Acadia National Park in Maine. During her residency, she painted "Little Moose Island II," which can be viewed online.

ROBERT J. FAHEY JR., *SMC '81, FOX '10*

was appointed vice chair of the board of trustees of Cristo Rey Philadelphia High School. He also serves on the Fox School of Business Dean's Council.

JANE A. CANTWELL, *CHPSW '82*

competed in the 2013 Masters Diving Pan-American Championship in Largo, Fla. She received two gold medals: one for the women's 3-meter springboard event and another for the women's 3-meter springboard synchronized diving event. In the latter event, Cantwell and her partner set a world record in the 50-54 age group. She also won a bronze medal in the women's platform event.

CLASS OF 2009

Katie Kelglin Photography



KURTIS LEE

DEGREE: BA, journalism, School of Media and Communication, 2009

OCCUPATION: Responsive reporter

LOCATION: Denver

At around 1 a.m. on Friday, July 20, 2012, Kurtis Lee's cellphone began ringing incessantly. Lee, SMC '09, was not prepared for what he heard when he checked his voice mail.

It was Paul Soriano, the overnight web editor of *The Denver Post*, frantically trying to get in touch with any reporter he could. Soriano said that a man—later identified as James Holmes—had allegedly burst into a movie theater at the Century Aurora 16 multiplex in Aurora, Colo., and shot 12 people during a midnight showing of *The Dark Knight Rises*.

Then the Aurora beat reporter for the *Post*, Lee raced to the scene, where he conducted interviews with moviegoers from other theaters and quickly disseminated information via Twitter and phone. Editors in the newsroom were able to craft stories based on his tweets and calls.

While the shooting became a national news story, Lee says he and his colleagues at the *Post* had an advantage over other, larger news organizations: a personal connection to the community. Many of the victims' families spoke exclusively to *Post* reporters

before dealing with any other news outlets. Lee says that though readers do not know him personally, the *Post* is in their homes every day and “knows this community more than *The New York Times* or *The Washington Post*. It is the local paper.”

The paper's in-depth coverage was recognized in April 2013, when Lee and his team were awarded the Pulitzer Prize for breaking-news reporting. (Also see *Temple*, fall 2013, “Prize Reporting,” page 8.) The staff was cited for its use of social media and written and video reports in the coverage of the shooting.

“In winning the Pulitzer, we celebrated the journalism, not the tragedy.”

On the day the awards were announced, Lee and his colleagues crowded together anxiously in the newsroom. When the staff was named the winner in the breaking-news category, the room erupted with cheers and applause.

“The reaction was bittersweet,” Lee explains. “Many people's lives changed forever after that day. Folks just went into a movie, wanting to relax on a summer evening, and some never walked out.”

Now a politics reporter, Lee says the paper has striven to provide thorough and informative coverage of the tragedy, and will continue to do so through Holmes' trial, set to begin in 2014. “In our staff winning the Pulitzer,” Lee says, “we celebrated the journalism, not the tragedy.” —*Jeff Cronin*



DACE VICEPS MADORE

DEGREE: MA, 1971; PhD, 1974; biology, College of Science and Technology

OCCUPATION: Life saver

LOCATION: Rochester, N.Y.

Before 2000, the bacterium *Streptococcus pneumoniae* killed more than 800,000 young children worldwide each year. In the U.S., it was a leading cause of childhood meningitis, bacteremia, pneumonia and acute ear infections. But by 2001, cases of the illnesses caused by that bacterium in the U.S. had dropped more than 78 percent in children younger than age 2.

Dace Viceps Madore, CST '71, '74, and her colleagues played a major role in that decline. As a scientist at Praxis Biologics in Rochester, N.Y., she was a part of the team that developed Pevnar, the world's first pediatric vaccine against *Streptococcus pneumoniae*. Released by Wyeth Pharmaceuticals in 2000, Pevnar was designed to target the seven serotypes (species of the bacteria) responsible for 80 percent of pneumococcal-related invasive-disease deaths in infants in the U.S.

The team spent 15 years developing Pevnar, which is composed of different vaccines that target each of the seven species. While chemists developed each component, Madore supervised the evaluation of the drug's effectiveness in clinical trials.

The vaccine stamped out the diseases in children and reduced infection rates overall, since children were no longer infecting others around them. Because of its impact, Pevnar—and Madore and her team—received several accolades, including the 2005 National Medal of Technology, awarded by former U.S. President George W. Bush.

“The awards are just icing on the cake,” Madore says. “The greatest success is when we get regulatory approval, and the vaccine starts to be used and shows effectiveness. That’s what we rejoice about.”

“The greatest success is when the vaccine starts to be used and shows effectiveness. That’s what we rejoice about.”

Madore worked for Praxis (acquired by Lederle Laboratories and then Wyeth) for more than 20 years before retiring in 2004. During that time, she helped develop five first-in-class pediatric vaccines, including HibTITER, which targets *Haemophilus influenzae* type B (Hib). That bacterium can lead to meningitis or pneumonia in young children. Within a year of its approval in 1990, HibTITER was proving more than 90 percent effective at preventing Hib infections in children younger than age 5.

“All of us loved working in the vaccine business, because we knew that we were preventing disease and saving lives,” Madore says. “We always had this feel-good sensation because we knew we were making a difference.” —Bruce E. Beans

JORDAN M. BASEMAN, *TYL '83*

was appointed head of sculpture in the School of Fine Art at the Royal College of Art in London.

JUANITA R. COCHRAN, *SSW '83*

retired from Magee Rehabilitation Hospital in Philadelphia after 29 years of service as a social worker and case manager. She now resides in Evans, Ga., and plans to begin a new career in hotel management and hospitality.

VIRGINIA ROBINSON JORDEN, *LAW '83*

earned a master of arts degree in teaching from National Louis University in Chicago in 2004. She has taught in both Chicago and Cheyenne, Wyo. She currently resides in Santa Fe, N.M., with her husband, Victor, and teaches at a charter school for students in kindergarten through sixth grade.

KEVIN P. PURCELL, *SMC '83*

published his memoir *Philly War Zone: Growing Up in a Racial Battleground* in 2012. That work was highlighted in a May 19, 2013, article in *The Philadelphia Inquirer*. He also is founder, president and creative director of Purcell Direct Inc., a direct-response advertising company in West Chester, Pa.

MARC S. RASPANTI, *LAW '84*

was included in the 2014 edition of *The Best Lawyers in America* for healthcare law. He is a partner in the law firm of Pietragallo Gordon Alfano Bosick & Raspanti LLP in Philadelphia.

LEWIS L. BARRETT III, *FOX '85*

was appointed senior vice president for commercial strategy at Synthetic Biologics in Rockville, Md. He formerly was an

executive with Pfizer and Wyeth Pharmaceuticals.

MICHAEL G. CALLAHAN, *SMC '85*

is executive editor at *Philadelphia* magazine. He will publish his first novel, *Searching for Grace Kelly*, with Houghton Mifflin Harcourt in spring 2015. That book is about three young women living in the Barbizon Hotel in New York City in 1955.

RANDOLPH L. BROWN, *FOX '86*

was named “Hospice Director of the Year” at the New Jersey Hospice and Palliative Care Organization’s annual Spirit of Hospice Awards Dinner in June. Brown is chief operating officer of Caring Hospice Services, a regional provider with services available in Connecticut, New York, New Jersey, Pennsylvania and Ohio.

RONALD S. BRENDEL, *BYR '87, '01*

participated in the Benjamin Britten on Stage and Screen centenary conference at the University of Nottingham in England in July, and performed Britten recitals at colleges and universities in Tennessee, South Carolina and Arizona in fall 2012. With his wife, Cheryl, *BYR '99*, Brendel co-directs the Schumann Liederfest—an annual educational program for classical singers of which he is the founder—in Zwickau, Germany.

LISA YEADON DAHM, *SMC '87*

received a master of arts degree in organizational communication from DePaul University in Chicago. Her areas of research included change management, conflict on cross-functional teams, strategic internal communication and gendered communication in organizational contexts.

STEVEN R. MENTO, *BYR '87*

was included in “Who’s Who at the Jersey Shore” by *The Boardwalk Journal* in June. He also launched his own station on Pandora, an Internet radio service.

MELISSA C. MORRIS, *CLA '87, LAW '91*

joined the healthcare and long-term-care group in the law firm of Burns White LLC in Philadelphia. She primarily represents long-term care providers in medical-malpractice claims.

NANCY SOARES, *SMC '87*

is founder and owner of Macungie Animal Hospital in Pennsylvania. That practice was named the 2013 “Accredited Practice of the Year” by the American Animal Hospital Association in July.

JAMES J. LEFLAR JR., *CLA '88, '90*

published *Organizational Resilience: Managing the Risks of Disruptive Events—A Practitioner’s Guide* with CRC Press. That book explains organizational resilience and how to manage risk using the ANSI/ASIS SPC.1-2009 Organizational Resilience Standard.

GEOFFREY SISK, *FOX '88*

competed in the first two rounds of the 2013 U.S. Open golf tournament in Merion, Pa., in June. The event marked his seventh appearance in a U.S. Open and his 40th appearance in a Professional Golf Association event.

VALENTINO F. DIGIORGIO III, *FOX '89*

was elected to the board of directors for the Chester County Economic Development Council, which provides services to companies in Chester County, Pa.,

and its surrounding areas. He is a partner in the law firm of Stradley Ronon Stevens & Young LLP in Philadelphia.

MICHAEL S. MARAVICH, *SMC '89, LAW '92*

joined the healthcare and long-term-care group in the law firm of Burns White LLC in Philadelphia. He represents physicians, nurses and healthcare institutions in medical-malpractice litigation.

MARK A. TARASIEWICZ, *SMC '89*

was appointed executive director of the Philadelphia Bar Association in September.

1990s

BERLINDA GARNETT, *SMC '91*

was promoted to producer of investigations and special projects at FOX 29-TV in Philadelphia. She also was awarded a 2013 Mid-Atlantic Emmy Award in the category of “Public/Current/Community Affairs Program/Special” for a half-hour program she wrote and produced called *Black on Black: The Conversation Continues*.

BARBARA S. DI TORO, *BYR '92, '94, EDU '10*

soon will celebrate the release of a second volume of the recording *Singing Adventures: Imaginative Songs and Activities for Young Children*. Like its first volume, that album will be available online. John Dunphy, *BYR '62*, director of music activities at Villanova University in Pennsylvania, and Monica Liggins, *BYR '79*, music director of Church of Our Savior in Jenkintown, Pa., also worked on the album.

GILLIAN JOHNS, *CLA '92, '00*

is associate professor of English at Oberlin College in Ohio. She also was interim director of the Oberlin College Research Fellowship Program for the 2012-2013 academic year.

TIMOTHY E. OGLINE, *TYL '92*

published *Ben Franklin for Beginners* with Random House. He is an illustrator whose work has appeared in publications including *The Philadelphia Inquirer* and *The Wall Street Journal*.

JACKIE N. SIKOWITZ, *SMC '93*

was promoted to head of medical product and consumerism marketing at Aetna Inc., where she celebrated her 10-year anniversary recently. Sikowitz also was recognized by the International Academy for the Visual Arts with a Communicator Award of Distinction for a series of online videos for which she served as creative director.

LAWRENCE M. FARNESE, *LAW '94*

joined Zarwin Baum DeVito Kaplan Schaer Toddy PC in Philadelphia as of counsel. He also is a Pennsylvania state senator who represents the 1st Senatorial District.

CHRISTOPHER J. MENNA, *ENG '94*

was elected director of Region 2 for the American Society of Civil Engineers. He is structural assistant manager of the city of Philadelphia.

GARY D. FOSTER, *CLA '95*

was named co-chief scientific officer of Weight Watchers International Inc. Previously, he directed the Center for Obesity Research and Education at Temple.

KENNETH E. LAWRENCE JR., *CLA '95*

was appointed to Pennsylvania Gov. Tom Corbett's Judicial Conduct Board. That group is responsible for investigating allegations of misconduct among the judiciary. He also is senior vice president for government, community and public affairs at Temple.

HEIDI E. BOGHOSIAN, *LAW '96*

published *Spying on Democracy: Government Surveillance, Corporate Power, and Public Resistance* with City Lights Books. She also is executive director of the National Lawyers Guild.

SHAWN A. CHRISTIAN, *CLA '97*

is associate professor of English, African-American and American studies at Wheaton College in Norton, Mass. He also directs that college's Summer Institute for Literary and Cultural Studies.

CANDACE DEPEW, *TYL '97*

had an exhibition at the Philadelphia Museum of Art titled *CandyCoated Wonderland* in the fall. It featured children's costumes from the museum's own collection presented as a storybook narrative. She makes art under the name "Candy Coated."

LAWRENCE R. SERNOVITZ, *EDU '97*

was honored with the 2013 Trailblazer Award by the Montgomery County Advisory Council to the Pennsylvania Human Relations Commission, of which he is vice chair. He is a rabbi at Temple Emanuel in Cherry Hill, N.J.

JAMES B. URIE, *CLA '97*

was included in the 2013 list of "Pennsylvania Rising Stars" list in the area of tax law. He is a partner in the firm of MacElree Harvey Ltd. in West Chester, Pa.

CAROLYN KITCH, *SMC '98*

published an article titled "Changing Theoretical Perspectives on Women's Media Images: The Emergence of Patterns in a New Area of Historical Scholarship" in the September 1997 issue of *Journalism & Mass Communication Quarterly*. It was named one of the top 50 classic articles to appear in that publication during the Association for Education in Journalism and Mass Communication centennial celebration in July.

DONNA T. WEISS, *EDU '98*

published *The Interprofessional Health Care Team: Leadership and Development* with Jones & Bartlett Learning in 2013.

RONALD C. BURKHARDT, *CLA '99*

was appointed coordinator of the Salem Center and Special Projects at Salem Community College in Carneys Point, N.J.

BRIAN J. MCAULAY, *FOX '99*

was inaugurated as president of Parker University in Dallas. Instead of holding a traditional investiture ceremony, he implemented a day of volunteerism that drew more than 800 participants. He also is past chair of the Atlanta chapter of the Temple University Alumni Association.

SAMUEL A. REED III, *EDU '99*

hosted Boys Write Now, a workshop for males in grades 7 through 12, on Temple's Main

Campus in August. That event was sponsored by the College of Education. Boys Write Now teaches self-expression through comics, lyrics, poetry and more.

2000s

MONIQUE CLARK, *CLA '01*

earned a master of arts degree in professional and business communication from La Salle University in Philadelphia.

RAYMOND D. DESTEPHANIS III, *SMC '01*

was honored by the Southeastern Pennsylvania Soccer Hall of Fame with the 2013 Chick Fallon Award for Service to Soccer in July. He is head varsity soccer coach at Roman Catholic High School in Philadelphia and tournament director of the annual Philadelphia Flyers Alumni Golf Invitational. He also is intramurals coordinator for Campus Recreation at Temple.

ADAM M. PINE, *CLA '02*

is assistant professor of geography and director of the Urban and Regional Studies Program at the University of Minnesota Duluth.

SHUAIYB NEWTON, *THM '03*

is an associate in the law firm of Martin LLC in Philadelphia. He practices in the areas of Social Security and long-term disability.

CHRISTOPHER G. BECK, *BYR '04*

performed percussion with the Oliver Lake Big Band at Dizzy's Club Coca-Cola during the Generations of Jazz Festival in New York City in September. He also performed with the Evolution Jam Session at Zinc Bar, also in New York. Beck was

CLASS OF 1948



Ryan S. Brandenberg

IRVING SANDLER

DEGREE: BA, American civilization, College of Liberal Arts, 1948

OCCUPATION: Art apostle

LOCATION: New York City

In the early 1950s, Irving Sandler, *CLA '48*, was unsure of what he would do with his life—until he visited the Museum of Modern Art (MoMA) in New York City. Sitting on a bench, he looked up at Franz Kline's "Chief." As he observed its dark, deliberate lines, Sandler understood that his life would revolve around art.

"I didn't know what it was, but it moved me very deeply," he recalls. "I was never interested in art before." Since then, Sandler has become one of the most prominent critics and historians of the U.S. Abstract Expressionist movement of the 1940s and '50s—the creators of which practiced a purer, more spontaneous expression of the psyche than their more formal counterparts. That movement helped shift the focus of the art world from Europe to New York City.

Shortly after his trip to MoMA, Sandler visited Cedar Tavern—a downtown haunt for many mid-20th-century artists. "I was invited to their studios," he says. "I wanted to know what the art that so moved me was all about."

Sandler began attending meetings of the Abstract Expressionist Club and soon was managing it. Through that involvement, he came to know iconic Abstract Expressionist painters, such as Jackson Pollock and Willem de Kooning. He began writing for

ARTnews in 1956 and served as art critic for the *New York Post* from 1961 to 1964.

"When I began writing criticism, I was writing for the artists and the art world," Sandler says. "But when I started at the *Post*, I reached the general public. I had to become an advocate, and teach as well as criticize."

Sandler also wrote several books of art history, including *The Triumph of American Painting: A History of Abstract Expressionism*, published in 1970. It is considered the leading post-World War II text about that genre.

"I had chronicled a movement that I knew was great."

Sandler had no idea it would become such a definitive text. "All I knew was, I had chronicled a movement that I knew was great."

In 1972, he became an advisor to the New York State Council on the Arts and saw a need for a space where emerging artists could get a foothold in the New York art scene. After securing a grant from the council, he opened Artists Space (pictured above), an organization in Soho that continues to support and promote up-and-coming artists.

At 87 years old, Sandler still immerses himself in art. He published the first part of his memoir, *A Sweeper-up After Artists*, in 2003; the second part, *Swept Up by Art*, is scheduled for publication in 2014. He also attends approximately 20 exhibits a week, deeming it a part of his "cardiovascular program."

—Victor Monaco, SMC '79

joined by pianist Yoichi Uzeki, *BYR '05*, at the former event and by pianist Luke O'Reilly, *BYR '04*, at the latter.

LUKE C. O'REILLY, *BYR '04*

led the Evolution Jam Session at Zinc Bar in New York City in September. A pianist, he was joined by Christopher Beck, *BYR '04*, on drums and by other musicians.

DOUGLAS W. PAULSON, *TYL '04*

co-hosted a series of workshops that explored similarities and differences during the We Conference in Jerusalem in August. He also is a member of Parfyme, an art collective that performed at the Ut Am Havn Festival in Hamburg, Germany, in August and September. Also in September, Paulson participated in *Untitled (As of Yet)*, an exhibit at Flux Factory in Long Island City, N.Y.

JOHN P. ZITO, *TFM '04*

co-directed and co-produced his debut feature film, *Alpha Girls*, with Anthony Trovarello, *SMC '05*. They also published three graphic novels in 2013: *Moon Girl* with Red 5 Comics, *DOGS of Mars* with Image Comics and *LaMorte Sisters* with DC Comics.

AMY T. BROOKS, *LAW '05*

has been elected to a three-year term on the board of managers of Haverford College in Pennsylvania. That board selects the president of the college and establishes its academic, administrative and financial policies. She also is an associate in the law firm of Wisler Pearlstine LLP in Blue Bell, Pa.

ANTHONY TROVARELLO, *SMC '05*

co-directed and co-produced his debut feature film, *Alpha Girls*, with John Zito, *TFM '04*. They also published three graphic novels in 2013: *Moon Girl* with Red 5 Comics, *DOGS of Mars* with Image Comics and *LaMorte Sisters* with DC Comics.

YOICHI UZEKI, *BYR '05*

performed piano with the Oliver Lake Big Band at Dizzy's Club Coca-Cola during the Generations of Jazz Festival in New York City in September. He was joined by Christopher Beck, *BYR '04*, and other musicians.

MATTHEW FARANDA-DIEDRICH, *LAW '06*

was elected a partner in the law firm of Dilworth Paxson LLP in Philadelphia. He represents companies and individuals in banking, financial services, insurance coverage, class actions, bankruptcy, the Employee Retirement Income Security Act, the automotive industry, construction and land development.

GINA M. CAPUTO, *CST '07*

earned a doctor of osteopathic medicine degree from the Philadelphia College of Osteopathic Medicine in 2013.

MALLORY FIX-LOPEZ, *EDU '07, '11*

is head of the English for Restaurant Workers program, which focuses on improving language skills of restaurant workers in Philadelphia. That program was launched in January 2013 through the Garces Family Foundation, of which Beatriz Garces, *DEN '02*, is co-founder and board chair.

JUSTIN GAINES, *SMC '07*

was interviewed by Melanie Martin, *SMC '10*, for EBONY.com, an African-American lifestyle website. Gaines is known as DJ Omega, a hip-hop DJ who collaborates with the artist Wale and manages several musical artists.

ANDREW D. WATSON, *TFM '07*

released a new short documentary, *The Most Quoted Man in the News*, in collaboration with *The New Yorker* magazine. The work is available for viewing online and focuses on Greg Packer, who gives "man-on-the-street" interviews compulsively.

CHRISTOPHER M. ADDO, *ENG '08*

is a power engineer at PJM Interconnection. He earned an international master of business administration degree from Arcadia University in Glenside, Pa., and seeks to build properties and solar-power initiatives in Ghana, his home country.

AMY B. CRAVATH, *DEN '08*

was elected president of the Scranton District Dental Society in Pennsylvania in August.

THERESA M. GEORGE, *CST '08*

earned a doctor of osteopathic medicine degree from the Philadelphia College of Osteopathic Medicine in 2013.

JEFFREY W. PALMER JR., *PHR '08, '10*

is a quality assurance associate at General Econopak Inc. in Philadelphia.

ELIZABETH L. SILVER, *LAW '08*

published *The Execution of Noa P. Singleton* with Crown Publishing Group in June.

ZHENG XIANG, *FOX '08*

was appointed assistant professor in the Pamplin College of Business Department of Hospitality and Tourism Management at Virginia Tech in Blacksburg.

DAVID A. CACCIA, *CST '09*

earned a doctor of osteopathic medicine degree from the Philadelphia College of Osteopathic Medicine in 2013.

MEGAN WELSH ÇAKALLI, *BYR '09*

was selected for the final rounds of the 32nd annual Hans Gabor Belvedere Singing Competition. In July, she performed in Amsterdam with 156 other finalists from 55 cities around the world.

NOAH DREW, *TFM '09*

starred in *Everything Went Down*, a musical film written and directed by former Temple faculty member Dustin Morrow.

KATE E. PATSCH, *TYL '09*

earned a master of education degree in special education from Marymount University in Arlington, Va. She teaches art at Fort Hunt Elementary School in Alexandria, Va., and has exhibited her photography in galleries across the country.

CARRIE A. REILLY, *EDU '09*

is an education volunteer with the Peace Corps. She is stationed in South Africa.

NICHOLAS E. STERN, *FOX '09*

joined Robert L. Stern Financial Services in Amherst, Mass., as a wealth-management advisor. That firm is owned by his father, Robert Stern, *CLA '69*.

CLASS OF 2008



Joseph V. Labolito

EMILY HENDRIE

DEGREE: BFA, metals/jewelry/CAD-CAM, Tyler School of Art, 2008

OCCUPATION: Metalhead

LOCATION: Cherry Hill, N.J.

What do Silly Putty and handcrafted jewelry have in common? Ask Emily Hendrie, TYL '08. In order to create her one-of-a-kind pieces for the prestigious metalcrafter Wendell August Forge, she uses a technique similar to pressing the brightly colored clay onto a newspaper comic to capture the image.

Known as *repoussé*, the process involves hammering metal on top of a hand-carved steel die to create an impression. When Hendrie was first hired at the company shortly after graduating from Temple, she used the process on a variety of projects, including giftware, ornaments, trays and plates.

In the early days of her employment, Hendrie was passed over for more complicated projects. As the company's first-ever woman working in production, she thought that many of her male co-workers were wary of her abilities. That changed after only a few weeks, when she volunteered to complete a 5-foot, bronze fireplace mantle—and do so without leaving any scratches or marks.

Hendrie had some experience polishing metals and drew on those skills to finish the mantle without leaving any unsightly

imperfections from the hammering process. Her colleagues were impressed. “That’s when they really started to trust that I could do the work,” she says.

She also found a use for materials that did not meet the company’s quality standards. Cutting around the damaged parts, she created jewelry from the unaffected scraps. That led to the launch of the popular UpCycled collection in 2009. “It sold out in a couple of days,” she says.

Demand for Hendrie’s unique pieces grew and led the company to create a jewelry department, of which she is creative director and lead designer. Now she focuses entirely on creating and designing jewelry.

“As soon as I picked up a torch, I thought, ‘Oh my goodness, this is for me.’”

Wendell August Forge offers six to eight jewelry collections per year. Thus far, Hendrie’s favorite is the 2012 Oceana collection, which included pieces of sea glass and what Hendrie calls a “super-deep, textural metal”—the result of using a hammerhead she created.

Hendrie has been interested in creating jewelry since her time at Tyler. Initially, she thought she would major in graphic design—until she enrolled in a jewelry-making course. “As soon as I picked up a torch, I thought, ‘Oh my goodness, this is for me,’” she says. “‘This is so much better than a computer.’” —Anne Freedman, SMC '88

CARLTON JOHNSON

DEGREE: JD, law, Beasley School of Law, 1984

OCCUPATION: Civil crusader

LOCATION: Philadelphia

In one of the first civil suits for which Carlton Johnson, *LAW '84*, represented the city of Philadelphia, he saw something he hoped he would never see again.

While in a holding cell, a teenage boy who had been arrested was so emotionally overcome, he attempted suicide. The boy's failed attempt left him a quadriplegic in a permanent vegetative state.

"I promised his mother I would do everything I could to make sure another mother didn't have to go through that same scenario," Johnson says. "It was awful."

He kept his promise. "When we were building additional lockup facilities, we made them suicide-proof, and retrofitted our existing facilities so that they, too, were suicide-proof," he recalls. "We also gave our officers additional training in terms of monitoring potentially suicidal inmates."

That case was only one in a tidal wave of civil suits Johnson was tasked with stemming when he joined the city solicitor's office after graduating from the Beasley School of Law in 1984. He also founded the Civil Rights Unit in the solicitor's office that same year. It aimed to both fight for the rights of Philadelphia's citizens and represent the interests of the city.

"As suits would come in, I'd study their patterns and try to come up with solutions to prevent further litigation," he explains.

For example, Johnson examined lawsuits that resulted from high-speed police chases. He discovered that many officers had never driven prior to joining the force and were offered very little driver training after they joined. He worked with the police department to add driving to the police-academy curriculum. Johnson also implemented policies in the Philadelphia Prison System that improved physical and mental healthcare for prisoners.

"One of the things about Temple's Law School that sets it apart from others is that you come away with a sense of mission—to do good things and to be on what I like to say is the right side of the equation, helping people and entities like nonprofits," Johnson says. "So my Temple education fit perfectly with my worldview of wanting to help people and become a public servant."

In 2006, he joined the law firm of Archer & Greiner, and now co-chairs its civil-rights and government-relations practice. The firm offers Temple law students scholarships and opportunities to work as summer associates. —*Jon Caroulis, SMC '81*



Joseph V. Labolito

2010s

MICHAEL D. CESAL, *CLA '10*

was appointed instructor of philosophy and political science at Northwood University in Midland, Mich.

JASMINE J. JOHNSON, *TFM '10*

was selected as a finalist in Canon's Project Imaginat1On contest for her short film titled *Sugar*. Led by Academy Award-winning director Ron Howard, Project Imaginat1On is designed to inspire amateur filmmakers.

MELANIE Y. MARTIN, *SMC '10*

is an editorial assistant at EBONY.com, a property of *Ebony* magazine. She recently interviewed Justin Gaines, *SMC '07*, a hip-hop DJ also known as DJ Omega.

DAVID C. PATTEN, *TFM '10*

appeared in *Delivery Man*, a comedy starring Vince Vaughn.

DEBORAH WAXMAN, *CLA '10*

was named president elect of the Reconstructionist Rabbinical College and the Jewish Reconstructionist Communities in October 2013. She is believed to be the first woman rabbi to lead a seminary and to head a denominational movement in Judaism.

JENNIFER A. MCPHERSON, *CLA '11*

earned a master of science degree in counseling and clinical health psychology from the Philadelphia College of Osteopathic Medicine in 2013.

RYAN V. RITCHEY, *TYL '11*

is a store artist for Whole Foods in North Wales, Pa.

SARAH ROSEBERRY, *CLA '11*

co-authored "Skype Me! Socially Contingent Interactions Help Toddlers Learn Language" with Temple Professor of Psychology Kathy Hirsh-Pasek. Their research was featured in a Sept. 24, 2013, article on CNN.com and in the journal *Child Development*. (Also see "Skype Me!" page 11.)

HEATHER A. RUSSELL, *BYR '11*

was named assistant professor of music education at Cleveland State University in Ohio.

KEN SIBANDA, *LAW '11*

published *Hannibal the Great: Hannibal Born* with Proteus Books. It is the first of a three-part graphic novel that complements a film by the same name. Sibanda also will co-direct that movie.

MAURICE "MAURY" KANE, *CLA '12*

received the Association of College and University Printers' 2013 Hall of Fame Impression award in August. He is retired from his position as director of Digital Document Services at Temple.

JASON E. KASHER, *FOX '12*

began a 1,000-mile run in September to raise funds that will go to various charities, assist in paying off his student-loan debt and fund the launch of his startup company.

JOSHUA J. MARTIN, *CLA '12*

released an album, *Me Moan*, with Sub Pop Records in July under the name Daughn Gibson. He also performed at Johnny Brenda's in Philadelphia in August.

BRET M. MOLLON, *CHPSW '12*

was named goalkeeping coach of the soccer programs at Coastal Carolina University in Conway, S.C.

JONATHAN J. RISS, *BYR '12*

earned the highest score on the 2013 American Guild of Organists Choir Master exam and won the guild's ChM Prize that year. He also teaches in Hastings-on-Hudson Schools in New York and serves as director of music at St. John's Lutheran Church in Melrose Park, Pa.

LAUREN E. ANGELINI, *SMC '13*

was hired as assistant communications planner for MayoSeitz Media, a marketing and advertising agency in Blue Bell, Pa.

THOMAS D. FEISTER, *FOX '13*

is staff accountant at ParenteBeard LLC, an accounting and business advisory firm.

KERRY B. FILSINGER, *BYR '13*

was named assistant professor of music education at University at Buffalo, the State University of New York.

RAKESH C. GUDURU, *PHR '13*

began a one-year pharmacy residency at the University of Toledo Medical Center in Ohio in July. His career interests include infectious diseases and pharmacy administration.

GWEN M. PFEIFER, *SSW '13*

won third prize in the Pennsylvania Society of Clinical Social Work Awards for Clinical Excellence competition. Those awards are given annually to graduating master's-level students of social work. Pfeifer's paper is titled "Adoption Planning: Using Feminist Relational Theory to Support a Birthmother's Process."

JOSE GUILLERMO ORTEGA TANUS, *BYR '13*

was one of two dancers chosen for the PHL/Budapest Bilateral Artists Exchange. The program provides dancers from Philadelphia with three weeks of study in Budapest.

KRISTIN J. TURNER, *SMC '13*

is employed at Grey New York, an advertising and public relations firm in Manhattan.

SHAWNNA L. WILLIAMS, *TYL '13*

was named "Artist of the Month" in October 2013 by the Manifestationz Art Gallery in Cary, N.C.

CORRECTION

In the fall 2013 issue, the class note for Robert A. Levine, *DEN '81*, incorrectly listed his wife as Sharon; her name is Sheryl Radin, *CST '78, DEN '82*. In addition, Levine's daughter, Bari, is a second-year student in the Kornberg School of Dentistry.

Post your class notes online!

Visit alumni.temple.edu/classnotes to share your recent news and update your information. Online class notes are run in *Temple* and other publications.

You also may mail your notes to:

Editor, *Temple*
TASB/1852 N. 10th Street
Philadelphia, PA 19122

IN MEMORIAM

This list includes those in the Temple community who have passed away since the last issue of Temple.

1940s

Jules J. Eck Jr., *DEN '41*
Lillian Lubin Krelove, *SED '41*
Elmer C. Stockberger Jr., *DEN '41*
Nicholas J. Chantiles, *DEN '42*
Leonard E. Ciancarelli, *DEN '42*
Lewis Epstein, *DEN '42*
William L. Goldman, *FOX '42, LAW '51*
Benjamin Grossman, *DEN '42*
Benjamin M. Quigg Jr., *CLA '42*
Albert Soifer, *DEN '42*
Peter A. Cichon, *DEN '43*
Bernard J. Entine, *DEN '43*
Sidney Gerstenhaber, *DEN '43*
John J. Giordano, *DEN '43*
Samuel Haskins, *DEN '43*
A. Bruce Lampert, *DEN '43*
Jack R. Pomerantz, *DEN '43*
Robert Ruder, *DEN '43*
Earl L. Stover, *DEN '43*
George Szygula, *EDU '43, '47*
Anthony Butchko, *DEN '44*
Herbert Cohen, *DEN '44*
George B. Crossmire, *DEN '44*
Edward P. Kruszewski, *DEN '44*
Myer Lebow, *DEN '44*
Jeanne M. Lescoe, *DEN '44*
Doris B. Malarkey, *TYL, EDU '44*
Irving Price, *DEN '44*
Walter Schlam, *DEN '44*
Frederick J. Steier, *DEN '44*
Florence Taub, *DEN '44*
Carl J. Eberl, *BYR '45*
Theodore Eiges, *DEN '45*

Samuel Kaplan, *DEN '45*
John Kurkis, *EDU '45*
Carlo A. Masiello, *POD '45*
Leonard Meinwald, *DEN '45*
Stanley Scheindlin, *PHR '45*
Judith Ploener Schwartz, *CHPSW '45*
Solomon L. Shore, *DEN '45*
Stanley Stutman, *DEN '45*
Alfred O. Davies, *MED '46*
Natalie Followell, *TFM '46*
Bruce Jacobs, *EDU '46, '51*
Max Janoff, *FOX '46*
William M. Strunk, *MED '46*
Eleanor A. Suda, *CHPSW '46*
Marcia Fishner Rothblum, *TYL '48*
Gloria S. Carroll, *PHR '49*
Robert W. Eltringham, *FOX '49*
John M. Shwed, *ENG '49*
Lewis H. Wilkinson, *EDU '49*
Robert V. Williams, *DEN '49*

1950s

Leona S. Baksi, *CHPSW '50*
Adolph Bushell, *DEN '50*
Lawrence Cilestio, *SMC '50*
Willis S. Greene, *FOX '50*
Ann V. Rasmussen, *CHPSW '50*
Marvin Rothstein, *ENG '50*
Naomi W. Zaslów, *CLA '50*
Maxine Snyder Boodis, *EDU '51*
Arthur B. Brodsky, *CST '51, DEN '55*
Dennis D. Doody, *ENG '51*
Hugh F. Gallagher, *FOX '51*
Patrick C. Gentile, *FOX '51*



Temple University Libraries

C. WILLIAM MILLER

C. William Miller, professor emeritus of English literature, passed away in April. He spent 35 years teaching as a Shakespearean and Elizabethan Renaissance scholar at Temple.

He earned an undergraduate degree from Gettysburg College in Pennsylvania in 1936 and a doctorate from the University of Virginia in Charlottesville in 1940.

During his tenure at Temple—which began in 1947—Miller conducted a 20-year study of the history of Benjamin Franklin's printing career. In 1976, he became the first U.S. recipient of the International League of Antiquarian Booksellers prize for the bibliography *Benjamin Franklin's Philadelphia Printing, 1728 to 1766*.

He is survived by two sons, two grandchildren and two great-grandchildren.

Samuel Kuna, *CST '51*
Howard G. Lee, *MED '51*
Jerome Rosoff, *FOX '51*
Carl Seligman, *FOX '51*
Charles R. Wolf, *FOX '51*
Rudolph J. Di Massa, *LAW '52*
Arnold D. Foley, *FOX '52*
Edward Resnick, *EDU '52, '56*
Royce L. Brittan, *FOX '53*
Warren Freedman, *FOX '53*
Louis A. Mitchell, *PHR '53*
Sheldon H. Swengle, *ENG '53*
William N. Andrus, *FOX '54*
Roberta Bertelsen, *PHR '54*
John E. Fuir, *FOX '54*
Dean L. Johnson, *DEN '54*
Robert W. Kitting, *POD '54*
Duane L. Redles, *CHPSW '54*
Mary E. Venable, *EDU '54*
Paul V. Buday, *PHR '55*
James M. Coate, *LAW '55*
David G. Gregor, *MED '55*
Melvin B. Herrin, *FOX '55*
F. Frederick Perone, *LAW '55*
Donald C. Trapp, *MED '55*
Henry T. Aleski, *ENG '56*
Rocco Granese, *ENG '56*
John P. McDade, *MED '56*
Herbert N. Oliver Jr., *DEN '56*
Mary Fox Grant, *EDU '57*
Edward D. Greaves, *MED '57*
Leonard H. Juros, *DEN '57*
John P. Kessler, *FOX '57*
Shirley W. Klein, *CHPSW '57*
Richard E. Malone, *FOX '57*

Arthur H. Sherman, *FOX '57*
 Thomas G. Taylor, *FOX '57*
 Nathaniel Washington, *EDU '57, '64*
 Janis Rossman Brown, *CHPSW '58*
 John L. Dotson Jr., *SMC '58, HON '81*
 Marshall G. Flamm, *CLA '58*
 Norman L. Henderson, *PHR '58, CLA '62*
 Richard E. Hess, *ENG '58*
 John P. Murphy, *PHR '58*
 Paul M. Seideman, *DEN '58*
 G. Donald Siemer, *SMC '58*
 Jesse C. Thomson, *ENG '58*
 Russell M. Weimar, *EDU '58*
 Arthur W. Cipriany, *PHR '59*
 Joan Spence Davis, *EDU '59, FOX '74*
 George H. Frueh, *ENG '59*
 George E. Mitchell Jr., *ENG '59*
 Charles E. Trafford, *EDU '59*

1960s

Dale T. Bowen, *MED '60*
 William C. Ebell, *ENG '60*
 Patoma A. Grice, *EDU '60*
 Christine J. Hackman, *CHPSW '60*
 Helen M. McHugh, *EDU '60*
 William M. Stutzel, *DEN '60*
 Paul J. McCracken, *ENG '61*
 John K. Jones, *EDU '63*
 John Plank, *EDU '63*
 Carl W. Stemmer Jr., *LAW '63*
 John C. Baker Jr., *ENG '64*
 Jerry E. Enis, *MED '64*
 Sheldon H. Feingold, *DEN '64*
 John W. Polhemus, *ENG '64, '65*
 Nancy K. Valego, *CLA '64*
 Ronald Harpster, *DEN '65*
 Frank Massino, *FOX '65*
 Albert E. Miller, *FOX '65*
 Mark S. Refowich, *LAW '65*
 Lorraine F. Smedley, *CHPSW '65*
 Joe L. Stauffer, *EDU '65*

Hagop Tcherkezian, *DEN '65*
 E. Lawrence Harasym, *MED '66, '71*
 Arthur C. Jacoby III, *FOX '66, '70*
 Harrison H. Stump, *CHPSW '66*
 George C. Roatche, *ENG '67*
 Mark W. Bailey, *CLA '68*
 David W. Danker, *EDU '68*
 Edward G. de Paschalis, *FOX '68*
 Thomas I. Haigh, *CST '68*
 Lionel C. Neilans, *DEN '68*
 Ronald R. Shuey, *EDU '68*
 Barry S. Wilderman, *CST '68, MED '72, '76*
 Hugh L. Cosline Jr., *EDU '69*
 Richard J. Scuderi, *FOX '69*
 Madeline B. Weldon, *EDU '69*

1970s

Wilmer H. Glaser, *TYL '70*
 Walter B. Kahn, *SMC '70*
 John W. Morton Jr., *ENG '70*
 Joseph A. Pelizzoni III, *FOX '70*
 Cynthia R. Plotkin, *EDU '70, '75*
 Chipp D. Wells, *TYL '70*
 Rose Epstein, *CLA '71, EDU '74*
 James J. Jakubchak, *MED '71*
 Thomas J. Jefferys, *CLA '72*
 James C. Rupert, *EDU '72*
 Janet L. Bouvier, *EDU '73, '88*
 Michael W. Kabo, *CLA '73*
 Joseph J. Kelly, *CLA '73, '80*
 Michael Worthington, *CLA '73*
 Fraser S. Foster, *SED '74*
 Richard H. Schietrumpf, *DEN '75*
 Donald E. Spiller, *FOX '75*
 Scott L. Stanton, *FOX '75*
 Nadene R. Wegner, *TYL '75*
 Carsarraine Blackwell, *EDU '76*
 Harry B. Forman, *FOX '77*
 Margaret M. Walsh, *EDU '77*
 Nancy J. Foltz, *FOX '78*
 Kenneth Hamberg, *POD '78*

1980s

Kevin A. Chavarria, *MED '83*
 Samuel L. Ferrante, *EDU '83*
 Happy Craven Fernandez, *EDU '84*
 Dennis G. Ebright, *SSW '85*
 Richard A. Keen, *LAW '85*
 Scott A. Atiyeh, *TYL '86*
 Dorothy F. Binns, *CLA '86*
 Tarn N. Slater, *SMC '86*
 John D. Owen, *EDU '87*
 Rosemary Quinn, *CHPSW '87, '92*
 Janet L. Viola, *FOX '88*

1990s

Albert J. Marcellino, *LAW '90*
 Gerald J. Schneider, *FOX '90*
 Estella Munson Elesh, *EDU '93*
 Robert D. Getzoff, *LAW '93*
 E. Keith Stellabott, *TYL '93*
 Jane B. Kearney, *SSW '94*
 Ulf F. Balack, *CLA '98*

2000s

Paulinus Akhimien, *PHR '03*
 Anthony Pellegrino, *LAW '04*
 Michael E. Sholtis, *EDU '05*

2010s

Ali Atif, *ENG '11*

To submit a name for this list, email templemag@temple.edu or call 215-926-2562.

You also may mail your notes to:

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The Sutman family

FRANCIS X. SUTMAN

Francis Sutman, former professor in the College of Education, passed away in August. He taught at Inter-American University in Puerto Rico and the State University of New York at Buffalo before joining Temple in 1962. He taught science education there for 20 years.

He received the New Jersey Governor's Award for Education in 1987. From 1989 to 1993, he served as program director of the National Science Foundation. He also assisted with curriculum development at both Rowan University in Glassboro, N.J., and the Richard Stockton College of New Jersey in Galloway.

Sutman authored several books about science education. He also was a fellow of the American Association for the Advancement of Science, a member of the American Chemical Society and former president of the National Association for Research in Science Teaching.

“If you’re the kind of parent [that] raises your [child] with the ‘**Do it because I said so**’ approach, you’re raising a child who’s going to be more susceptible to others saying, ‘Do this.’”

LAURENCE STEINBERG, LAURA H. CARNELL PROFESSOR OF PSYCHOLOGY AND DISTINGUISHED UNIVERSITY PROFESSOR, discussing peer pressure in *The Wall Street Journal* online, June 17, 2013

SHOW AND TELL

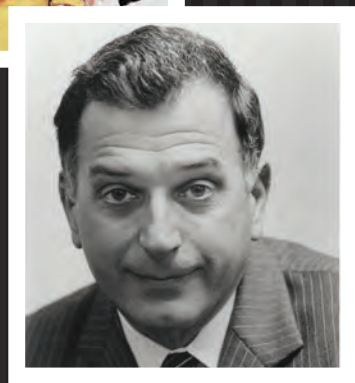
Have you recently come across a quote from an Owl that inspired you? To share it, email the quote and the name of the person to whom it is attributed to templemag@temple.edu. It might be included in an upcoming issue of *Temple*.

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Temple swings with the Monkees when they play a postgame football party in 1987.

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Jan. 21	Connecticut	Hartford, Conn.
Jan. 26	Cincinnati	Liacouras Center
Jan. 29	Rutgers	Liacouras Center
Feb. 1	Villanova	Liacouras Center
Feb. 6	SMU	Dallas, Texas
Feb. 9	Houston	Houston, Texas
Feb. 13	Louisville <i>(White Out)</i>	Liacouras Center
Feb. 16	SMU <i>(Hooter the Owl's Birthday Party)</i>	Liacouras Center
Feb. 20	Connecticut <i>(Cherry Out)</i>	Liacouras Center
Feb. 22	Memphis	Memphis, Tenn.
Feb. 27	Louisville	Louisville, Ky.
Mar. 1	Houston	Liacouras Center
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