

38 Dorothy Day in the
HOUSE

MINI
Drexel opens 44

30 Our classes get it
DONE

Drexel

M A G A Z I N E



What's in Your Computer?

Sociologist Mimi Sheller looks under the surface of modern materials to study how they change commerce, culture and the environment

The Ledger

EXPLORATION

CLIFF HANGER

Ted Daeschler, curator of vertebrate zoology at the Academy of Natural Sciences of Drexel University and a professor in the College of Arts and Sciences, caught this image of a colleague along the edge of a glacier as it slowly moves over a cliff near the top of Wright Valley, Southern Victoria Land, in Antarctica. Daeschler traveled there last winter to collect 390-million-year-old fossils for study.

11,970

Distance flown, in miles, from Philadelphia to the field site.

24

Hours of summer daylight in Antarctica.

The daylight warmed the interiors of the researchers' tents to just about freezing.

50

Gallons of urine collected in the field. Visitors are required to remove urine to reduce environmental impact.

Weight, in pounds, of the fossils shipped home for further study.

450

98

Percent of Antarctica covered in ice. The team was in the McMurdo Dry Valleys—part of the 2 percent not under ice.

PHOTO COURTESY OF TED DAESCHLER

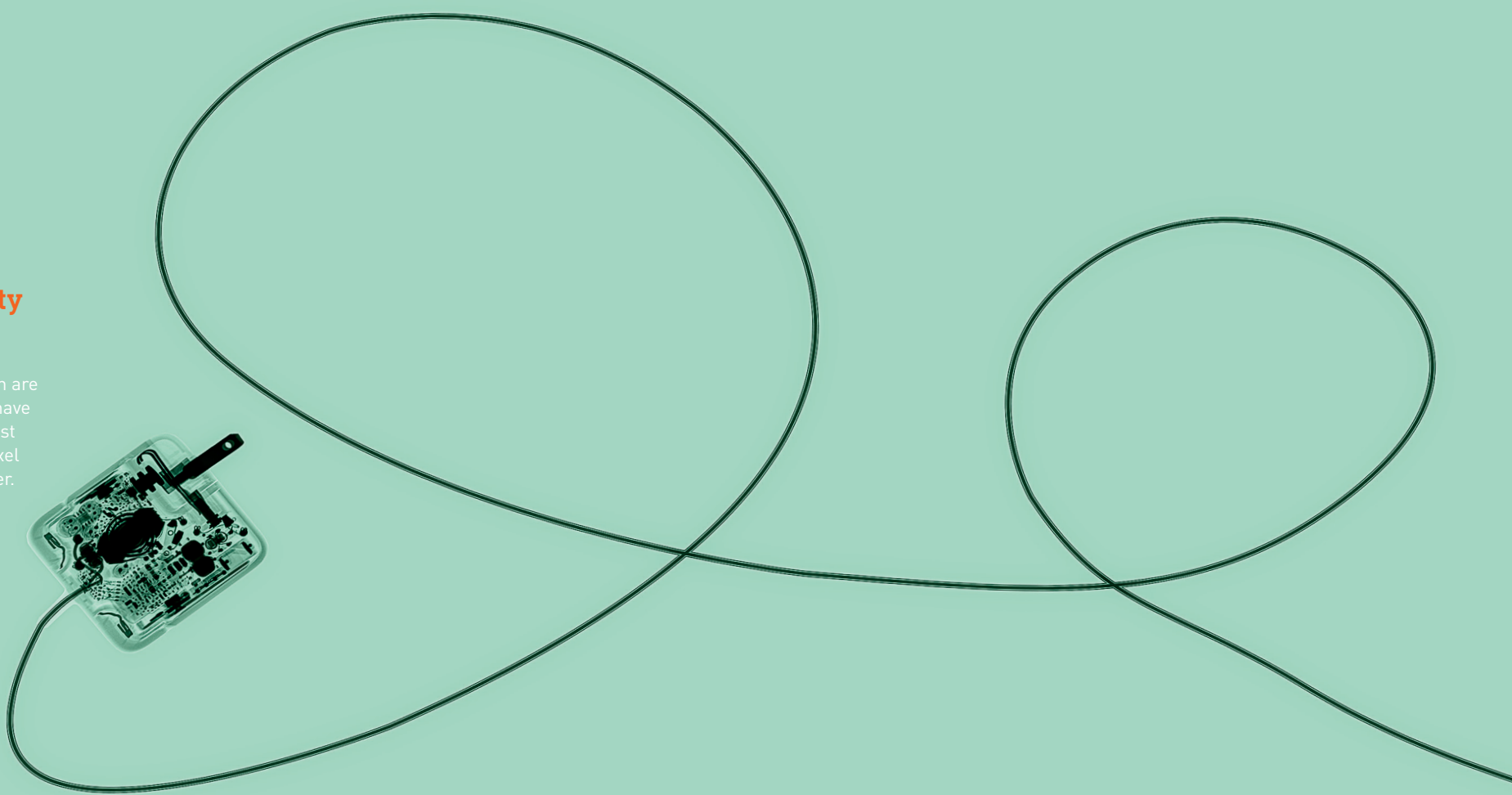


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An Interview with Modernity

The materials and technologies that put modern life into motion are exhilarating, but they have consequences that must be managed, says Drexel sociologist Mimi Sheller.



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Class Action

As Dr. Seuss might have said, “Oh the thinks you can think!” if only you were a student once more in a Drexel experiential learning course.



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A Ministry of Presence

In the Kensington section of Philadelphia, Johanna Berrigan '97 has been humbly running one of the world's few Catholic Worker free health clinics for more than 20 years.

44

Progress Report

Engagement is already high at Science Leadership Academy, the new middle school in Powelton Village that opened last fall with Drexel's support.

THE VIEW FROM MAIN

Over and over, Drexel graduates tell us they look back on their co-op experience as a watershed event of their university years: the invaluable interviewing process, the unparalleled chance to explore possibilities in their field, and the confidence-building that proves as worthwhile as the critical learning insights which inform their classroom work. Hearing such encouraging feedback reinforces my vision of Drexel as a modern urban research university whose students have as much to gain by stepping out into the real world as they do by hitting the books.

And, so, what could be better than blending those two realms? As you will read in this issue, the University has developed a remarkable and growing set of courses that fall under the rubric of “inside-out” learning. In teaching courses like these, faculty creatively guide undergraduates in applying classroom learning to real-life situations. Like managing a multimillion-dollar investment portfolio, helping prison inmates write memoirs, untangling difficult legal issues for community members, organizing a major entertainment event, and so much more.

In our 125th anniversary celebration, we were reminded how our long tradition of experiential learning still inspires everything we do. As much as the Drexel Co-op has been a pivotal part of Drexel's origins, I am pleased to report that it continues to thrive.

More than 5,700 students participated in co-op this past academic year. They worked with nearly 1,700 employers, ranging from small entrepreneurial organizations to medium-sized businesses and major corporations. In fact, co-op opportunities know no bounds. This year, 743 students went on a co-op outside the region. And between 2011 and 2016, international co-ops rose by 88 percent. To support these experiences, our professional staff at the Steinbright Career Development Center work tirelessly to secure scholarship funding.

In today's competitive job market, the experience gained and networks built by our students on co-op is more important than ever. For their part, employers consistently tell us they are satisfied with their co-op experience, with 86.6 percent saying they would consider hiring their student for a future co-op or full-time position. And nearly half of last year's graduates received job offers from a former co-op employer.

Fifty years ago this year, the rock guitarist, singer, and songwriter Jimi Hendrix asked the question in song: “Are You Experienced?” For nearly a half-century before that — and ever since — Drexel graduates have confidently answered that question in the affirmative.

Sincerely,

John A. Fry // President

DEPARTMENTS

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56 Crossword

To crack this puzzle, you'll need to imagine a curriculum as open to unusual coursework as Drexel's own.





EDITOR'S LETTER

Cha-cha-cha Changes

It's fall — as I write this the new term has started, and as usual no one can find their classrooms in Curtis Hall.

We have a big freshman class this year — maybe you've heard? The incoming class of more than 3,250 is bigger and better prepared than ever. They still can't figure out Curtis Hall, but that's OK.

The University accepted 22,000 applicants and got a nice, fat yield. Yield is the number of applicants who actually enroll, and it's a bellwether of sorts. Drexel's yield had sunk from a peak of 24 percent to a low of 8.1 percent. This year, it shot back up shy of 16 percent.

So, what happened? I'm glad you asked, because it's at the root of a lot of changes around Drexel, and at the root of some shifts that are going to be very good for alumni.

Drexel used to make it free to apply and easier than changing the channel on a remote. And for many years, it was somewhat exciting around here to be able to say that Drexel was receiving a record number of applications, while watching the student body get swole. But tellingly, yield kept shrinking, and retention wasn't great, either. Students who came here so easily, also easily drifted away.

So a couple of years ago, Drexel tossed out its free, no-essay app approach and slapped on a \$50 fee. Applications plunged 40 percent, but that was OK. Next, Drexel invested in larger financial aid packages and created an early warning support system for students at risk of dropping out. Student services were revamped to improve retention and engagement. All of the admissions advisers were retrained and required to chat up high school guidance counselors and hit the road for college fairs.

If one statistic says it all, it's this: In 2014, university counselors visited 75 high schools. This year, they visited 1,375. Next year, it will be at least 2,000.

Drexel, the school that expects you to be a self-doer, is finally doing the work. And that's already bringing in students who "get" this place, who arrive understanding the weird five-year structure and the crazy quarter system and the specialness of experiential learning and the advantages of the co-op program. This old-fashioned, word-of-mouth, personal approach is, I'm sure, how many of our older alumni originally learned about Drexel, and it's probably part of why they remain our most loyal and engaged (hi, you). There's no substitute for someone you trust taking you aside and saying, "Hey, this school is different; they may never get around to putting up a decent map of Curtis Hall, but you should really give this place a look."

Enrollment is notoriously tricky. But the new strategy means that Drexel graduates will be more successful and better served, and that means higher rankings, deeper connections and a stronger institution in the long run.

Sonja Sherwood
Sonja Sherwood / Editor

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Chillin' out maxin' relaxin all cool and drinking some cold brew outside of the school. In July, Saxbys opened its second entirely student-run cafe on Drexel's campus.



drexeluniv Someone's getting ready to be a #Drexel Dragon this fall!
tr3v0saurus.rex Is it me? Think it's me. Yup. Definitely me.
paintwithpurpose GO DRAGONS!!!! Much successDDD
kylejohn825 @blackbelttlevel already taking over drexel's insta and u didnt even start yet D
blackbelttlevel Shout out to @inspireandaspire for coming up with this dope shot!!
lovelyladyred12 Jealous!!!!!!!!!!!!!!

@ChuckBausman: Watching great @ GolfChannel feature on former #Drexel golfer Chris Crawford, who qualified for US Open.

@dnb1970: I remember some of this art & artifacts in the main building when I was a student — [love] they are restoring!

@AndrewD-Stutzman: Excited to be working with @WordPress and @excite-center today to help local businesses build websites in West Philly. #wordpress

@eener79: First stop Pittsburgh. Tomorrow off to Drexel Univ. Can't believe I am leaving my daughter in Philadelphia but so proud of her!

@Rafaela_M_Orton: Dying in excitement. Wish my fall quarter began August 21 instead of September 25.

@ginastaford1: Chat w/ my Afghan cab driver today: Left home 30 yrs ago & now has daughter on \$65K/yr scholarship as a #Drexel med student. #GodBless-America

Drexel MAGAZINE

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CROSS WALK

CAMPUS

Space to Think

New lab space on campus is giving academics, students and entrepreneurs crucial room to collaborate on exciting projects.
By Alissa Falcone

Collaboration is nothing new for Drexel College of Engineering professors Kapil Dandekar, Adam Fontecchio and Timothy Kurzweg. The three have been working together on engineering projects for years and even hold some joint patents together.

What is new, however, is where they work: bright, customized new labs and offices at 3101 Market St. that Fontecchio calls “a dream three years in the making.”

For the past 10 years, they’ve shuttled back and forth between rooms located on different floors of the Bossone Research Enterprise Center — but now no longer. The new lab space gives them easy access to each other and to other professors doing innovative work — in particular Youngmoo Kim, an engineering professor and director of the Expressive and Creative Interactive Technologies (ExCITE) Center, and Gary Friedman, a professor of electrical and computer engineering. And the space includes loads of tools and equipment, like a materials printer for making polymers, an optics lab for light-sensitive work and for testing vibrations, a wet lab, machine shop, and a unique dual-reverberation chamber to simulate wireless environments.

“We designed the space hoping that students would end up talking and even working with other students they wouldn’t normally see,” says Associate Professor Timothy Kurzweg.





"I am very hopeful that this space will showcase the full potential of Drexel's Schuylkill Yards," says engineering professor Kapil Dandekar.



View the mayors' conversation at the Drexel InterView YouTube channel at <http://bitly/2xuDrM7>.

CAMPUS (CONT.)

The space is the fruit of Drexel's long-term renovations of its core research laboratories. Initiated in 2014, Drexel's Research Laboratory Plan is investing approximately \$49 million to create and update core research facilities. To date, the plan has delivered approximately 40,000 square feet of new and improved research laboratory space equipped with more than 30 new chemical fume hoods. The completed and planned renovations provide much-needed upgrades to research space for several colleges and schools, with interdisciplinary research in mind.

The University has also been working with private companies interested in donating equipment and embedding their personnel alongside faculty and students to help commercialize technology.

1 DESIGN LAB

Undergraduates now have new design labs at 3101 Market St. Students also have a new lounge featuring wooden walls that double as white boards and nearby tables and workstations with pop-up power capabilities, USB ports and screens to practice presentations on.

2 DRAGON'S DEN

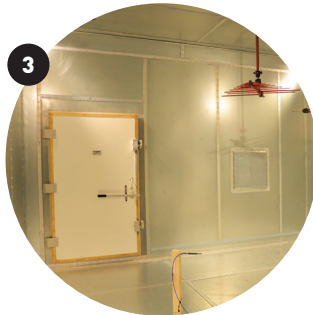
An open communal work area called "the dragon's den" is tall enough to fly drones, wide enough to have robots zoom around, and also houses a new Internet of Things testbed for research and education with functional fabrics, real-time localization and software-defined radio.

3 DUAL-REVERBERATION CHAMBER

This chamber was built to simulate different types of wireless environments to test electromagnetic capability and radios. Previously, researchers had to travel outside Philadelphia to access such an unusual site.

4 CONFERENCE ROOM

A glass-walled conference room is stationed in the middle of the room, while professors' glassed offices line the perimeter.



COMMUNITY

Mayoral Moment

Drexel hosted former Philadelphia mayors Michael Nutter and Ed Rendell on May 3 for a free-wheeling conversation on their experiences in office, the city, its development and its educational institutions.

"We have a Philadelphia today which is so much better than it was 25 years ago. It still has its challenges, but it's come a long way," Rendell said on stage in the Bossone Research Enterprise Center's Mitchell Auditorium. The event, titled "A Tale of Two Mayors: A Conversation on Philadelphia's Past, Present and Future" was also taped live for broadcast on "The Drexel InterView."

The former civic leaders both mentioned the restoration of pride in the city as being among their biggest accomplishments in City Hall.

"We made people believe in the city again," Rendell said.

The ex-mayors made sure to deliver some wisdom to the Drexel students and Philadelphians eager to make a difference in the city and beyond.

"Communicate. Resist. Organize. Vote," Nutter said. "When we do that, we win."



PUBLIC HEALTH

PRESCRIPTION PERSUASION

Chances are, your doctor could be influenced by payments and gifts he gets from drug companies. Two-thirds of patients in the United States visit a doctor who has received payments from drug or medical device companies, but only 5 percent of those surveyed were aware of it, according to a study from the Dornsife School of Public Health. "Patients should be aware of the incentives that their physicians face that may lead them to not always act in their patients' best interest," warns Genevieve Pham-Kanter, the study's author.



NATURAL SCIENCES



The Name Game

Mark Sabaj of the Academy of Natural Sciences of Drexel University discovered a new species of eyeless catfish in the murky bottoms of the Amazon River and gave it a name that holds a special place in his heart. "I named it *Xyliphius*

sofae as an expression of love for my daughter and appreciation for everything she has taught me," says Sabaj, interim curator of Ichthyology at the Academy. "Like Sofia, this specimen is unique."

NURSING AND HEALTH

Kitchen Nightmares

Most home kitchens in Philadelphia would receive "critical code violations" if they were held to the same standards as restaurants in the area, according to two studies out

of the College of Nursing and Health Professions. Of 100 homes reviewed, most had pest infestations and didn't store raw meat correctly, and almost half contained at least one foodborne disease-causing organism, such as listeria and *E. coli*.

ARTS AND SCIENCES



Sweet Science

The artificial sweetener you put in your coffee could be a

suitable pesticide, according to researchers in the College of Arts and Sciences. Because of its quick lethality to freshly hatched flies and the ability to halt egg production, erythritol, the sugar alcohol in Truvia brand sweetener, could be a potent but safe way to keep flies in check. It eliminated larvae within three days, long before adulthood, and flies feeding off the sugar substitute barely produced any eggs, if at all. "Erythritol has

the potential to be deployed in a wider array of settings, targeting adults, egg production, active feeding larvae, or all of the above," says Sean O'Donnell, one of the researchers on the study.

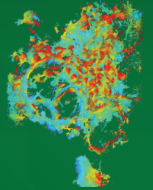
BUSINESS

The Power of Empowerment

Empowering teams is an important way that leaders can enhance an individual's performance, according to a study led by Lauren D'Innocenzo, an assistant professor in the

LeBow College of Business. Researchers looked at data involving individuals spread over 78 hospital units and found that team empowerment contributes to individuals' own psychological empowerment and job performance. "Empowered behaviors can lead to improvements in health care, as many hospitals are trying to perform their missions with less staffing and empowerment is seen as a way to do more with less," says D'Innocenzo.

ENGINEERING



The Inner Lives of Cells

With the help of Drexel engineers, researchers are getting the first glimpse at the inner workings of live cells. A new microscopy technique pioneered by Nobel laureate Eric Betzig with assistance from Drexel faculty uses grids of light to activate fluorescent color tags on each type of organelle within

a cell, resulting in a 3-D video that will help scientists better understand how cells react to environmental stressors and respond to drug treatment. "It's some really impressive footage that gives biologists this ability to look deeper and deeper into live cells and see things they've never seen before — like six different organelles in a living cell in true 3-D," says Andrew Cohen, a professor in the College of Engineering and leader of Drexel's Computational Image Sequence Analysis Lab.

Show and Tell

CO-OP PROGRAM

ELLE KHOR BA GLOBAL STUDIES '17

Every year, more than 5,700 students discover their careers through the Drexel Co-op program — a signature model of education that balances classroom theory with job experience within a buzzing network of nearly 1,700 co-op employers in 51 countries. What does a Drexel co-op look like? In this regular feature, we ask a student fresh off a recent co-op to show us. — *Sonja Sherwood*

THE CO-OP

I'm not from America; I'm from Kuala Lumpur, so I'd never heard of City Year until I stumbled across them in Drexel's co-op database. I remember going into the interview feeling excited yet nervous. I was so happy because I love their mission! City Year is a nonprofit education branch that deploys 200 young-adult AmeriCorps members who are recent high school and college grads for a year of service in 18 schools around Philadelphia. Every day at 6 a.m. they wake up, put on this red jacket proudly, and go to schools where they help third through 10th graders who are having a hard time with certain subjects, attendance and behavior. They are tutors, mentors and run after-school programs. As the communication and brand associate, I assisted in social media and blogging, as well as photography and graphic design for different events.

THE TAKEAWAY

This was my first co-op or job in America, and I loved it. At first, I was really nervous and I didn't have a lot of confidence in myself, but my coworkers were always encouraging me and pushing me to be more confident in my skills and to be a leader. Most important, I think the organization's mission for change through education has opened my perspective to what I want to do in the future. Hopefully, I can bring that leadership and the skills I learned to my next job!

** Drexel partners with City Year to offer four-year-renewable scholarships of 25 percent per graduate credit for City Year members, alumni and staff.*



THE OBJECT

This red jacket is a symbol of pride for AmeriCorps members. When you put on the red jacket, it's a responsibility; it symbolizes your passion to help students succeed. When students who need extra academic and emotional support see the red jacket, they can know they can trust you to guide them like a mentor. That's something I wish I'd had in my schools growing up.

City Year Jacket

JEFF FUSCO

CROSSWALK

BRIEFS



"Drexel is attracting students who are highly qualified, and who at the same time are more likely to remain enrolled and go on to finish their degrees," says President John Fry.

Researchers can access Drexel's Archives in the Hagerty Library by appointment. Learn more at library.drexel.edu/archives.

ENROLLMENT

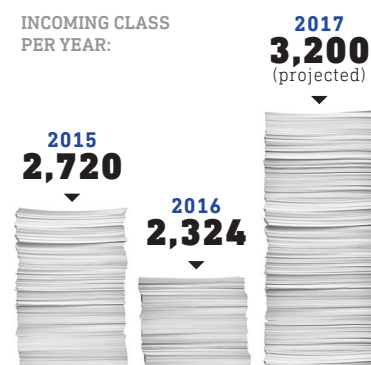
Record-High Enrollment

Drexel received more than 3,500 deposits for the fall 2017 undergraduate class, representing a 43 percent increase over 2016 freshman deposits and a yield rate of 15.8 percent, the highest in recent years.

"The success of our Universitywide recruitment efforts for the next incoming freshman class shows that our student enrollment and retention strategy is solid and working," says President John Fry.

After an expected "summer melt" of students who submit a deposit but do not end up enrolling (a common practice at all colleges and universities), Drexel is projected to welcome an incoming class of more than 3,250 freshmen, well above the target of 2,400 (final numbers were not available at press time). These students will be part of a new generation of "right fit" Dragons who are more likely to remain and graduate, in line with an enrollment strategy implemented two years ago that anticipated, at least through the initial implementation, smaller but better-qualified freshman classes, with more financial aid to increase student support.

INCOMING CLASS
PER YEAR:



CAPTION ME



Parking for Compacts Only

Drexel Archives unearthed this photo of Sigma Pi brothers stuffed inside a Ford to celebrate and raise money for the DAC's 2nd anniversary. It was taken somewhere "near the library" in 1964. By removing extraneous shoes and jackets, the resourceful squeezers managed to fit 27 young men inside the jalopy. **Do you recognize our "stuff a car" contestants? Write to "caption me" at magazine@drexel.edu or @DrexelMag.**

Day of Giving donations poured in from:

46
STATES

10
COUNTRIES

FIVE
CONTINENTS



Aja Sor, a psychology major who is among the first cohort of Drexel students teaching in the DragonsTeach Middle Years program, helped to announce a \$1.2 million program grant in March.

FUNDRAISING



824,534 Reasons to Say Thanks

Drexel's second Day of Giving on May 24 was a smashing success, exceeding all expectations by raising \$824,534 from 3,707 donors to help further the University's academic mission.

Alumni, students, faculty, staff, parents and friends gathered around campus and online for 24 hours to show their support by joining in the "codebreaker" theme. Each gift helped to unlock bonus donations through an all-day scavenger hunt (both online and on campus), ultimately opening a secret time capsule left by founder Anthony J. Drexel. Although the time capsule was more of an idea than an object, the scavenger hunt to find clues and the group effort required

to unlock it were very real, and the day captured the energy and spirit of the Drexel community.

The Drexel Fund set a target of 1,250 donors and ended up with nearly three times that amount, with every class since 1961 represented, along with several earlier classes, including 1949.

"We had hoped to repeat the success of last year's Day of Giving, but we were blown away by the level of support from the Drexel community this year," said Lizz Miller, associate director of the Drexel Fund. "Drexel is an incredible place, and to see the community come together to support students in such a big way is amazing."

STEM

\$1.2M for STEM Teacher Training

STEM teaching and learning got a boost in March when Drexel's DragonsTeach Middle Years program received a \$1.2 million grant from the Philadelphia School Partnership.

DragonsTeach Middle Years allows students in any major to graduate with a middle school teaching certification, while gaining experience teaching science, technology, engineering and math subjects in local public schools.

The funds enable the University to train 40 graduates each year to serve as middle school STEM teachers in Philadelphia, beginning with the first cohort in 2020.

The program works its courses into students' free electives so they don't need to make any major changes to their academic plans.

"We have a rare opportunity to help meet the School District of Philadelphia's need for middle school math and science teachers," says President John Fry. "In addition, we'll be able to launch Drexel graduates on rewarding careers, and we'll also be able to develop an intensive teacher training program that hopefully, if we're good at what we do, will serve as a national model."



Chuck Barris
BS '53, HD '01

Rad Grad

OBITUARY

KING GONG

The late Chuck Barris made a name for himself in the television industry as the "King of Schlock" and the "Baron of Bad Taste." To those who read his bawdy, satiric *Triangle* articles in the early 1950s, his legendary career probably came as no surprise.

By Alissa Falcone

Chuck Barris BS '53, HD '01 passed away from natural causes at age 87 on March 21 after a long career in entertainment that ranged from television producer, game show host, author and possibly even CIA assassin. But to Drexel Dragons who attended the Drexel Institute of Technology during the early 1950s, he was known as, among other things, "Sloppy Chuck Barris."

While features editor and writer of the self-described "dirty" and humorous gossip column "Let's Face It" at *The Triangle* student newspaper, Barris filed story after story with that eye-popping byline. The business administration student authored columns with headlines like "Barris Taps Immortality With Egg In [President] Creese's Lap" and "Barris Humor Irks Dean in Registration Fiasco."

Sometimes his material was even more provocative: In a 1952 article titled "Sweetest Sixteen Co-eds Picked by Ugliest Man," Barris did exactly what the headline announced, concluding, "As far as I'm concerned, the girls will pass in a pinch (and I'd enjoy passing all of them). However, keep in mind the immortal words of the old varmint A.J. Drexel, who said ... 'Ya can't make omelets outa hardboiled eggs, Daddio.'"

One year later, Barris was back at it again with "Drexel's Prettiest — Ugh — Coeds" in which he wrote, "Perhaps [Drexel President James] Creese was right when he said, 'Drexel co-eds are the elixir of life. When I see them, my soul begins to throb and glow. The music of a thousand muted violins whisper in my ear, and I am transformed to the make-believe

world of magic. On the other hand — Penn co-eds make me burp.'"

As a college journalist, Barris inserted himself into stories — and headlines — two decades before Hunter S. Thompson invented gonzo journalism to do the same. He wrote satiric, tongue-in-cheek articles about seemingly everyone on campus (including himself) about four decades before the seeds of *The Onion* began to grow. He'd later employ that same wit and creativity in the media industry when he created the pre-reality-TV shows "The Dating Game" and "The Newlywed Game" in the 1960s and when he later hosted "The Gong Show" in the '70s (just a few of many, many shows his name was attached to). Later, he created the first-run syndication, now a multibillion-dollar business, when he bought back his show "The Parent Game" from NBC in 1972 and sold it to local stations all over the country.

Thirty years after publishing his last *Triangle* byline, Barris' writing was just as bold and attention grabbing when he famously (or infamously) claimed that he worked as a CIA hitman in his 1984 autobiography "Confessions of a Dangerous Mind." Barris also wrote a sequel to his first autobiography and three other novels, but it was "Confessions of a Dangerous Mind" that earned him the most notoriety — and introduced him to a new generation in 2002 when George Clooney directed the movie version with Sam Rockwell playing Barris. Renewed interest in the outrageous claims forced the CIA to release a public statement denying that he ever worked for

the spy agency.

By the time the movie came out, it had been 50 years since he graduated from Drexel, but the Philly-born Barris never forgot where he came from. Drexel awarded him an honorary degree in 2001, and he frequently returned to campus to speak.

"I had a really good time at Drexel; I really did," he told Paula Marantz Cohen, dean of the Pennoni Honors College and distinguished professor of English, when he returned to campus to appear on "The Drexel InterView" in 2008. "I've never seen the school the way it is. It's just miraculous and I'm so proud of Drexel. Little Drexel! It used to be just this building."



Feeling nostalgic? You can get your fill of "The Gong Show" through clips on YouTube — or you can rewatch episodes of ABC's reboot of "The Gong Show," which aired this summer. Hosted by British comedian Tommy Maitland (aka, comic Mike Myers in heavy facial prosthetics), the 10-week show featured a rotating cast of comedic guest judges and was just as weird, wacky and engrossing as the original.



CyberDragons team members flank the hacker (seated, center) they captured during the National Collegiate Cyber Defense Competition regional.

CYBERSECURITY

White Hats of the Web

Last summer, Drexel's first-ever competitive cybersecurity team, the CyberDragons, was brand new and still learning the basics. But after a fourth-place finish in the National Collegiate Cyber Defense Competition's Mid-Atlantic Regional in the spring — an impressive result against a field of veteran opponents — the CyberDragons are novices no more.

The CyberDragons rounded into shape as winter turned to spring and the eight-member team sorted out individual responsibilities and acclimated to the rigors of competition, says Colbert Zhu, a computer science student who formed the squad and served as co-captain. Advancing to the regional round of the national contest made clear that the Dragons aren't rookies anymore.

"This competition is pretty different from any other, which is awesome because it's the most applied," says Zhu.

"If you can get through this, you're definitely in a good position to go into the industry."

COLBERT ZHU, computer science student, founder and co-captain of CyberDragons.

CAMPUS



Sold Out Crowd at Drag Show

Laganja Estranja guest hosted Drexel's 6th annual drag show on May 12, drawing more than 1,000 students and ticketholders into the Main Building auditorium for a standing-room-only dance performance so good it was "sickening."

Estranja is the stage name of Jay Jackson, a 28-year-old dancer, choreographer and activist who made his name in the world of drag in 2013 as a contestant on season six of "RuPaul's Drag Race" show.

The show was organized by Alex Iannucci, director of the Student Center for Diversity & Inclusion of Student Life. Iannucci said the show included 30 Drexel students who participated as backup

dancers, cosmeticians, ushers and in other roles. Performers of all experience levels were welcomed to take the stage with Estranja, and the day before, many mastered some moves with Estranja in her Dance School.

On "RuPaul's Drag Race," Estranja stood out for her personal dramatics and elastic dance moves (she has a BFA in dance and choreography from the California Institute of Fine Arts), and finished in eighth place. She has gone on to market her own line of merchandise, produce a hip-hop song and stage events and dance classes around the country and internationally.

JEFF FUSCO



Harris M. Steinberg of the Lindy Institute for Urban Innovation will seek public input on how to preserve city history.

HISTORY

Calling City History Buffs

When Philadelphia Mayor Jim Kenney decided it was time to rethink how Philadelphia preserves its historical resources, he turned to Drexel's Harris M. Steinberg, director of the Lindy Institute for Urban Innovation. Kenney selected Steinberg to chair a new, 29-member Historic Preservation Task Force that will focus on historical preservation, development, archaeology, land use, architecture and community issues.

Philadelphia was the first American city to adopt a citywide preservation ordinance, in the mid-1950s, and Steinberg and the new task force will contribute to the dialogue over how the ordinance is modified and evolves.

The task force began its work in June and will issue an interim report in spring 2018, a draft final report in fall 2018, and a final report in December 2018. Its meetings will be held across the city and will be open to the public.



HEALTH

Get Well, Soon

Drexel has opened a comprehensive wellness program to focus on education, preventive services and community building among residents in Mantua and Powelton Village. The Community Wellness HUB at Drexel's Dornsife Center for Neighborhood Partnerships is a joint effort from the College of Nursing and Health Professions, the Dornsife Center and the Mantua and Powelton Village civic associations.

It offers health education, awareness and prevention workshops; health screening services; referrals with follow-up case management services; counseling services for individuals and families; and clinical treatment for uninsured residents. It is staffed by volunteers from the College of Nursing and Health Professions, including nurse practitioners, physicians and behavioral and physical therapists.

"What we hope to accomplish through this partnership is to address the specific needs of the people in these communities," says Loretta Sweet Jemmott, vice president for health and health equity in the College of Nursing and Health Professions, "to not only provide health services, but to give the community residents a voice at the table, and to create a warm and inviting environment in which students, faculty, clinicians and patients can learn ways to work together."

THANK YOU!

24 HOURS
3,707 DONORS
\$824,534

On May 24th, Drexel's second Day of Giving, Codebreakers around the globe came together to unlock additional possibilities, resources and opportunities for our students.

DREXEL.EDU/GIVENOW



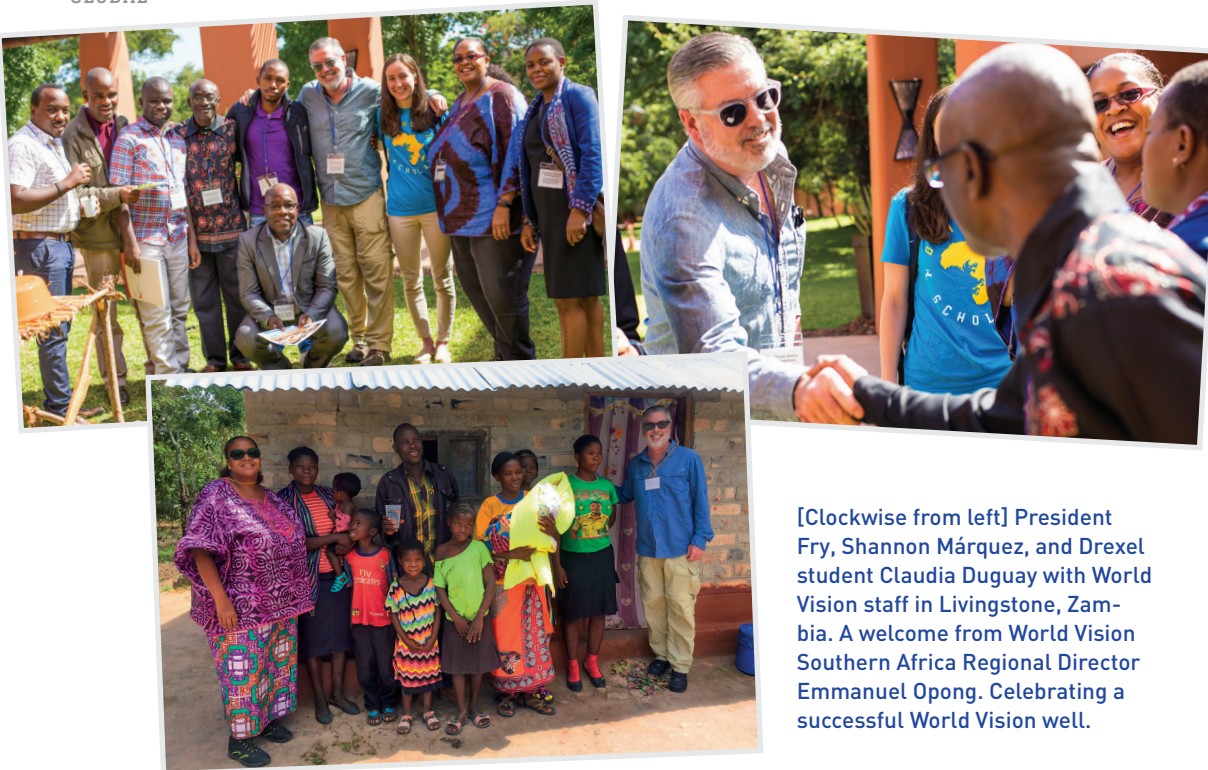
Shannon Márquez

Fellowships Office Director Meredith Wooten, Vincent O'Leary, Pennoni Honors College Dean Paula Marantz Cohen and President John Fry.



"The city and region already have the critical anchor institutions in place that can help guide our efforts to become one of the top 25 metro regions in the world," says President John Fry.

GLOBAL



[Clockwise from left] President Fry, Shannon Márquez, and Drexel student Claudia Duguay with World Vision staff in Livingstone, Zambia. A welcome from World Vision Southern Africa Regional Director Emmanuel Opong. Celebrating a successful World Vision well.

Commencement on Another Continent

Nine Drexel Dragons got a special diploma ceremony with President John Fry in Zambia this spring.

The students were in Africa working as Dornsife Global Development Scholars with World Vision International, an international agency that targets the root causes of poverty. President John Fry personally delivered certificates to the students, who were all graduating in the spring, while touring water sanitation and hygiene projects developed by World Vision in several sub-Saharan African nations. The Drexel delegation included Shannon Márquez, vice provost in the Office of International Programs and professor and director of the Office of Global Health in Drexel's Dornsife School of Public Health, as well as

David and Dana Dornsife '83, who are benefactors of the Dornsife Global Development Scholars program.

With the support of World Vision and the Dornsifes, the Global Development Scholars program is on track to support water and global health programs in up to 25 countries.

The group visited communities, villages, schools and households in Zambia, Zimbabwe, Swaziland and Lesotho and met with residents whose lives have been impacted by access to water and hygienic facilities.

"Water is the foundation for life in a community, but far too many people around the world spend their entire day searching for it ... and we really witnessed that," says Márquez.

SCHOLARSHIP

Drexel's First Truman Scholarship

Environmental science student Vincent O'Leary was named a 2017 Truman Scholar, a prestigious national honor intended to support future public service leaders. As one of just 62 recipients nationwide chosen from a pool of 768 candidates — and the first-ever Dragon recipient — he will receive a \$30,000 scholarship toward graduate school and support in pursuing a career in the public sector.

O'Leary spent his summer on a co-op with the National Oceanic and Atmospheric Administration — his first foray into the public sector after coming to Drexel set on becoming a professor — and the scholarship cements a new direction for his budding career.

"It's extremely rewarding to be validated in this way — that not only is what I want to do valid and needed and topical right now, but that people are really looking for this kind of science and advocacy at the intersection of research and policy." — *Vincent O'Leary.*

INNOVATION

Couldn't have said it better ourselves...

After a two-year audit of the "innovation district" of University City and western Center City by the Brookings Institution, the organization issued a report titled, "Emerging Innovation District Pilot Study," that highlighted Drexel's role in encouraging, strengthening and improving the area surrounding its campus.

The report recommended that district leaders partner with local private, public and civic leaders to build an inclusive, entrepreneurial innovation district that is better positioned to benefit local communities and compete globally.

The conclusions are in line with Drexel's own long-range development and inclusion efforts and applauded a number of existing Drexel initiatives, including:

- The University's partnership with Brandywine Realty Trust to break ground this year on the Schuylkill Yards development, which will create nearly 5 million square feet of mixed-use space on Drexel's campus.
- Drexel's expertise in technology transfer and commercial collaboration through the Drexel Ventures University accelerator.
- The Coulter-Drexel Translational Research Partnership Program created from a grant from the Wallace H. Coulter Foundation to encourage faculty to translate biomedical engineering research.
- The University's \$10 million internal venture fund with Ben Franklin Technology Partners, housed in the Innovation Center @3401 (ic@3401).
- The \$75 million Advanced Functional Fabrics of America partnership between the Department of Defense and 31 academic institutions including Drexel.
- A multi-year Promise Neighborhood Grant recently awarded to Drexel and the City of Philadelphia to work with seven schools in the West Philadelphia Promise Zone.
- Drexel's myriad other community outreach and local business connections.

Drexel Autism Alumni Network

The A.J. Drexel Autism Institute is committed to improving the lives of those on the autism spectrum. The first of its kind in the country, the institute uses population-based strategies to help people with autism lead healthy, fulfilling lives.

Consider joining the Drexel Autism Alumni Network, a group of Drexel alumni whose lives have been touched by Autism Spectrum Disorder. The group meets on a quarterly basis to connect with other alumni, network and learn about the great work happening at the A.J. Drexel Autism Institute! For more information contact autisminstitute@drexel.edu.



DREXEL UNIVERSITY

A.J. Drexel Autism Institute

Learn more at: drexel.edu/autisminstitute
3020 Market Street, Suite 560, Philadelphia, Pa. 19104
215.571.3401



Since the Fulbright program was established in 1946, 51 Drexel students and recent alumni and 11 faculty and staff have received Fulbright grants through Drexel.

ACADEMICS

A Full Roster of Fulbrights

More Drexel students and alumni were offered grants from the Fulbright U.S. Student Program this year than ever before, with eight Dragons earning the prestigious award. Fulbright scholars receive funding for one academic year of self-designed study, research, creative projects or English-language teaching in over 140 countries.

The Drexel students and alumni who received Fulbright grants are:



CLAUDIA GUTIERREZ,
BS/MS biomedical engineering '15 grad and a Pennoni Honors College student.



VAUGHN SHIREY,
BS environmental science '17 grad from the College of Arts and Sciences.



WEN-KUNI CEANT,
Master's in health management and policy '16 from the Dornsife School of Public Health.



EMILY LURIER,
PhD candidate in the School of Biomedical Engineering, Science and Health Systems.



CARLI MOOREHEAD,
Dual graduate with a BS in biomedical engineering and MS in materials science '17.



SHAWN JOSHI,
MD/PhD student in the College of Medicine and the School of Biomedical Engineering, Science and Health Systems.



GREGORY NIEDT,
PhD student in the Department of Communication, Culture, and Media in the College of Arts and Sciences.



KAITLIN THAKER,
Senior global studies major in the College of Arts and Sciences.



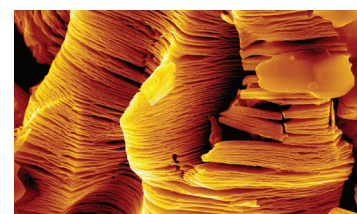
ACADEMICS

New Endowed Professor in Materials Science

Yury Gogotsi (pictured above), whose materials science research as founder and director of the A.J. Drexel Nanomaterials Institute has opened up new possibilities for the applications of nanomaterials, was installed as the inaugural Charles T. and Ruth M. Bach Professor. The professorship was established with a permanent endowment of \$2.2 million.

"This endowment allows us to explore some risky ideas — to do something that is high-risk, high-return," says Gogotsi. "This is always very important in science because unless we take risks, we have little ability to really break through."

Since he arrived at Drexel in 2000, Gogotsi's research, including on MXenes (represented below by an electron microscope scan), the new family of two-dimensional materials discovered and developed on campus, has presented game-changing possibilities for energy storage, optical data transmission and electronic applications, among other potential uses.



RANKED

Outcomes Puts Law School on Top

In June, Drexel's Kline School of Law was ranked No. 46 in *Above the Law's* 2017 "Top 50 Law Schools" in the nation and No. 4 for state clerkships.

The overall ranking is based largely on employment outcomes, with a focus on full-time, long-term jobs that require bar passage, emphasizing high-paying law firms and federal clerkships while excluding solo practitioners and school-funded positions.

More than 75.5 percent of 2016 Kline graduates found full-time, long-term jobs that require bar passage and were not funded by the school. More than 27 percent were hired as judicial clerks in state courts.

Above the Law's methodology also factors in total cost of attendance, input from alumni and students and a debt-per-job ratio that compares indebtedness of a school's graduates to the number of legal jobs they obtain.

Additionally, in May, *The National Law Journal* ranked Kline Law No. 30 on its list of Top 50 Law Schools based solely on employment outcomes. Citing data reported to the American Bar Association, the journal ranked Kline No. 4 for state clerkships.



Drexel moved up two places to No. 94 in the Best National Universities category of the *U.S. News & World Report* 2018 "Best Colleges" rankings this year.

Listen to the guest DJs' show on mixcloud at <http://bit.ly/2tJNw5Q>.

CAMPUS



Dueling Deans DJ on WKDU

It was a moment unlike anything that's ever been aired before on WKDU 91.7 FM, Drexel's free-format, student-run radio station — or any radio station in Philly, for that matter: Westphal College of Media Arts & Design Dean Allen Sabinson playing Eminem's "Lose Yourself" on air and describing how the track, "one of the great songs about being a performer and having stage fright," helped him appreciate hip-hop.

Immediately after the song ended, former LeBow College of Business Dean Frank Linnehan (he retired as of June) came on air to present his first song choice, the aptly titled "Stage Fright" by The Band, whom he'd seen play live in college.

Throughout the two-hour-long set on June 8, the "Westphal vs. LeBow" dueling DJs took turns playing their favorites from all genres.

"We do a lot of difficult stuff as deans," says Sabinson. "This is a respite."

The idea all came together thanks to Chris Burrell, WKDU's electronic music director and an adjunct

professor in the LeBow College of Business. Burrell had been DJing a Westphal event in the spring when he struck up a conversation with Sabinson, who mentioned that he did a guest DJ stint on WKDU a couple years ago and jokingly asked why he was never invited back.

"I said, 'Well, we can fix that. And I'll raise it and get Frank involved as well, so we'll have two deans,'" says Burrell.

They leapt at the chance to appear on what Sabinson calls "the voice of Drexel."

"WKDU is one of the last true college radio stations," says Linnehan. "It's built up a great reputation and you can't get music like this anymore."

"I love that WKDU has kids involved from all over the University, including Westphal and LeBow," says Sabinson. "When a student gets engaged in something like WKDU, they've got a community with like-minded people and a place to go. Those kids are going to graduate, and probably with friends for life. And then of course there's the music!"

For one summer camp project, Young Dragons recorded sounds for the Philadelphia Voices project, a crowdsourced “citizen symphony” that will premiere in April 2018 with the Philadelphia Orchestra.

COMMUNITY

7.21.17
NOVACARE COMPLEX,
SOUTH PHILADELPHIA

Inside the NovaCare Complex, the Philadelphia Eagles’ sprawling training facility near Lincoln Financial Field, children are swarming around pro bowler Malcolm Jenkins as he plays tour guide. They listen intently as the Eagles’ starting strong safety tells them how the high-tech fitness equipment surrounding them helps him get stronger, faster and better on the field.

The grade schoolers are here as part of the Young Dragons Summer STEAM camp, an annual program operated by Drexel professors and staff from Drexel’s Expressive and Creative Interactive Technologies (ExCITe) Center and the Dornsife Center for Neighborhood Partnerships, with support from the Malcolm Jenkins Foundation. They’re learning how their favorite football team applies the principles and ideas they’ve been exploring in camp to crush the competition every Sunday in the fall.

The concepts taught in STEAM — science, technology, engineering, the arts and design, and math — touch on everything from the strength training the Eagles do in this weight room to the diets that give them the energy to do it, says Youngmoo Kim, the ExCITe Center director who runs this two-week camp.

“It’s not really about giving them a summer camp opportunity,” Kim says. “It’s about trying to open up pathways to the future.” — Ben Seal

1
THE PROFESSOR

Youngmoo Kim, a professor in the College of Engineering, brings all of his advanced degrees in electrical engineering, music, and media arts and sciences into play during STEAM camp. After studying STEAM with the children for two weeks, Kim uses the field trip to put it all into context and show the children how Eagles players use RFID technology, weight training software, sleep tracking and sports science to prime themselves for the field.

2
THE PLAYER

Malcolm Jenkins, a Super Bowl champion (though not as an Eagle, yet...), is demonstrating how equipment inside the weight room is used to track the force and velocity that a six-foot, 200-pound athlete can muster. The data recorded in this room is critical to monitoring Jenkins’ progress and helping him gain strength and speed on his way to earning a second Super Bowl ring.



3
THE YOUNG DRAGONS

The camp’s 50-plus students are mainly fourth through eighth graders (and occasionally some first through third graders, as in this photo) who attend public schools in the West Philadelphia Promise Zone, a disadvantaged district that includes the neighborhoods of Mantua and Powelton Village. Drexel has been sponsoring summer camps for neighborhood schoolchildren for three years. In addition to this field trip, the Young Dragons learned about computer coding through game design, explored how physics and algorithms factor into dance, and created sounds for a new symphony to be premiered in the spring by the Philadelphia Orchestra.

4
THE EQUIPMENT

The Eagles’ state-of-the-art training facility uses EliteForm technology to measure the force and velocity of every dip, curl and press the players undergo. Force plates gauge ground reaction forces for exercises like the vertical leap, while handheld dynamometers help the training staff measure muscle strength.

FROM THE DAC

FACILITIES

Welcome to 'The DAC 2.0'

The next time you visit the Daskalakis Athletic Center for a game (and we hope to see you!), you'll notice that things look a little different.

Started in July 2013 and completed in the fall of 2016, the renovations created a mix of new and improved spaces and features, marking the DAC's first upgrades since the building opened in the '70s. The goal of the project was to make the space more user-friendly for everyone — like the fans, visiting teams, the media and even the staff. Certain features, like the concession stand and merchandise shop, were always available on game days but were taken down when not in use. Others, like the bathrooms, media room and locker rooms for visiting teams, were located a floor or two below the court. Now, however, everything is on the same floor — and it's all permanent. — *Alissa Falcone*





In total, the renovations affected:

36,105 square feet

36 separate spaces

Dragon Shop



Ticket Office

The ticket office, left, and Dragon Shop, above, were made into permanent structures with the renovations. Previously, those stands were assembled for games and taken down afterward. The ticket office can also be accessed from the exterior, so fans can walk up and pick up tickets on non-game days. Though not seen in this photo, men's and women's bathrooms are near the ticket office — a huge plus for any fans who've had to race downstairs and back during a game.

Hospitality Room

This hospitality room — also known as the “blue and gold” room — is another multi-purpose meeting space that didn't exist before the renovations. It is available as a private event space before games and is open to fans on game days who want to hang out during half time.



Media Room

On game days, this media room is used for press conferences and acts as a space for the media to cover the game. Before, a media room was located two whole floors below the gymnasium.

On off days, this space can be used for anything from a meeting space to a classroom to a place where students can chow down on pre-season and pre-game meals (a catering kitchen is hidden behind those dragon eyes). The mural of Drexel student-athletes highlights the different attributes and qualities that all members of Drexel Athletics bring to the court (or field, or pool, or mat...).



President's Suite

This VIP section is open to donors and season-ticket-holders who donate at a certain level for hanging out before, during and after games. The space was available before, but these renovations basically doubled it in size. New features include TVs, bars, a bathroom and an elevator. The lounge area lets people eat and watch the game in style from a certain vantage point, while courtside seats can be purchased as well with a donation each year.



AN INTERVIEW WITH MODERNITY

The materials and technologies that put modernity in motion are exhilarating, but they have consequences that must be managed, warns Drexel sociologist and mobility theorist Mimi Sheller. BY BEN SEAL WITH MIMI SHELLE

MOBILITIES RESEARCH

Mobilities research is a multi-disciplinary field of study, founded in part by Professor Mimi Sheller, that addresses some of the most pressing social, cultural, environmental, and political transformations of our time by investigating the complex interrelated movements and stoppages of many different things, including people, capital, information and policies.

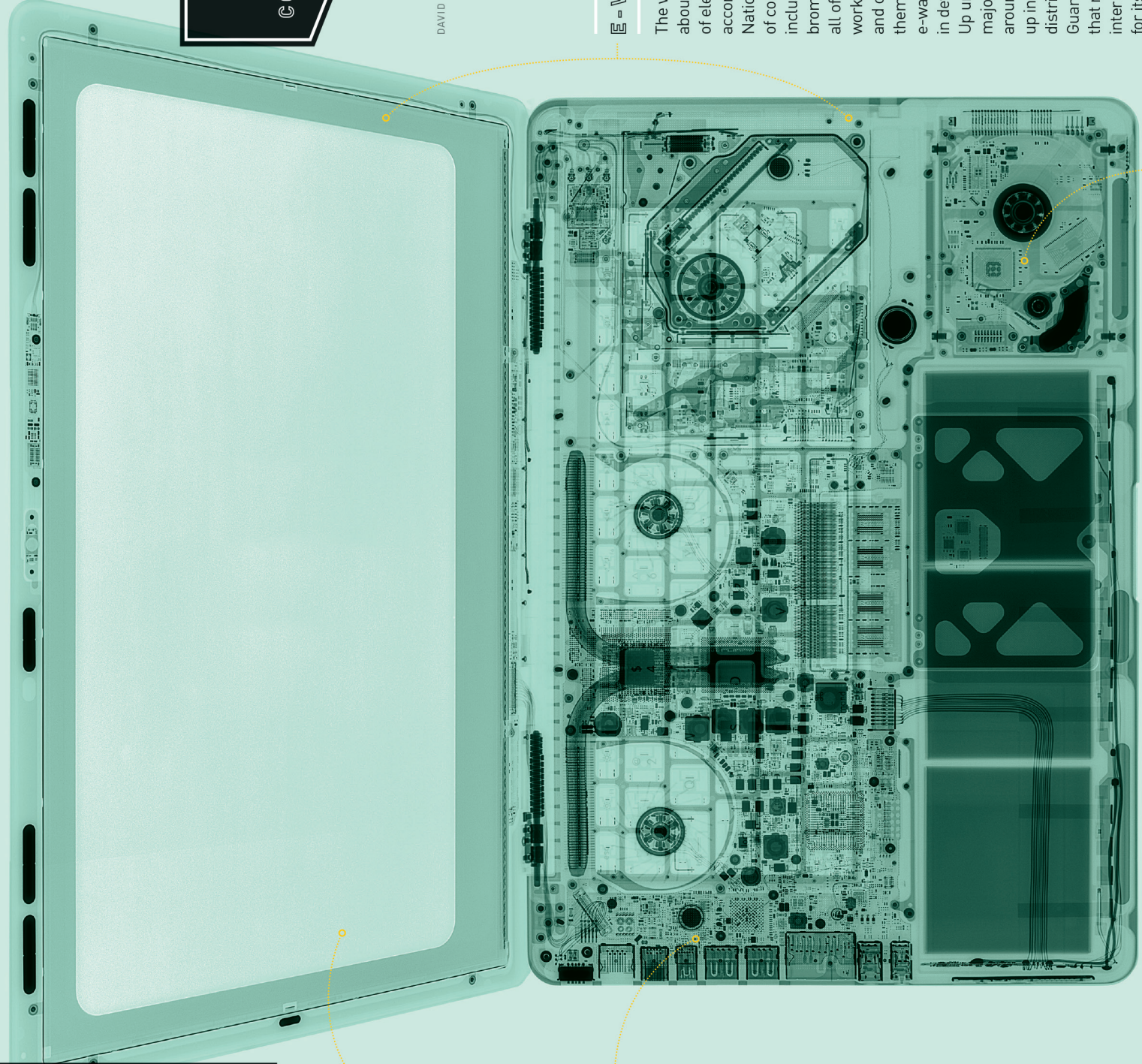
IN A WORLD that is constantly on the move, Mimi Sheller studies the systems that make progress possible, for better and for worse.

As the director of Drexel's Center for Mobilities Research and Policy and a professor in the College of Arts and Sciences, her broad research and publications provide a deeper understanding of the forces that shape the way modern societies travel, communicate and consume.

Sheller is president of the International

al Association for the History of Transport, Traffic and Mobility and co-editor of *Mobilities*, a journal she co-founded in 2006 to delve into the interdisciplinary field of study she helped establish. She is author and co-editor of nine books, including the monographs "Aluminum Dreams: The Making of Light Modernity" and "Citizenship from Below." She is currently working on two new books, "Mobility Justice" and "The Island Effect," and a feature-length documentary about the

connections between the aluminum industry and pollution and social injustices. In the fall, she will deliver addresses at universities in Australia and teach visiting doctoral courses in Brazil and at Lancaster University in the United Kingdom, where she is also co-organizing a major conference called "Mobile Utopia: Pasts, Presents, Futures." *Drexel Magazine* asked Sheller to expound on how society's reliance on materials like aluminum play into the way we live.



WHAT'S
IN
YOUR
COMPUTER
?

DAVID ARKY

COLTAN

RARE EARTHS

ALUMINUM

The 2008 launch of the "unibody" MacBook Pro* introduced sleek, lightweight machined aluminum casings to the laptop (and later, cellphone) market. Aluminum is sometimes described as a "green material" because it is recyclable; however, most manufactured products use primary metal that is electrochemically smelted from bauxite ore. Bauxite mining creates waste that can contaminate water supplies, and it also damages forests and encroaches on agricultural land, often displacing small farmers.

E-WASTE

The world discarded about 46 million tons of electronics in 2014, according to the United Nations. Many pieces of computer hardware include lead, mercury, bromine and phthalates — all of which are toxic to the workers (including women and children) dismantling them in unregulated e-waste recycling sites in developing countries. Up until around 2015, the majority of e-waste from around the world ended up in Guiyu, a recycling district in China's Guangdong Province² that received negative international coverage for its toxic conditions. Guiyu has since been cleaned up and today, American electronics manufacturers often tout their partnerships with domestic recyclers. Nonetheless, a 2015 sting operation by Seattle-based environmental watchdog Basel Action Network revealed that some U.S. recycling was a sham. BAN hid GPS trackers in 200 pieces of obsolete electronics and dropped them off at e-waste collection centers; about a third of the e-waste ended up at unregulated developing-world sites.³

OTHER METALS

Other problematic metals commonly found in computer parts include lead, gold and alloys such as cobalt. Some producers have stopped using cobalt mined in the Democratic Republic of Congo, which supplies 60 percent of the world's cobalt used in lithium-ion batteries, following reports of child labor and dangerous work conditions.¹

practices of mobility also generated visual representations and aesthetics of aerodynamic speed, accelerated mobility and technological futurism. By the 1950s, the gleam of aluminum surfaces was found on everything from Airstream trailers to kitchenware, and from rockets to airport lounges.

Today it remains a crucial material in new cars, food packaging, laptop computers, building construction and, of course, airplanes, spaceships and satellites. In some ways it has been eclipsed by the novelty of new materials such as titanium, carbon composites and nanomaterials (although some of these still make use of aluminum); yet we still depend on aluminum all the time in more mundane ways, such as for sports equipment (bikes, boats, bats); medical equipment (crutches, walkers, artificial limbs); and things like chairs, ladders and window frames. Look around you and you will probably see some aluminum!

Q: IN YOUR BOOK "ALUMINUM DREAMS," YOU WRITE ABOUT HOW ALUMINUM SHAPED THE 20TH CENTURY AS IT BECAME UBIQUITOUS. HOW DID IT OPEN UP NEW POSSIBILITIES FOR PROGRESS IN THE MODERN WORLD, AND IS THAT CHANGING IN THE 21ST CENTURY?

A: The electricity grid, the buildings we live and work in, the satellites and gadgets we use to communicate, the way people and goods move from place to place, the power, speed, mobility and conveniences that we take for granted — all are made possible by aluminum. It underpins our material culture and our ideas of what it means to be modern. Aluminum first became available on a large scale in the early 20th century and quickly became a crucial material for streamlined vehicles, lighter packaging, mobile homes, new flight capabilities, high-tech military technologies, and the dawn of the Space Age. In addition to literally putting the world in motion, these new

¹REISINGER, DON. "CHILD LABOR REVELATION PROMPTS APPLE TO MAKE SUPPLIER POLICY CHANGE." FORTUNE. HTTP://WWW.FORTUNE.COM/2017/03/03/APPLE-COBALT-CHILD-LABOR/ (PUBLISHED MARCH 3, 2017, AND ACCESSED JULY 27, 2017). ²STANDAERT, MICHAEL. "CHINA'S NOTORIOUS E-WASTE VILLAGE DISAPPEARS ALMOST OVERNIGHT." BLOOMBERG. HTTPS://WWW.BNA.COM/CHINAS-NOTORIOUS-EWASTE-N57982065266/ (PUBLISHED DEC. 17, 2015, AND ACCESSED AUG. 1, 2017). ³"SCAM RECYCLING: E-DUMPING ON ASIA BY U.S. RECYCLERS." BASEL ACTION NETWORK. HTTP://WIKI.BAN.ORG/IMAGES/1/12/SCAMRECYCLINGREPORT-WEB.PDF (PUBLISHED SEPT. 15, 2016, AND ACCESSED AUG. 1, 2017).

* APPLE INC., AS ONE OF THE LARGEST PRODUCERS OF POPULAR ELECTRONICS, IS REPRESENTED HERE MERELY AS A SYMBOL OF THE LARGER HIGH-TECH CONSUMER GOODS INDUSTRY.

Q: HOW DOES OUR RELIANCE ON ALUMINUM IMPACT OUR ENVIRONMENT AND HEALTH?

A: One-twelfth of the earth’s crust is aluminum, making it the third-most-common element after oxygen and silicon, but it is extremely difficult to get it into pure form. The main source is bauxite ore, which is first processed into alumina, and then smelted into aluminum. Bauxite mining is an open-pit process that leads to deforestation and leaves behind toxic “red mud” lakes.

To quantify it, each ton of aluminum produced requires four tons of bauxite ore to be strip-mined, crushed, washed and refined into alumina, creating about four tons of caustic red mud residue, which can seep into surface and groundwater. Dust from aluminum refining causes respiratory damage, and portside alumina spills have damaged coral reefs.

Aluminum smelting is one of the most energy-intensive production processes on earth. Smelting uses

romethane, and 65 percent of all hexafluoroethane emissions worldwide. These perfluorinated compounds have global warming potentials that are 6,500 to 9,200 times higher than carbon dioxide. Communities living near the industry around the world have increased asthma levels near bauxite mines, indications of multiple-chemical sensitivity around alumina refineries, and exposure to toxic waste such as fluoride and cyanide near aluminum smelters.

Some people also believe that ingesting or absorbing aluminum has human health impacts. It is not only found in our kitchenware and food packaging, but also occurs in powdered form in many cosmetics and deodorants, and is an adjuvant in vaccines. Accumulations of aluminum have been found in the brain tissue of people suffering from Alzheimer’s disease and have been connected to other neurological disorders, as well as showing possible links to breast cancer.

consumer products we use with aluminum in them, especially cans. Melting down used aluminum requires only 5 percent as much energy as making it from ore. No one should ever put an aluminum can in the trash. We also need to simply use the metal more efficiently, insist on building with recycled aluminum, make products in which various metals can easily be separated out at the end of their lifecycle, and recover as much as possible from already-existing sources, such as so-called “urban mining,” which digs through landfills.

Beyond that, though, we also need to regulate the industry more carefully so that it doesn’t just move to places with little protection and get away with environmental and human rights violations. There are voluntary programs like the Extractive Industries Transparency Initiative, which enrolls countries in reporting on companies operating in their territory.

But we also need to ask ourselves when we buy a product: Where did this come from and how did it get there? Who is affected by the materials in the products I am using? We need to put pressure on companies to be more transparent about what they are doing, where they are doing it, and how they are treating both workers and surrounding communities.

Q: AS A SOCIOLOGIST, WHAT ROLE DO YOU BELIEVE THE SOCIAL SCIENCES CAN PLAY IN OUR UNDERSTANDING OF HOW TO BALANCE THE BENEFITS AND HAZARDS OF THESE MATERIALS?

A: In my own work, I have tried to make people more aware of their involvement in larger systems of circulation of materials, whether it’s aluminum, the movement of energy or the impacts of tourism. Technology never operates on its own, but is always about how people use it, how we put things together and make them work.

If we want to make changes in complex systems we first have to be aware of them, but then we also need to develop specific and local forms of interaction, disruption or envisioning alternatives. This could take the form of citizen science,

participatory art projects, community workshops to deliberate over new solutions, or community-based action research.

I am currently working with Jamaican filmmaker Esther Figueroa on a documentary called “Fly Me to the Moon” that will try to bring together audiences in different parts of the world to understand how they are connected by aluminum. I have often worked with artists, for example, to creatively engage people to think about their context differently or to link disparate groups together. And my forthcoming book “Mobility Justice” seeks to develop policies for greater equality and justice in all kinds of mobility systems, from the scale of the body, the street, and the city to extended infrastructures and planetary ecologies.

At the upcoming conference of the International Association for the History of Transport, Traffic, and Mobility (of which I am president) our theme is “Mobile Utopia: Pasts, Presents and Futures.” We will be doing an arts exhibition, as well as “mobile utopia experiments” in which we try to get groups of people to enact different ways of moving. We will try to model different ways of performing more sustainable and just mobilities.

Q: DO YOU FEEL PESSIMISTIC OR OPTIMISTIC ABOUT THE DIRECTION THAT MATERIAL PRODUCTION WILL TAKE HUMANITY?

A: I am both pessimistic about the current system of material production and also optimistic over the longer term that we will be forced to make a change because we will have to. This is what the futurist Buckminster Fuller called “emergence by emergency.”

When the current system stops working (whether because of climate change disruptions, energy shortages or social conflict), we will need to find more energy-efficient and less wasteful ways of doing things. In the meantime, it is important to continue to develop alternatives — not only alternative technologies but also alternative social practices — as the foundations for a new socio-technical system to evolve.

¹KAIMAN, JONATHAN. “RARE EARTH MINING IN CHINA: THE BLEAK SOCIAL AND ENVIRONMENTAL COSTS.” THE GUARDIAN. [HTTPS://WWW.THEGUARDIAN.COM/SUSTAINABLE-BUSINESS/RARE-EARTH-MINING-CHINA-SOCIAL-ENVIRONMENTAL-COSTS](https://www.theguardian.com/sustainable-business/rare-earth-mining-china-social-environmental-costs) (PUBLISHED MARCH 20, 2014, AND ACCESSED AUG. 1, 2017). ²BROWING, LYNNLEY. “WHERE APPLE GETS THE TANTALUM FOR YOUR IPHONE.” NEWSWEEK. [HTTP://WWW.NEWSWEEK.COM/2015/02/13/WHERE-APPLE-GETS-TANTALUM-YOUR-IPHONE-304351.HTML](http://www.newsweek.com/2015/02/13/where-apple-gets-tantalum-your-iphone-304351.html) (PUBLISHED FEB. 4, 2015, AND ACCESSED JULY 31, 2017). ³MONT, JOE. “SEC BACKS AWAY FROM CONFLICT MINERALS RULE ENFORCEMENT.” COMPLIANCE WEEK. [HTTPS://WWW.COMPLIANCEWEEK.COM/BLOGS/THE-FILING-CABINET/SEC-BACKS-AWAY-FROM-CONFLICT-MINERALS-RULE-ENFORCEMENT#_WX-XPA22NAY](https://www.complianceweek.com/blogs/the-filing-cabinet/sec-backs-away-from-conflict-minerals-rule-enforcement/#.WX-XPA22NAY) (PUBLISHED APRIL 10, 2017, AND ACCESSED JULY 31, 2017).

WHAT'S
IN
YOUR
PHONE
?

OTHER
METALS

RARE EARTHS

Nearly all cellphones use rare earths — an array of 17 soft metals that include neodymium, gallium, lutetium, ruthenium and rutherfordium — which are useful in insulators, transistors and processors. Until fairly recently, nearly all of the world’s rare earth metals were mined in China, where open-pit mines generate large amounts of toxic waste and environmental regulations are lax. The Mongolian city of Baotou became notorious for storing decades of radioactive tailings in a large pond that villagers have blamed for contaminating surrounding water and soil.¹

ALUMINUM
CASING

COLTAN

Another mineral crucial to high-tech gadgets is coltan, an alloy of columbite and tantalite that refines into a heat-resistant powder called tantalum. It is considered a “conflict mineral” when sourced from the Congo, where mining is under the control of war lords. Up until recently, Securities and Exchange Commission disclosure rules required electronics producers to declare whether the smelters in their supply chain use tantalum, gold, tin or tungsten from conflict regions in the Congo.² However, industry associations successfully sued, and in April 2017 the SEC dropped its requirement.³

E-WASTE

FROM CONCEPT TO CURTAIN UP

Producing for Live Entertainment

Westphal College of Media Arts & Design

When Lauren Weedman, one of the stars of HBO's television show "Looking," offered to come to Philadelphia for a week in 2014 and do a series of theatrical shows based on her visit, she agreed to bring her best ideas and energy. And the 15 students in Assistant Professor of Entertainment and Arts Management Brannon Wiles' "Producing for Live Entertainment" course agreed to tackle absolutely everything else.

During the 10-week term, students worked at a full-out sprint to make sure every detail was taken care of: They found and booked a local theater space, they created a contract, and they purchased insurance. They handled marketing and social media promotion, and they arranged travel and housing for Weedman.

"Although a lot of the students have been exposed to different production elements in some of their coursework, putting them all together and actually having to do it really allows them to see how much goes into even modest productions," Wiles says.

Students quickly learned the importance of working together to make sure that every detail was nailed down. In the end, the shows that resulted from the project, called "Well I Think You're Beautiful, Philadelphia," proved to be particularly satisfying to the students who helped shepherd the production from start to finish.

"At its best, this work is about collaborating with artists, engaging with them, and helping make sure that all the production work is done in service to them and their work," Wiles says.



1
PRODUCING
FOR LIVE
ENTERTAINMENT

2
'GREAT
WORKS'
COURSES

3
COMMUNITY
LAWYERING
CLINIC

4
ONCE UPON A
LIFETIME...
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5
TRAINING THE
PHYSICIAN'S
EYE

6
FOUNDATIONS
OF PICKLING
AND FOOD
PRESERVATION

7
THE ORBITAL
PERSPECTIVE

8
APPLIED AND
ADVANCED
PORTFOLIO
MANAGEMENT

CLASSES ACTION

Here, 'learning by doing' isn't just a nice motto. It's what we do.

BY ERIN PETERSON AND BEN SEAL

College is all about inspiring students to reimagine what they're capable of. Professors challenge students to tackle difficult problems, to find unexpected ways to understand the world around them and to re-evaluate how they do things.

But at Drexel, that's only the beginning.

Here, experiential education is crafted into the curriculum. Students learn by doing, and they do things students at other universities don't, in class settings you don't see everyday.

In some of Drexel's most innovative courses, students untangle the real legal problems of community members, produce professional-caliber live events, and create feasts for hundreds.

They're taking the ideas they're learning and applying them in real-world ways. In the pages that follow, we've profiled some of the ways that Drexel demands students go beyond the classroom.

We'll bet that at least one or two of these remarkable courses will make you wish you were a student again.

9
SECURITY
AND HUMAN
BEHAVIOR

10
IMMERSION IN
PERIOPERATIVE
NURSING

11
LITERACY AND
CONTENT SKILL
DEVELOPMENT

12
MUSCULOSKELETAL
ANATOMY FOR
BIOMEDICAL
ENGINEERS

13
GLOBAL HEALTH
INTEGRATION
MODULE AND
FIELD PRACTICUM
EXPERIENCE

2

SAVORING HISTORY'S GREATEST WORKS



'Great works' courses

Pennoni Honors College

In the rush to cover as much ground as possible in a single term, professors often try to cram dozens of classics into their syllabi. Students might blast through a series of Picasso paintings in a half-hour, "Hamlet" in a class period, Hemingway in a week.

Pennoni Honors College's one-credit great works courses are the opposite. Professors spend the entire term intensely focused on a single topic, whether that's the movie "Rosemary's Baby," the Manet painting Olympia, or Vladimir Nabokov's "Pale Fire." (President Fry even carved out time during his busy schedule to teach a course on Jane Jacobs' "The Death and Life of Great American Cities.")

"These courses are the anti-binge," jokes Paula Marantz Cohen, dean of the college and an instructor for four such courses.

Students take time to relish the details of the works they explore, and many find that the detailed discussions that result are often more illuminating than those that come from courses covering 10 times more ground.

These "great works" are as relevant today as they were when they were first completed, says Cohen. "In the course I taught about 'Hard Times,' we talked about labor issues, gender roles and education. These were issues that Charles Dickens was talking about in the context of 19th century England that are enormously relevant in 21st century America."

Law students spend plenty of time hitting the books. But in the full-year "Community Lawyering Clinic," students have an opportunity to put their legal knowledge into practice for neighborhood residents who need it most, regardless of their ability to pay for it.

Under faculty supervision, upper-level law school students staff an office in Drexel's Dornsife Center for Neighborhood Partnerships and work with Mantua and Powelton Village residents on an array of issues, from employment discrimination to conflict resolution. Students learn to do intake interviews, represent clients, and they even take some clients to trial.

Housing issues are in particular demand, says law professor Susan Brooks. "For example, a house that's been passed through generations of a family might not have any of [its current occupants] on the deed to the home," she says. "But if they owe taxes on the property and want to work out a payment plan with the city, they can't: The city generally won't work out a plan with anyone who's not on that deed."

Unsnarling knotty problems for vulnerable people may be the nominal goal of the course, but Brooks says it's also about much more than that. She hopes that students see that they can make a meaningful difference in people's lives. "Our approach is about taking every person who comes through our door as a whole person, and as an important individual who deserves all of the time and resources we can give them," says Brooks.

3

LEGAL HELP FOR EVERYONE



Community Lawyering Clinic

Kline School of Law

4

WRITING A LIFE FROM INSIDE AND OUT



Once Upon A Lifetime...So Far

College of Arts and Sciences

When students sign up for the memoir-writing class "Once Upon A Lifetime...So Far," they join up with another group of students who could hardly be more different: inmates in Philadelphia's Curran-Fromhold Correctional Facility.

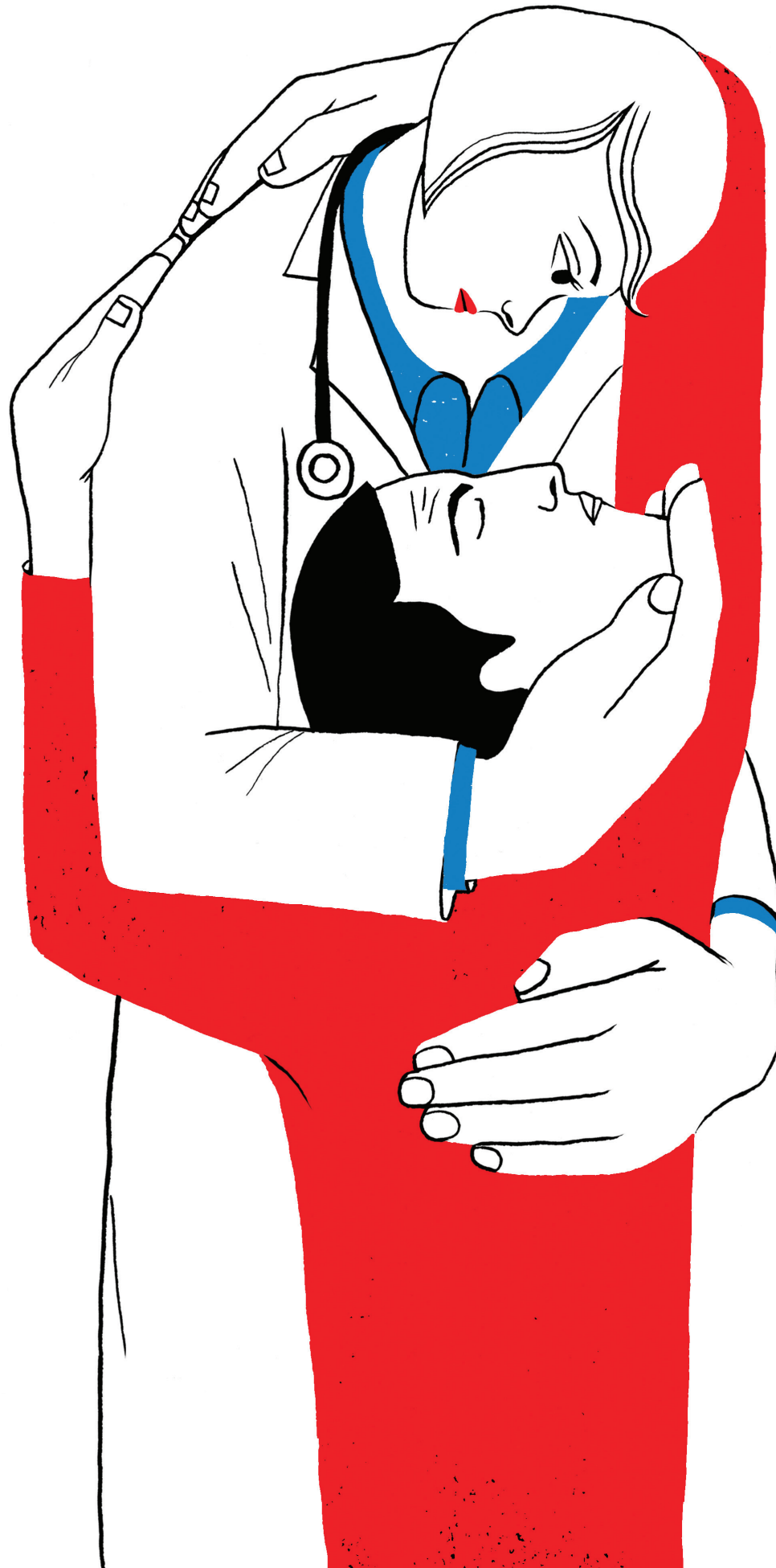
But as the students and inmates explore their lives through a series of writing prompts and discussions, they often discover more similarities than differences. The course is part of a series of "Inside-Out" courses at Drexel that open up learning opportunities in alternative settings, including prisons, senior citizen centers and farms.

Assistant Teaching Professor Cassandra Hirsch nurtures discussions with icebreakers for pairs of students. She might give everyone a slip of paper with a word on it — "sister," "frying pan," "orange," — and ask about the memories and associations the words evoke.

The discussions and the writing that result often help all the students to realize what they have in common. "Maybe they discover that they're both the oldest in their family, they love the same music, or they went to the same elementary school," Hirsch says.

While a big goal of the course is to help students tell their own stories, Hirsch also wants them to see how rich and varied everyone's stories can be.

"The novelist Chimamanda Ngozi Adichie [who briefly attended Drexel] talks about 'the danger of a single story,' which is the idea that we can be on the receiving end of a single story about who we are based on our appearance or our dress or the way we talk," she says. "I want the 'Outside' students to see that their 'Inside' peers are more than their county uniforms. We're all human beings."



5

THE HEALING POWER OF OBSERVATION



Training the Physician's Eye

College of Medicine

For aspiring young doctors, learning the ins and outs of human biology may seem like the essential task of medicine.

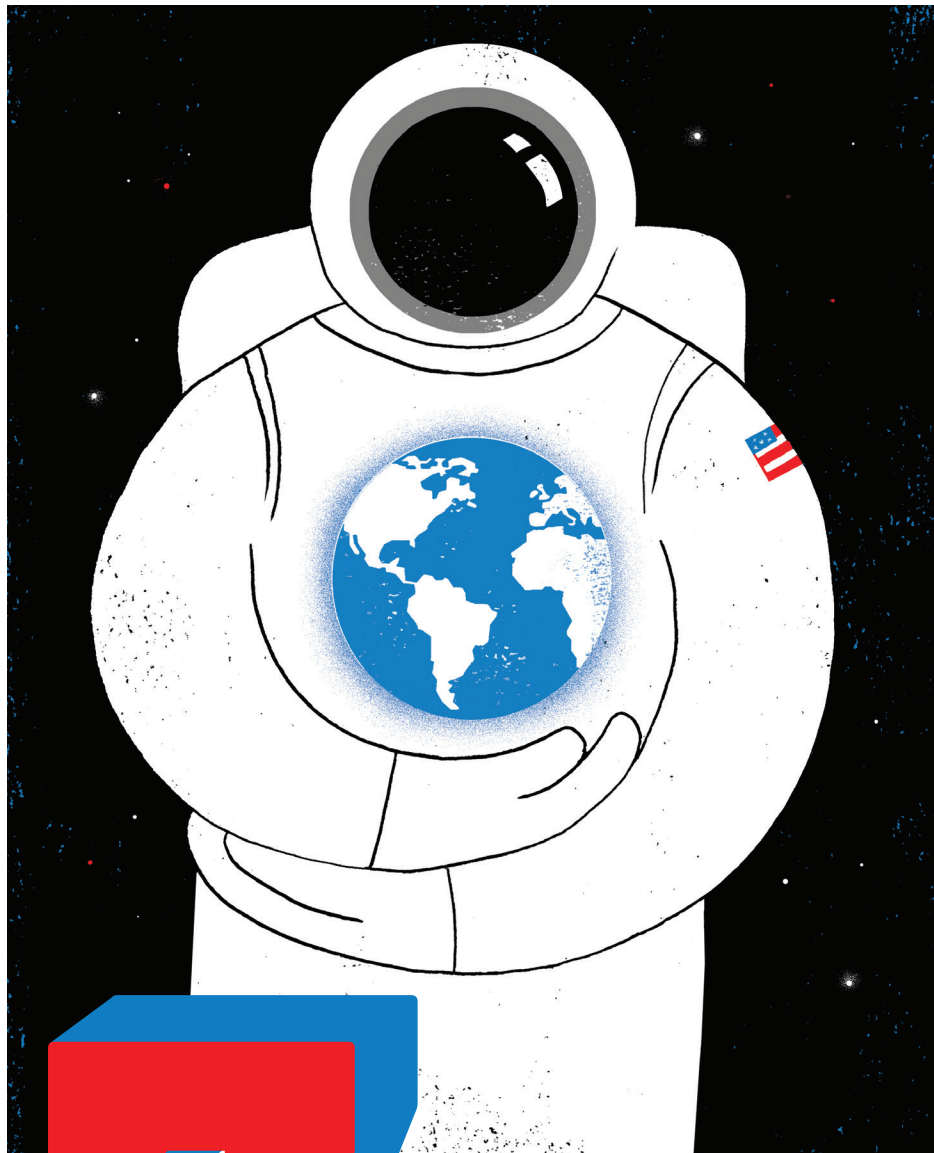
But Florence Gelo, associate professor in the College of Medicine, knows that biology is only half of the puzzle necessary to be a successful physician. "We know that no matter how much knowledge, technology and diagnostics a doctor has, what really matters to people is having a doctor who cares and who treats them as a whole person," she says.

That said, it's not easy for students with relatively limited life experience to carefully observe and empathize with patients. That's why Gelo developed the course "Training the Physician's Eye," which uses art from the Pennsylvania Academy of the Fine Arts to help students hone a compassionate bedside manner.

Students study paintings including "Christ Rejected" by Benjamin West, which illustrates the biblical story of Jesus rejected by the high priests and given to Pilate to be crucified, and "State House on the Day of the Battle of Germantown" by Peter Frederick Rothermel imagining the aftermath of the battle.

These complex and emotionally intense paintings have proven very instructive, says Gelo. Students learn to observe without immediately making interpretations, and they mine their own experiences to find ways to connect with the emotions expressed in the art. "The suffering and pain is evident, and you can teach people to observe and identify with that experience," she says.

These skills, in the end, help students become the doctors who are best able to serve their patients, says Gelo. "What are patients telling us, even if they're not saying it?" she says. "We want students to develop emotional intelligence and truly connect with others."



7

**A HIGHER
VANTAGE POINT**

**The Orbital
Perspective**

*College of
Engineering*

During his time as an astronaut, Ron Garan Jr. joined just a handful of people throughout history who have seen our planet in its larger context, suspended in the blackness of space. That experience, as well as working alongside space travelers from many nations on the International Space Station, strengthened his belief that it was essential to bring a more cohesive view to the priorities of our planet. “I wanted people to have a much broader perspective of what the word ‘home’ means: It’s our planet. How should we be treating each other? How should we be treating the planet?”

That idea launched a book and a Drexel course taught by Garan called “The Orbital Perspective.” The course covers how to work with diverse groups of people, promote peace and confront massive challenges collaboratively.

Students in the course participate in Earthrise 2068, a project designed to help people around the

Richard Pepino knows that every fruit and vegetable holds endless opportunities for transformation. The course instructor for “Foundations of Pickling and Food Preservation” says even though there’s typically just a short window to harvest fruits and vegetables at peak freshness, the right preservation methods can capture those intense tastes and bring summer’s best flavors to every other season.

In his course, which was open to both community members and Drexel students last summer, Pepino started with the basic science of pH and acidity balance, jarring processes and a few other fundamentals. Students learned to make classic recipes such as bread and butter pickles and blueberry preserves. They moved on to fermentation processes to make kimchi and sauerkraut, and tackled dehydration methods to make spices such as jalapeño powder.

The course was interspersed with several field trips, including some to family and urban farms. “Things like hydroponic gardening are helping create more sustainable farming, and they’re revitalizing urban environments,” says Pepino, who is executive chef of the Academic Bistro, a campus “restaurant” that serves meals made with food grown and prepared by culinary students. “It’s important to be aware of some of these practices.”

By the end of the course, Pepino turned students loose to make their favorite recipes for a community “tasting menu,” made from food grown at the nearby Green Meadow Farm. “Some students made simple strawberry jams. One student made pizzelle cookies in the shape of tacos, filled them with homemade corn ice cream, and topped them with pickled rhubarb,” he says.

Nearly 300 people attended the tasting, and not one went home hungry.

world craft a vision for a better planet, including the concrete milestones that are essential to get there. The name of the project is a reference to the centennial anniversary of the iconic Earthrise photo taken by the crew of Apollo-8 in 1968. Says Garan: “We’re asking: What are the principles that we as a civilization want to be operating under then? How do we rid the world of hunger? How do we make sure everyone has access to clean water?”

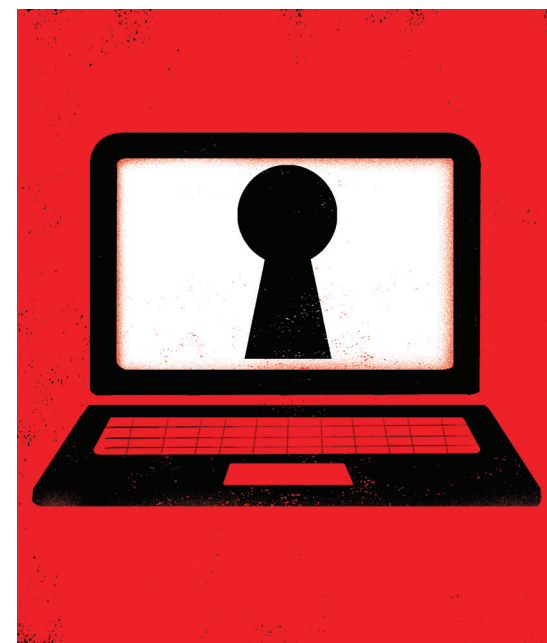
It’s not simply a project students will do in class and discard. They, along with others, worked on a call to action that was delivered at the United Nations General Assembly in the fall. “Our intent is to nudge the trajectory of our society onto a path that we think is better than the one we’re on right now,” says Garan. “And we hope that the students who work on this project — people who will be here in 2068 — will help us get there.”

6

CREATING A BETTER BITE

**Foundations of Pickling
and Food Preservation**

*Food and Hospitality
Management*



9

**THE
SECURITY
RISK INSIDE
US**

**Security
and Human
Behavior**

*College of
Computing &
Informatics*

Most savvy investors would balk at the idea of handing millions of dollars to a group of college students and letting them loose on the stock market. At Drexel, though, that’s just the experience business students get — with a professor’s guidance, of course.

The Dragon Fund — overseen by undergraduates in the two-part “Applied and Advanced Portfolio Management” course — opened in 2007 with \$250,000 of the University’s endowment. With the help of three other deposits in the past decade and some impressive gains realized by students, the fund recently crossed the \$2 million benchmark. It might seem like a hefty sum to entrust to unproven investors, but it’s the best way for students to learn the skills they’ll need in the professional world, according to Daniel Dorn, an associate professor of finance and the course’s instructor. Once they leave Drexel, their portfolios will be a few figures larger.

“We want to prepare students for positions in firms that have billions of dollars to invest,” Dorn says.

Students split into small teams and scour a business sector for an area poised for growth, then narrow their choice to a specific company and deliver a funding proposal to prove its worth. A recent group dug deep into the energy sector to find a medium-sized drilling company that fit the fund’s interests, thinking all the while about growth forecasts, trend lines and the measure of risk involved.

All told, the Dragon Fund has outperformed its benchmark (the S&P Midcap 400) and the broader U.S. market for the most recent one-, three- and five-year periods, and has done so since its inception. It offers students a taste of what they’ll get after graduation that leaves them ready to scale up.

“Who says, ‘Hooray, there’s a 22-year-old who I want to give millions of dollars?’” Dorn offers. “It doesn’t typically happen. It’s very difficult to break into this industry, but this is a way to give them experience managing money with rigorous rules and all kinds of techniques.”

Information security is about more than just writing airtight code and thwarting clever hackers. It’s also about managing our very worst enemies: ourselves.

“We all have mental heuristics that can cause problems in security, whether it’s the [undisciplined] way that we choose our passwords or the mistakes we make when we’re thinking about risk,” explains Associate Professor of Computer Science Rachel Greenstadt, who teaches “Security and Human Behavior.”

The course explores some of the most common psychological principles that make us vulnerable to hacking, identity theft and similar issues.

For example, you’ve probably had security update requests pop up on your computer screen at inopportune moments, like when you’re hard at work on deadline or crafting a difficult email. If you’ve ignored the installation request, you’re not alone. “There tends to be a lot less compliance for the request when people are doing some other task,” she says.

The takeaway? Find ways that people can install updates without distracting them from the things they’re focused on in the moment.

The bigger lesson is not that humans are cavalier with their computer security, but that developers must both understand and take our quirks into account when building the systems that are designed to keep our most vital information safe.

In the end, Greenstadt hopes that the lessons of the course change the way students act today — and the way they work with their employers in the future.

“I hope that students bring these ideas to their own experiences with computer security — like using a password manager,” she says. “And I also hope when these students go on to work for software companies, they can bring this thinking to life to build better security systems for others.”

8

**BLUE
CHIPPERS**

**Applied and
Advanced
Portfolio
Management**

*LeBow College
of Business*

10

A SUCCESSFUL OPERATION

Immersion in Perioperative Nursing

College of Nursing and Health Professions

Two years ago, the Hospital of the University of Pennsylvania approached Donna Trinkaus and Deanna Schaffer, assistant clinical professors in Drexel's College of Nursing and Health Professions, for some help. Facing a national nursing shortage, especially in the operating room, the hospital sought to partner on an immersive experience that would turn out students prepared to step into the void. So Trinkaus, chair of Drexel's Co-Op BSN Program, worked with the perioperative development specialists at Penn to design a week-long intensive to fit the bill.

For one packed 40-hour week, 15 students get crash course experience in a unique corner of the nursing profession that isn't often found in course catalogs anymore.

"When I went to nursing school 30 years ago, we had rotations in the operating room," Trinkaus recalls. "They're no longer in nursing schools, so students don't get the exposure they used to have."

In addition to lectures, students in the immersion course experience simulated operating room procedures — an immediate opportunity to apply lessons learned in the classroom. Early in the program's life, the results are evident. The hospital has hired nearly two-thirds of the students who have taken the class, and other institutions have checked in with Trinkaus about starting similar programs, she says. For the future nurses enrolled in the course, it's been a clear success.

"They absolutely love it," Trinkaus says. "It affirms they were right that this was something they wanted to do."



1

READY READERS

Literacy and Content Skill Development

School of Education

Elementary students don't typically jump an entire grade level from 10 weeks of reading and writing practice. When they're getting one-on-one tutoring from Drexel students enrolled in "Literacy and Content Skill Development," though, that type of progress is on the table. The course pairs School of Education students with severely delayed readers and writers to give both groups a unique learning opportunity.

Drexel students receive the course's contents online — lectures, readings, quizzes and all — and skip the college classroom in favor of one at West Philadelphia's Morton McMichael School, where they give individualized attention to K-8 public school students in their areas of need. Mary Jean Tecce DeCarlo, an assistant clinical professor in the School of Education, circles the room, coaching her students as they coach students of their own. It amounts to what DeCarlo calls a "professional experience."

"They often talk about it as the first time in their education courses that they're responsible for student growth," DeCarlo says. "And almost across the board they say this completely recommitments them to teaching. They think, 'Now I can make a difference.' Everybody's going to have a kid in their class who doesn't read at grade level. What are you going to do to support them? This class is part of the toolkit."

13

FIELD POSITION

Global Health Integration Module and Field Practicum Experience

Dornsife School of Public Health

Shannon Márquez has been researching health systems in Western Africa for more than 25 years, so in many respects she's seen it all. But for the students she brings to Senegal and Gambia for two weeks each summer, the field experience offered by her "Global Health Integration Module" course can be transformative.

After an online course filled with readings and training on everything from ethical considerations in public health to the social context of how health is considered on the ground, students embark on one of two field experiences. In Senegal and Gambia, one section studies maternal child health, while a counterpart group travels to Cuba to study

An engineer needs to know how her designs will function in their intended destination, whether it's a building, a car or the human body. For Drexel's biomedical engineering students, who have the latter target in mind, there's no better way to learn than by getting up close with a cadaver.

Students in "Musculoskeletal Anatomy for Biomedical Engineers" get a firsthand look at the joints, muscles, ligaments and bone structures they aim to bolster with their designs — an anatomical scavenger hunt of sorts, as Noel Goodstadt calls it.

Goodstadt, an associate clinical professor in the College of Nursing and Health Professions and one of the course's two rotating professors

ENGINEERING, IN THE FLESH

Musculoskeletal Anatomy for Biomedical Engineers

School of Biomedical Engineering, Science and Health Systems

alongside Clinical Professor David Ebaugh, says getting into the lab with real cadavers helps ideas click into place for his students.

"Some of the structures they look at don't necessarily run a straight line," Goodstadt says. "Muscles wrap around bones at different angles, almost like the pulley systems they learn about in engineering classes. To see that and see the forces at work when muscles are contracting plays a huge role in them thinking about design."

The course began as a field trip, Ebaugh says, when another class in the School of Biomedical Engineering, Science and Health Systems touched on the subject of human anatomy and asked to visit his lab to view some prosected joints. The glimpse of tissue and bone sparked interest in something more permanent.

Students rave about the chance to see the materials from their textbooks in the flesh, so to speak, and Ebaugh and Goodstadt are sure to show them examples of the solutions they might one day create themselves.

"We always have a few joints that have artificial prosthetics in them," Goodstadt says. "We leave that as the last thing to show them because it gets them the most excited."

community health and the environment.

Students visit community sites and organizations, meet with public health professionals and learn about local health practices and policies. It's a one-of-a-kind chance to synthesize everything they've learned in the public health curriculum.

"So many students have had life-changing experiences from this class, and it's helped them formalize the trajectory of their careers," says Márquez, vice provost and clinical professor in the Dornsife School of Public Health.

There are guest lecturers from local institutions, but there isn't much time spent sitting in class, Márquez says.

In Cuba, where the health care system is viewed by many as a model for international success, the visit drew a stark contrast to the current crisis in American health care, Márquez says.

"It was eye-opening for them to see that if you set up a health system with a primary focus on prevention and access to health care for all citizens — rather than a major focus on treating diseases, expensive diagnostics and pharmaceuticals, and health insurance coverage as a determinant of access to health care — you could develop a more cost-effective health system that prioritizes keeping communities healthy," Márquez says.

It's the type of insight students just can't get without setting foot in the field, she says.

A MINISTRY of PRESENCE

Hope leans on faith and charity in a broken-sidewalks section of Kensington in Philadelphia, where Johanna Berrigan '97 runs one of the world's few Catholic Worker free health clinics.

STORY BY JARED BREY / PHOTOS BY JEFF FUSCO

IT'S A SPRING MORNING in the Kensington section of Philadelphia. The pigeons are strutting, the Market-Frankford El is rattling overhead, and dozens of people are lining up to get a hot meal from St. Francis Inn, a Franciscan-run soup kitchen, and fresh clothes from Marie's Closet, the order's second-hand clothing center across the street.

Down the block, another neighborhood lifeline is about to open for the day. The Catholic Worker Free Clinic has operated out of a converted rowhome at 1813 Hagert St. since its founding in 1991 by Johanna Berrigan '97, a physician assistant who also runs the House of Grace Catholic Worker Community hospitality house alongside her own home a few blocks away on Lehigh Avenue. For more than two decades, Berrigan has been living here in voluntary poverty with her co-founder Mary Beth Appel, sharing their home with strangers, and providing care to a population that suffers from some of the most intractable ills of urban life.

Inside the clinic, half a dozen health care and other volunteers gather around a kitchen table for morning prayer. Physician assistant and longtime volunteer Katie Huynh reads aloud a passage by Sheila Cassidy, a British doctor tortured in Chile under the dictatorship of Augusto Pinochet for treating a political dissident:

"If we can come to want only what God wants, then we are in a curious way untouchable. For then loss of property, of good name or health, or even a life, holds no fear. For if that is what God wants, we will be at peace."

The volunteers smile at each other and begin welcoming visitors. The line for the showers forms right away. The intake room — really it's a living room, with sheer curtains on the windows, a dozen or so chairs along the walls and filing cabinets filled with ad hoc medical records in the corner — starts to hum with activity.

Some visitors are looking for treatment for wounds, or for band-aids, or aspirin, or just for someone to talk to. Many come for basic supplies like toothbrushes and razors.

Volunteers set a 10-minute timer on the wall outside the shower stall and hand out soap and fresh towels. In the room behind the shower there's a dentist's chair for cleanings and extractions. Upstairs, in what used to be the bedrooms, volunteer nurse practi-

tioners, physician assistants and doctors administer medical services and perform basic lab work.

"There's a homeless community who sleep around here, who live in abandoned buildings, who are on the streets, and so the clinic is a place where they can come for basic things," Berrigan says. "It's all about a ministry of presence. Of being there."

Berrigan is a licensed nurse and a 1997 graduate of the Physician Assistant Program at Drexel University, one of the oldest health care provider training programs in the country and the first in Pennsylvania. A core part of its mission is to treat the underserved. Last spring, the director of the program, Clinical Professor Patrick Auth, recognized Berrigan with an alumni award for her service on behalf of the vulnerable in Philadelphia, Haiti and Iraq.

"Her life is defined by service to the community," said Auth, who volunteers every week at the clinic. "Have you ever met somebody whose life and work is to be a missionary? That's who she is."

At 62, Berrigan has spent nearly half her life helping the people on these blocks — with calm, friendliness and with apparent fulfillment. As she makes her way from her car to the clinic, she seems to have a spring in her step despite a limp from a healing stress fracture in her foot. On the street, she repeatedly stops herself mid-sentence to greet people and make unhurried conversation. A woman sitting on a stoop near the clinic calls out to tell Berrigan she likes what she's done with her hair.

Inside the clinic, Berrigan talks to everybody. As visitors mill about the room, one begins to raise his voice. Berrigan knows him; he hasn't been around for a few weeks.

"Edison, Edison, *que paso?*" Berrigan says, standing up from her chair. "*Esta bien? Esta bien?* I don't want you to get hurt or in trouble, OK? I was already worried. Were you locked up?"

The man faces her and starts to talk more calmly.

The clinic serves an unstable population, but most days, it is a peaceful, organized place. Berrigan recounts how one day, a man came in very upset, and he punched a wall. "And one of our regulars — a disabled, chronically homeless guy — jumped up and said, 'Whoa, whoa, dude: We don't do that in here, we don't act like that here.'"

"When new people come in, it's almost like they don't understand that they don't have to walk in with fear; they don't know that they're going to be accepted — until we say, 'Let me tell you what we do here; you're OK here, we're going to help you,'" she says.

Clinic volunteers treat a lot of wounds. They provide relief for thousands of colds every winter. They've seen frostbite and heat-stroke. The clinic is open four days a week and on a typical day volunteers treat 10–20 patients and provide 10 showers — in all, since inception, the clinic has served nearly 100,000 patients and provided 50,000 showers.

In recent years, opioid addiction — always present in Kensington, well before it was acknowledged as a nationwide crisis — has mushroomed, and it's not unusual to see someone slumped in a doorway, nodding off, or shuffling in slow oblivion down the street. "I'm always watching to make sure somebody's breathing," says Berrigan, as she travels down Kensington Avenue to the clinic from her house. The heroin trade is accelerating alongside rising real estate values, and gentrification has brought the desperation of the most vulnerable into sharp relief. A few doors down from the clinic, developers are gussying up an old building into upscale lofts and erecting new rowhomes. "But I can't forget the history," Berrigan says, as she passes a grassy lot on Jasper Street and Sergeant, four blocks from the clinic. "One of our women was murdered right there; she walked the avenue and she was picked up by someone and stabbed." Kensington's crime rate remains the third highest in the city.

In case of a crisis, the volunteers use a special code — "Dorothy

Though little known outside of Kensington, the Catholic Worker Free Clinic that Johanna Berrigan founded at 1813 Hagert Street in 1991 is part of a network of long-standing organizations providing care for the homeless, addicted, and under- or uninsured of Philadelphia. Within a few blocks, anyone in need will receive a free meal, clothes, shower and medical or dental care.



Day is in the house” — that invokes the name of the woman who founded the Catholic Worker movement in 1933.

But in the 26 years that the clinic has been open, Berrigan has called the police only once. And because of the way the cops treated the person — he was mentally ill and having a psychotic episode, and still the cops “were being far too rough with a frightened person” — she says she’ll never call them again, though she tells the volunteers they may do so themselves.

“The idea is to create a welcoming atmosphere,” she says. “We have people come in with lots of mental health issues, lots of addiction, lots of issues with the law, and so we are often not given a proper name, or people don’t want to give one, and we say, ‘OK. How can we help you?’”

Sometimes, people just need someone to talk to, and volunteers from JUST Listening, a local program that pairs people with judgment-free listeners, visit regularly. Another important role the clinic plays, Berrigan says, is helping patients navigate the official health care system. Many visitors have literacy issues, and volunteers help them fill out forms. Berrigan sometimes drives people to the doctor’s office or the emergency room.

“I want to tell you something,” says Laura Kind McKenna, a volunteer who helps run the clinic. “I’m

a nurse practitioner, and I’ve been here for 20 years — almost as long as [Berrigan and Appel] — and I used to go up and see people upstairs. They had full-blown HIV, active mental illness, active addiction. And I would try to help, and it was hard.”

She gestures toward the shower.

“You come here, somebody gets a shower, a clean towel, a bar of soap, and they feel better. I’m able to help people much more concretely. They leave here feeling better.”

Later she introduces a man named Herb, 92 years old, who had first come to the clinic a few years before. McKenna’s husband had given him his shoes, a pair of New Balance sneakers. Herb was still wearing them. “And they’re good,” Herb said, looking down at his feet before making his way out the door.

‘In this age, it seems more important than ever that we hold fast to the vision of the Catholic Worker...and to be there, to be present and walk alongside, accompany the people who are the real victims of [poverty].’

Of course, there are times when the work is upsetting, when it seems that the problems never change — that even individuals never change — despite the efforts of the Catholic Worker and other service organizations. But providing mercy isn’t necessarily about curing people.



Carol Kurz does intake paperwork for Eddie Kempton, an epileptic with numbness in his jaw. His jaw was reconstructed with a titanium plate by Temple surgeons after he damaged it “banging my head back and forth” against a curb during a grand mal seizure. He usually sees a dentist at Temple University, he says, but “Temple appointments aren’t available for forever.”

“When someone who’s been sober for a month comes back in and they’ve picked up, it’s very defeating in the beginning,” says volunteer Katie Huynh. “Because you think there’s just one straight line of change, which is from worse to better. But you realize that there are so many circles, and that we all are in so many circles of trying to change and then we’re back where we started. I think that’s the hardest thing. And then just realizing that there’s something in the work even if people don’t change, something in calming down the drunk guy every day, year after year after year, and there’s still beauty there because they’re still a person, even if their outsides don’t get any kinder. It’s really realizing the humanness of every situation.”

Like all Catholic Worker communities, the House of Grace Catholic Worker and free clinic is autonomous, disconnected from the hierarchy of the Church. Though members of the Catholic Worker are allowed to work up to 12 hours a week on their own — and Berrigan does, covering two shifts a week at Health Center #6 on Girard Avenue — the mission of the community is sustained by private donations. The clinic runs on just \$40,000 a year — a modest expense made possible by the all-volunteer staff and a mortgage paid off years ago. A list of clinic needs printed in the back page of every issue of the community newsletter testifies to its work: toiletries, men’s socks, reading glasses, toothpaste, deodorant, multivitamins, ibuprofen, acetaminophen, paperback books for the lending library, volunteer dentists and prayers were among the requests in a recent issue.

Berrigan, who grew up in a Catholic household with nine siblings in Williamsport, Pennsylvania, says she wanted to be a missionary from the time she was a kid. There was no grand revelation or heroic role model, she says, but she remembers paging through the pamphlets in the back of church, building her awareness of suffering in far-flung places. She never encountered a Catholic Worker community — never even heard of Dorothy Day — until she was working as a nurse in Los Angeles in her late 20s.

When she began reading about the life of Day — who had been at times a journalist, a socialist, a pacifist, and an anarchist, and is now being considered for sainthood — she decided to throw herself into the mission of the Catholic Worker, which is to perform works of mercy: feeding the hungry, giving drink to the thirsty, clothing the naked, offering hospitality to the homeless, caring for the sick, visiting the imprisoned and burying the dead.

At the Los Angeles Catholic Worker, Berrigan met Appel, who also had ties to the Philadelphia area, and they moved back together and joined the Sister Peter Claver House, a Catholic Worker community that has served people in South Kensington since 1988. When they decided to open a free health clinic, they first set up in rooms above the St. Francis Inn, but soon their patients over-



At the supply closet, long-time clinic volunteer Carroll Clay dispenses soap and shampoo and keeps a list of people checked in to use the shower. “This is where people go who have nowhere else to go,” she says. “If they had medical insurance they’d be using it. This is their doctor’s office.”



whelmed the space, so they bought the rowhome around the corner. Berrigan says she decided to pursue the physician assistant’s degree because it became clear to her that her role in the clinic would be very limited without further training. The Drexel program’s emphasis on providing care in underserved communities made it “the perfect fit,” she says.

Today, she and Appel live together on Lehigh Avenue. Several years ago, they bought the five-bedroom rowhouse next door, and now operate it as a house of hospitality, taking in homeless people for various lengths of time — most stay a few months, Berrigan says, but one family stayed for four years. They tend two community gardens in the backyard where they grow squash, peppers, tomatoes and healing herbs that they share with the soup kitchen, neighbors and a local coffee shop.

“For me, at that time, it was a call, and a draw to do this that I couldn’t ignore,” Berrigan says. “And I felt a lot of joy about moving in that direction, so it did not feel difficult at the time. I was happy to give everything up.”

It wasn’t just faith and a desire to serve that drew Berrigan in, though; it was also Day’s legacy of activism. In the late 1990s and early 2000s, Berrigan took a series of trips to Iraq to observe

This man arrived at the clinic dressed only in a hospital emergency room gown. A hospital treated him for scabies, confiscated his infected clothes and released him. “This happens a lot,” says Berrigan, who directed him to a used clothing center run by the St. Francis Inn. “We treated him back in January, but people go back to shelters and get infected again.”





One morning last summer, Berrigan was called to the yard outside of the St. Francis Inn to treat a heroin overdose. When two doses of the anti-narcotic medication Narcan failed to revive the young woman, Berrigan began making a prayer. “And when I bent down, she sat up, eyes open wide, and said, ‘What’s going on?’ And I said, ‘Honey, how do you feel?’ She said, ‘I’m fine!’ And I said, ‘Honey, you were out; I thought you’d died,’ and she said, ‘Nah, I was just sleepin’.” Everyone in the yard started clapping, and it was almost funny, Berrigan recalls, but the situation could have gone the other way: “This was when everyone started becoming aware that we have a real opioid problem.” The clinic staff recently underwent a second round of training on how to administer emergency Narcan.

Earl Floyd, being treated by certified physician assistant Katie Huyhn, is among the underinsured who use the clinic for routine health maintenance such as blood pressure management.



the effect of American sanctions on the civilian populations there. She began holding weekly peace vigils, and penned letters to the editor critical of the *Philadelphia Inquirer's* coverage of the run-up to the second Iraq war.

“Witnessing firsthand a policy that’s killed children, that’s continuing to kill children — that motivates you to become active, even if you didn’t start out an activist,” Berrigan says.

In addition to her work in Kensington, Berrigan has traveled on health care mission trips to Afghanistan, El Salvador, Dominica and Haiti. In 2004, she co-founded Kay Lasante (“House of Health” in Haitian creole) Education and Community Outreach in Port au Prince, Haiti. It has since grown into a full-service clinic serving 40 patients a day; Berrigan continues to fundraise for it and serves on its board. In the winter of 2011, when the island was still recovering from a devastating earthquake a year before, she wrote about some of her experiences in Haiti in an issue of *Gift of Grace*, the community’s newsletter.

“A few times in recent years, with access to water in Haiti so unreliable, I have had to bathe from a bucket,” Berrigan wrote. “I recall one time in particular after the earthquake. At the end of a long, hot, tiring day with the dim glow of low lighting, it was a zen-like experience... I was so aware of the gift of water and what it means for life, grateful for its capacity to sustain, nourish and heal. I was disturbingly aware of how I lack true appreciation for the basic necessities of life. It was an experience of deep gratitude.”

—

Berrigan tells a story about a woman with a serious mental illness who used to come to the clinic, at first just to sit on the stoop.

The woman was paranoid and never spoke. Eventually she started to come inside, take a shower, and



would then immediately run out the front door. Slowly, Berrigan and the other volunteers began to convince her to accept some simple medical care, but still she stayed quiet. One day, Berrigan learned that the woman had been admitted to the hospital and undergone surgery for ovarian cancer. She went to visit her, and convinced her to come live with them in the house of hospitality. Reluctant at first, the woman ended up staying throughout her entire chemotherapy regimen.

She became part of the community for a time, and then moved on. But a few years later, she knocked on the door.

“My cancer’s back, and yous are the only people I have,” she said.

After she died, the woman’s daughter tracked down the House of Grace and asked Berrigan and Appel to be part of the funeral services.

To Berrigan, the story isn’t an example of the daily tragedies of the work, but of the daily triumphs. The community may be suffering in ways that have no ready prescription, but the Catholic Worker is a source of peace in the middle of that, as much a fixture of the neighborhood as its crime, poverty and addiction. Knowing what its presence has done for people inspires Berrigan to keep going.

“There are times in the work where it’s just so sad,” Berrigan says. “It seems like things don’t change, and if I dwell on that, that can lead to some sense of heaviness and despair. But then there’s always that flip side, where the day-to-day is deeply meaningful work, and there’s little measures of beautiful things happening in our relationships with the people we work with. And in this age, it seems more important than ever that we hold fast to the vision of the Catholic Worker, of Dorothy Day, of her call to keep going at those structures that create poverty, and to be there, to be present and walk alongside, accompany the people who are the real victims of that injustice.”

Berrigan chats inside the St. Francis Inn kitchen with Barbara Salapek, who is one of 10 full-time volunteers who live at the inn. Salapek has been serving the inn for 27 years, cooking, cleaning and running the meal services for an average of 200 to 300 people a day, every day of the week. “There are always new faces around springtime,” she says, “because in spring and summer it’s easier to live on the street and kids are out of school now so we’re seeing more families.” She says neighborhood gentrification over the past five years has created juxtaposition. “There are people spending \$350,000 on a house and there’s a soup kitchen next door. Right now it hasn’t been hostile, but as they get closer to us...they’re going to see people lining up and sleeping out here and realize this is life in Kensington.”

*"If you can look at a child
and see endless possibilities...
if you can look at a child
and see to infinity, that is a
successful school."*

— CHRISTIAN EDGE

PROGRESS REPORT

Powelton Village's newest middle school, which opened September 2016 with Drexel's support, uses experiential learning to keep kids engaged in the classroom. In its first full year, progress is already evident. BY BEN SEAL

WHEN LUCY KERMAN stepped inside Science Leadership Academy Middle School for the first time last fall, she was moved by what she saw.

Kerman, Drexel University's senior vice provost for University and Community Partnerships, knows a thing or two about university-assisted neighborhood schooling, from having previously helped to establish the highly regarded Penn Alexander School at the University of Pennsylvania in 2001.

But her visit to SLA-MS, Drexel's newly launched partner public school in West Philadelphia, felt different.

As she watched the students share their research on utopian societies — cozy on the floor, presenting models and debating the merits of chocolate-as-currency and eagerly awaiting their turn to speak — she was struck. "I have never seen a classroom that engaged," says Kerman.

Drexel helped to launch SLA-MS with the School District of Philadelphia and the school's nonprofit educational partner, Inquiry Schools, in September 2016. It opened inside a temporary location in Drexel's Dorn-sife Center for Neighborhood Partnerships with a mission to provide hands-on, project-based education to 88 fifth-graders, most of them from the surrounding Mantua and Powelton neighborhoods. As the school matures, it is projected to hold 360 students in grades 5–8 and will allow nearby Samuel Powel Elementary to expand grades and classrooms.

Its arrival is an example of Drexel's long-standing commitment to provide support — both curricular and material — to neighborhood public schools, led by staff and faculty including Kerman and School of Education Dean Nancy Songer.

At the heart of it all is Christian Edge, Drexel's director of K–12 school work, who serves as a full-time liaison between the University and the middle school.

Edge is an education specialist who came to Drexel about 15 months ago with experience running the after-school program at nearby Lea Elementary. He spends every day inside SLA-MS and Drexel's other local partner public schools, which include Powel Elementary and Morton McMichael School. A new Promise Neighborhood Grant for the area, funded by the U.S. Department of Education, recently expanded Drexel's list of partner schools to include Alain Locke, Belmont Charter, West Philadelphia High and Martha Washington. When a school needs prizes for Math Night, or a reading specialist, or a field trip to a museum, he's who they ask for help.

Edge and the School of Education faculty provide institutional and academic support that has been especially important to SLA-MS, whose teachers had to develop their own curricula in the lead-up to the school's launch. Everything, he says, is in service of clearing the way for the students to flourish.

"If you can get students to buy into their own dreams, their own aspirations, their own curiosity, that right there is guaranteed engagement," Edge says.

The new middle school follows an educational model familiar to

Drexel, because it is both experiential and innovative. There is no homework, and students spend more time creating and designing than they do reading textbooks. Classes are often exploratory, allowing students to ask their own questions and find their own answers. Every day includes "rover time," a period dedicated to self-guided learning in which some students learn how to make stuffed animals, some learn to bake cake and others research viral infections.

Every Tuesday afternoon, the students break off for extracurricular "mini-courses" — overseen by Edge — in cooking, dance, creative writing and the sciences. It amounts to an alternative approach to education that, judging by the bustling classrooms and students brimming with energy, has already clicked.

"This is the kind of educational experience that is going to get a child from this neighborhood to these jobs," Kerman says, pointing on a map to the burgeoning community of innovative employers in University City. "It's a really rich and interesting initiative."

The mini-courses at SLA-MS have been a key to capturing the attention of students. Each course is a 10-week excursion into a new realm, and students cycle through as they complete each one. To give them a window into the world beyond the classroom, SLA-MS joined with educators from local organizations including CityStep, the University City Arts League, FirstHand and Mighty Writers for focused courses.

The most popular offering is a Drexel-sponsored cooking class from alumnus and James Beard Award-winning chef Marc Vetri, who has visited on occasion. "It's the best thing," Edge says, flashing a smile.

The mini-courses align well with Drexel's focus on immersive, experiential education, Songer says.

"They are just another excellent manifestation of principles and values that we think are important," she says. "Learning isn't just for learning's sake. Learning often happens best in real context."

Songer sees no limit to how close Drexel and SLA-MS could become in time. DragonsTeach Middle Years, a program that allows Drexel students to obtain middle-school teaching certificates in any major, and the Lindy Scholars Program, which can support SLA-MS with mentors, both expand the University's offerings and could strengthen the relationship.

"When SLA-MS faculty feel that they need another set of eyes on their curriculum, we know we can go right to Drexel," says SLA-MS Principal Tim Boyle. "Not many schools get to say that they have a university partner right next door that they can bounce ideas off of when they need to."

The connection between the two will intensify when a permanent home is built for the school. Drexel has long desired to create space for the school at the site of what used to be University City High School, near 36th and Filbert streets. Drexel owns the property, and designs are in place for SLA-MS to move there, along with Powel and a new School of Education building.

"The pie-in-the-sky, best-case scenario is that SLA-MS students are almost junior Drexel students — that they have the opportunities that the campus provides them, just as a Drexel student would," Boyle says.

“It’s important that all alumni realize that their association with Drexel has increasing value.”

Say Hello to Dave

The incoming chairman of the Alumni Board of Governors, Dave Kaganovsky, is an old hand at building community among Dragons. By Carla Robinson

Don’t expect to see David Kaganovsky, BS information systems ’95, wearing a tie. In fact, the 45-year-old information technology executive spends a lot of time with his sleeves rolled up.

“We are all about getting things done,” says Kaganovsky, the new chairman of the Alumni Board of Governors. “And I expect we will have a lot of fun doing it. I love giving back. I love being a part of this place.”

Kaganovsky, worldwide chief information officer for London-based Maxus, one of the largest media management agencies in the world, believes he owes both his personal happiness and professional success to Drexel. It’s where he met his future wife, Leanne, and established a lifelong network of friends through his fraternity. It’s even how he found his first job out of college.

“One day in October 1994, I’m standing in the basement of the Alpha Pi [Lambda] house, and I look over at a brother who had just graduated and asked him, ‘Hey, do you do anything with computers over there?’ And that’s how I began my IT career at Coopers and Lybrand,” he recounts.

Now that journey is coming full circle as his eldest son, a junior in high school, is beginning to look at colleges. After just one visit to Drexel, he moved it to the top of his list.

Kaganovsky is already a familiar figure in alumni circles. He first became active in 2003, when he was named president of his fraternity’s alumni corporation board — just days before a history of serious infractions at the Alpha Pi Lambda house resulted in their alumni board and University officials deciding it was time for changes.

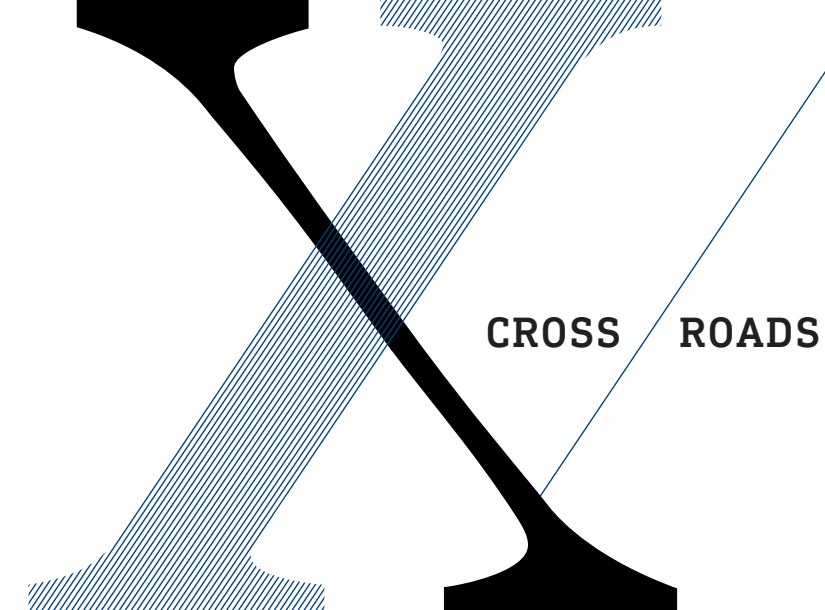
He wound up spending the next seven years networking with fraternity alumni and University officials to rebuild the chapter, ultimately raising nearly \$1 million in order to reopen their historic house at 33rd Street and Powelton Avenue in 2008.

“That experience really made me fall in love with Drexel all over again,” Kaganovsky says. “I learned that we all had the same goal for campus life.”

After stepping down from the “Apple Pi” alumni board in 2010, Kaganovsky stayed active by serving four years on the Drexel Alumni Board of Governors, holding several elected positions in the Drexel Inter-Fraternity Alumni Association, and sitting on the President’s Advisory Council. He already knows everyone on the new team of



HANNAH COOK



And Welcome to Our Other New Members, Too

What’s something most people don’t know about you?



“My wife and I throw an Oscars party every year — tuxedos and ball gowns included.”
—**MANTHAN GANDHI,**
BS ’06



“I once swam from Alcatraz to San Francisco’s Aquatic Park. It took me 31 minutes to swim the 1.5 miles in 58-degree water with 900 of my closest friends.”
—**DANIELLE MELMAN,**
MS ’13



“I was the starting punter for Utica College’s JV football team. I was asked to be the Varsity team’s punter the next fall, but transferred because I got a concussion.”
—**DEVON POPE,**
JD ’15



“I love to listen to commercial jingles and have a very sharp memory when it comes to recognizing them. I even produce them for my firm’s clients when the opportunity presents itself.”
—**STEPHEN FACENDA,**
BS ’90



“I’m currently working to organize a nonprofit to expose teens to the world of entrepreneurship that truly aligns with my Drexel roots.”
—**CHRISTINA FLORY,**
BS ’09, MBA ’10



“I started my career when I was a Drexel student, calling alumni for donations to the annual fund. I went on to work in alumni relations for more than a decade.”
—**JEFF SPENCE,**
BS ’09

executive board members well.

Throughout it all, he has brought a powerful enthusiasm for, and commitment to, what Drexel stands for.

“This University is really such a foundational element in so many people’s lives,” he says. “It’s an exciting city campus that provides a practical learning environment for a fast-paced world.”

His first priority as board chairman will be to continue the current trajectory of broadening membership — connecting with and supporting a diverse base of graduating students.

For that to happen, he says, it’s important that Drexel students look at the board and see people who represent them.

“I’m not just talking about race or gender, although those things are important too,” he says. “Look around campus at how many of our students are international. It’s important that the board reflects that mix.”

To build membership among current students, he thinks the board needs to focus on creating personal connections with them in their junior and senior years.

“If you were to walk up to one of these students and ask them what the alumni do, they’d probably say, ‘Oh, aren’t they the guys who call

up to ask you for money?’” he says. “What’s crazy is that fundraising is the one thing we don’t do! So we have to do a better job of managing that story.”

And in a culture where graduates maintain their networks through social media, smaller networking events built around particular interests are just as important as a big reunion.

“That might be a zoo day, perhaps, or a cooking class or wine tasting that we take to where they are, so they don’t have to come downtown,” he says.

For older alumni, the challenge is to keep them updated on Drexel’s ongoing evolution.

“This is a very different University than it was 30 years ago, or even 20 or 10 years ago, and it’s important that all alumni realize that their association with it has increasing value,” he says. “I just went to a Drexel event at the High Line in Manhattan. There we were, all Drexel alums who are living and working in New York, and we’re hearing about Schuylkill Yards and all these other amazing things that are happening in Philly. We had such a feeling of pride to be associated with that. It was just wonderful.”



We're interested in hearing about your weddings, new babies, special traditions, group trips and regular get-togethers with fellow alumni. Send stories and photos to **Jesse Kahn** at jtk85@drexel.edu.

50s

Robert Koerner, BS civil engineering '56, MS '63, was honored by the American Society of Civil Engineering in the form of a dedicated symposium in Chicago and a biennial lectureship in his name on behalf of the Geosynthetic Materials Association. His son, George Koerner, BS civil engineering '85, MS '87, PhD '93, was a featured speaker at the lectureship.

60s

Nicholas DeBenedictis, BS commerce and engineering '68, MS environmental science '69, HD '87, Drexel Trustee, was recognized by The Honorable Andrea Canepari, Consul General of Italy, in Philadelphia and received the Italian Knighthood for Commendatore dell'Ordine della Stella d'Italia for the preservation and promotion of Italian prestige abroad, friendly relations and cooperation with other countries with ties to Italy.

Thomas Leonard, BS business administration '68, former Drexel Trustee, was named a 2017 Pennsylvania Super Lawyer.

Norman Smith, BS business administration '69, MS '71, was named the first president emeritus of Elmira College since its founding in 1855 and released the book "Top Problems Facing Colleges."

Stewart Weintraub, BS business administration '68, served as the overall chair of the ABA/IPT Advanced Tax Seminars, an annual conference that brings the latest state and local tax updates to tax professionals nationwide. He was also named a 2017 Pennsylvania Super Lawyer.

70s

Kathy Dowdell, BS design '79, received a Preservation Achievement Award for her service to the Preservation Alliance.

80s

Martin Belisario, BS mechanical engineering '85, was ranked among the top attorneys in intellectual property law by Chambers USA, a leading legal ranking guide, and named a 2017 Pennsylvania Super Lawyer.

Arthur Brinkworth, BS mechanical engineering '85, joined IMC Construction as project director.

Robert Crawford, BS civil engineering '85, MS '87, received the Geotechnical Engineer of the Year Award for 2017 from the Philadelphia Section of the American Society of Civil Engineers.

Steven Irby, BS engineering '89, was recognized as a Modern Day Technology Leader at the prestigious Black Engineer of the Year Awards Conference in Washington, D.C.

William Leonard, BS accounting '81, was named a 2017 Pennsylvania Super Lawyer.

John Nawn, BS civil engineering '87, MS '12, received the Philadelphia Civil Engineer of the Year Award for 2017 from the Philadelphia Section of the American Society of Civil Engineers. This award is the Section's highest honor.

90s

Theodore Bandy, BS electrical engineering '94, was named a stockholder for the global infrastructure and engineering firm, Gannett Fleming, in recognition of his excellent work effort, commitment to client service and leadership.

LEBOW

Bennett S. LeBow Named to ROTC Hall of Fame

Bennett S. LeBow, BS '60, HD '98, a businessman and philanthropist who is also the namesake of Drexel's LeBow College of Business, was recently named to the U.S. Army Cadet Command ROTC Hall of Fame. He was one of only seven former cadets chosen out of 275 ROTC programs.

LeBow enrolled at Drexel in 1955 after graduating from West Philadelphia High School and earned his BS in electrical engineering in 1960. He served in ROTC throughout his years at Drexel, and entered the U.S. Army on active duty in 1962, serving as a first lieutenant in the U.S. Army Signal Corps stationed at the Pentagon.

In 1964, he began working at the Pentagon, as a civilian, serving as a special assistant to the assistant vice chief of staff, a four-star general who LeBow describes as "one of the smartest people I've ever met." This general tasked him with the creation of a computerized inventory system for the U.S. Army, specifically for the Vietnam War.

LeBow says that he loved being in the service, especially during his time at the Pentagon. He also says that the skills he learned and perfected while in the U.S. Army would lead to his future success in business.

In fact, his next move was to start his first business: a computer company in the Washington, D.C., area that contracted with the government. He went on to have an illustrious career, including serving as the chairman and president of Western Union Corp., Liggett Group Inc. and Vector Group Ltd., plus many other smaller ventures.

To date, he is Drexel's single largest benefactor, having committed over \$75 million, mostly to the LeBow College of Business.

Lieutenant Colonel Lawrence F. Camacho, chair of Drexel's Military Science Department, says he nominated LeBow because "his contributions to the nation are exemplary, and he is a role model and the epitome of success. His utmost dedication and contributions to society are beyond reproach, and he is truly deserving of this esteemed honor."

The mission of ROTC is to develop future commissioned officers of the U.S. Army. The program was created in 1916, and has been an important part of Drexel since 1918. — *Lisa Litzinger-Drayton*



Richard Liu, BS corporate communication '94, was appointed to the Performing Arts Board of ArtsQuest, a nonprofit that provides access to art, culture and education to residents of the Lehigh Valley area.

Kyle Franey, BS accounting '96, joined the team at Your Outsourced CFO (YOCFO), a Philadelphia-based provider of chief financial officer services to small- and medium-sized companies, as Outsourced CFO.

Gina Furia Rubel, BS corporate communication '91, was appointed to the board of directors for Women Owned Law, the nation's first organization devoted exclusively to women legal entrepreneurs.

John Simmons, BS electrical engineering '92, was elected to serve as president of the Philadelphia Intellectual Property Law Association.

00s

Nick Corbin, BS business administration '02, Adam Rauch, BS business administration '03, and Derek Shaw, BS business administration '02, were featured on the ABC Television Network show, "Shark Tank." The alumni pitched their company, Laid Brand, a professional hair care brand with a unique blend of pheromones.

Paul Cross, BS film and video production '05, editor on the A&E television show "Born This Way," was nominated for an Emmy for Outstanding Picture Editing for an Unstructured Reality Program.

David Gornish, BS mechanical engineering '01, was named among Pennsylvania's Rising Stars, an honor reserved for no more than 2.5 percent of up-and-coming lawyers across the state.

CELEBRITY

The Angel of Young Adult TV

Meet Katherine "Kat" McNamara. She got her start on Broadway, graduated with honors from LeBow College of Business in 2013 with a bachelor's degree in business administration at the age of 17, and these days plays the lead role as a demon-hunting teen in the fantasy television series "Shadowhunters," which is headed for its third season on Freeform.

What's the most valuable lesson you've learned as an actress?

Not to take things in a professional sense too personally. Many factors go into decisions made at network or studio levels that have nothing to do with an actor's performance. That, in combination with my business degree, taught me to think of such decisions from a more analytical perspective.

What about your job inspires you?

My job is to be a chameleon, to transform myself to become whatever will enhance the story and serve the character in that world. As such, I am constantly inspired by the challenge of creating a new person to bring to life on stage or screen. There is never a dull moment in my line of work.

What are you most proud of?

I'm so young and am still at the beginning of my career, so I'm un-

sure as to whether I can yet claim a proudest moment. I would say that I am proud of the opportunity I have in my career to make something that will have longevity and hopefully make a difference in the long run.

What is a little-known fact about you?

I'm a bit old fashioned in the way I work. I love the ease of technology, but when it comes to scripts, books and other reading materials, I take the time to find the tactile paper copy.

Describe yourself in three words.

Driven, optimistic, loyal.

What is your favorite way to spend free time?

The television series I work on requires a lot of training and I've come to quite enjoy it. Also, because I travel so much for work, simply



JEREMIAH WILSON

spending time with friends and family has become one of my favorite pastimes.

What is your personal or professional mantra?

They are actually one and the same: "Go confidently in the direction of your dreams. Live the life you have imagined," from Henry David Thoreau.

If you could say "thank you" to someone at Drexel who would it be, and why?

I would thank the faculty and staff at Drexel who work tirelessly to create educational opportunities for people in every situation — even professionals with very busy schedules who still have a hunger for knowledge. I am so appreciative of all they did to help me. — Lara Geragi

inaugural Joanne A. Epps Award from the Temple Law Black Law Students' Association for her leadership in the Philadelphia legal community and dedication to advancing the next generation of Black female attorneys through mentorship and advocacy.

Derek Shaw, BS business administration '02, received a Gold Stevie Award in the 15th Annual American Business Awards as part of Sports 1

Marketing Corp. for the "Best Mobile Site and Application" category.

Sandra Sheller, MCAT creative arts '04, post-secondary certificate, nursing '05, and her husband **Stephen Sheller HD '17**, former Drexel Trustee, were honored with the Heroes of Liberty Award at the National Liberty Museum for their work to help establish a permanent exhibit honoring the Pennsylvania National Guard and for funding

DRAGONS AT WORK

Wanna Meet Other Alumni on the Job?

The Office of Alumni Relations will help you put on great networking events to get to know fellow Dragons at your workplace or on campus. By Carla Robinson

The Drexel Office of Alumni Relations is breaking into new territory this year with Dragons @ Work, an initiative to help Drexel grads tailor specific networking events for fellow alumni at their places of employment — either on campus or at the workplace.

Rich Blumberg, BS '84, and Corina Lam, BS '10, kicked the initiative off with a Dragons @ Work luncheon for the many alumni who work with them at SAP America in Newtown Square, Pennsylvania.

Drexel alumni working at SAP were already networking virtually via an online platform set up by Blumberg, but he and Lam wanted to give their fellow Dragons the opportunity to connect face-to-face.

"We sent out a few invitations and got a great turn out of about 30 people," says Blumberg. "I know a lot of people at SAP but more than half the people there were new faces to me. And that's the great part — who doesn't want to make new connections that make your work experience a little better?"

In addition to lunch, Blumberg and Lam planned activities for the event, including a Quizzo trivia game — complete with prizes provided by the alumni office — in honor of the University's 125th anniversary.

"It was really about getting this group of people together around a common purpose, with no expectations, and it turned out to be a lot of fun," says Lam.

Patricia McHugh Giordano, DO, BS '88, helped organize a networking event on campus for a group of Drexel alumni who work with her at DePuy Synthes, the J&J subsidiary in West Chester, Pennsylvania.

In addition to organizing a tour of new campus research facilities and a visit with President John Fry, the Office of Alumni Relations set up one-on-one career mentoring sessions for the alumni with about 20 students. It was very successful, Giordano says, and left everyone feeling more connected to the University and engaged in its future.

"The mentoring session was a surprise, and it was really the hit of the whole event," Giordano says. "It made us all realize how valuable our own experiences were to those who are trying to figure out what they want to do with their careers. Being able to personally connect with students, and be helpful, was rewarding for all of us."



WOULD YOU LIKE HELP BUILDING AN ALUMNI NETWORK INSIDE YOUR WORKPLACE? The Drexel Office of Alumni Relations works with volunteers to develop and host great events. Contact Lauren Villeneuve at lmr24@drexel.edu.

CELEBRATIONS



TOP Heather Samaniego, BS nursing '13, and Stephen Carboni, BS information technology '12, and were married on June 11, 2016.

MIDDLE Kristyn Rossi, BS biological science '06, and Joel Todd, BS information systems '08, were married on Aug. 20, 2016. Photographed [left to right] are: Tim O'Connor, Melissa O'Connor, John Pasquella, Jill Todd-Pasquella, Eric Michaelson, Stephany Rossi, Justin Brooks, **Kristyn Rossi Todd '06; Joel Todd '08; Ryann Scrafford '06; Gabe Givnish '06; Stacy Graham, Edward Graham, Rachel Kaczinski, Greg Brightbill '07; Kelly Mongelluzzo, and Derek Erfurt '07.**



Matthew Geragi, MBA business administration '09, and Lara Cressman Geragi had a son, Elliot Edward Geragi, on May 22, 2017.



Matthew Kearney, BS civil engineering '07, and Nicole Eagles Kearney, BS graphic design '06, had a daughter, Talula Kearney on April 9, 2017.

their Young Heroes Program at the Tanner Duckrey School.

Bijal Shah-Creamer, BS chemical engineering '03, was named among Pennsylvania's Rising Stars, an honor reserved for no more than 2.5 percent of up-and-coming lawyers across the state.

Jeffrey Stockbridge, BS photography '05, a past *Drexel Magazine* "40 Under 40" honoree, released the book "Kensington Blues," a compilation of photos that tell the stories of those struggling with addiction in the Kensington section of Philadelphia. The project, which aims to humanize a neighborhood defined by deadly overdoses and drug sweep arrests, is the byproduct of a blog of the same name that Stockbridge started working on nearly 10 years ago.

10s

Jeffrey Danziger, BS business administration '14, is working for Your Outsourced CFO (YOCFO), a Philadelphia-based provider of chief financial officer services to small- and medium-sized companies. He was hired shortly after meeting the founder through Drexel's co-op program.

Darla Davenport-Powell, MS higher education '11, appeared on the toy competition show, "The Toy Box," on ABC Television Network, where she presented a collection of multicultural dolls that can sing and speak in multiple languages.

Danielle Boyle Melman, MS sport management '13, received the National Association of Athletic Development Directors Rising Star Award for her exceptional work at the University of California San Diego.

Jesse Proctor, JD law '16, joined the Worker's Compensation Department at the law firm Capehart Scatchard.

SCHOLARSHIP

Every year since 1993, Drexel partners with the Nicholas P. Pipino Memorial Foundation to host the University City 5K Run to raise funds for the Pipino scholarship.



Nick Pipino's Legacy

When Nick Pipino, a Drexel senior, was murdered while working at an off-campus restaurant in 1992, it rocked the University community. A well-known figure at Drexel, Pipino was fun-loving and adventurous, with a bright future. The night he was killed, Pipino had gone to talk to a man outside the restaurant who was causing a disturbance. The man, who had occasionally worked at the restaurant as well, fatally stabbed Pipino when he tried to send him on his way.

Like Pipino, U.S. Navy Commander Brian Connett, BS '99, grew up in Philadelphia. The year Pipino died, he was beginning his college search. He chose Drexel because it was in Philly, he knew he would get a high-quality education and because people told him he couldn't do it.

"I heard from many people that Drexel was an unreasonable and unattainable goal for a city kid coming from a blue-collar family," he says.

That didn't discourage Connett. He got in and became involved on campus. He joined crew, was elected to student government, was active in Greek life and took part in community service events. Along the way, he met some of the people who had known Pipino.

Then, in 1998, Connett became directly tied to Pipino's legacy. He was paying for college largely on his own, so he wrote an essay to apply for a scholarship — the Nicholas P. Pipino Memorial Scholarship. The fund was established in 1993 by Pipino's friends and family to celebrate his life, preserve his memory and help stop senseless acts of violence. Connett received the scholarship; he says Pipino's friends and family told him that his essay reflected Pipino's own ideals and vision. He no longer has the winning essay, but Connett is confident that it said the same thing that he says today when leading sailors or midshipmen: "Fight hard for those who can't fight for themselves."

Every now and then, Connett thinks of Pipino and the Pipino Scholarship. "It reminds me of a time when Pipino's family's life was drastically altered, and of a time when I made a drastic change in my life to serve," he says. "This scholarship exists because Pipino found himself in a situation where he could not win the fight, but his memory and his family are a strength

Over the past 25 years, dozens of students have received the Nicholas P. Pipino Memorial Scholarship Fund. Recipients have gone on to — among other things — serve in the White House through co-op and work in leadership roles for well-known financial and engineering companies. You can support Pipino's legacy and future Drexel students by giving to the Fund. Visit drexel.edu/givenow, input your gift amount and indicate that your gift is for the Nicholas P. Pipino Memorial Scholarship.

that is multiplied a million-fold."

Pipino's memory and his legacy continue today, with students like Matt Matwiejczyk, a senior studying mechanical engineering. Like both Pipino and Connett before him, the Philadelphia native is active on campus and works outside of school to help pay for his education. Last year, he became one of the latest recipients of the Nicholas P. Pipino Memorial Scholarship.

Matwiejczyk knew nothing of Nick Pipino when he came to Drexel; he wasn't yet born the year Pipino was murdered. But, like Connett before him, he had the opportunity to meet several of Pipino's friends and family members after receiving the award.

"I am honored to be able to call myself a recipient," he says. "The best part was learning about Pipino and who he was. He had such an impact on many people and was an incredible person. You definitely feel more of an appreciation for the scholarship knowing the family and the cause behind it."

Matwiejczyk isn't sure what he wants to do post-graduation, but he knows that he wants to give back. He has always believed in helping others, and receiving the Pipino Scholarship enhances that commitment.

"It's pretty remarkable that I have the opportunity to be part of such an important scholarship," he says, "especially seeing how positively it has impacted my life and imagining how much it has helped others. I hope to one day be able to repay the generosity that has been bestowed on me." — *Kelly Batstone*

PROFILE

My Chemistry Romance



HANNAH COOK

If you had told Travis Scott '16 five years ago that he would be a distillery production supervisor for a popular craft whiskey brand, he would have laughed and said you were crazy.

Scott has worked at Dad's Hat in Bristol, Pennsylvania, since he graduated in June 2016, and he loves it. It allows him to not sit at a desk all day and keeps him extremely busy, he says. It's a job where, he jokes, "you shower when you get home from work, rather than before you go in."

"We liked Travis' enthusiasm and the fact that he possessed the skills necessary to be a distiller the moment we met him," says Dad's Hat co-founder Herman Mihalich, who has served as Scott's mentor in the distillery over the past year. "Gaining an assistant who possesses a master's degree in chemical engineering was a dream come true. The fact that he loves what he's doing comes through in our whiskey."

At Drexel, Scott went through the accelerated program to earn a combined bachelor's and master's degree in chemical engineering. During that time he had three co-op jobs; first he worked as a water-quality monitoring instrument technician with the Philadelphia Water Department, then he worked on industrial paints at AGC Chemicals, and his final co-op was spent working with fluoropolymer fibers at Arkema.

Scott credits his experience with chemical companies and in chemical engineering for helping to prepare him for his current position.

"There are so many aspects to this job," says Scott. "I never thought I'd be working in producing liquor or beer, but in the back of my mind I hoped that I would. So much of this is both physical and mental. There's a lot of math and chemistry involved. The best part is that with my previous jobs, I never got to see the results. With this job, I get to see (and taste) everything."

Friends We'll Miss

1920s

Leola France Strine, BS home economics '29
Helen Millikin Genereaux, BS home economics '29
Harold Ruch, DC mechanical engineering '27
Herbert Seville, DC mechanical engineering '29
Phyllis Weinberg Goodfriend, DC dietetics '27

1930s

Henry Abrams, BS electrical engineering '38
Alice Alger Gapp, DC library science '38
Margaret Beale Taylor, DC library science '35
Jane Bennett Lyon, DC home economics '33
Iris Brahin Yaffe, BS home economics '35
John Calder, DC chemical engineering '38
Thelma Charnock, DC commerce teacher '35
Joan Coffman Jessup, DC secretarial '38, BS commerce teacher '40
George Dozor, DC mechanical engineering '39
Margaret Evans Purves, DC secretarial '36
Mary Everett Baker, BS home economics '37
Norman Francis, BS mechanical engineering '39
Richard Frazier, DC mechanical engineering '36
William Frost, BS electrical engineering '37
Francis Gibbons, DC mechanical engineering '35
Mildred Glasner, BS home economics '34
James Gray, DC electrical engineering '37
Rita Gruber, DC library science '37
William Hadfield, DC mechanical engineering '38
Anna Herbein MacIver, DC home economics '34
Joseph Kamenshine, DC electrical engineering '33
Edwina Klos Rogers, DC secretarial '37
Marie Kruecke Ritter, DC secretarial '36
Mary Kuntz, BS home economics '38
Walter Ludman, DC electrical engineering '36
Carl Mangold, BS mechanical

engineering '36
Sylvia Marymor Rodman, BS home economics '37
Edith Meslo Klimitas, BS home economics '38
Howard Miller, BS business administration '36
Harry Morgan, BS electrical engineering '31
Margaret Morrison Chambers, DC library science '30
John Mullan, DC mechanical engineering '35
Raymond Netsch, DC chemical engineering '39, BS '54
Sarah Nyce Smith, DC secretarial '39
Byrle Riley Caziarc, DC secretarial '38
Dorothy Ritchie Carson, BS home economics '39
Jane Roper Stortz, DC secretarial '36
Nathan Rosengarten, BS mechanical engineering '39
Wilbert Rudder, DC mechanical engineering '35
Stuart Sanders, DC mechanical engineering '36
Ruth-Molly Sanders Hopkins, BS home economics '38
Elizabeth Schwalm, BS commerce teacher '37
Margaret Seidel Bobbitt, DC library science '31
Jane Steinbach Grimes, BS home economics '36
Eleanor Steinke, DC library science '38
Charlotte Tew Freeman, DC secretarial '38
Martha Thornberg Jett, BS home economics '36
Harold Thornton, BS chemical engineering '39
John Tipton, DC electrical engineering '36
Miriam Tschudy Trout, BS home economics '30
Arthur Ward, DC mechanical engineering '33
Philip Weigel, DC mechanical engineering '32

1940s

June Baker Sills, RN nursing '43
Hazel Baker Suder, BS home economics '47
Samuel Baroway, DC chemical engineering '42, BS '53
Ethel Bastress David, BS home economics '48
Helen Bertas, BS secretarial '42
Ruth Bird Stephenson, BS home economics '45
Adele Bracy MacGregor, RN nursing '46
Ralph Braverman, BS electrical engineering '47

Stephen Butler, BS mechanical engineering '49
Anthony Butsavich, BS mechanical engineering '49
Ralph Coate, DC electrical engineering '46
Gertrude Copperman, MD medicine '49
Elizabeth Crozer Stannert, BS home economics '43
Richard Curley, BS commerce and engineering '40
Marie Curley Audet, BS home economics '49
Harold Daetwyler, BS mechanical engineering '44
Sally Dalton, DC junior secretarial '47
Jean Davison Hall, DC secretarial '46
Guy DeFabrites, DC mechanical engineering '49
James Denham, DC mechanical engineering '47
Peter Ditoro, MD medicine '46
Eugene Dogliotti, BS chemical engineering '44
Joseph Doody, DC electrical engineering '43
Edward Douglas, DC industrial administration '49
Paul Edwards, BS civil engineering '43
Marie Engel McGlone, BS home economics '45
Emma Engle, DC library science '42
Henry Ewing, DC electrical engineering '48
Michael Famiglietti, DC mechanical engineering '41
Clyde Featherer Copple, BS retail management '44
Charles Fleck, DC mechanical engineering '49
Ruth Ford Miller, BS home economics '49
John Gillespie, BS electrical engineering '42
Alexander Glass, BS commerce and engineering '43
Ilse Graenz Schwarze, BS secretarial '43
Irvin Grasheim, DC electrical engineering '41, BS '55
John Guenther, BS electrical engineering '42
Martha Guse, DC library science '41
Janet Harding Hermann, BS commerce teacher '41
Harriet Harding Johnson, BS home economics '45
Marian Hatfield McCaughan, MS home economics '41
Samuel Hawley, DC mechanical engineering '48
Harry Heaps, BS business administration '47
H. Hibbert, DC chemical engineering

'43
Sara Hixson, DC library science '49
Frank Hoelzle, DC electrical engineering '40
Katherine Hoffman Stevens, MS home economics '40
Henry Hofford, BS chemical engineering '47
Philip Hofmann, DC mechanical engineering '47
Paul Honan, MD medicine '46
Phyllis Householder Baker, DC secretarial '42
Arthur Hunter, BS electrical engineering '41
Warren Jensen, BS mechanical engineering '48
Sydney Kane, BS mechanical engineering '53
Grace Kaufmann Padlasky, BS home economics '44
Willard Keiser, DC electrical engineering '41
George Ketcham, BS electrical engineering '48
William Kevit, BS business administration '48
Milton Kutikoff, BS electrical engineering '47
Robert Lathlaen, BS civil engineering '45
Christopher Leone, BS business administration '47
John Liggins, BS mechanical engineering '47
Rose Maeso Bolich, BS home economics '49
Irving Magasiny, BS electrical engineering '48
Sarah Mayes Robb, DC library science '41
Emily McAnulty, DC secretarial '41
Anne McBride Fox, BS home economics '42
Mary Mccue Epstein, MS interior design '48
William McGuire, DC mechanical engineering '43
Lois Meadowcroft Baker, DC home economics '41
Robert Miller, DC mechanical engineering '49
Elizabeth Miller Bagg, DC library science '41
Frederick Milstein, BS business administration '48
Florence Muckinhaupt Howland, BS home economics '49
Henry Neubert, BS electrical engineering '48
Elaine Nevin Brown, BS home economics '44
Roberta Parkhill Stouch, DC secretarial '40
Hugh Pattison, DC mechanical engineering '49, BS '54
Russel Phillips, BS mechanical

engineering '43
William Pigozzi, MD medicine '44
Thomas Potts, BS retail management '49
Lois Rebert Boer, BS secretarial '42
Leonard Roth, BS business administration '48
Paul Salvo, MD medicine '48
Margery Schumann LaRoe, BS home economics '49
Charles Sears, DC electrical engineering '49
Lois Seavers Miller, DC library science '43
William Sellers, BS chemical engineering '41
Michael Shepnew, BS electrical engineering '40
William Shone, BS mechanical engineering '49
Dorothy Sigman Stratford, DC secretarial '41
Martin Smith, BS mechanical engineering '48
Betty Snyder Cunfer, RN nursing '44
Margaret Staats Pola, BS home economics '41
Harry Stephey, BS electrical

engineering '41, MS '74
Henry Stevenson, DC mechanical engineering '47
Mary Jane Sturgeon, DC library science '41
James Sutherland, DC electrical engineering '43
Martha Taylor Buck, DC library science '47
John Thomas, DC electrical engineering '40
Margaret Thomas Wunder, DC secretarial '42
George Thompson, DC mechanical engineering '41, DC '53, BS '56
Thomas Tillett, BS mechanical engineering '48
Martin Toll, BS mechanical engineering '46
Corrinne Turner Janton, DC secretarial '49
Rose Van Note Henneka, DC secretarial '45
Harry Wagner, DC mechanical engineering '40, BS '53
Esther Weiss, DC library science '46
Kenneth Werner, BS mechanical engineering '47

CONVERSATIONS WITH A VIEW

The 2018 Drexel Dialogues series brings student, faculty and alumni subject experts to some of the coolest locations in the country. Join them for captivating conversations from a uniquely Drexel perspective in spaces you'll never forget.

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- CHICAGO
- HOUSTON

DREXEL DIALOGUES

Drexel UNIVERSITY

E. Wheatley, BS business administration '40
Robert Wilson, BS business administration '40
William Wilson, DC business administration '49
Robert Winther, DC electrical engineering '41
Jean Yerkes Bailey, DC secretarial '43
Virginia Young Laverty, BS home economics '43
Alden Ziel, BS business administration '48

1950s

John Adair, BS mechanical engineering '50, MS '55
Paul Alday, BS mechanical engineering '53, MS '57
Louise Archbold Bjorklund, BS home economics '51
Robert Bachinsky, BS electrical engineering '59, PhD '73
Chuck Barris, BS business administration '53, HD '01
James Berkeyheiser, DC electrical engineering '58, BS '60
Alan Bernstein, BS chemical engineering '55
Carroll Bessey, BS commerce and engineering '52, MBA '62
Robert Bromley, BS business administration '50
Edgar Bumbier, MS chemistry '55
Richard Caldwell, BS civil engineering '53, MS '58
Barbara Capece Humphreys, BS business teacher education '58
Jean Ceccoli Bansbach, MD medicine '51
John Chambers, BS chemical engineering '51
Arthur Condodina, BS mechanical engineering '55
Richard Darlington, BS business administration '58
Angelo DiBello, MD medicine '54
Mary Dochios-Kamberos, MD medicine '51
Leonard Dreifus, MD medicine '51
Betty Durst Walters, BS home economics '52
Catherine Dwyer, MD medicine '59
Norman Einhorn, BS electrical engineering '50
Howard Engle, BS business administration '58, MBA '70
Martin Evelev, BS commerce and engineering '53
Virginia Ewell Kelsey, BS home economics '54
Morton Felsenstein, MD medicine '54
Joseph Frank, BS mechanical engineering '50
Morton Friedman, MD medicine '50
Joanne Furnier Rongaas, BS retail management '53
Thomas Greenwood, DC mechanical engineering '50, BS '53
Saul Goldberg, BS retail management '59
John Gorski, BS mechanical engineering '50
Morton Greitzer, DC civil engineering '51, BS '55
Helen Griffen, MD medicine '53
Thomas Gumas, BS business administration '50
William Haessler, DC electrical engineering '52, BS '66
Paul Hagerty, BS business administration '56
Donald Hallstrom, BS business administration '50
Ronald Halvorsen, BS civil engineering '57
James Hammond, BS business administration '50
Frank Hood, DC chemical engineering '57
Joseph Howes, MS electrical engineering '58
George Hughes, BS mechanical engineering '53
Robert Jaffe, MD medicine '53
Zigmund Kaminski, MS microbiology and immunology '54, PhD '57
Augustus Kappler, DC electrical engineering '52, BS '55
Edward Kean, MS chemistry '56
Richard Kelly, DC mechanical engineering '51
Alexander Kenuk, DC architecture '52
Harry Klein, BS electrical engineering '50
John Konikoff, DC mechanical engineering '52, BS '55
Joseph Korkus, DC architecture '52
Eugene Kosmin, BS business administration '50
Alexander Krupka, BS electrical engineering '51
Maryann Kusko Balogach, DC home economics '59
John Leapson, DC civil engineering '56, BS '58
Adolph Lemberger, BS mechanical engineering '55
William Lenthe, BS business administration '50
Dale Ling, BS electrical engineering '57, MS '63
Alfred Link, BS commerce and engineering '53
John Lynch, DC mechanical engineering '54
Patricia Lyon Roewer, MS home economics '51
August MacEllaro, DC mechanical engineering '52, BS '55
Marilyn Mahon, MD medicine '50
Andrew Malizio, BS mechanical engineering '52
Thomas Marshall, BS chemical engineering '51

George Matlack, BS chemical engineering '51
Karl Maurer, BS mechanical engineering '59
Julian McFarland, BS chemical engineering '50
Gerald McKee, BS mechanical engineering '51
Thomas McLaughlin, BS electrical engineering '51
Edward McMenamin, DC electrical engineering '51, BS '54
Virginia Medjeska Bedesem, DC secretarial '56
Keith Menacker, DC mechanical engineering '51, BS '54
Marion Murray Starkey, DC library science '50
Lawrence Nadzan, DC mechanical engineering '52, BS '55
Mary Nehlig, DC library science '52
Thomas Nolan, BS business administration '54
S. Oliver, BS business administration '50
Jo Anne Overleese, MD medicine '50
Wilma Parham Bishop, BS home economics '51
Marianne Pengelly Hild, DC secretarial '50
Reuben Pincus, BS business administration '50
James Pittner, BS Commerce & Engineering '58
Victor Pleskacz, BS civil engineering '50
George Reimherr, BS physics and atmospheric science '56
lawrence Rockwell, DC business administration '51
Mary Roddy, MS home economics '52
Sidney Rosenberg, BS mechanical engineering '50
Louise Sabol-Rubel, MD medicine '59
Paul Savitz, DC mechanical engineering '52, BS '55
William Savory, MD medicine '54
Paul Schaefer, BS business administration '54
Louis Scheerbaum, BS civil engineering '59
Claire Schehr-Ryan, MD medicine '56
Spencer Schilling, MBA business administration '59
Charles Schofield, BS electrical engineering '50
Frederick Scott, BS chemical engineering '54
Dorothy Shapley, DC secretarial '50
Arthur Shesser, DC mechanical engineering '51
Virginia Slocum Mattice, MS library sciences '59
Grace Stanton Caldwell, BS home economics '51
Mary Taulane, DC secretarial '51
Harold Tomkinson, DC electrical engineering '50
Collette Touey Kean, BS marketing '52
Elizabeth Uslin Anderson, RN nursing '53
Demetres Vlatas, BS civil engineering '54
Robert Wachsmuth, DC machine design '51
Harry Walp, BS business administration '50
William Warrender, MD medicine '59
John Watson, BS civil engineering '58, MS environmental science '73
Robert Weber, BS civil engineering '54
Raymond Weidman, DC mechanical engineering '50
George Williams, BS electrical engineering '52
Rudolph Wolf, BS electrical engineering '52

1960s

James Alexander, DC business administration '60
Robert Baxter, BS business administration '66, MBA '77
Robert Bisbing, BS mechanical engineering '60
Carol Boise Simonson, BS home economics '61, MS library and information science '71
Allan Bosswick, MS library science '69
Dorothy Boyer, MS home economics '65
Arthur Burke, BS civil engineering '66
John Burt, MS biomedical engineering '66
Robert Carrell, BS physics and atmospheric science '62
Thomas Cherubini, MD medicine '64
Lan-Keh Chi, PhD electrical engineering '68
Suzanne Christiansen Oram, RN nursing '65
Marie Coville Ortner, MS library science '68
Donald Crawford, MD medicine '63
Fred Deitz, BS physics and atmospheric science '63
Dennis Domin, BS business administration '67
William Drendall, BS electrical engineering '68, MBA '76
James Duffy, BS mechanical engineering '61
Margery Estilow Skinner, BS home economics '66
Charles Fox, BS physics and atmospheric science '65
Alan Goodman, BS chemistry '67
Paul Gordon, MS mechanical engineering '66
Jack Goudy, BS machanical engineering '68
James Graham, BS commerce and engineering '65
Stephen Graham, BS metallurgical engineering '67
Else Harslem Harlan, DC library science '60
Marlene Hartmann Tebo, MS library sciences '65
Joseph Jackson, BS mechanical engineering '61
James Johnstone, BS business administration '60
Walter Keiper, BS commerce and engineering '61
Charles King, BS electrical engineering '64
Carol Lehman Coffey, MS library sciences '65
Earl Lestz, BS business administration '61
F. Douglas Martin, BS business administration '67
Wayne Maurer, BS business administration '69, MBA '71
George Petrick, BS electrical engineering '60, MS '63
Charles Pope, BS electrical engineering '65
Edward Powell, BS business administration '60
A. Regener, BS business administration '67, MBA '71
Richard Rehberg, BS business administration '60
John Sapoznikoff, MD medicine '65
Donald Schnorr, MBA '65
Alma Singleton, BS home economics '64, MS '67
Renee Siso Kargen, BS home economics '69
Aubrey Spence, MS engineering management '68
David Springer, MBA '64
Henry Sullivan, BS mechanical engineering '63
Gunther Thalheimer, BS civil engineering '64
Patrick Toscano, MS electrical engineering '60
Samuel Volinsky, BS electrical engineering '64
Kenneth Wadsworth, BS mechanical engineering '66
Alexander Wahlig, MD medicine '61
Richard Walsh, MBA '63, MS engineering management '74
Jay Weisberg, BS business administration '67
Charles Wilson, BS electrical engineering '60
Peter Worhacz, MS electrical engineering '68

1970s

Genevieve Berner, MS library science '79
Helen Burd St.Clair, MS library science '71

Dennis Chaffee, BS business administration '71
Robert Cohan, BS accounting '77
Daniel Dalton, BS business administration '73, MBA '76
Harry Gangloff, BS mechanical engineering '70, MS '72, PhD '77
Karen Gartner, MS library science '70
Marion Goldman Shapiro, MS clinical psychology '72, PsyD '76
John Hopkins, MD medicine '76
William Jack, BS business administration '71
C. Kauffman, BS commerce and engineering '71
John Kenney, MBA '71
Eileen Kidd, RN nursing '71
Ronald Mathis, BS civil engineering '78
Kathleen Mirante, MD medicine '71
Linn Newman, BS chemical engineering '72
Anthony Nicassio, MD medicine '76
Floyd Plowman, MBA '76
Denis Orlando, BS mathematics '73, MS electrical engineering '82
Harry Reeb, BS electrical engineering '71
James Slovak, MD medicine '72
David Standeven, BS physics and atmospheric science '70
Robert Stratton, MBA '72
Joseph Sullivan, MBA '74
Arlene Townsend, MD medicine '79
Edward Vallorani, MS civil engineering '73
Ronald Veasey, AS radiologic technology '77
Thomas Weldon, BS humanities and

communications '79
Frederick Williams, BS civil engineering '72
Walter Wojcik, BS mechanical engineering '72

1980s

Joseph Barry, BS mechanical engineering '86
Robert Bauerle, BS civil engineering '82
Tracey Copulos Liberi, BS civil engineering '86
John Fuoco, MD medicine '82
Andrew Gibbs, BS accounting '89
Ogden Gorham, BS physician assistant '86
Leslie Kaplan, BS home economics '81
Barry Lembersky, MD medicine '81
Alfredo Lewis, AS medical laboratory technician '80, BS physician assistant '92
Stephen Masnica, BS electrical engineering '80, MS '80
Martha Ough Briggs, BS interior design '87
Scott Recker, MD medicine '80
Susan Smiley-Greene, AS nursing '85
Marsha Smith, AS nursing '81
Rosella Straesser, DC nursing '80
1990s
Peter Achey, MBA '97
Eric Berg, MS mechanical engineering '92
Holly Mattos, BS accounting '91
Ohnn Nahm, MD medicine '95
Charlene Nessler, MS science of instruction '99, PhD educational leadership '11
Joshua Roberts, MS library and information science '97
Kimberley Sando, MS library and information science '93
Julie Schmidt Suplee, MCAT creative arts '95
Larry Ticer, MD medicine '93

2000s

Terry Arnold Collins, BS communications and applied technology '06
Regina McGinley, BS communications and applied technology '07
Crystal Puddleiner Garrett, MBA '08
Jacob Roberson, BS business administration '09
Heidi Strauser Hornberger, MBA '05

2010s

Michelle Carroll, BS biological sciences '14
Phillip Combs, JD law '16
Justin Hileman, BS architectural engineering '15
Brady Latsha, BS information technology '15
Gregory Monforte, BS sport management '15

George Koenig, BS '65, MBA '77, was incorrectly listed in the summer edition of Friends We'll Miss.

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Crossword

PECULIAR PEDAGOGY

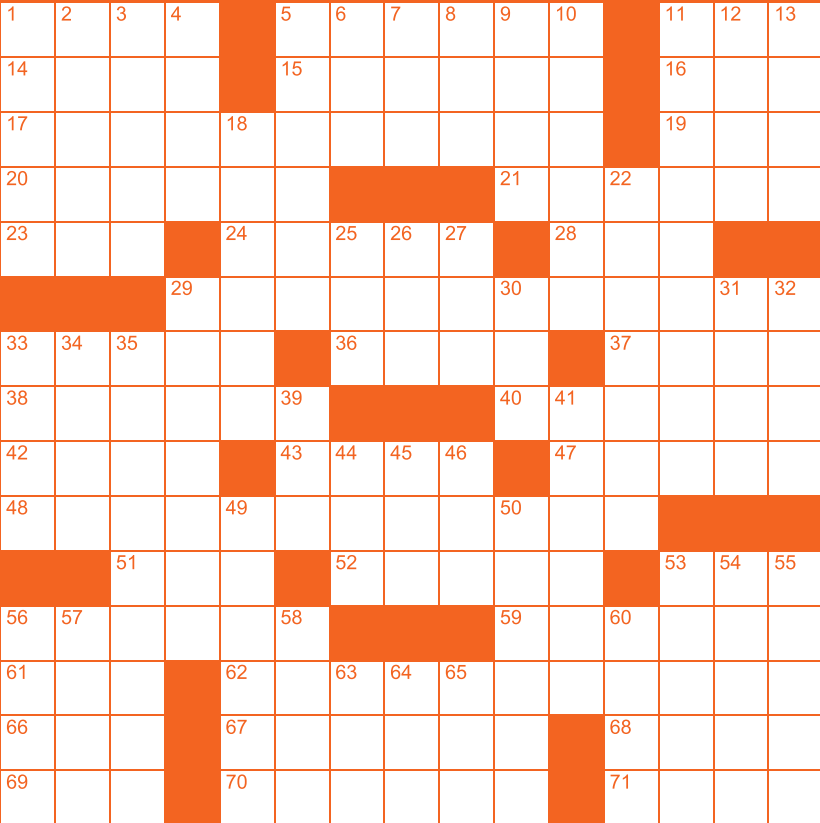
To crack this puzzle you'll need to imagine a curriculum as open to unusual coursework as Drexel's own.

ACROSS

- 1 Site of chiropractic treatment, perhaps
- 5 Groups of locusts
- 11 Band's booking
- 14 Dungeons & Dragons baddie
- 15 Like grunt work
- 16 MA's and PA's home
- 17 Course where you study the life and times of pitcher Hershiser?
- 19 Needing Tylenol, say
- 20 Vessel for the March Hare or Mad Hatter
- 21 Unpopped bit
- 23 Clothes line
- 24 Fruit on the reverse side of a Georgia state quarter
- 28 "What did I tell you!"
- 29 Course where you make calculations and nobody notices?
- 33 Tease
- 36 Fictional governess Jane
- 37 ____ Taylor (early role for Ron Howard)
- 38 E, in Einstein's famous equation
- 40 Like many Univision watchers
- 42 Climactic introduction?
- 43 Dueling implement
- 47 Fit for a queen
- 48 Course where you analyze the motions of the NBA's World Peace?
- 51 Sweetie
- 52 Ocean measurement
- 53 "Might I ____ ..."
- 56 "Oh really?"
- 59 Hunting dog
- 61 "I've got an idea!"
- 62 Course where you perform plays that are both emotional and relaxed at the same time?
- 65 Repair
- 67 "Break Free" singer Grande
- 68 Laundry room item
- 69 Ring site, at times
- 70 Urban street problem
- 71 Color of an animated panther

» THINK YOU'VE GOT ALL THE ANSWERS? If so, send your completed puzzle to the address at right to be entered into a drawing to win a great Drexel prize. And congratulations to the winner of last edition's puzzle: Denise Finnie-Leonard '77 of Hatboro, Pennsylvania.

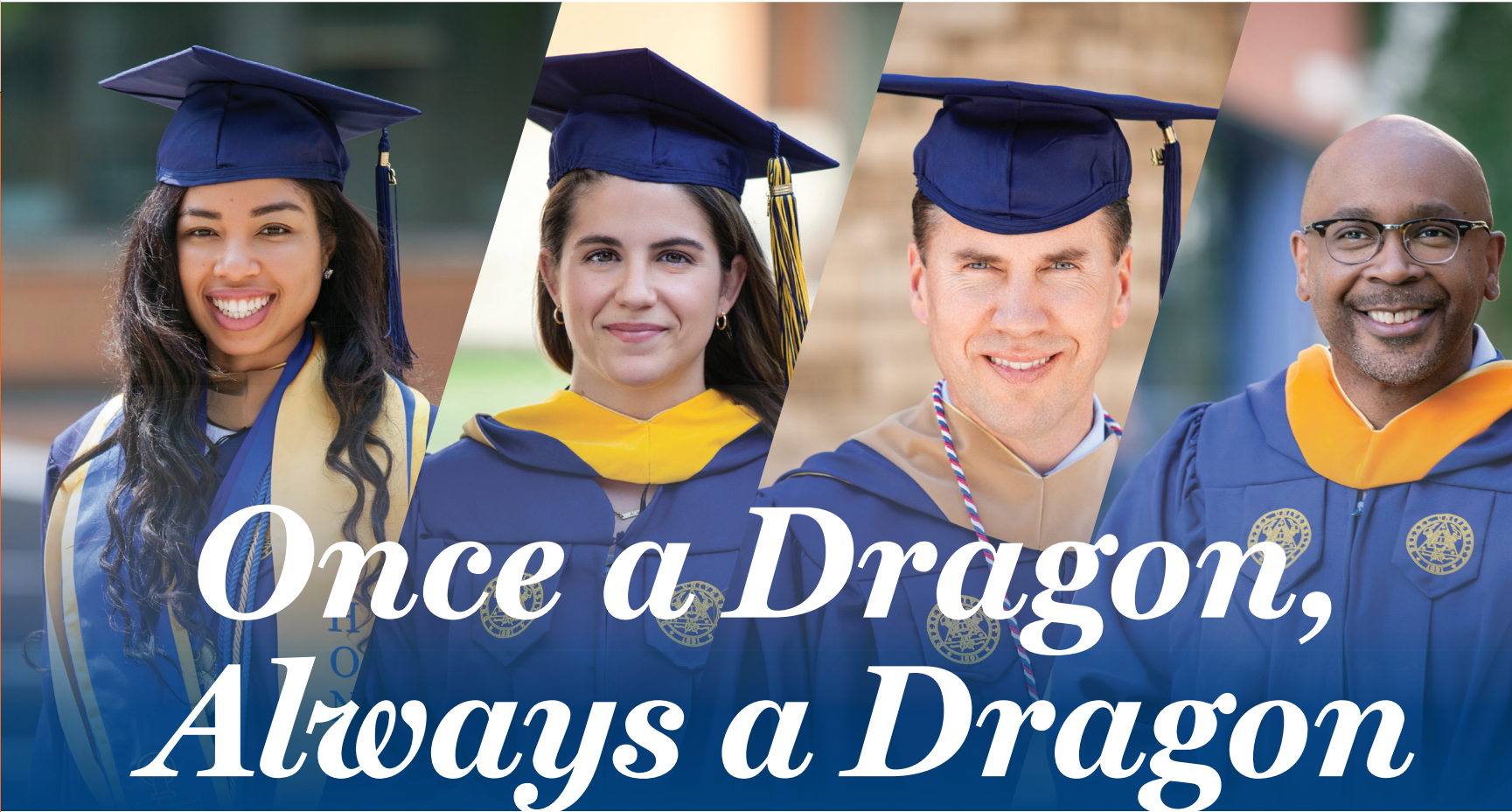
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DOWN

- 1 Color of an animated panther
- 2 Concur
- 3 Cookies and ____
- 4 What sea urchins feed on
- 5 Hits hard, biblically speaking
- 6 "Moonrise Kingdom" director Anderson
- 7 Small farm worker
- 8 City where swimmer Katie Ledecky won four gold medals
- 9 Luke Skywalker portrayer Hamill
- 10 Most cunning
- 11 Subject of many experiments
- 12 Locale for a marooned sailor
- 13 Nerve
- 18 "Here's ____!"
- 22 Channel surfers' needs
- 25 Strong heart, say?
- 26 "Don't ____ for Me Argentina" ("Evita" song)
- 27 That lady
- 29 Chips with a Cool Ranch variety
- 30 Dragon roll ingredient
- 31 Fey who co-created "Unbreakable Kimmy Schmidt"
- 32 Recover
- 33 Copier load
- 34 "Pandora" author Rice
- 35 Lose one's job
- 39 "You betcha"
- 41 Curved
- 44 Professor's deg., often
- 45 Rapid ____ movement
- 46 Clairvoyant's ability, briefly
- 49 "Ice Age" or "Zootopia" character
- 50 "We're going to fight!"
- 53 "Yars' Revenge" console, 1982
- 54 Common enemy in the video game "Diablo"
- 55 Had a few at the bar
- 56 Senseless
- 57 Bowling Green's state
- 58 Actress Hatcher or Polo
- 60 Activate, as an alarm
- 63 Ignited
- 64 Partner of long., on a map
- 65 "We're number ____!"

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PUZZLE BY EVAN BIRNHOLZ '08



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