

26 *A New Home for*  
HILLEL

INSIDE  
*the Kline Center* 38

30 MINORS  
*with Major Ideas*

# Drexel

MAGAZINE

**Help for  
Kensington**  
*Drexel medical  
students are  
bringing the  
opioid problem  
down to size  
by training  
bystanders to be  
first responders.*





## ASTRONAUTS

### FINAL FRONTIER

Remember this cover from 2011? When we profiled Chris Ferguson (mechanical engineering '84) in *Drexel Magazine* seven years ago, we thought we were writing a final chapter in both his career as an astronaut, and in America's space flight program, for which he commanded the final mission. But that was before Boeing and Space X got into the galactic travel business. Ferguson, 56, is now part of Boeing's Starliner team, in charge of building a spaceship under contract with NASA. Recently he was chosen to climb into his spacesuit once more. In mid-2019, he will command the aerospace company's test launch of the world's first commercial space taxi to the International Space Station, a giant leap for mankind that could one day mean ordinary people can catch a ride on a rocket, too.

28

Days in space that Ferguson has logged — so far!

240

Average distance in miles between Drexel and the Space Station.

4

Number of astronauts who are Drexel alumni. In addition to Ferguson, Drexel trained James Baglan '73, the late Patricia Hilliard Robertson '89 and Paul Richards '87.

230

Approximate number of people who have lived on or visited the Space Station since it opened in 2000.

# The Ledger





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Drexel pre-med students bring first-aid training and Narcan to the shopkeepers, clerks and waitstaff of Kensington who have become unwitting first responders in the opioid overdose crisis.

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### Dragons Down Under

Over the summer the Drexel men's basketball team traveled to Australia for some exotic pre-season practice.

### Our Man in Canada

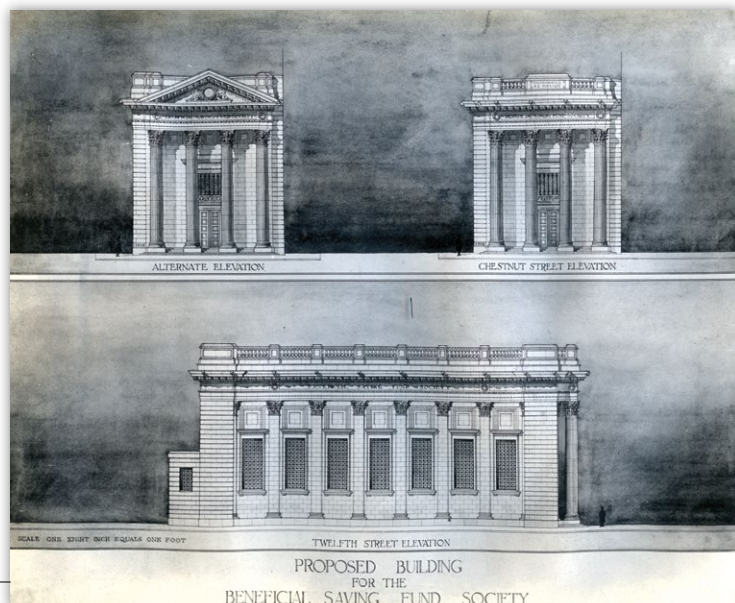
Drexel's Ben McIntosh '14 was chosen to represent Canada in what's considered the World Cup of Lacrosse.







## THE VIEW FROM MAIN



## 38

## Pillars of the Community

Drexel's new Thomas R. Kline Institute of Trial Advocacy in Center City is a stunning tribute to a style of legal advocacy that seeks to remedy injustices by spurring reform.

I hope you've shared the experience of many Drexel alumni when visiting the campus from time to time: It's that feeling of discovery, when you encounter new and upgraded facilities, or learn of ways in which the student experience has changed for the better while still being familiar from your Drexel years.

Often, a new building or a renovated space — such as the stunning Korman Quadrangle, updated recently — brings about a change in our daily routines or provides new possibilities for teaching and learning. That's certainly the case with the newest setting for students of the Thomas R. Kline School of Law, featured in this issue.

At the new Kline Institute of Trial Advocacy at 12th and Chestnut streets in Center City Philadelphia, students will be able to hone their litigation skills in a courtroom setting that's not only realistic, but which also conveys the majesty of the law and their calling to seek justice. This inspiring space has been created through the extraordinary generosity of Kline Law's naming benefactor, Thomas R. Kline.

As a formidable litigator, whose courtroom victories have prompted important reforms, Tom conceived of an ambitious plan to turn a former bank building designed by famed Philadelphia architect Horace Trumbauer into a litigation training center. Following its meticulous renovation, the building houses state-of-the-art courtrooms that include a glass-enclosed main courtroom recently awarded top honors by the Preservation Alliance for Greater Philadelphia.

I encourage you to stop by the Kline Institute and feel the pride in knowing that this building extends Drexel's reach while also ennobling our purpose. Winston Churchill said, "We shape our buildings; thereafter, they shape us." With the Kline Institute opening, and so much more happening at our University, we can be confident that the shape of things to come at Drexel will be exciting and well worth discovering.

Sincerely,

John A. Fry / President

## 26

## A Home for Hillel

After years of bouncing around various temporary campus locations, Drexel Hillel now has a permanent place in the newly built Raymond G. Perelman Center for Jewish Life.

## 30

## Minors with Major Ideas

Would-be entrepreneurs from local high schools competed for cash at Drexel this past spring in the Close School for Entrepreneurship's inaugural Rising Starters business plan competition.

## 46 Cross Roads

How to get involved with identity-based affinity groups.

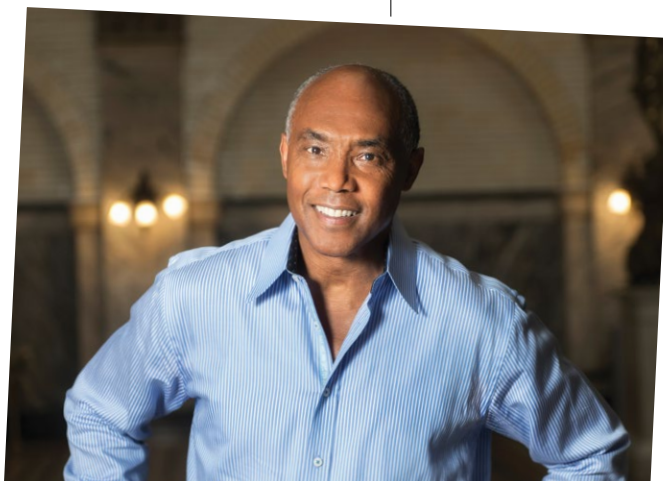
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Keep up with fellow alumni's careers, weddings, families and traditions.

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This puzzle was constructed with new campus buildings in mind.







## Close to Home

If you don't know anyone who has been touched by the opioid crisis, you're fortunate. You may also be surprised. At some point you may find that the crisis is actually closer than you knew.

You may learn that an in-law is struggling, and the spouse of an acquaintance, and the relative of a co-worker. That's how it happened for me.

The "crisis" isn't exactly like the story that appeared in *The New York Times* in October. That retold, in lurid detail, the sad state of Kensington's unhoused addicts, living in the shadow of the El in a real-life "Hamsterdam." Photos taken for the paper by Drexel alumnus Jeffrey Stockbridge '05 show people living desperate half-lives.

Or, maybe it is exactly like that. "A lot of people first came to Kensington because a car accident or surgery had left them addicted to painkillers," the *NYT* author wrote.

Either way, the problem isn't confined to a filthy tent city by the tracks anymore. An overdose can happen anywhere, an addict can be anybody, and the only antidote is Narcan.

In April, the Surgeon General Jerome Adams issued an advisory recommending that Narcan be made more freely available, but not all states have laws that ensure access to it or that protect health care professionals who distribute it to laypeople. In Pennsylvania, Narcan can usually be obtained by the public at a pharmacy, but it may not be available for pickup on the same day.

This edition's cover story describes a program that gets Narcan directly into the hands of bystanders, many of whom never expected they'd have to contend with a deadly situation on their own doorsteps, inside their storefronts, or within their families. The Naloxone Outreach Program was created by College of Medicine students who visit Kensington on training missions to help residents spot an overdose and safely administer treatment. They're now also teaching other students in health profession programs around the region, who in turn teach others, in what writer Ben Seal calls "a beneficent pyramid scheme built on the best of intentions."

Philadelphia may not be able to help appearing in a bleak headline in *The New York Times*, but I'm proud that Drexel produces the kind of people who will step up and do something about it.

As always, thanks for reading.

*Sonja Sherwood*

Sonja Sherwood



### ABOUT THE COVER

Illustrated by Brian Stauffer.

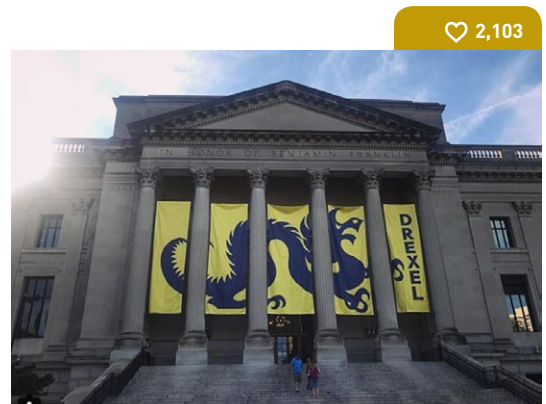
### SOCIAL



736 127 26



A hearty congratulations to Drexel alum Christopher Ferguson for being selected to command NASA - National Aeronautics and Space Administration's first launch of astronauts from U.S. soil in 7 years. #GoDragons 🚀



2,103



**Sept. 17 @drexeluniv** We officially welcomed 3,300+ incoming freshman from 61 different countries and 40 different states in the US at the 2018 kick off event yesterday! 🇺🇸 #Drexel #NewDragons 🐉



**Aug 28 @EricTopol** A frugal innovation @iBreastExam performed anywhere in a few minutes for \$1-4, w/o ionizing radiation <https://www.nytimes.com/2018/08/28/opinion/detect-breast-cancer-developing-countries-asia.html> ... by @SophCousins @nytopinion w/ peer-reviewed validation, @drexelbiomed

**Aug 10 @NLL** Big thank you to @DrexelSMT and @LeBow students for conducting a research project for the #NLL! They met with @NLLcommish and CMO @ashleydabb11 to discuss their findings on this fine #Friday! #sportsbiz #research #sportsmanagement #education #business #drexel #philadelphia

**Aug. 15 @SelectPHL** Congratulations to @Drexel for being named one of top 100 universities in utility patents worldwide! #GreaterHere: <http://chmbr.biz/Momentum>

**Aug 7 @excitecenter** The Magnetic Resonator Piano, developed in part at @DrexelUniv, is featured in the soundtrack of the new movie, Christopher Robin! Our Summer Music Technology high school students will experience this instrument and similar #MusicTech projects all week long. #SMT



# Drexel

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CROSS WALK

CO-OP

# Road Test

This isn't your ordinary work commute. Joseph DiSalvo submitted this photo to the annual co-op photo contest run by Drexel's Steinbright Career Development Center. Each day he pedaled a bike that he designed across this bridge to reach his co-op with the Portal Bikes Workshop in Kathmandu, Nepal — the ultimate road test.

**SECOND PLACE / @WORK CATEGORY**  
"Daily Commute"

by Joseph DiSalvo, a product design major in the  
Westphal College of Media Arts & Design









## PHOTO CONTEST (CONT'D)

**FIRST PLACE / @WORK CATEGORY**

**"Just Another Day at the Office"** by Yevgeniy Yakovlev, a data science major in the College of Computing & Informatics

**FIRST PLACE / @PLAY CATEGORY**

**"Love is Courage"** by Yu-Ann Wu, a PhD student studying health sciences and physical therapy in the College of Nursing and Health Professions

## CLUB SPORTS



The members of the Drexel Quidditch Club practice on Buckley Field during spring term.

# Games for Gryffindors

Many students at Drexel University play club sports, but there's only one that was founded in fiction.

Quidditch is the sport that Harry Potter and his classmates play in the popular book series. Today, there are more than 500 real-life Quidditch teams in 26 countries.

Drexel's Quidditch Club was founded in 2010, but just this year the team was promoted from being a student organization to full-fledged club sport.

This fall, the Drexel Quidditch team registers with the United States Quidditch League, and will compete with colleges in the Mid-Atlantic region for a spot to go to regionals, or even qualify for nationals. Despite being new to this league, head coach Rajan Shah '17 says that the Drexel team has already played against a number of well-recognized competitors.

"We've been fighting to be a club sport since our founding," says President Izzy Sangaline '20. "Since day one, we've been like, 'Listen, we're a full-contact, co-ed sport. We need to make sure that we have access to the space, the equipment, the trainers.'"

There's a place for everyone on this team regardless of athletic experience or physical ability she says. The sport has three main positions: beaters, seekers and chaser/keepers (who both score and defend goals throughout the game).

To those who didn't grow up reading Harry Potter books, the positions may sound esoteric. And that's actually the case for some of the senior members of the Drexel team.

"I got into the Harry Potter series a couple of weeks before I started junior year and that was around the time of college applications," says Eden Skye Einhorn, a freshmen fashion design student who plays beater and seeker on the team. "I forget how, but I found out Drexel had a Quidditch team and that was one of the two reasons that helped push me to go to Drexel along with the Pennoni Honors College's honors program."



President Fry got into high gear for the Eagles Autism Challenge.

## PHILANTHROPY



# Bikes, Bucks and Autism

Torrents of rain pounded the pavement all across Philadelphia, but it didn't stop more than 3,300 people from running and riding to raise money for research in the inaugural Eagles Autism Challenge in May.

The event raised more than \$2.5 million for a trio of organizations that conduct autism research including the A.J. Drexel Autism Institute.

"I'm so grateful to the Eagles for their leadership, and to all the members of the Drexel community who helped make this event such a success," says President John Fry. "With new resources made available through the Eagles Autism Challenge, the A.J. Drexel Autism Institute will be able to enhance its research efforts and work even harder to smooth the path for those with autism."

## ENROLLMENT

# Another Year of Record Enrollment

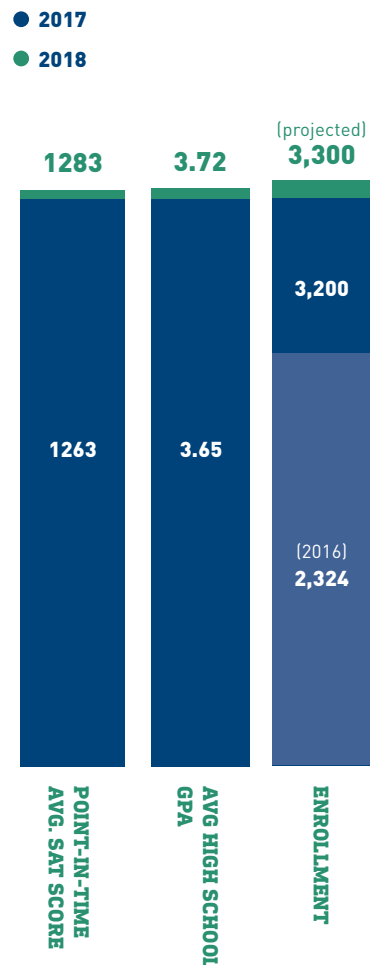
For the second year in a row, Drexel University accepted a record-breaking class of freshmen. The incoming class is both the largest and the most academically talented in Drexel's history.

More than 3,600 accepted students submitted deposits to Drexel to start as freshmen this fall, representing a 2.5 percent increase over last year's previous record of more than 3,500 accepted students (which was a 43 percent increase from the 2016 number).

These Dragons boasted higher test scores and GPAs compared with the 2017 and 2016 freshmen classes. This year's point-in-time average SAT score is 1283, which is 20 points higher than last year's average, and the median is 1290, which is 30 points higher than the 2017 median. The average high school GPA for this year's incoming class of freshmen increased by 0.07 points to 3.72, with the median increasing 0.05 points to 3.73.

The increase in the SAT scores and GPAs of the incoming freshmen and the high retention rate for current students demonstrates that the University is continuing to attract and accept qualified students who will join the ranks of a new generation of "right fit" Dragons and be more likely to remain at the University and ultimately graduate. Drexel implemented this successful new enrollment strategy in 2015.

"Several years ago, Drexel took the lead in responding to secular changes in national higher education trends, and our ability to exceed our enrollment targets shows our strategy is working," says Senior Vice President of Enrollment Management and Student Success Randy Deike.





The Science Center will expand its successful FirstHand program to guide local high school students like those pictured toward STEM-related careers.



## CAMPUS

## Miss Philadelphia 2018: A Scientist and a Scholar

Aimee Turner, a 23-year-old Drexel senior studying for an interdisciplinary science degree, was crowned the new Miss Philadelphia at the Feb. 24 competition held, coincidentally, at Drexel's Mandell Theater.

The Overbrook resident and custom-designed major in the Pennoni Honors College is the former Miss Montgomery County, and she competed in the Miss Pennsylvania competition in June.

Turner's interest in STEM learning, and prizes in the Intel International Science and Engineering Fair in high school, are the reasons why the Kentucky native has a full scholarship to Drexel.

"That was my golden ticket, so I'm really passionate about those disciplines," Turner says.

## COMMUNITY



## Story Medicine

A high-stakes Olympic race that results with no winner...A scientific experiment proving that yes, pigs can actually fly...

These scenarios — and many more — were dreamed up by patients at the Children's Hospital of Philadelphia (CHOP) and then written, acted out and animated by Drexel students. The finished projects were then screened at Drexel as part of the "2018 Patient Film Festival," to the delight of Drexel Dragons and the young CHOP patients and their families.

This performance project grew out of "Story Medicine," a community-based learning class taught by Nomi Eve, an assistant teaching professor in the College of Arts and Sciences' Department of English and Philosophy.

The students — drawn from multiple disciplines across the University — wrote plays and then performed them on-camera in CHOP's Seacrest Studio for shows that were then broadcast throughout the hospital. Children receiving treatment could participate in the show, but the Drexel/CHOP Story Medicine animation collaborative marked the first time that they worked with Dragons to create and storyboard their own original stories and watch them come alive through both live action and 3-D immersive motion-capture films.

The children's stories were animated through Eve's new partnership with Nick Jushchysyn, program director of animation, visual effects and immersive media in the Westphal College of Media Arts & Design. The children's four animated films were born out of two classes that were held during the fall 2017 term.

"These are kids for whom a lot of enrichment opportunities are out of reach because of their health challenges," Eve says. "But they have incredible imaginations and know how to use them! Knowing that we may have made some days a bit better for them is an awesome feeling."

## COMMUNITY

## \$5M Grant for Local Job Training

The Lenfest Foundation gave a three-year, \$5 million grant to University City District (UCD), the University City Science Center and Drexel to accelerate job training and career opportunities for local residents.

The goal is to prepare West Philadelphia residents for family-sustaining jobs today while equipping them with the skills and certifications needed to connect to the jobs of the future.

Through UCD's nationally acclaimed job training program, the West Philadelphia Skills Initiative, the partners plan to connect nearly 600 previously unemployed residents to careers over three years, which would result in over \$16 million in wages generated in the community. In addition, over 200 adults and high school students in West Philadelphia will attain credentials, certifications and exposure to STEM careers, setting them on meaningful pathways to employment.

The West Philadelphia Skills Initiative has already served over 800 job seekers and generated \$15.4 million in wages for previously unemployed local residents. Lenfest's support will enable UCD to build new training programs with the Science Center and Drexel, along with other employers in University City.





For more about Drexel's research enterprise, see EXEL Magazine at [exelmagazine.org](http://exelmagazine.org).

# Research

## GEOLOGY



## STILL, OR SEISMIC?

Scientists used to believe that East Antarctica was unusually seismically still. They now know better after a team that included Amanda Lough — then a PhD student but now an assistant professor in the College of Arts and Sciences — set up the first winter-through-summer seismic array. The instruments recorded 27 earthquakes in 2009 alone, tripling the total number of events previously recorded on East Antarctica. “Ultimately, the lack of recorded seismicity wasn’t due to a lack of events but to a lack of instruments close enough to record the events,” explained Lough, who is the lead author of a study in *Nature Geoscience*.

## ENGINEERING



### The Study of Slip

If you want to know how to make a sneaker with better traction in the rain, just ask a snake. That’s the theory driving the research of Hisham Abdel-Aal, an associate teaching professor in the College of Engineering who is studying snake skin to help engineers improve the design of textured surfaces, such as engine cylinder liners, prosthetic joints

— and yes, maybe even footwear.

## ARTS AND SCIENCES

### Physics on the Brain

Parts of the brain not traditionally associated with learning science become active when people are confronted with solving physics problems, a new study shows. The researchers, led by Eric Brewster, an associate professor in the College of Arts and Sciences, and Jessica Bartley, a graduate student at Florida International University, say that the

brain’s activity can be modified by different forms of instruction. “The neurobiological processes that underpin learning are complex and not always directly connected to what we think it means to learn,” Brewster says. The findings appeared in *Frontiers in ICT*.

## BIOMED



### On the Fly

An ideal human-machine system would be able to read its operator’s mind in real-

time, to know how well he or she was paying attention or able to process new information. Researchers are a step closer to that reality now that Hasan Ayaz, an associate research professor in the School of Biomedical Engineering, Science and Health Systems; and Frédéric Dehais, a professor at ISAE-SUPAERO in Toulouse, France, have measured the brain activity of pilots in real-time using functional near-infrared spectroscopy.

Their results appeared in *Frontiers in Human Neuroscience*.

## PUBLIC HEALTH

### Checks and Balances

The more frequently a hospital can check its newborns for deadly MRSA germs, the more likely it is that the bacteria will be contained. However, researchers noted that there are significant barriers to the frequency of this surveillance. “Infection prevention strategies are not cheap,” says Neal D. Goldstein,

assistant research professor in the Dornsife School of Public Health and lead author of the *Journal of Hospital Infection* study.

## NATURAL SCIENCES



### The Evolution of Defense

Plants adapt away from obsolete defenses according to a study in *New Phytologist* led by Tatyana Livshultz, assistant curator of botany at the Academy of Natural Sciences of Drexel University, and

an assistant professor in the College of Arts and Sciences. She found genetic evidence that multiple lineages of plants, whose ancestors produced a chemical that may deter herbivores, evolved to stop producing it, potentially as a response to a prime foe’s immunity.

## NURSING AND HEALTH

### Masking Injury

When making visual art during their recovery from traumatic brain injuries, military service members

who depicted psychological injuries like depression or anxiety in their artwork tended to have more acute post-traumatic stress disorder than those who used symbols of their military units, according to a research team led by Girija Kaimal of the College of Nursing and Health Professions and Melissa Walker of Walter Reed National Military Medical Center’s National Intrepid Center of Excellence.



Young Cho,  
inventor

# Seven Characters

INNOVATION

## THE STORY OF NO.

7 4 1 9,603

It can take an inventor years to receive an official U.S. patent, usually represented by a seven-digit number. But the full story behind most patents is much longer. Drexel Engineering Professor Young Cho spent nearly two decades experimenting with ways to improve on large industrial cooling systems before finalizing a patent in 2007. Now, his **wastewater treatment concept** is commercially available through a King of Prussia spin-off run by his son and Drexel alumni, and this is the story of how it came to be. — *Evan Bowen-Gaddy*

Each day, the United States uses more than **161 billion** gallons of water to cool factories, server farms and power plants. Power plant cooling is one of the largest economic necessities in the world, and yet, College of Engineering Professor Young Cho says many plants are using decades-old methods.

In **1990**, Cho began studying how to modernize and streamline cooling systems. When a power plant produces energy, it also produces heat. The solution for the past **100** years has been to dump that heat by evaporating water.

Problem is, every time water evaporates, a layer of minerals is left behind on machinery that makes the process less efficient on the next run.

For years, Cho looked for a way to reduce that scaling. He knew that many plants used chemicals to treat their water, and he wanted to move away from that.

"People use chemicals to solve a chemical problem," he says. "It just creates another chemical problem."

He toyed with putting magnets in the water, running an electric coil around the cooling tubes, but in the end, he found that the best method was simply to put **two** charged

plates in the tube, running an electric field through the water. This way, the minerals in the water would collide more and create large, soft matter that could be extracted.

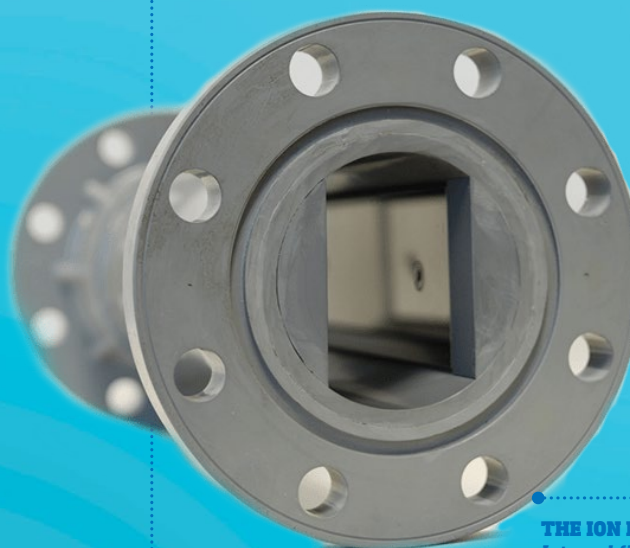
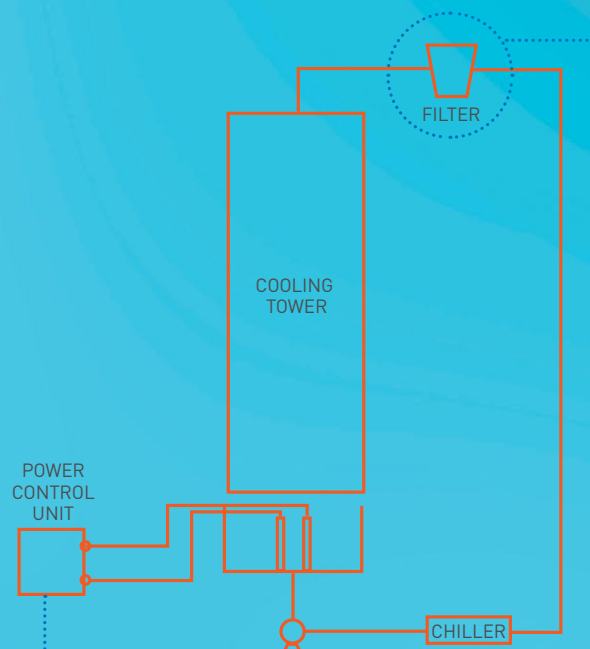
He had the concept down by the early **2000s** and a patent by **2007**, but didn't know how, nor have the time, to commercialize the idea. So he called up his entrepreneur son, Dan Cho.

In **2016**, Dan Cho helped license the technology from Drexel and form what is now Onvector, a King of Prussia-based company where he is CEO and his father is chief scientist.

He also brought on their business-minded president, and Drexel alum, Joe Henderson (BS computer science '08). Their wastewater treatment product is called Ion Pinch.

"I really appreciate Dan's involvement," Cho says. "As a professor, I've been a prolific inventor, but there's no chance for me to do commercialization. In a sense, he is making a sacrifice for me."

Last year, the team proved its concept with a field test of Ion Pinch at Drexel's Korman Center. The installation saved the center **\$7,000** that year and increased efficiency **11** percent, saving not only money, but water and energy.



**THE ION PINCH**  
Internal filters are made with polymer liquid crystal composite materials that can reflect a specific wavelength of light.



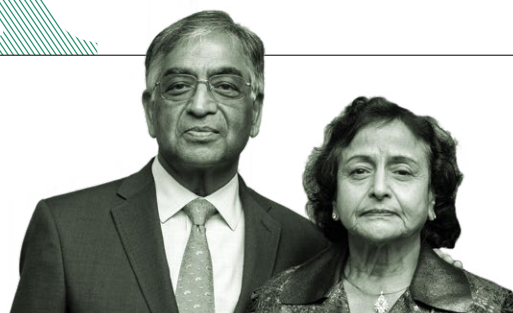
**HIGH-FREQUENCY**  
An electronic control unit produces an oscillating radio-frequency electric field that helps minerals drop out of the solution.

## AFEL OUTCOMES IN THE PROMISE NEIGHBORHOOD:

**26%**  
more local  
children  
enrolled in  
high-quality  
care

**48%**  
increase in the  
number of child-  
care providers  
to improve their  
quality rating

**13%**  
improvement in the  
average early liter-  
acy scores among  
West Philadelphia  
children



## COMMUNITY

# Raising Up Philly Kids

Two grants totaling \$2.6 million will support Drexel University's efforts to improve early childhood education in the West Philadelphia Promise Zone.

Promise Zones are high-need, low-income neighborhood regions around that country that have been federally designated for preferential loans and economic development. Drexel took a lead several years ago in helping parts of the Mantua and Powelton Village neighborhoods to receive the designation.

The grants will support Drexel's West Philadelphia Action for Early Learning Initiative (AFEL) over the next three years. Vanguard Strong Start for Kids Program awarded \$1.63 million to the program and the William Penn Foundation provided \$987,000.

The West Philadelphia Action for Early Learning Initiative is a Drexel-led collaboration of social service, education and community agencies working to create an education support system for local families to encourage kindergarten-readiness. AFEL was formed in 2014 with seed money from the Lenfest Foundation after a William Penn Foundation planning grant revealed a detrimental dearth of high-quality early childcare providers in the neighborhood.



## BUSINESS

# A Gift for Better Governance

The LeBow College of Business is at the forefront of preparing organization leaders to govern better — and that mission just received some help from a \$5 million gift establishing the Raj & Kamla Gupta Governance Institute.

Drexel alumnus Raj Gupta '72, chairman of Aptiv PLC and of Avantor Inc, and his wife Kamla invested \$2.5 million in the institute that will bear their name.

The Haas family and the Haas family foundations matched their gift, bringing the total investment in the institute to \$5 million.

The Gupta Institute will house the existing Center for Corporate Governance and the new Center for Nonprofit Governance, each providing world-renowned business leaders with dynamic governance insights.

Programming will expand not only to organizations in the nonprofit sector but also across disciplines allowing organizations at both the for-profit (public and private) and nonprofit sector to benefit from research at all of Drexel's colleges and schools.

It will serve as a neutral ground where industry and education meet to provide business solutions through its programming, knowledge-sharing and research.

"Their support will give Drexel national prominence in an important field with lasting implications," says President John Fry.

## CAMPUS

# A Podcast for Pop Pondering

A new podcast launched in November by the Pennoni Honors College called "Pop, the Question" brings an academic lens to the beloved but critically overlooked products of pop culture. Episode Two, for example, explored the deep intellectual layers of the 1988 classic movie "Die Hard."

"We were looking for a way to have a little bit more fun within academia," says Melinda Lewis, Pennoni's associate director of marketing and media. "We're human beings who aren't just defined by our work."

Lewis hopes the podcast can be a place where normally conservative researchers can unwind by bridging their interests and fields of study with popular movies, music, TV and celebrity culture.

Inspired partly by popular podcasts "Reply All" and "You Must Remember This," the show is supposed to be more like a conversation than an interview, Lewis says. She does background research and brings questions to the show, but doesn't try to stick too closely to a script.

"There's meaning in the stuff that we watch...[and] in the stuff that we listen to," Lewis says. "It's important to see how these works define us and impress upon us and what they say about the larger culture that we live in."



## STEM

## For the WINS

The Women in Natural Sciences (WINS) program at the Academy of Natural Sciences of Drexel University celebrated its 35th anniversary with a fundraiser on May 9 at the Academy.

WINS admits young women from public and charter high schools in Philadelphia and introduces them to careers in science, technology, engineering and math through hands-on workshops, college exploration and positive youth development.

For more than a generation, an accepted application to the WINS program has been like a golden ticket to high school graduation, with 97 percent of those who graduate continuing on to higher education.

Betsy Payne, who has managed the WINS program for more than 10 years, says the program doesn't seek out students with all A's who swear up and down they'll be future scientists.

"Our main audience are low-income, single-parent households," Payne says. "We are looking for those girls who don't have the opportunities otherwise."

About 60 percent of WINS graduates go into a STEM field, but even those who don't gain something unique from the experience, says Payne.

"They come out scientists," Payne says. "They can be the lawyer, but they will have a background in science where they're going to look at things in a different way. They're going to see the world more as something that's interconnected."



FASHION

# Insta-Famous Fashion

The following grew slowly at first, but today the Fox Historic Costume Collection has more than 28,000 fans on Instagram.

Collection Manager Monica Stevens Smyth started the @fox\_historic\_costume Instagram account in 2013. After a lot of strategic liking and commenting on more established accounts, the site received recognition in a post by *The Costume Society* called "10 Fashion and Textile Museum Instagrams You Should Be Following," and that's when its following took off. It now has about twice as many as Drexel University.

Like the rest of the Drexel Collection, the costume collection is a teaching tool for students and, as Drexel art instructor Howard Pyle put it in 1898, "a help to historic and artistic study." It holds roughly 14,000 artifacts, representing designers like Gabrielle "Coco" Chanel, Christian Dior and Elsa Schiaparelli.

"The goal is just to really get us out there. Internationally and globally, if you're not online, you don't exist."

— Monica Stevens Smyth of the Fox Historic Costume Collection

## CLASS OF 2018

## Cheers to 2018 Grads

The Class of 2018 toasted their graduation with a limited-edition beverage created by Saxbys: the Frozen Horchata, which is a Mexican cinnamon-vanilla iced beverage. The drink launched on May 22 and was available at Saxbys' two campus locations, both of which are exclusively operated by Drexel students. The winning flavor won out over four other finalist drinks after being voted on by the senior class.







Low-temperature plasma can keep fruit and vegetables free from bacteria — but it has the potential to do much more.

## RESEARCH

# 'One Word: Plasma'

A new research center at Drexel will work with industry to uncover early-stage applications for plasma technology.

Plasma is an electrically activated gas commonly found in neon signs, high-definition televisions and lightning. Researchers are experimenting with using plasma as a sterilization tool in medicine and food processing and in other applications ranging from water treatment to wound healing.

The newly established Center for High Pressure Plasma Energy, Agriculture and Biomedical Technologies is funded by a five-year National Science Foundation grant jointly shared by Drexel, the University of Michigan and George Washington University.

"By deepening our understanding of plasma systems and how they interact with their environment, this work will help expand the use of low-temperature plasma for applications such as food processing, agriculture, fuel conversion, medical and industrial waste water treatment, and many other new areas," says Alexander Fridman, director of Drexel's Nyheim Plasma Institute and a professor in Drexel's College of Engineering, who will serve as director of the new center.

The Nyheim Plasma Institute has been conducting plasma technology research and development since 2002, with projects ranging from water-to-energy conversion, air and water treatment, to medical applications.

## EDUCATION

# A Learning Salary



Drexel's School of Education is partnering with the School District of Philadelphia to support Drexel's Philadelphia Teacher Residency program, which will provide salaries, benefits and scholarships to aspiring STEM teachers. The agreement will support up to 20 students who will spend 12 months working side-by-side with district teachers while taking Drexel classes required for Pennsylvania teacher certification in middle school and high school math and science subjects. Upon successful completion of the program, students will be guaranteed teaching positions in Philadelphia schools.

The Philadelphia Teacher Residency program is a 12-month blended learning program. Students take an accelerated course schedule while working alongside a mentor teacher trained and selected by the School District and the University. Students can apply for teacher certification in middle level (grades 4–8) math and science or secondary level (grades 7–12) in biology, chemistry, earth and space, general science, mathematics and physics.

"Our teacher residency model is a tried-and-true program that sets teachers up for a long and rewarding career in teaching, and we are excited to prepare a new cohort of teacher residents," says Sara Ulrich, associate dean of Teacher Education and Undergraduate Affairs at Drexel's School of Education.

## FASHION

# Wearable Student Work

The painted silk design shown below was part of the graduate collection from Fashion Design student Xiaohan Zhou called "City in Thinking," which won Best in Show in Fashion '18, Drexel's annual fashion show, presented by the Fashion Design and Design & Merchandising programs in the Westphal College of Media Arts & Design. Studio 54, "Rocky Horror Picture Show," 19th-century circuses, and botanicals in urban environments were all inspirations for student collections featured at this year's show at the Urban Outfitters Corporate Headquarters at the Philadelphia Navy Yard.





# Show and Tell

CO-OP

## RYAN ROE

**SENIOR, TV PRODUCTION AND MEDIA MANAGEMENT '19**

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. — *Beth Ann Downey*

### THE CO-OP

During the 2018 Winter Olympics in Pyeongchang, South Korea, I worked as a sports entertainment administrator for the broadcasting team in the Gangneung Curling Centre, site of all of the Olympic curling events. I applied to be a volunteer at the Winter Olympics soon after watching the 2016 Rio Olympics on TV. I felt like this would be a once-in-a-lifetime opportunity to not only see, but participate in the Olympic Games. In between curling matches, I did team research and organized scripts for the broadcasters. During the curling matches, I delivered scripts, directed athletes and entertainers through the arena and directed audience games and giveaways. The most exciting moment was watching Team USA win the gold medal in men's curling on the last day. After three weeks of watching and learning all about the sport and meeting many of the athletes' families, it was the perfect way for my friends and I to end our time at the Olympics!

### THE TAKEAWAY

Working with professional directors, producers and broadcasters from all different countries showed me that opportunities to work in TV go way beyond Philadelphia, and even the United States. This job certainly taught me the value of being a good communicator and being flexible and self-motivating. Working with people who had completely different cultures — and even languages — was not easy, but it forced me to be flexible and work well with any team. I also gained a lot of great tips and experience from directors and producers who had been working in the field for decades. They gave me great advice for my future career in television.

### THE OBJECT

Everyone working at the Olympics, from the guy directing traffic to the executive producer, was given the Olympic uniform. It consists of a North Face jacket, mid-layer, shirt, snow pants and gloves. We were required to wear it on the job to show the spectators who we were and welcome them to ask us questions. It was really neat to see people from all different countries, ethnicities and jobs wearing the same uniform and working together. It symbolized that everyone at the Olympics was one team...and I think this uniform is a great example of the unifying spirit we all felt working there.

### OLYMPIC UNIFORM

- 1 NORTH FACE JACKET
- 2 MID-LAYER
- 3 SHIRT
- 4 SNOW PANTS
- GLOVES







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## NATURAL SCIENCES

4.17.18

DIORAMA  
RESTORATION AT  
THE ACADEMY OF  
NATURAL SCIENCES

The low-lit halls of the Academy of Natural Sciences are home to mighty bison, musk-ox, sleepy pandas, lions, tigers and yak — all frozen in time and place. Sealed behind glass and posed in perpetuity, they have stood in their life-like dioramas since these exhibits opened in the 1930s.

The exhibits were created to expose Americans to scenes of wildlife in far-flung corners of the world that they wouldn't otherwise be able to see, and they've been virtually untouched for 90 years. Until now.

In the winter, the Academy unsealed two of these tombs — the gorilla scene from a tropical African forest as well as the display of takins (a type of horned goat found in the Himalayas) — for extensive cleaning and repair. Visitors to the museum in the spring were able to watch from viewing windows as a crew of professional taxidermists and conservators removed, labeled, cleaned and replaced each piece. “Well-cared-for taxidermy can certainly last a very, very long time,” says Jennifer Sontchi, senior director for exhibits and public spaces at the Academy. “However, the effects of fluctuating temperatures, humidity and even visible light take their toll on taxidermy over time. Eventually, specimens become brittle and discolored.” —Jared Brey and Sonja Sherwood







Films and photographs of the process and final renovations are viewable on the Academy's Facebook page @academynaturalsciences.



TOMMY LEONARDI

## 1

### THE CREW

The crew, which consists of George Dante (on the left), a professional taxidermist and president of Wildlife Preservations, and Rachael Arenstein (on the right) of A.M. Art Conservation, are wearing Tyvek suits and respirators as protection against any chemicals that may have been used to preserve the specimens. For most of the past century, toxic preservatives such as arsenic, chromium and mercuric chloride were used to protect organic specimens from infestation and decay. The work area is sealed behind plastic and the air continuously filtered.

## 2

### THE REPAIRS

In addition to restoring the animal skins themselves, the Academy will be installing new lights and labels, repairing the background paintings, clearing away layers of dust and retouching or replacing artificial plants that have begun to sag or fade.

## 3

### THE METHOD

These flags mark places where marble berry plants have been removed from the exhibit. Each flag corresponds to a map created by the conservators to indicate where every plant, rock and specimen belongs. The marble berry is a metallic blue fruit often described as the brightest substance in nature, but these had faded to the point of looking like ordinary blueberries. Once their luster has been restored, conservators will consult the map and matching flag to replace each plant to its prior position.

## 4

### THE REVEAL

The renovated exhibit will be bright and clean — and also more authentic. For example, the swallowtail butterfly perched delicately on this leaf is out of place altogether: You'd never find one in the part of central Africa this scene is meant to depict.



FROM THE DAC

BASKETBALL

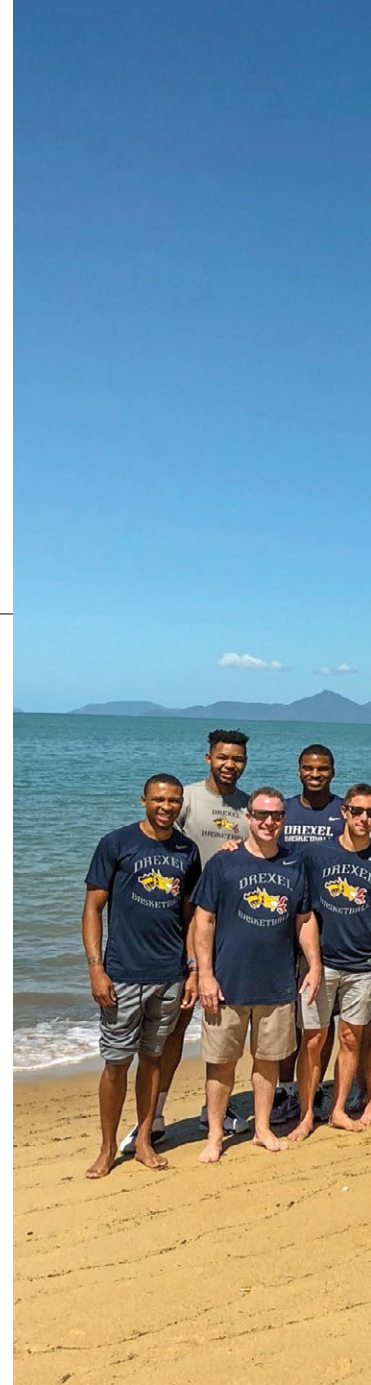
# Dragons Down Under

*Over the summer, the Drexel men's basketball team traveled to Australia to test their pre-season skills against four opponents in three cities. During the 12-day tour, the team soaked up Australia's natural sites, swam in the Great Barrier Reef, cuddled with koala bears and collected amazing memories. By Mike Tuberosa*

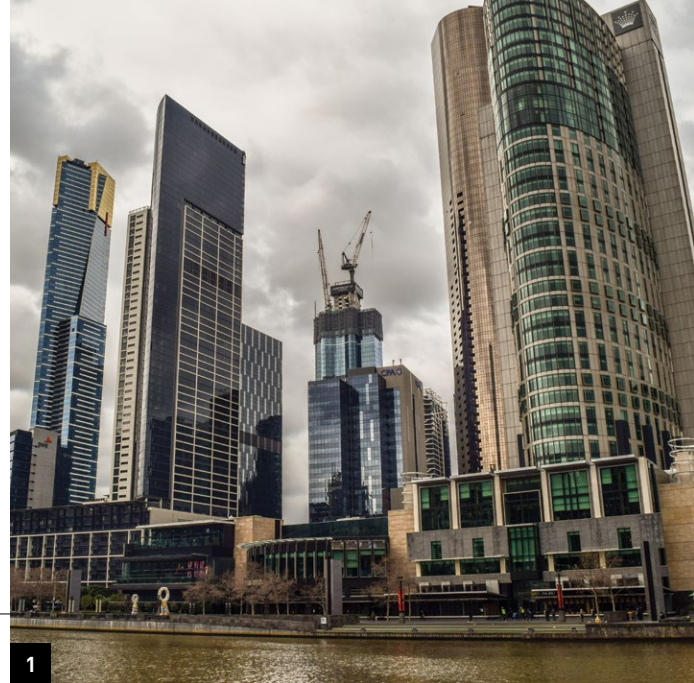
## MELBOURNE

Melbourne (photo 1) is Australia's second-largest city and one of its most commercial, so there were plenty of cafes and small restaurants to explore in the business district. With full stomachs and stretched legs, the team headed to the Ethiad Stadium (Photo 2) to watch Carlton play Western in Australian Rules Football.

Day 2 in Melbourne saw the Dragons get back on the court with a morning shoot-out at a local school. The workout wasn't easy, as the team was still adjusting to the 14-hour time difference. After getting back to the hotel and getting lunch on their own, the players loaded a bus for Dandenong (Photo 3) to face the Rangers (Photos 4 and 5). **III** The Dragons started off slow against the Rangers and trailed by 12 after a quarter. They fought back in the third quarter (the game was played using FIBA rules) and tied it up at 70, only to have the Rangers score right before the buzzer to take a two-point lead to the fourth quarter. In the fourth quarter, Dandenong went on a big run to start the period and the Dragons would not be able to catch up. The final score was 104-94 in favor of the hosts. **III** There were some bright spots for Drexel in its opener. Despite playing just 36 hours after an all-day trip to get to Australia, Drexel shot 38 percent from deep and 42 percent overall. Zach Walton had an impressive debut, scoring 22 points and making three three-pointers. Troy Harper added 20 points, while Alihan Demir chipped in with 12 points and seven rebounds. First-year players Trevor John (11) and Camren Wynter (10) were also in double figures in scoring. Junior Kurk Lee scored nine points and handed out a team-best eight assists.









## FROM THE DAC



See the entire journey and more images at <http://bit.ly/2NB12Vg>.



On the Dragon's final day in Melbourne, Drexel picked up its first win of the trip with an 86-76 win against the 24/7 All-Stars in front of a good crowd just outside of the city (Photo 6). The Dragons rallied after falling behind early and won the game going away. Demir had a huge game for Drexel. The junior scored 27 points, grabbed nine rebounds and handed out seven assists. Walton and Tadas Kararinas each chipped in with 10 points. James Butler came up with 17 rebounds, including nine on the offensive end. The Dragons shot 45 percent from the floor in the game. Earlier in the day, the team took a tram a few blocks away from the hotel and toured Melbourne Cricket Grounds (MCG). The stadium, which holds more than 100,000 for football and as many as 93,000 for cricket, was home to the 1956 Olympic Games.

### CAIRNS

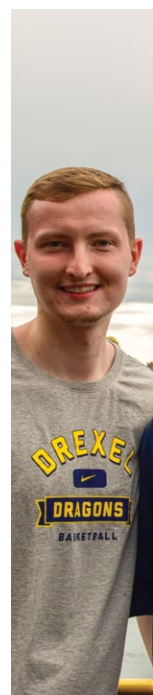
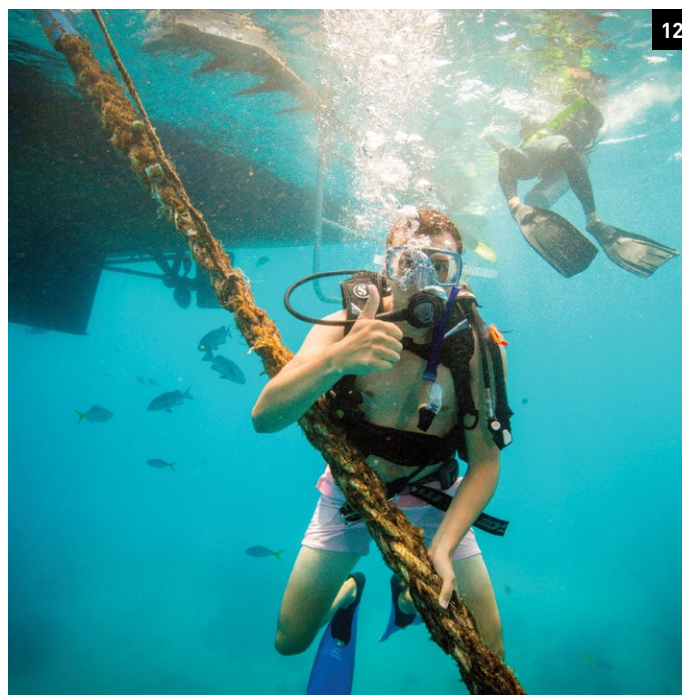
Wednesday was a moving day for the Drexel basketball team. After picking up a win the night before, the team got an early wake up call and headed for the airport to travel to Cairns (Photo 7).

This tropical beach town is something to remember. The day started off with a quick breakfast and then a 45-minute drive to Hartley's Crocodile Adventure (Photos 8 and 9). Hartley's is more than just your average walking zoo. As soon as you walk in the door, there is a koala habitat with koala bears just feet away. Within 10 minutes of being in the place, Drexel basketball players got a rare opportunity to feed kangaroos and wallabies in

their habitat. Australia is known for its deadly snakes and the team saw almost every one of them, including a taipan, cobra, death adder and an enormous python. The park had more than 20 crocodiles and they proved to be an impressive sight. A tour guide brought the saltwater crocs over to the side of the boat and they leaped up into the air with massive snapping jaws as the feeder dropped chicken into the water.

With all of the fun, the Dragons didn't have a lot of time to get ready for their game against the Cairns Taipans, the evening's opponent on the court (Photo 10). They grabbed a pregame meal and a few hours later were in a small, sold-out gym that was loud and excited to see the local team from the NBL take on Drexel. The Taipans play in the top league in the nation. The Taipans jumped out to an early lead, but Drexel fought back and played with intensity that would have made the fans at the DAC proud. Everyone played in the game as the Dragons fell to the Taipans, 92-76.

No one was dwelling on their loss to the Taipans the next day when the Dragons took a boat out to the Great Barrier Reef. This enormous coral habitat, one of the world's seven wonders, is all it is cracked up to be (Photos 11 and 12). The Great Barrier Reef is the only living thing on the planet that is visible from space. It's jaw dropping. This marine park stretches over 1,800 miles, which is approximately the distance from Philadelphia to Denver. The water is blue and clear down to the bottom. It took more







8



11



13



14

than two hours aboard to get to the reef, yet when we got out in the water and looked down, it was only about 30 yards to the bottom. In other spots, the reef went all the way to the surface. **|||** Every member of the team put aside their fears and jumped into the ocean, which is a little warmer than the beaches at the Jersey Shore. Everyone snorkeled and some even took it to another level by learning how to scuba dive. They were able to see amazing coral gardens, tropical fish, giant clams and even sea turtles.

### **SYDNEY**

The next day the Dragons hopped aboard a regional plane in North-east Queensland and touched down about 1,200 miles south in Sydney, the capital of New South Wales. Of course, the team made time for a guided tour of the Sydney Opera House (Photo 13).

The next day, the Dragons faced off against the Sydney Kings, probably the best-known team in the NBL. The Dragons got off to a rough start, making just three field goals in the first quarter. The Kings jumped out to a lead and led the entire way, downing the Dragons by a score of 79-52.

### **FAREWELL**

On the final scheduled day of the trip, part of the group braved strong winds to climb to the top of the 1932 landmark Sydney Harbor Bridge for some great views of the city. The vigorous climb was a fitting end to a trip packed with excitement and new experiences from start to finish (Photo 14). **|||** The trip gave the Dragons a chance to see what they do right and what they can do better. The coaches saw their players cope with tough competition and come together as a team — all of which gives them a jump on the competition in the 2018-19 season.









# Our Man in Canada

*The FIL Men's World Championships is essentially the World Cup of lacrosse, and representing all of Canada this year was one of Drexel's own: Ben McIntosh '14.*

*By Mike Unger*

Canadian Ben McIntosh '14 was born into a lacrosse family. His grandfather was involved with the Canadian Lacrosse Association. His father played the sport and coached Ben and his brother, Garrett. But there's another reason McIntosh, who starred at Drexel and now is one of the top professionals in the country's National Lacrosse League, gravitated to the sport over others.

"I was a lousy hockey player," he jokes.

Which is not to say he's not supremely talented with a stick. In July, McIntosh helped lead the Canadian national team to the final of the 2018 FIL (Federation International Lacrosse) Men's World Championships. While the tournament, hosted this year by Israel, ended in heartbreak for Team Canada, McIntosh, a midfielder, played fabulously. He finished the tournament with 14 goals and four assists in seven games, and he scored a pair of goals in the title game, which Canada lost 9-8 to the United States. For his efforts, McIntosh was named to the All-World Team.

Despite the hard-luck finish, the experience was a formative one for him.

"You're not playing lacrosse to make millions and millions of dollars, so one of the coolest things you can do in the sport is to represent your country," he says. "I don't know if I'd ever go to Israel other than for this tournament, so this might be something I get to do once in my lifetime."

McIntosh grew up in Coquitlam, British Columbia, which is outside Vancouver. Along with the Toronto area, it's a hotbed for Canadian lacrosse. When McIntosh was a kid, lacrosse was as much a part of his family as family dinners, so it was somewhat natural that when it came time for him to choose a college, he followed his older brother Garrett to Drexel.

It was a decision he does not regret. As a senior he led the Dragons to their first-ever Colonial Athletic Association championship.

"Ben is a great young man from a great family," Drexel head coach Brian Voelker says. "He worked really hard to become a great player; his junior and senior seasons were two of the best years that any player has ever had here at Drexel. Ben was a major contributor to our success in 2014. He was our best player that year, and he came up big in all of our important games. He's definitely the kind of player and person that we want representing our program."

After graduating in 2014 with a degree in international business, McIntosh was the first overall selection in the NLL draft. He's played four years in the professional indoor league — winning three titles, including this year's with the Saskatchewan Rush. Like most other NLL players, he has a full-time job as well. He still lives in Coquitlam, where he works in business development for his family's kitchen design company, Genesis Kitchens and Design. He travels and practices on Fridays, plays in the game on Saturday, and returns home Sunday.

"The league is growing in popularity," he says. "We pull in 14,500 (fans per game), and our stadium holds 15,000. It's fun to play in front of all those people."

Lacrosse runs in McIntosh's blood, so he wants to remain involved in the sport in some way for the rest of his life.

"I want to see it grow," he says. "As soon as I can't perform because I'm getting older, then I want to coach. People get hooked on the game when they come to watch. I get so many comments about, holy smokes, that was the first time I've ever seen a lacrosse game and it's so fast. Watching it is so exciting. I think the game speaks for itself."

Ben McIntosh's play certainly does.

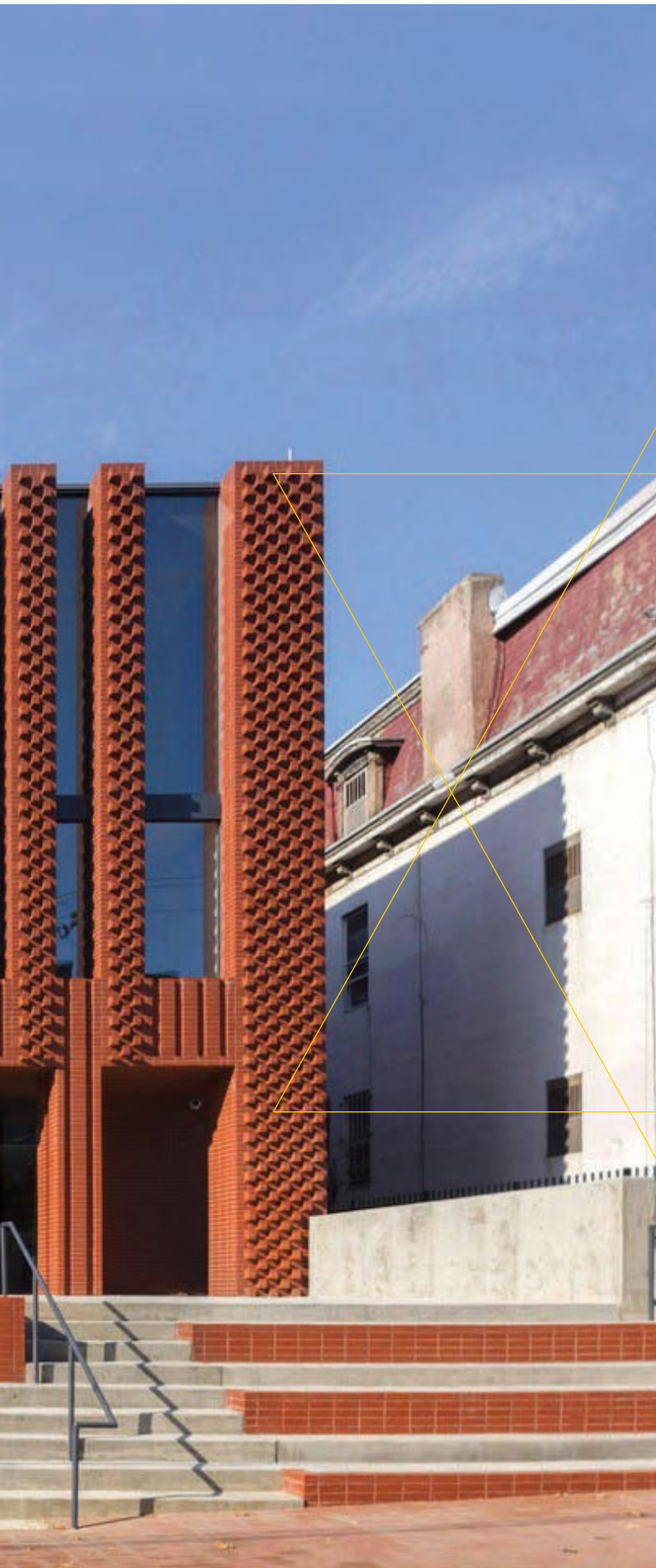


**1 EXTERIOR VIEW** Architect Stanley Saitowitz designed the exterior to reference both a prayer shawl and the lines of a menorah. This past Hanukkah, a Drexel student configured event lighting to illuminate each window every night as the stars appeared. "It was fun and subtle, and cool," de Koninck says. "It used to feel like we were sort of out of sight, and the only people who knew about us were in the know, but here, it feels like this is an easily accessible home for our students, and also feels like Hillel is a valued member of the Drexel community."



RAYMOND G. PERELMAN  
CENTER FOR JEWISH LIFE  
DREXEL UNIVERSITY





COURTESY OF STANLEY SAITOWITZ

# A HOME FOR JEWISH LIFE

BY  
LAUREN  
HERTZLER

Drexel's newest cultural building was a long time coming: After years of bouncing around various temporary shelters, Drexel Hillel now has a permanent home in the vibrant and lively, accessible and inspiring new Perelman Center for Jewish Life.

**O**RGANIZED JEWISH LIFE at Drexel dates back to the 1920s, and Hillel got its start on campus in the '30s and '40s. But it wasn't until about a decade ago that efforts to create a more permanent center for Jewish students ramped up enough to shape what is now the Raymond G. Perelman Center for Jewish Life — the first standalone facility of its kind at the University.

For years, Drexel Hillel's base bounced around different spaces on campus; most recently it was at the Paul Peck Problem Solving and Research Building. "A long time coming," says Campus Rabbi and Hillel Executive Director Isabel de Koninck, of Drexel Hillel getting a place to call home.

The \$10 million, 14,000-square-foot space — named for its major donor, Philadelphia-area philanthropist Raymond G. Perelman — opened its doors during Rosh Hashanah in 2016, and it now serves Hillel's 650 students through direct programming and sees more than 1,000 visitors a year. It's a comfortable and welcoming facility for students, faculty, staff and alumni to enjoy holiday services and weekly Shabbat dinners, Jewish education programs, programs facilitating opportunities in Israel, and much more, says de Koninck, adding that although it's a hub for Jewish life, it's also open to any student who wants to visit.

Located at 118 N. 34th St., amidst the Victorians and rowhomes on the north side of campus, the Perelman Center can be spotted blocks away by its stunning architecture, which has earned kudos for its unique design. Architect Stanley Saitowitz drew upon his own Jewish faith and also took into account Drexel students' input "from day one," de Koninck says, when designing the building.

"Because Stanley came from a significant Jewish background, it was easy for him to understand what the students wanted, and translate that in his unbelievably talented, aesthetic way to something beautiful and functional," says de Koninck. "Those are the kinds of things that make the space really special."

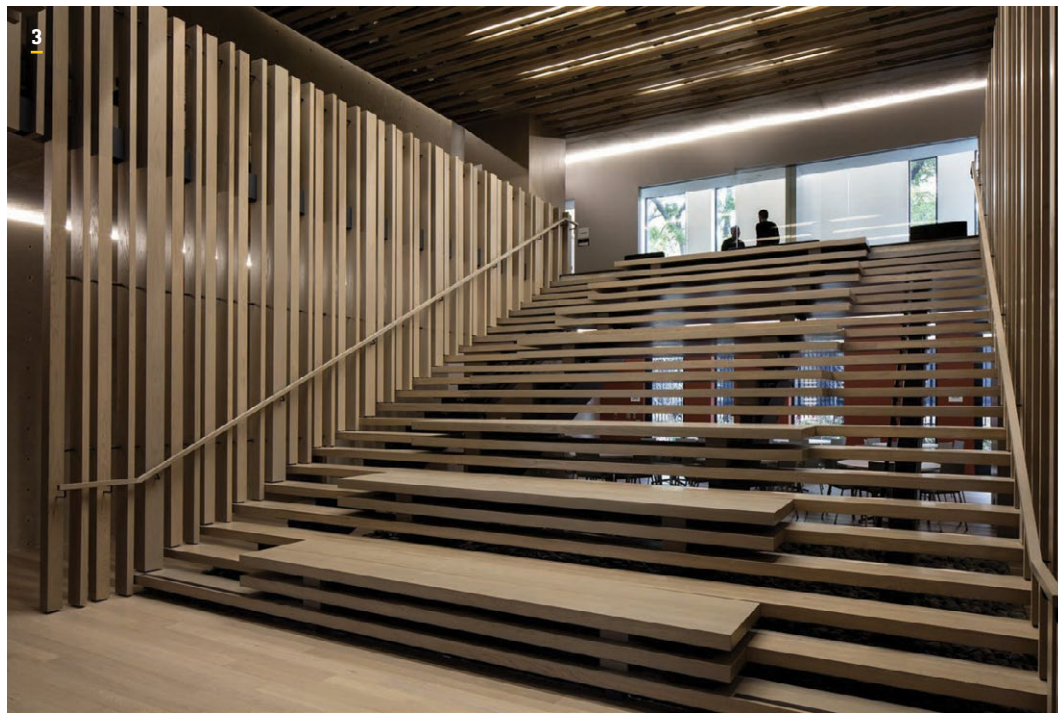




**2 FIRST FLOOR LOUNGE/FIREPLACE** The Perelman Center is open Mondays through Fridays from 8 a.m. to 9 p.m., but it is frequently open on weekends, too. At any given time, de Koninck says, “It’s a bustle.” The first-floor lounge and community space boasts a fireplace that “students turn on all the time,” she says. “Students walk in, they plop down. It’s home.” In the summer, instead of having a formal Shabbat dinner in the Green and Fishman Families Dining Room, they’ll often do something more relaxed — moving two-top tables in front of the Ross Amphitheater, which faces the fireplace. “It feels a bit like a bistro,” de Koninck says. When the building becomes transformed for big parties, this space becomes the epicenter of the action.

**3 ROSS AMPHITHEATER** As soon as one steps inside the Perelman Center, the intricate Ross Amphitheater that occupies the center stairwell can’t be missed, or soon forgotten. Smack dab in the middle of the first floor, the particular space — perfect for film events or speaker series — can seat about 90 people and is used all the time. This past spring, world famous chef Michael Solomonov joined Drexel Hillel for an event, sharing his love for Israel through food. An interview in the amphitheater area was followed by a candle lighting ceremony to observe Yom Hazikaron, and then everyone was served a free dinner catered by two of Solomonov’s Philadelphia restaurants, Goldie and Dizengoff.





**4 OCULUS** Passing over the second floor — which is home to the Geltzer Student Lounge, as well as the Danziger, Kamens and South meeting rooms, and office space for Drexel Hillel’s staff — the third floor is anchored by its circular outdoor courtyard, named the Oculus. Light pours inside its glass walls from the aperture to the roof, which is open to the sky and the elements. Students often enjoy lunch outside here and sometimes, students will ditch the furniture, swapping it for yoga or other events under the sun or stars. “It’s a nice, quiet space for reflection and for gathering,” says de Koninck. The walls of the Oculus have also been used as a canvas for a gallery, recently displaying retired Drexel fashion design professor Renée Weiss Chase’s fabric arts Judaica collection.

**5,6 CHAPELS** The third floor also is home to the Scheller, Fromm and South chapels, which cater in different ways to students from orthodox, reform or conservative backgrounds. The largest, the Scheller Chapel, is where Drexel Hillel hosts non-denominational, egalitarian, high holiday services. Between 70 and 90 people will fill the sanctuary to capacity, and throughout the course of those services, many stories of meaning and transformation are often shared, creating a “high spiritual mode,” says de Koninck. On a day-to-day basis, the Scheller Chapel, which houses Drexel Hillel’s library, is set up with large tables, meant for studying. At the end of the school year, lounge furniture has been moved up to the space to create a “private lounge” feel. It’s also been a space for wedding receptions for alumni, as well as award ceremonies.



minors with

*Young entrepreneurs from local Archdiocesan high schools competed for cash at Drexel this past spring in the Charles D. Close School of Entrepreneurship's inaugural Rising Starters business plan competition.*

# MAJOR IDEAS

By Beth Ann Downey





**I**T'S HARD TO TELL FROM AFAR, but up close, one can see that Zachary Kelly's glasses are taped on both sides and smack dab in the middle. This, he reveals later, is a bit of showmanship.

The 16-year-old sophomore from Bonner Prendergast Catholic High School is one of dozens of teenagers from Philadelphia Archdiocesan schools gathered in Behrakis Grand Hall on Drexel's University City campus to pitch their business ideas at the inaugural Rising Starters Competition created by the Charles D. Close School of Entrepreneurship. Kelly runs his fingers over the tape as he rocks slightly in his chair. It's time to focus.

Kelly has made it to the final competition with hopes of winning a cash prize for ReadAble, a service he invented that facilitates in-person readings or custom-request audio files of reading material for individuals with mobility difficulties. He got the idea after spending a stint in the hospital where he depended on others to help pass hours of inactivity.

"It works well for students because you could send notes," he said of ReadAble's business model, "but the way I came up with it is the person-to-person interaction — the feeling of having someone to talk to."

Kelly takes the stage. His presentation is dynamic — one of the only to include music and a demo. His PowerPoint is sprinkled with photos and quotes from real and fictional superheroes — more nods to Superman like his taped glasses — to send a message about his service coming to people's rescue.

He's even wearing a Superman suit under his regular clothes that he plans to reveal in a grand finale. The Clark Kent disguise was a hit with kids at his high school. But today, things don't go as planned. He runs out of time, and in the end, ReadAble doesn't make it into the final round.

But Kelly is in good spirits. He resolves to take what he learned from the winning presentations — like firming up his revenue projections, incorporating graphs and maybe working with a team — and perhaps enter the contest again next year.

"Entrepreneurship is about failure," says Nick Bayer, founder and CEO of the Saxbys coffee chain and adjunct professor in the Close School, during his keynote address. "We go along in life for so long trying to not fail, and entrepreneurship really does the opposite. It is the idea that you're going to fail, you're going to fail repeatedly. Can you pick yourself back up, and can you go back and not just compete, but compete with an even bigger smile on your face? Compete with even more energy to go out there and make a difference?"

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ONLY TIME WILL TELL if the students pitching ideas today will go on to compete for bigger prizes in life, but starting them on that path is the point of the program.

"All those involved with bringing Rising Starters to fruition share a collective goal to ignite an entrepreneurial spirit in high school students," says Donna De Carolis, who has served as dean of the Close School since its founding in January 2013. The Close School is the nation's first degree-granting school of entrepreneurship that is independent of a business school; in five short years it has earned a place among the "Top 25 Undergraduate Schools for Entrepreneurship" by *The Princeton Review*. This fall, it will welcome its largest freshman class yet.

De Carolis believes that entrepreneurship education empowers everyone, and through Rising Starters, she aims to share Close School's unique focus on developing an entrepreneurial habit of mind — an innovative approach to thinking and doing in life and profession.

This type of programming isn't just about the idea, according to De Carolis. "Rising Starters is about leadership skills, teamwork, effort and innovation," she says.

Not every high school has entrepreneurial programming, and many are seeking more ways to inspire young people to be self-starters. Drexel co-organized Rising Starters with Faith in the Future Foundation, which operates the local area's 17 Archdiocesan high schools. The foundation's

support helped the program reach high schools that are less likely to have entrepreneurship programs of their own.

The competition awarded a total of \$5,000 in cash prizes to three winning individuals or teams to be used however they wished. But the contest's most enduring reward is how it builds character, says Damian Salas, assistant dean and teaching professor for the Close School. An entrepreneurial mindset harnesses one's ability to think differently and disruptively to advance organizations and solve challenges, he says, and it applies to everything from marketing to computer science.

"The skills learned at the Close School aren't just about starting a company," says Salas. "We teach students about resilience, initiative, creative thinking and social responsibility. We work with students to take their ideas and make them a reality."

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DURING THE 15-MINUTE break before the ultimate winners are announced, everyone is on edge.

Perhaps most anxious of all is Edith Kirk, an entrepreneurship teacher from Archbishop Ryan High School, who let out a cry of excitement when her students were called to present their idea for a no-fuss hair gel comb in the final round.

"I feel like I'm walking on air," she says.

"Entrepreneurship can be used as a spring board for any career," she adds. "Even them getting up there tonight and speaking in public, developing something and following through to its fruition, those are skills you can use in any job."

Other ideas contending today include a SEPTA smartphone app, an apparatus to house and charge multiple electronic devices, and a web service that helps students match with volunteer opportunities.

Finally, the top winners are announced. Third place: Little Flower Catholic High School for Girls. Second place: West Catholic Preparatory High School.

First place goes to Bishop Shanahan High School, for a peanut butter jar with a built-in squeegee that scrapes up every last drop. An onslaught of photo-taking commences.

"This is amazing," says winning team member Faith Busanic. "I can't believe we've come this far from January."

"I'm just shocked," says her teammate Michael Skros.

When asked what they plan to do with the winnings, the seniors look at each other questioningly. They feel lucky to have simply made it this far, given that Hailey Gibson's idea for a self-scraping peanut butter jar had actually been turned down by other groups she tried working with during a similar competition last year. "No idea is a dumb idea," Gibson says.

Rising Starters judge and adjunct professor Roger Lee '12 says he could see at least half of the ideas submitted to the contest one day going to market.

"Don't give up," he told the contestants who didn't win. "There are going to be so many 'nos' along the way, and I could just tell a few of you were used to 'yeses' all the time, and unfortunately that's not life. Keep going, and don't let age be a factor. Yes, you're a minor, but so what? You've got major ideas."

**And the top prize goes to.... Hailey Gibson, Faith Busanic, Michael Skros and Shaun Vassil, for coming up with a peanut jar squeegee.**








# OF HIPPOCRATIC OATHS AND ANTIDOTES

The medical students behind Drexel's nascent Naloxone Outreach Program visit the storefronts of the Kensington section of Philadelphia, bringing first-aid training and Narcan to the shopkeepers, clerks and waitstaff who have become unwitting first responders in the opioid overdose crisis.

**BY BEN SEAL**

**ILLUSTRATIONS BY  
BRIAN STAUFFER**



IN THE QUIET REAR SEATING AREA of Sherry's family restaurant in the Kensington section of Philadelphia, a Drexel College of Medicine student is prone on the tile floor, wedged between a pair of marbled green four-tops, unconscious.

Or pretending to be, rather. He's playing the role of a drug user who has overdosed on opioids. Close by, a small group of his classmates show a waitress techniques to safely revive him.

As Sean Welch '20 lies on his back, Kathleen Nelson '20 positions his arms just so, extending one over his head and tucking the other under his cheek, so she can roll him onto his side and eliminate the risk that he will vomit and choke. Moments later, Camille Singh '20 uses a dummy to show Yolanda, the waitress, how to tilt its head back and administer short, five-second rescue breaths, while Kristina Thompsen '20 shows her how to administer naloxone, a nasal spray that reverses the effects of opioids and opens a window to survival.



The lesson pauses briefly as the Market-Frankford elevated train rumbles over Kensington Avenue on its way to the Tioga stop a block north. Then another second-year student, Chris Fong '20, describes the nodding off and the arrhythmic breathing patterns that suggest an overdose. He tells Yolanda about the rigidity in the body that indicates the synthetic opioid fentanyl, not heroin, as the culprit. He advises her to tell emergency responders she's calling about an unresponsive individual, not someone going through an overdose. If you tell the dispatcher it's an overdose, help may come slower, he warns.

This isn't entirely new to Yolanda, a petite ball of energy despite being up since 3 a.m. on this blustery fall morning filling patrons' coffee mugs. She's seen overdoses in the bathroom of the diner, and on her own street, where neighbors live with addiction. She's seen the way people burst into anger upon being brought back, shocked out of their vegetative state, so she takes careful note as Fong demonstrates a delicate way to wake someone by applying pressure to their cuticle. When the training concludes, the students leave behind a couple doses of Narcan, the branded version of naloxone, and Singh gives Yolanda extra to take home.

This is Drexel's Naloxone Outreach Program (NOP) in operation. Since it began in spring 2017, students have conducted these informal community training sessions in over a dozen local businesses, distributing more than 100 doses of Narcan along the way. The students' collective effort has already saved several lives, and with no end in sight for the crisis, it will surely save more.

"What we've learned is that we can actually make a change," Singh says. "As students, maybe we don't know if we can make change until we're doctors, but we can actually do a lot."

# W

WHEN THE TRAINING IS OVER, Yolanda serves up a breakfast of tamales, French toast and Spanish omelets as Singh and her fellow Drexel Med students recall the program's origins.

Inspiration for NOP came from Prevention Point, the city's free needle exchange, and Streetside, a clinic that Drexel operates inside it. A classmate of Singh's who was volunteering at Streetside introduced her to Prevention Point's outreach coordinator, Elvis Rosado.

Rosado spins busily through Prevention Point dispensing warmth and wisdom in equal measure to

the staff and volunteers scattered throughout. The building, perched under the El like so much of life in Kensington, was once a church, and within its walls Rosado ministers to a diverse community in need.

Teaching people to reverse overdoses is among the simplest ways to reduce the epidemic's death count, which has risen to more than 2,800 Philadelphians in the past three years, including 1,217 in 2017 alone, according to the Philadelphia Department of Health.

"Elvis is one man trying to Narcan-train Philadelphia," Singh says.

In her first year at Drexel Med, she saw an opportunity to help him.

Singh established NOP under the umbrella of Drexel's Health Outreach Program, which provides care to underserved Philadelphians. Since their first rain-soaked foray into the community last March, the students have strolled up and down Kensington Avenue, handing out Narcan in shops and bodegas, auto repair businesses and thrift stores. The group grew from five to nine volunteer members in its second year, and now spends weeks coordinating each neighborhood outreach, stopping anywhere they can find someone who wants to learn and help.

Along the way, they've come to see that the portrayal of Kensington, regarded by many as a hard-luck neighborhood with a reputation as one of the country's largest open-air drug markets, rarely reflects the reality of the community.

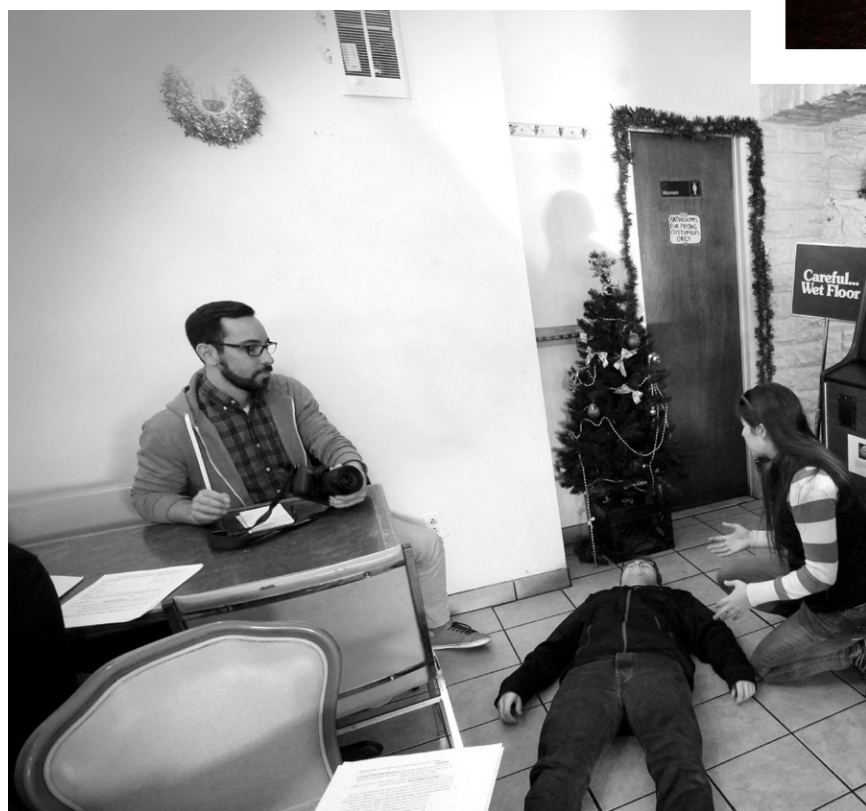
"I had no idea what to expect the first time, because all I've seen in the media is pictures of needles," Welch says of the first outreach event. "But it's like where I grew up. I'm sitting in a diner right now."

The students want to change the perception that Kensington is a war zone and that addicts are to blame for their own troubles. The scientific and medical truth, Fong says, is that addiction is no different than diabetes, hypertension or any other malady. It's a disease, one that requires close follow-up and management once diagnosed.

During breakfast, one of Yolanda's co-workers suggests that overdose victims deserve whatever fate brings them. Singh and the students see that sentiment as part of what needs to change in the culture.

"We need to do work to destigmatize addiction," Singh says, "because I can train someone, but if they think like that they're not really going to go out there and help."

"There is this understanding of addiction as a disorder of weakness, that people are just not mentally strong enough, or that there's some







sort of fundamental moral weakness within them,” Fong says. “This person is suffering with a disease, and if it’s treated properly and you have the right support system there, people can move past it.”

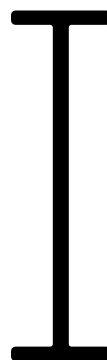
Welch understands this as well as anyone.

He had six wisdom teeth pulled as a high school sophomore and left the dental surgeon with a Vicodin prescription and several refills. He started self-medicating with the prescription narcotic, numbing the physical pain he felt and the mental pain of undiagnosed depression, until soon he was sitting in class counting the seconds until he could take more. When his mother found him unconscious the summer before his senior year, he quit cold turkey. He suffered nearly one week of severe symptoms as his body went through withdrawal, but he managed to do something so many opioid users never can.

“Any time we simplify a person to a one-dimensional caricature, we’re missing out on so much more,” Welch says. “To many, I was an addict or a junkie, but I was so much more than that.”

Singh asked Welch to join NOP after seeing him talk at a panel discussion he organized on the opioid crisis. His personal experience convinced him to help.

“I would have just been another onlooker in the epidemic, instead of taking it upon myself to fix a small part of this enormous issue,” he says.



#### NARCAN 101

Sean Welch lies on the floor pretending to be an overdose victim while Kathleen Nelson demonstrates the recovery position for two observers.

INSIDE DOLLAR DEE-DEE’S general store, a block south of Sherry’s restaurant, the team stops again, this time to train Howard, 51, a store clerk. Howard decided to take 15 minutes out of his shift stocking inventory to get instruction in the back of the store because he’d witnessed three or four overdoses just in the past few months.

Tucked in tight among rows of laundry detergent and greeting cards, Howard listens as the students describe the factors that can put opioid users at increased risk of overdose. Using drugs alone is especially risky, for example, and so is purchasing them from a new source. Fong tells him to watch out for a locked jaw — an additional complication, common in fentanyl overdoses, that can prevent rescue breaths from working.

When the training begins, Howard looks tentative, but by the end he says he feels confident he can deliver the dose of Narcan that Singh leaves behind.



She and her team promise to return soon. (The medical students check back at regular intervals with everyone they train, both to refresh their knowledge and to collect data on any revivals that take place.)

The program's volunteers don't track the identities of the people who use the Narcan they provide, partly because the trainings often achieve their goal indirectly. Those they teach have passed on their knowledge — and the Narcan — to other community members who have saved lives. This is exactly how the program was designed, as a beneficent pyramid scheme built on the best of intentions.

"In reality, any success we have had with this program is due to the community members stepping up and running with the little we are empowering them with, which is pretty incredible when you think about it," says Ann Carnevale. "We are simply providing them with the Narcan and a bit of education, and they then turn around and act in moments of crisis to save the lives of complete strangers. It's a real privilege to partner with people who are taking this epidemic into their own hands within their own neighborhoods."

Carnevale, now in her second year in the College of Medicine, has recently taken over leading the outreach program as Singh and her classmates enter their third year of medical school, full of rotations that make it harder to give the program full attention.

As NOP has grown, its reach has expanded. In addition to training Kensington residents, medical students now teach other students — 200 and counting — in health profession programs around the region, including at the University of Pennsylvania, the Philadelphia College of Osteopathic Medicine and Cooper Medical School in Camden. This spring 2018 the program did its first undergraduate training at Temple University. Carnevale says there are plans for many more.

NOP's members are in contact with the Philadelphia Department of Public Health to stay current on where training is needed. The communities most at risk tend to fluctuate, and sudden changes, like this spring's eviction of the heroin camps along Lehigh Avenue, can create community crises that make Narcan training more urgent.

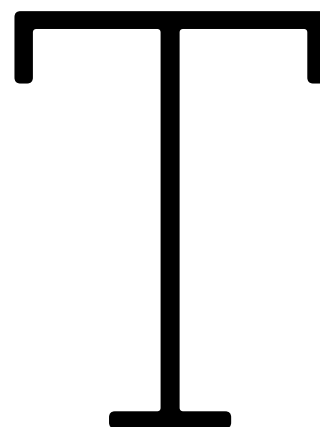
The program's vision is to spread knowledge far and wide to save as many lives as possible, wherever education is needed. The epidemic has no boundaries, and neither can the antidote.

"It's not just Kensington; it's never been just Kensington," Welch says. "It's everywhere."

#### MED CREW

(Back row, left to right:) Sean Welch, Chris Fong, Kyle Samson.

(Front row, left to right:) Yasmina Samaha, Camille Singh, Kristina Thompson, Alexa Profozich, Kathleen Nelson.



THERE ARE REMINDERS, over the course of a day, that fixing even a small part of the crisis is a challenge. A corner store employee who asked to be trained no longer works there, Singh discovers. There's someone interested at the 7-Eleven, but he's afraid of what his boss will think if the students approach him while he's working. Space is too tight inside a produce market and the owner doesn't want to disrupt her customers with a training.

But the program's reach is clear nonetheless. During a check-in at an exterminator where the students left Narcan on a previous visit, the woman running the shop asks for an additional dose that she can give to her father. Her stepmother has already had multiple close calls with fentanyl, and she doesn't want her father to worry that she'll die if an ambulance is slow in arriving the next time.

"You guys are the best!" she yells to the students as they leave.

By the end of a day on the avenue, Singh's voice has turned to a rasp, sapped by hours spent under the EL, where the lack of sun makes the day feel that much colder. She promises a return to a thrift shop where workers want training but are busy unloading a truck.

Singh displays a sureness in her conversations in Kensington, a level of comfort no matter who she's dealing with. She says some community members express disbelief that she would take the time to train them. It's a sign of just how thoroughly the crisis has cast out its victims.

"When we come here and talk to them and train them, they're like, 'I can't believe you're speaking to me,' and that to me is so hurtful," Singh says. "When people come into our office it's not our job to judge them, but to treat them and help them and make sure they stay alive until the next time we see them."

That's the driving ethos of the program, a sense that everyone deserves care, and that anyone can provide it.

"At the beginning of medical school, we all took the Hippocratic Oath, and we made a promise to ourselves and each other and our patients to do no harm," Nelson says. "I think inaction and staying silent is often a way of doing harm. This is a way of leaning into that promise we made."









DREXEL UNIVERSITY  
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BENEFICIAL SAVING FUND SOCIETY

BENEFICIAL SAVING FUND SOCIETY

HOME  
of  
Kline  
Institute  
of Trial  
Advocacy



*Drexel's new Thomas R. Kline Institute of Trial Advocacy in Center City is a stunning tribute to advocacy that seeks to remedy injustices by spurring accountability and reform.*

by  
**PAUL DAVIES**

photos by  
**HALKIN MASON PHOTOGRAPHY**

## P I L L A R S

*of the*

## C O M M U N I T Y

WITH LONG, DETERMINED strides, attorney Tom Kline walks past the granite-columned entrance and into the marble lobby of 1200 Chestnut Street, a 1916 Horace Trumbauer gem freshly buffed to a beautiful shine after four years of renovation under the hand of architect Jay Tackett. Formerly the banking headquarters of Beneficial Savings Fund Society, it had stood empty for more than a decade until Kline saw in its classical lines the promise of a modern purpose, and purchased it in 2012 to eventually house the new Thomas R. Kline Institute of Trial Advocacy. Today in one of his first tours since it reopened to the public, Kline is displaying it to a reporter, and it is magnificent.

The grand, larger-than-life lobby is a fitting setting for Kline, who is one of the country's most celebrated and renowned trial lawyers. In his career spanning over four decades, he has become known for obtaining significant jury verdicts and settlements that have positively and dramatically influenced corporate, institutional and government behavior. This reconstructed building, like Kline's life's legal work, represents positive and meaningful change.

"The Beneficial renovation is both a shrine to one of democracy's bedrock values, trial by jury — and to Kline's career," wrote Inga Saffron, *The Philadelphia Inquirer's* architecture critic, in a glowing review of the building in June. "Solid, neoclassical banks like Trumbauer's are often seen as architectural expressions of America's democratic values. In its new life as a law school, the renovated bank has become more than a symbol of those beliefs. It now plays a role in defending them."

The institute's location — just blocks from City Hall and state and federal court buildings — provides students of Drexel's Thomas R. Kline School of Law easy access to the Philadelphia legal community and makes it the only regional law school to have a Center City presence. The building dominates the cityscape in a neighborhood undergoing a transformation and resurgence.

For Kline, the new Institute of Trial Advocacy building is both an immersive legal classroom and a symbol of the approach to the practice of law embraced by Kline School of Law students and faculty.

"The building has an inspirational and aspirational aspect to it," says Kline. "It is designed to convey the role of the advocate in achieving a remedy that results in accountability and leads to reform."



Drexel's newest and most elegant academic building is a law school edifice unlike any other, thanks to Kline, who gave the building to Drexel in 2014 as part of a record \$50 million gift. The dramatic lobby where tellers once stamped deposit slips is now a grand reading room spanned by an intricately embossed 50-foot artisans' plaster ceiling, which has been restored to its original perfection under the auspices of the National Park Service and the Pennsylvania Historical and Museum Commission.

A staircase leads to a glass-enclosed grand courtroom overlooking the reading room that is punctuated by a 12-foot video screen and a state-of-the-art audio system surrounded by marble walls. The

building houses faculty and administrative offices, and four additional courtrooms/classrooms where on any given day one can find student advocates on their feet, examining witnesses and preparing opening and closing statements. The bank's original stately wood-paneled boardroom with a working fireplace is now meticulously restored and illuminated with pendant fixtures rescued from the Waldorf-Astoria hotel, and still boasts chairs that bear the sterling silver nameplates of its mostly Irish bank directors from an earlier time.

Even the custom-made carpet underfoot has a lesson to impart. Woven into its design is a passage from the Pennsylvania Constitution: *"Trial by jury shall be as heretofore and the right thereof remain inviolate."*

Outside, thick neoclassical 40-foot columns line the side of the building facing 12th Street. The entrance on Chestnut Street is flanked by two additional columns and imposing bronze entry doors, meticulously restored. "The procession up the short flight of steps into the soaring banking hall makes you feel like royalty," Saffron wrote.

Even before the institute opened, the Kline School of Law was on its way to securing a reputation for grooming the nation's best student trial advocates. Kline students won the prestigious Tournament of Champions in both 2016 and 2017, which is sponsored by the National Board of Trial Advocates. The Kline School of Law holds the title of having the first all-female team to win the American Association for Justice Student Trial Advocacy Competition in 2016. A Kline graduate won the Top Gun National Mock Trial Competition in 2018. Most recently, the school was ranked 4th in the nation in the Trial Competition Performance Rankings published by the Fordham University School of Law.

The trial advocacy curriculum is now being taught in this grand setting. Daily courses range from introductory and advanced trial advocacy to the taking of depositions, along with trial team training and practice.

"The building is set up to make us the best training facility for trial advocates in the country," says Kline School of Law Dean Daniel M. Filler.

The institute will take the law school "to another stratosphere," vows Gwen Roseman Stern, director of

the Trial Advocacy Program. "No other law school in the country has a facility like this. Tom is a pillar of an attorney, standing up for victims and justice, and the building will enable students to be trained to follow in his footsteps."

"The building stands as a monument to advocacy," Kline says. "As I have said many times to students at graduation, there will never be an oversupply of advocates and there will never be an undersupply of worthy causes."

Kline grew up in Hazleton, Pennsylvania, a small town that once thrived on anthracite coal mining. After graduating from Albright College in nearby Reading, he spent six years teaching middle school social studies. During that time, Kline received a master's in American history from Lehigh University and completed the coursework for a PhD before going on to attend and graduate from Duquesne University School of Law. In July 2017, Kline donated \$7.5 million to establish the Thomas R. Kline Center for Judicial Education of Duquesne University School of Law, which will provide ongoing legal education for state judges.

He clerked for the late Pennsylvania Supreme Court Justice Thomas W. Pomeroy Jr. before entering private practice. In January 1980, Kline moved to Philadelphia and worked alongside famed trial attorney James E. Beasley, after whom Temple's law school is named. Kline often remarks that he was trained at the "real" Beasley law school.

Kline worked at the Stephen Girard Building and the Beasley Building, both within a stone's throw of the Beneficial building, which he came to admire.

In 1995, Kline and Shanin Specter, a nationally prominent trial lawyer and distinguished law professor, left Beasley to establish the law firm of Kline & Specter, where he became known for his skillful examination of witnesses and moving opening and closing statements. Success followed success, and their firm now has more than 40 lawyers, including seven graduates of the Kline School of Law, and is considered among the most elite and influential of plaintiffs' personal injury law firms in the country.

Kline has been named the No. 1 attorney in Pennsylvania for 15 years running by Super Lawyers, an independent peer review rating organization, and is the only lawyer in the United States to hold such a distinction. Kline was recently named one of the nation's "100 Influencers in the Law" by The Business Journals. In 2016 he received the Michael A. Musmanno Award, the highest honor conferred by the Philadelphia Trial Lawyers Association to the person who best exemplifies "the same high integrity, scholarship, imagination, courage and concern for human rights" as did the late Pennsylvania Supreme Court justice. He also recently received the Lifetime Achievement Award by *The Legal Intelligencer*.

In addition to its numerous remarkable educational spaces, the institute building will house a motivational and educational exhibit hall created in a collaboration between Kline, designer Kim Tackett, and Rosalind Remer, Drexel's vice provost and executive director of the Lenfest Center for Cultural Partnerships.



1200 Chestnut Street was built in 1916 by famed architect Horace Trumbauer to house the Beneficial Savings Fund Society. For many years the bank operated it as an opulent vault for the savings for the city's rising immigrant labor force. But by the 1970s the property was losing its luster alongside midtown's falling fortunes, and Beneficial finally vacated it in 2001. Kline purchased it in 2012 and gave it to Drexel in 2014.

Visitors who pass between the building's ionic columns and marble threshold today enter an ornate lobby where the trappings of its Gilded Age origins survive as a spectacular setting for a new, more progressive mission.













The original boardroom created for Beneficial Saving Fund Society has been preserved as a conference room, complete with original wood paneling, working fireplace and chairs that still bear the sterling silver nameplates of the bank's board of directors.

On a second-floor landing overlooking the lobby is a glass-enclosed grand courtroom equipped with a 12-foot video screen and state-of-the-art audio system, to be used by legal students as space to practice courtroom arguments.

A statue of Philadelphia advocate Thomas Kline inside the entrance (pictured on page 41) holds a paper etched with the words: "Something good can come from something bad."











It is based upon the bedrocks of Kline's legal career, which is captured in four fundamental concepts: advocacy, remedy, accountability and reform. On both the first and fifth floors of the building, the exhibit weaves together the core components of Kline's career as an inspiration for aspiring attorneys.

The first of the four pillars of which the building and Kline's career have been built is advocacy. The exhibit focuses on Kline's advocacy in the courtroom and beyond the courtroom, the latter of which Kline describes as "the court of public opinion." Kline became the most prominent national spokesperson for victims of child abuse in his representation of a man known as "Victim 5" during the infamous sex abuse scandal involving Penn State University's former football coach Jerry Sandusky. More recently, Kline has represented the parents of fraternity hazing victim Timothy Piazza, and has become a tireless advocate for new state legislation that would set the nation's toughest penalties for hazing. In both endeavors, he has appeared in national news broadcasts and in every major newspaper across the country.

Kline's second pillar is remedy, something he has achieved for hundreds of clients for over 40 years. At the institute, he has chosen to display one letter of gratitude from one client, Linda McCalister, whose catastrophically injured child benefitted from Kline's skillful representation. That letter has the impact Kline hopes will motivate the advocates of the next generation.

Kline's third pillar is accountability, demonstrated throughout his career, and exemplified in the exhibit by his relentless pursuit of justice on behalf of victims of defective drugs and devices. He has successfully obtained jury verdicts against pharmaceutical and device companies involving many products in each of the four decades in which he has practiced law. Among many other examples, he played a key role in the national litigation against Merck & Co.'s Vioxx pain medication.

The final pillar is reform, and here Kline has presided over many cases that have led to lasting changes. One example is a case involving the Philadelphia police shooting of Phil Holland, an innocent victim, which resulted in a new training protocol for plainclothes police officers. It made the streets safer for the citizens of Philadelphia and those who police the city's streets, and provided a national model.

A reminder of one of Kline's most famous cases resides in a unique space on the fifth floor of the institute. Under a section of the floor, set behind glass, Kline and Tackett installed parts of an old escalator from a salvage yard to recreate *Hall v. SEPTA*, which involved a 5-year-old boy who lost his foot in an escalator accident. Kline held SEPTA accountable, ultimately forcing the transit agency to remediate and repair its

entire subway escalator system. From that case arose a phrase that Kline has often repeated: "Something good can come out of something bad."

As part of the building's restoration, Philadelphia architect Jay Tackett revived the building's original embossed plaster ceiling that soars 50 feet over the lobby and reading room.

The SEPTA case was followed later by Kline's advocacy in representing families of those who lost loved ones in the Pier 34 collapse in 2000 and in the Amtrak 188 derailment in 2015, both of which cases are also memorialized in the main exhibit hall.

These examples of a long and meaningful career provide a path for future generations of Kline School of Law students to follow. Beginning with students' first steps inside this grand edifice to the moment they walk for commencement, they will be standing on a solid academic foundation grounded in principles, purpose and the impact of a distinguished, accomplished and engaged faculty. The new institute building, as Kline sees it, is a cornerstone upon which faculty and students can build a prominent future in American legal education.





If you're interested in connecting with a current identity-based affinity group or would like to learn how to start your own group, contact **Janeile Johnson** at [JJJohnson@drexel.edu](mailto:JJJohnson@drexel.edu) or visit [drexel.edu/alumni](http://drexel.edu/alumni).

## NETWORKING

# Celebrating Shared Experiences

*Drexel University Black Alumni Council President Jerry Martin '77 talks about how identity-based affinity groups deepen the bonds between Dragons and their alma mater.*

At the culmination of his career, Jerry Martin '77 was a senior-level official in the U.S. Treasury Department, where he was in charge of regulating banks and holding companies in the United States and abroad. Now he's retired, but hardly slowing down. He's an avid traveler, collector of fine art, doting grandfather and can now

add president of the Drexel University Black Alumni Council, or DUBAC. As president, Martin hopes to use his personal experiences and skills to uplift others and give back to Drexel. One way he does this is by encouraging alumni and students to get involved with Drexel's affinity communities.

### What was it about your experiences as a member of DUBAC that inspired you to become the president of the group?

I have been committed to the success and growth of DUBAC since it was formed in 2014. I feel like my interactions with alumni and students have allowed me to better understand and carry out the organization's goals of fostering meaningful relationships between alumni, students and the University. I previously served as treasurer where — along with my predecessor Chantee Steele '13 — I had the honor of helping to develop the structure and goals of DUBAC.

### Looking ahead, can you share some of your goals for DUBAC?

DUBAC plans to host social and professional networking events throughout the academic year for alumni and students, and some events will focus particularly on young alumni. We hope that our annual event at Homecoming Weekend in January encourages recent graduates to get involved early in alumni and University activities. DUBAC also plans to roll out events for alumni outside of the Philadelphia region, starting with upcoming events around Washington, D.C., and New York City.

### In what ways does DUBAC serve as a resource for current students?

DUBAC is committed to meeting the needs of current students by collaborating with student organizations to help financially support their initiatives, by providing mentoring support and by engaging with students at events. Our alumni members have also come to campus to speak to student organizations and on occasions have let students know about job opportunities. During 2016, DUBAC established a scholarship that has been awarded to two exceptional students for the past two years. DUBAC is currently reaching out to undergraduate advisors, program managers and other department

heads to find ways we can collaborate on events that support undergraduate students.

### What types of events and programs does DUBAC host for alumni?

DUBAC currently hosts three core events in the Philadelphia area: two gatherings during Homecoming and Alumni Weekends, and a Women in Leadership Conference. Our Homecoming event promotes school spirit with emphasis on reengaging alumni. The Alumni Weekend mixer is our signature event in which we honor alumni with awards that recognize their support of students, Drexel and DUBAC. The Women in Leadership Conference supports topics that are of relevance to women in the workforce. Our inaugural conference was held during April this year, exceeding expectation with more than 150 alumni and student registrants. A dynamic panel of powerful women shared tips on how to identify mentors and sponsors that could strengthen women's roles and their influence in the workplace. This event was a successful collaboration between DUBAC, Drexel's Institute for Women's Health and Leadership, and the Drexel Black Graduate Student Union. We welcome the opportunity to partner with other departments and colleges to create meaningful programs that would benefit alumni and students.

SHIRA YUDOFF



## CROSS ROADS

### How does DUBAC support philanthropy and giving back to the University?

Donations from alumni have enabled DUBAC to support student programs, scholarships and other activities at Drexel. Our alumni have established scholarships in their names and supported the University's Campaign funding initiatives. DUBAC strongly supports Drexel's mission to be the most civically engaged university in the nation. We strongly believe in supporting local charitable events by giving donations, participating in walk-

athon events, and serving food to our local community. One of our most memorable volunteer experiences included volunteering at the Community Dinner for the Dornsife Center for Neighborhood Partnerships. This provided us with an

opportunity to volunteer alongside Drexel students, and connect with the residents of the surrounding Powelton and Mantua communities.

### You are an active volunteer across the University, not just with DUBAC. What is your personal motivation for staying involved with Drexel as an alumni volunteer?

Being actively involved at the University — whether supporting student programs, serving as a mentor or as a board member—

has allowed me to share my personal experiences, strengths and resources. Knowing I am having an impact at the University and on student lives keeps me motivated to stay involved with my alma mater.

### WHAT IS AN IDENTITY-BASED AFFINITY GROUP?

Identity-based affinity groups connect Drexel graduates based on their shared cultural, religious, racial or personal identities and provide them with opportunities to network and socialize, as well as celebrate their shared heritage or experiences.

### CURRENT GROUPS INCLUDE:

**Drexel Hellenic Alumni Network // Drexel LGBTQA Alumni Network // Drexel Muslim Alumni Network // Drexel University Black Alumni Council // Drexel University Newman Alumni Council // Drexel Veterans Alumni Network**

Jerry Martin meets with fellow DUBAC members, Melinda Johnson, MS '11, EdD '17, and Angela Harris, BS '02.





## 50s

**Robert A. Erb, MS chemistry '59**, published "Handbook for Realistic Silicone Prostheses" — a reflection of his more than 40 years of experience in anaplastology.

**Fred W. Ulmer Jr., BS business administration '57**, retired principal with the Brandywine School District, received the 2018 Golden Dragon Society Award.

## 60s

**George Campbell Jr., BS physics and atmospheric science '68, HD '00**, retired president of The Cooper Union for the Advancement of Science and Art, received the 2018 Golden Dragon Society Award.

**Nicholas DeBenedictis, BS commerce and engineering '68, MS environmental science '69, HD '87**, non-executive chairman of the board of Aqua America Inc., received the 2018 Golden Dragon Society Award.

**Frederick Schmidt Jr., BS metallurgical engineering '68, MS materials engineering '70, PhD '95**, retired senior managing consultant at Engineering Systems Inc., received the 2018 Service to Profession Award.

**Stanley Silverman, BS chemical engineering '69, MBA business administration '74, trustee**, founder and CEO of Silverman Leadership, wrote his 200th nationally syndicated weekly article published in the *Philadelphia Business Journal*.

**Norman Smith, BS business administration '69, MBA business administration '71**, received the American Association of University Administrators' 2018 Trachtenberg Award for Outstanding Leadership in Higher Education.

ROTC

# An Officer and an Educator



Over a decorated 21-year career in the Army, Lt. Col. Lawrence Camacho has been called to serve in many exciting locales. Bosnia, Egypt, Iraq...and in 2015 he arrived in Philadelphia, where he ran Drexel's campus Army ROTC program and taught military science as head of the Military Science department.

In July, Camacho retired from his post to start a new career in Guam, where he will serve as the dean of enrollment management and student success at the University of Guam, his alma mater. The role will also be a sort of homecoming for Camacho, who grew up on the neighboring island of Saipan.

"I love teaching, but I'd rather be in support of faculty and making sure that the students [follow through their] lifecycle," Camacho says of his new role. "To make them succeed in the end and graduate, that's what the institution wants, that's what society needs, and by all means that's why students come. So, we have to get people that are passionate. I believe I'm one of those people who are passionate to make sure that happens."

During his time running Army ROTC, Camacho built relationships across campus to elevate the

program. This included formalizing agreements at five local universities that partner with Drexel. He also established the Drexel ROTC Hall of Fame, and he reached out to other campus organizations such as the fraternity and sorority system to create new opportunities for cadets.

"He has just done a phenomenal job," Lt. Col. Stephen Messenger, who will take over for Camacho as the chair of the Military Science department at Drexel, said at Camacho's retirement event. "I want to take what he has done and improve upon it."

Camacho is also a new Drexel alumnus, having recently defended his thesis for a Doctorate of Education degree in educational leadership and management.

Rebecca Weidensaul, assistant vice president of Student Life in the Office of Veteran Student Services, says that Camacho's ability to balance his academics with active duty showcases that he has naturally embraced and mastered the military's learning culture.

"He's going to be amazing," she says of his new role at the University of Guam. "His heart is in it, he's passionate about it, he wants to go home and make an impact, and he will." — *Beth Ann Downey*





We're interested in hearing about your weddings, new babies, special traditions, group trips and regular get-togethers with fellow alumni. Send your class notes announcements to **Sara Keiffer** at [seb434@drexel.edu](mailto:seb434@drexel.edu).

**Richard N. Westcott, BS business administration '60**, wrote his 26th book, "Biz Mackey — A Giant Behind the Plate."

**Jerold J. Yecies, MD medicine '66**, was honored with the annual Lifetime Achievement Award from the San Joaquin County Medical Society.

## 70s

**Kenneth S. Kosik, MD medicine '76**, Harriman Professor of Neuroscience and co-director of the Neuroscience Research Institute, University of California, Santa Barbara, was elected a fellow of the American Association for the Advancement of Science.

**Jerry J. Martin, BS accounting '77**, retired senior federal bank regulator at the United States Treasury Department, received the 2018 Silver Dragon Society Award.

**Roseann Termini, BS human behavior and development '75**, served as the conference director and presenter at the All Matters FDA 8th Annual Food and Drug Law CLE at Widener University. She served on a symposium panel about the opioid crisis for the Center for Ethics and Rule of Law at the University of Penn Law School and she presented a CLE program on the U.S. opioid crisis for the Delaware Valley Bar Association.

## 80s

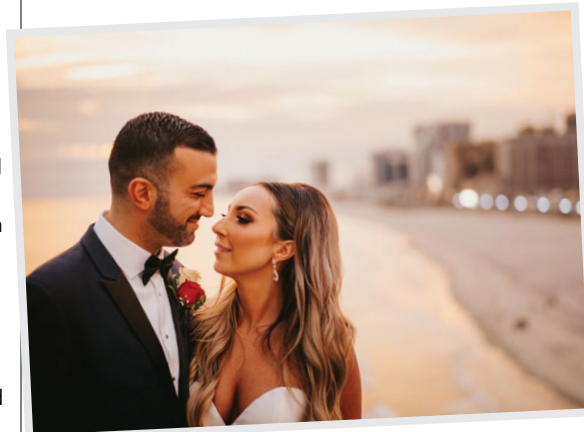
**Charles J. Barreras, BS history & politics '87**, founding partner at Chartwell Law, was named 2018 Pennsylvania Super Lawyer.

**Martin G. Belisario, BS mechanical engineering '85**, partner at Panitch Schwarze Belisario & Nadel LLP, was named a 2018 Pennsylvania Super Lawyer.

### WEDDINGS



**Jessica Raspa, BS business administration '12**, and **Anthony Wisniewski, BS civil engineering '12, BS architectural engineering '12, MBA business administration '14**, were married in Collegeville, Pennsylvania, on Oct. 28, 2017.



**Alexa P. Law, BS business administration '11**, and **Michael J. Bojekian, BS business administration '11** were married in Atlantic City, New Jersey, on Dec. 2, 2017.

**Afshin Daryoush, MS electrical engineering '84, PhD '86**, a computer and electrical engineering professor in Drexel's College of Engineering, received the 2018 Faculty/Staff Alumni Award for Campus Impact.

**Paul H. Demchick, BS chemistry '84**, oversaw the development of REAL.AC.NZ's new Postgraduate Diploma in Analytical Science Programme and accreditation by the New Zealand Qualifications Authority.

**Anthony Gold, BS electrical engineering '88**, co-founder and chief operating officer for ROAR for Good, received the 2018 Alumni Entrepreneur Award.

**Susan Hallam, MS library science '85**, founder and managing director of Hallam Internet, a digital marketing agency, was awarded an MBE in the 2018 Queen's New Years Honours in recognition of her contributions to entrepreneurship and innovation.

### BABY DRAGONS



**Jennifer Beden Deal, BS business administration '12**, and **Richard Deal Jr., BS business administration '12, MBA business administration '18**, had a daughter, Alexandra Lynn, on Feb. 28, 2018.



**Heather Corricelli Zackary, BS nursing '13**, and **Jon Zackary, MD medicine '14**, had their second daughter, Lillian Paige, on Feb. 8, 2018.



**Emily Hoesch Rumble, BS nursing '08**, and **Jesse Rumble, BS business administration '07**, had a daughter, Bowen Katharine, on Feb. 1, 2018.

**Kenneth E. Pitz, BS mechanical engineering '82**, was named president and CEO of RMF Engineering.

**Wendell C. Roberts, BS commerce and engineering '82, MBA business administration '86**, adjunct associate professor of education in the School of Professional and Continuing Studies at the University of Richmond, won the 2018 Itzkowitz Family Distinguished Adjunct Faculty Award during SPCS Night.

**Ronald Silver, PhD '81**, celebrates the following career achievements: joint recipient of two U.S. patents for development of the "smart" card; designer of life support monitoring systems on NASA's Biosatellite orbiting capsules; head of three



acoustic noise studies of highway-propagation characteristics in New York City; developer of the fiber-optic transducer to measure in-vivo arterial blood pressure and gasses in humans. Post-retirement with wife Joanne, he was honored by the French government as the founding technical director of Beach Lloyd Publishers LLC, publishing memoirs in French and English, of Holocaust and WWII survivors in France and Belgium.

**William T. Thomsen, MS engineering management '85**, was named the 2018 Philadelphia Civil Engineer of the Year by the Philadelphia Section of the American Society of Civil Engineers at the annual Spring Social.

## 90s

**Larry G. Arrington Jr., BS chemical engineering '91**, was named dean for advising and academic success at Delaware Valley University.

**Jeffrey Beachell, BS economics '93, trustee**, partner and investment officer at Veritable LP, received the 2018 Silver Dragon Society Award.

**Deanna Byrne, BS accounting '92**, will celebrate 30 years at PricewaterhouseCoopers. In 2017, she was named the first female managing partner in the 120-year history of the company's Philadelphia office.

**Sean Gallagher, BS finance '93, BS marketing '93, trustee**, partner, head of the U.S. Value Equity team and chief investment officer at Goldman Sachs Asset Management, received the 2018 Silver Dragon Society Award.

**Kristen Green Knouft, BS finance '93**, chief marketing officer at WizeHive, received the 2018 Silver Dragon Society Award.

**Matthew Hammond, BS civil engineering '99**, received the 2018 Service to Community Award.



CIVIC ENGAGEMENT

# Basketball for All

For Benjamin Kay, BS business administration '12, basketball is much more than a game. It's what keeps him focused and on the right path, both as a coach and as a good samaritan.

As a business student at Drexel, Kay spent countless hours playing basketball at the DAC. Women's head coach Denise Dillion took notice and asked Kay to be a practice player — scrimmaging and working drills with the team — which he did for four years.

"Drexel creates true student-athletes," he says. "They are students first, athletes second."

Kay applies that same philosophy to his role as the head men's basketball coach for Penn State Brandywine. With just one season under his belt, he has helped the team win its conference championship for the first time in 50 years — while significantly raising its GPA.

"The basketball part is easy," he says. "It's up to me to show my players discipline and leadership."

Each summer, Kay also travels more than 1,500 miles to Jamaica to teach those same principles at the PMBL Treasure Beach Jamaican Youth Basketball Camp, which he co-founded with some friends.

The camp, which is free for underprivileged children, takes place every August at Jamaica's popular Jake's Hotel and Sports Park. It has grown in just five years from welcoming about 150 campers to more than 700.

"We use basketball to teach these kids how to work together as one," Kay says, referencing the camp's theme, One Team One Dream. "We show the kids how to communicate with others, to be respectful and to persevere past challenges."

In addition to instruction from experienced players like college basketball coaches, an NBA referee and some Drexel women's basketball players and alumni, the campers also receive three meals a day and free gear like sneakers, shorts and T-shirts.

This is all made possible through fundraised dollars and donations of goods and services, which Kay and the other camp organizers work year-round to secure. — *Lara Geragi*

**David Knouft, BS finance '93**, vice president at Harmony Biosciences, received the 2018 Silver Dragon Society Award.

**Melissa Logan Gillespie, BS civil engineering '96**, was awarded 2018 Geotechnical Engineer of the Year by the Philadelphia Section of the American Society of Civil Engineers at the annual Spring Social.

**Andrew Pennoni, BS architectural engineering '91, BS civil engineering '91**, regional vice president and principal-in-charge of the construction services discipline of Pennoni Associates Inc., received the 2018 Special Distinction Award.

**Keith Rizzi, BS graphic design '95**, and **Stephanie Salerno, BS graphic design '07**, of Rizco took home the gold for Collateral/All Printed Material: Magazine Design at the NJ Ad Club's 50th Anniversary Jersey Awards.

**John D. Simmons, BS electrical engineering '92**, partner at Panitch Schwarze Belisario & Nadel LLP, was named 2018 Pennsylvania Super Lawyer.

**Stacy Stansell Klein-Gardner, MS biomedical engineering '93**, was named a fellow of the American Society of Engineering Education in June 2018 at the annual conference in Salt Lake City.

## 00s

**Kevin Connor, BS civil engineering '00**, previously a project executive, was promoted to vice president and project executive at Skanska.

**Yanatha Desouvre, BS business administration '01**, released a novel "Revelations: Roads to Redemption."

**Sandy Lee Sheller, MCAT creative arts '04, CE nursing '05**, published "Family Care Curriculum: A Parenting Support Program for Families Experiencing Homelessness" in the *Maternal and Child Health Journal*





## NEW MEMBERS

# Greetings Fellow Alumni

As I begin my second year as chair of the Alumni Board of Governors, I am proud of the progress we've made toward achieving our goals of engaging students and recent graduates, diversifying our board and telling the Drexel story.

It was gratifying to see that more than 40 percent of the alumni in the past year who were event participants, volunteers or donors graduated during the past decade. To our recent graduates: Thank you for all the ways in which you express pride and confidence in your Drexel degree. I hope we can count on your participation in the coming year and beyond.

We are pleased to welcome seven new board members including a graduate from the School of Public Health — a discipline which has not been represented on the board in quite some time — and our first-ever board member from China, an area of emerging incoming student and alumni populations.

We've been utilizing social media to better share information about alumni programming, volunteer opportunities and stories of student and alumni successes. Even if you've moved far from campus, I hope that you will keep up to date by following us on Twitter, Instagram, Facebook and LinkedIn. And, if we post something that personally resonates with you, please share it across your own networks!

As we embark on our programming for this year, we'll continue to focus on these priorities, with additional emphasis on expanding our shared interest groups. These groups engage alumni with a common background or interest, like cultural identity, a sport or student organization. (*Meet the president of the Drexel University Black Alumni Council and learn more about identity-based affinity groups on page 46.*)

Our signature programs, including Homecoming and Alumni Weekend, are great opportunities to return to campus to take in all the change firsthand. Or, keep an eye out for a program in your region, as we prepare to launch the third year of our Drexel InSites series. And, if you are interested in leveraging your time, talent and interests as a volunteer contact the Office of Alumni Relations at [alumni@drexel.edu](mailto:alumni@drexel.edu) to find out more.

If you've never participated in any of these things before, I hope you will make this the year that you do!

Sincerely,

**DAVID KAGANOVSKY '95**  
Chair, Alumni Board of Governors

**We asked the newest members of the Drexel Alumni Board of Governors to break the ice by sharing interesting facts about themselves with their fellow Dragons.**



"I am vice president of the board of directors for the nonprofit Lilypad, which is a safe play space that facilitates family networking and creates a strong and diverse South Philadelphia community."

— **Patrick Griffin, BS computer engineering '06**



"I've hosted '1010' dinners, a gathering of 10 friends in Shanghai on the 10th day of every month, since Oct. 10, 2010. And the tradition continues!"

— **Xiaodong Han, MBA business administration '03**



"In 2016 I challenged myself to try one new thing every day. The most adventurous thing I did was rappel 29 stories down the building at 20th and Market streets to raise money for the Philadelphia Outward Bound School."

— **Angela Harris, BS information systems '02**



"I'm so passionate about getting girls into technology that I started a company to do just that."

— **Mare Lucas, BS history and politics '88**



"I have a very healthy obsession with SoulCycle and take several classes each week. It's my favorite way to reduce stress, break a sweat and dance to loud music — all in under an hour!"

— **Sara Schneider, BS business administration '09, MBA '10**



"I have a strong love for nature which manifests in me enjoying camping, hiking and bringing the outdoors in by collecting houseplants. I have more than 75 plants and I am certain that number will continue to grow!"

— **Nick Thompson, MPH health management and policy '15**



"I am proud to be the third generation working for Dimitri J. Ververelli Inc., the engineering firm that my grandfather started 54 years ago, and I have the privilege to work with my dad, another Drexel alumnus."

— **Niki Ververelli, BS communications '07, MS '09**



and was awarded The Ambassador of Hope Award from Mental Health Partners.

**Cory Ng, MS accounting '02**, was named to the board of directors of the Pennsylvania Institute of Certified Public Accountants at its 121st Annual Meeting.

**Sara Patrick, BARCH architecture '09**, was promoted to associate at Atkin Olshin Schade Architects.

**Stephanie Salerno, BS graphic design '07**, and **Keith Rizzi, BS graphic design '95**, of Rizco took home the gold for Collateral/All Printed Material: Magazine Design at the NJ Ad Club's 50th Anniversary Jersey Awards.

**Joseph Scola, BS film & video production '07**, founder and CEO of Wise Ape Tea Company, launched two new functional tea blends, as well as partnerships with national organizations: the Michael J. Fox Foundation for Parkinson's Research and the Warrior Angels Foundation.

**Bijal Shah-Creamer, BS chemical engineering '03**, associate at Panitch Schwarze Belisario & Nadel LLP, was named among the 2018 Pennsylvania Rising Stars.

**Jaimie Stewart Younkins, BS civil engineering '09, MS construction management '14**, was named by GVF as a top Transportation Demand Management professional under 40 years old.

**Angelo Waters, BS environmental engineering '00, MS engineering management '11**, was named president of the American Society of Civil Engineers' Philadelphia Section at Urban Engineers' annual Spring Social.

## 10s

**Rachel Benyola, MBA business administration '17**, founder and CEO of AnneeLondon, received the 2018 Young Alumni Entrepreneur Award.

**Brian D. Dressler, BS mechanical engineering '11**, co-owner of Dressler Estate, a family-owned cidery in Downingtown, Pennsylvania, was featured in the Food section of *The Philadelphia Inquirer*.

**Danielle Fernandez, MPH epidemiology '15**, an epidemiologist with the Applied Epidemiology and Research team at the Florida Department of Health in Miami-Dade County, received the 2018 Young Alumni Emerging Leader Award.

**Jesse Gormley, BS architectural engineering '10, MS civil engineering '10**, was named the 2018 Philadelphia Young Civil Engineer of the Year by the Philadelphia Section of the American Society of Civil Engineers at the annual Spring Social.

**Joanne McGovern, MS nursing '15**, was promoted to senior vice president of patient care services at Cancer Treatment Centers of America in Philadelphia.

**Stanley Wright, BA communications '15**, is filming a documentary, "Original Body of Pain," portraying the American opioid epidemic and its impact on families.

**Cassandra Zook, BS computer engineering '11**, systems engineer in the CVN Navigation and Ship Control branch of the Naval Surface Warfare Center's Philadelphia Division, received the 2018 Young Alumni Distinguished Service Award.

## Friends We'll Miss

### 1930s

**Benjamin Cooperman**, MD medicine '33

**William H. Power**, D/C electrical engineering '32

### 1940s

**Raymond C. Arnold**, MD medicine '45

**Christine J. Athanasides**, BS home economics '49

**Mildred Bornemann Hodson**, BS home economics '45

**Leonard Bortin**, MD medicine '46

**Iris M. Cook**, D/C secretarial '46

**Carolynn Cramer Connor**, BS retail management '49

**Carolyn C. Crescenzo**, RN nursing '43

**Helen Csondor Galle**, RN nursing '48

**Elizabeth Decker Smith**, D/C secretarial '43

**Richard G. Ellis**, MD medicine '45

**Betty Ferguson Rogers**, CERT medical laboratory technology '42

**Lois Geywitz Patterson**, D/C library science '40

**Genevieve Gorman McHale**, D/C secretarial '45

**Anna Hedrick Boettger**, RN nursing '44

**Lorene Holland Spencer**, BS home economics '48

**Alma Jamieson Latham**, RN nursing '48

**Virginia Kent Robinson**, RN nursing '44

**Anna Kneibler Letts**, RN nursing '40

**Oliver T. Kokkila**, BS secretarial '48

**Rita Kovaleski Staschak**, CERT nursing '47

**Samuel P. Lebidine**, BS civil engineering '45

**James S. Lichty**, BS civil engineering '49

**Robert A. Lorgus**, BS business administration '47, MBA '50

**Senoria Mack Robertson**, BS home economics '41

**Dorothea C. Maier**, D/C secretarial '42

**Eda Malisoff Kahana**, MD medicine '46

**Jane Moffett**, BS home economics '47

**Golda Roberts**, RN nursing '45

**Donald R. Rupp**, BS mechanical engineering '48, MS '53

**Elizabeth R. Russell**, RN nursing '45

**Marie Schmid Waldman**, BS business teacher education '48

**Lydia A. Stitt**, D/C library science '46

**William E. Swan**, BS mechanical engineering '48

**Irene G. Tamagna**, MD medicine '43

**Harry Urkowitz**, BS electrical engineering '48

**Clyde F. Wean Musheno**, BS civil engineering '47

**Margaret H. Weaver**, RN nursing '49

**John J. Whalen**, BS electrical engineering '48

**Norma S. Wohl**, MD medicine '45

**Ruth Zapp Lide**, D/C secretarial '44

### 1950s

**James H. Agger**, D/C commerce and engineering '59

**Clemens S. Andes**, BS business administration '55

**Robert W. Beaver**, BS business administration '52, MBA '57

**Samuel H. Bickel**, BS electrical engineering '58

**George Bonadio**, BS business administration '59

**William H. Bordinh**, BS civil engineering '56

**Irving G. Brennan**, D/C mechanical engineering '56

**Robert T. Brown**, BS commerce and engineering '58

**Anthony J. Castagna**, BS commerce and engineering '59

**Douglas M. Clarke**, BS electrical engineering '51

**R. Robert Cox**, BS civil engineering '51

**Edward G. Dailey**, MD medicine '58

**Carole DeBaecke Broadland**, D/C secretarial '53

**Richard A. Dome**, BS business administration '59

**Joseph W. Donato**, BS '58 mechanical engineering, MS '61

**Peter C. Eayre**, BS electrical engineering '57

**Anna Ebert Harner**, RN nursing '53

**Nancy Fairfield Schindler**, BS business teacher education '52

**James V. Fayer**, BS electrical engineering '59



**Ann Fenton Barse**, RN nursing '53  
**Geraldine Fink**, MD medicine '53  
**Edwin N. Freeman**, MD medicine '55

**Richard B. Frost**, D/C chemical engineering '58

**Ronald L. Ginder**, BS commerce and engineering '58

**Donald W. Ginter**, BS mechanical engineering '59

**James P. Gouvis**, BS business administration '57

**Stanley Hadley**, MD medicine '58

**Robert A. Hanson**, BS mechanical engineering '51

**Martha Hayden Danis**, MD medicine '55

**Ronald W. Henry**, BS business administration '56

**Frederick W. Hill**, BS mechanical engineering '51

**Jack K. Hovey**, D/C mechanical engineering '58

**Anne Jensen Taylor**, BS home economics '54

**Marilyn Jones MacGeorge**, RN nursing '55

**Marie Kaempfee Poll**, RN nursing '54

**James B. Kahl**, MD medicine '58

**Sydney Kane**, BS mechanical engineering '53

**Jeanne Kleinschmidt Orendac**, BS chemical engineering '54

**Atlee Knorr**, D/C mechanical engineering '53, BS '55

**Peter A. Kotos**, BS electrical engineering '55

**June Kreider Ebling**, BS home economics '50

**Charles Kuintzle**, BS mechanical engineering '53

**Joseph T. LaCasse**, D/C mechanical engineering '55, BS '58

**William D. Lamberton**, MD medicine '53

**Richard J. Lippin**, MLS library science '58

**Alfred A. Litwak**, BS electrical engineering '58, MS engineering management '65

**Joseph H. Marshall**, BS electrical engineering '54

**Atilia Maria Martinez**, MD medicine '59

**John P. Marx**, BS commerce and engineering '58

**Joseph H. Metzger**, BS mechanical engineering '53, MS '56

**Margaret Mills Roeding**, BS home economics '50

**Ted J. Misbin**, D/C electrical engineering '58

**Albert W. Moser**, BS business administration '59

**Peter B. Nelson**, D/C civil engineering '58

**Evelyn D. O'Dell**, BS retail management '53

**Peter J. Oeth**, BS commerce and engineering '59

**Charles F. Olsen**, MS electrical engineering '59

**Lola Patlove Shapiro**, MD medicine '51

**Gloria Pedley Liebert**, BS business administration '51

**Patricia Peirce Rittenhouse**, MS library science '51

**Lila Perez Florance**, RN nursing '50

**Edwin F. Potter**, MS aerospace engineering '53

**Faith Priceman Vinikoor**, BS retail management '54

**Christian J. Rahnke**, MS mechanical engineering '54

**Ruth Ann Robinson**, D/C library science '51

**Joseph A. Saggese**, D/C electrical engineering '54, BS '57

**Catherine Schneider Bakley**, BS home economics '50, MS '69

**George R. Schollhamer**, D/C mechanical engineering '53, BS '54

**Isaac M. Sheaffer**, BS mechanical engineering '50

**William L. Smedley**, D/C electrical engineering '54

**David L. Snyderwine**, BS business administration '55

**Frances Sodoski Figart**, RN nursing '55

**Robert C. Stiefel**, BS civil engineering '57

**Jack K. Stoner**, BS chemical engineering '51

**Robert W. Strong**, BS business administration '54

**Pauline Sullivan Haas**, MD medicine '50

**Walter J. Swiacki**, BS electrical engineering '59

**Robert V. Symnoski**, BS mechanical engineering '53, MS '60

**Albert R. Tama**, MD medicine '55

**Wayne G. Thompson**, BS electrical engineering '55

**Arthur R. Tomlinson**, BS chemical engineering '55

**Morton P. Vinikoor**, BS electrical engineering '54

**Daniel C. Webb**, MS electrical engineering '59

**Elizabeth Wentzell Parker**, RN nursing '50

**William H. White**, D/C electrical engineering '59, BS electrical engineering '61

**Joseph L. Willard**, BS business administration '55

**Eli Williams**, BS mechanical engineering '53

### 1960s

**Ronald C.S. Au**, MS electrical engineering '63

**Virginia H. Baker**, MD medicine '64

**Carl H. Blackburn**, D/C business administration '64

**Donald F. Bray**, BS business administration '62

**Carol Buffone Crovetti**, BS home economics '66

**Julie Burcham Sandleman**, MS library science '68

**Donald J. Carrozzino**, BS business administration '68

**Peter B. Crawford**, MBA business administration '66

**Francis J. Dennis**, BS chemical engineering '62

**Angela DeSantis Hill**, MD medicine '66

**Paul J. Dick**, MS engineering management '64

**Edward L. Frampton**, MBA business administration '69

**Richard E. Gage**, BS chemistry '69

**Harry W. Glenz**, BS mechanical engineering '66, MS '69

**William H. Groth**, BS mechanical engineering '63

**Allen W. Hahn**, MS biomedical engineering '64, MS mechanical engineering '68

**John J. Halloran**, BS chemistry '67

**Raymond A. Hansen**, MD medicine '63

**Bruce S. Harris**, MD medicine '68

**Marcellus W. Haupt**, BS mechanical engineering '62

**William B. Heberton**, MBA business administration '60

**Thomas A. Hitchcock**, BS mechanical engineering '63

**Linda Howen Steinacker**, BS home economics '68

**Robert A. Iadicco**, BS electrical engineering '60, MS '66

**Janice Irvine Forsten**, BS business teacher education '62

**Albert J. Lewullis**, BS accounting '69

**Howard F. MacGrady**, BS mechanical engineering '65, MS engineering management '75

**Athena Macris Hagerty**, BS home economics '66, MS '69

**Billy B. Manson**, MS library science '68

**Philip J. Martin**, MS electrical engineering '62

**Gayla K. McDowell**, D/C library science '60

**James L. Miller**, MS electrical engineering '64

**Robert I. Morris**, MD medicine '66

**Graham R. Oslin**, BS mechanical engineering '61

**John J. O'Sullivan**, BS mechanical engineering '64, MS '66

**Cordell M. Page**, BS business administration '65

**William A. Pawliczek**, BS commerce and engineering '61

**Anna F. Plantinger**, MS library science '67

**Peter G. Pouloupoulos**, BS business administration '60

**Jonathan Y. Richmond**, PhD anatomy '68

**Thomas G. Rigney**, BS business administration '61, MBA '68

**Laurence S. Rosenstein**, BS mechanical engineering '64

**Mark Ruderman**, MD medicine '61

**Edith Satterlee Hart**, D/C library science '65

**Adam J. Sawoski**, BS mechanical engineering '65, MS '67

**Lee F. Schuchardt**, PhD microbiology & immunology '65

**William Seidman**, MD medicine '62

**Francis H. Shields**, MBA business administration '69

**Edward D. Singley**, BS electrical engineering '66

**Jacob C. Stacks**, MBA business administration '63

**Spencer A. Steinman**, MD medicine '68

**Joseph J. Streda**, BS business administration '69

**Charles A. Tait**, BS industrial administration '65

**Ralph E. Terrell**, BS chemistry '62



**Karl R. Thorn**, BS electrical engineering '67

**David L. Tucker**, BS hotel and restaurant management '65

**Douglas M. VanTassell**, BS electrical engineering '62

**Maria Verso Burt**, MD medicine '66

**Francis J. Weiss**, BS electrical engineering '62

**Albert D. Wilfong**, BS electrical engineering '64

**Sally Young Christopherson**, MLS library science '61

### 1970s

**Barbara Bartolotta Camburn**, MS unknown '71

**Michael D. Berkowitz**, BS business administration '71, MBA '73

**Mitchel I. Berman**, BS civil engineering '77

**John A. Burkins**, BS biological science '71

**William M. Crowley**, BS business administration '70, MBA '74

**Marc S. Davies**, BS psychology '74

**Nicholas DeMaio**, BS business administration '74

**Eugene T. Docherty**, MBA business administration '71

**Charles W. Ernest**, BS electrical engineering '78

**George Feldman**, BS business administration '75

**Mark D. Freier**, BS chemical engineering '74

**Robert P. Fulton**, BS chemistry '76, MS '79

**Michael E. Gardenier**, BS business administration '76

**Thomas K. Garvey**, BS operations management '75

**John James Gibson**, BS commerce and engineering '70

**Kenneth J. Glauser**, BS business administration '70

**Philip T. Gorman**, BS business administration '73

**Anthony R. Gualtiere**, BS mechanical engineering '77

**Emily Gwilliam Raiguel**, RN nursing '71

**Richard K. Haupt**, BS marketing '75

**James N. Holmes**, BS civil engineering '70

**Ernestine Hooker**, MS environmental engineering '72

**Richard H. Kaplan**, MD medicine '73

**James L. Keller**, MS civil engineering '77

**Mary Ann Kiedaisch Martin**, BS home economics '71

**Joan Kosley Caracappa**, BS biological science '74

**Thomas J. Lauer**, BS civil engineering '79

**Margaret L. Lippin**, MS library science '71

**Carol MacDona Midei**, RN nursing '73

**Frank J. May**, MS library science '73

**Francis E. McGee**, MBA business administration '73

**James J. McVeigh**, BS mechanical engineering '70

**John B. Mikle**, BS mechanical engineering '70

**Nancy J. Notkin**, BS design '75

**Francis V. Quinn**, BS electrical engineering '74

**Vincent J. Radatti**, MS engineering management '78

**Gloria Radbill Hamilton**, MLIS library and information science '74

**Carolyn S. Ringsdorf**, MS library science '71

**Jack W. Rowan**, BS business administration '71

**Robert J. Rowe**, BS mechanical engineering '75

**Paul L. Scheifele**, BS mechanical engineering '73

**Joseph Scholes**, MBA business administration '76

**Darlene L. Schrader**, BS home economics '73

**R. Bruce Sergeant**, BS business administration '70

**Gertrude B. Seybold**, MS library science '70



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**Gordon W. Shillito**, BS electrical engineering '72  
**Steven B. Siegel**, MBA business administration '77  
**John D. Sten**, MD medicine '71  
**Mason Stewart**, BS business administration '79  
**Judith Stonehill**, MS library science '73  
**Robert C. Strunk**, MS civil engineering '78  
**Alan D. Weingrad**, MD medicine '70  
**Edward D. Wysocki**, BS chemical engineering '72, MS '75

### 1980s

**Helen Althea Mincer**, BS accounting '80  
**Ramon B. Biarnes**, MBA business administration '87  
**Marykay Dougherty O'Neil**, AS physician assistant '86, BS '91  
**Brian M. Doyle**, BS finance '89

**Stephen J. Faralli**, BS operations management '81  
**Gerard J. Gaul**, BS accounting '84  
**Larry T. Green**, MBA business administration '81  
**Trevor J. S. Hodge**, MD medicine '85  
**Paul T. Holler**, BS electrical engineering '83  
**Katherine Howe Shipherd**, MBA business administration '85  
**Michael R. Karasick**, BS electrical engineering '85  
**George S. Kovach**, BS management computer information systems '88  
**Diedre Makatche**, BS nutrition and food '81  
**Christopher R. Moore**, BS finance '84  
**Axel K. Olsen**, MS microbiology and immunology '80, PhD '83  
**Patricia Powell Mandel**, MS human behavior and development '85  
**John W. Sims**, MS design '87

**Raymond M. Subers**, BS finance '83, MBA business administration '87  
**Wesley J. Stuchlak**, MBA business administration '84  
**Miriam Weeks Crum**, MS biological science '80  
**Susan T. Wilmerding**, MPT physical therapy '89

### 1990s

**Timothy S. Durham**, BS civil engineering '99  
**John J. Gain**, MD medicine '91  
**Kimberly M. Hatter**, BS accounting '92  
**Edward T. Kohlmeir**, BS hotel and restaurant management '92  
**Philip J. Lembach**, BS civil engineering/architectural engineering '91  
**Leslie Anne Piaget**, MPT physical therapy '91  
**Richard V. SanFillippo**, BS electrical engineering '92  
**Maureen Catherine Wade**, MS science of instruction '95

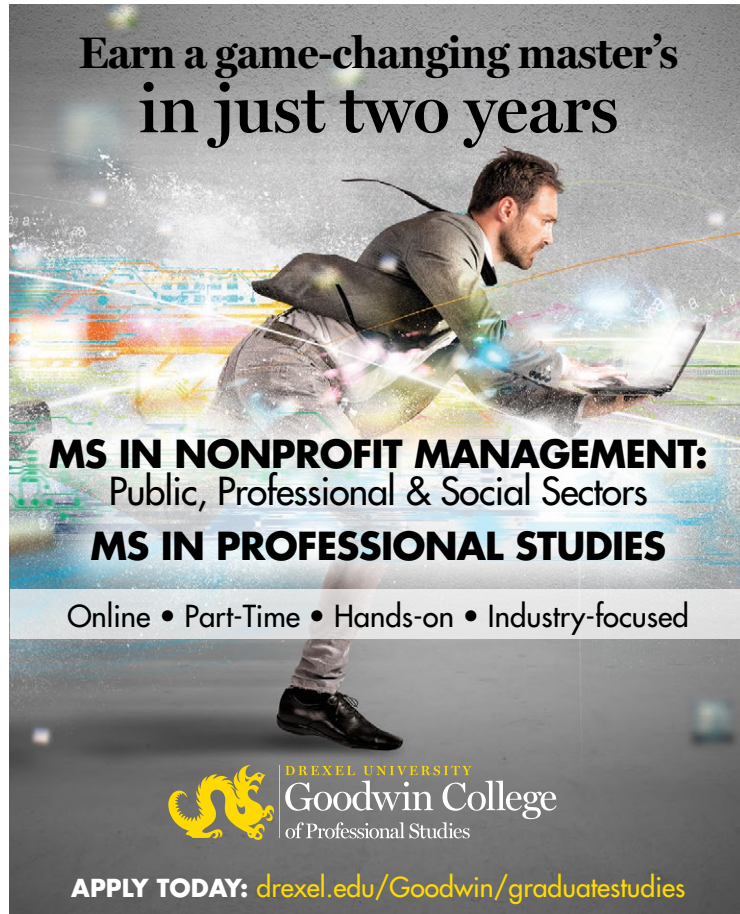
### 2000s

**Keith A. Berthrong**, MS library and information science '06  
**Gregory B. Hart**, BA architecture '02  
**Lara E. Jarusewic**, BS/MS environmental science '03  
**Sandra McCloskey**, CERT physical therapy '01  
**Jeffrey S. Michner**, BS culinary arts '06  
**William E. Norman**, BS electrical engineering '05, MS '07

### 2010s

**Julia L. Davidov**, MS nursing '16  
**Mark G. Hampson**, BS legal studies '14  
**Thomas P. Lynch**, PhD molecular and cell biology and genetics '13  
**Elizabeth R. McHugh**, BS nursing accelerated career entry '11  
**Ebonee N. White**, BS behavioral health counseling '10  
**Amy J. Wood**, MS science of instruction '12


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(in'krés)

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noun: an instance of growing or making greater.

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# Crossword



**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 our summer edition contest: Marie Wagner, Honolulu, HI.

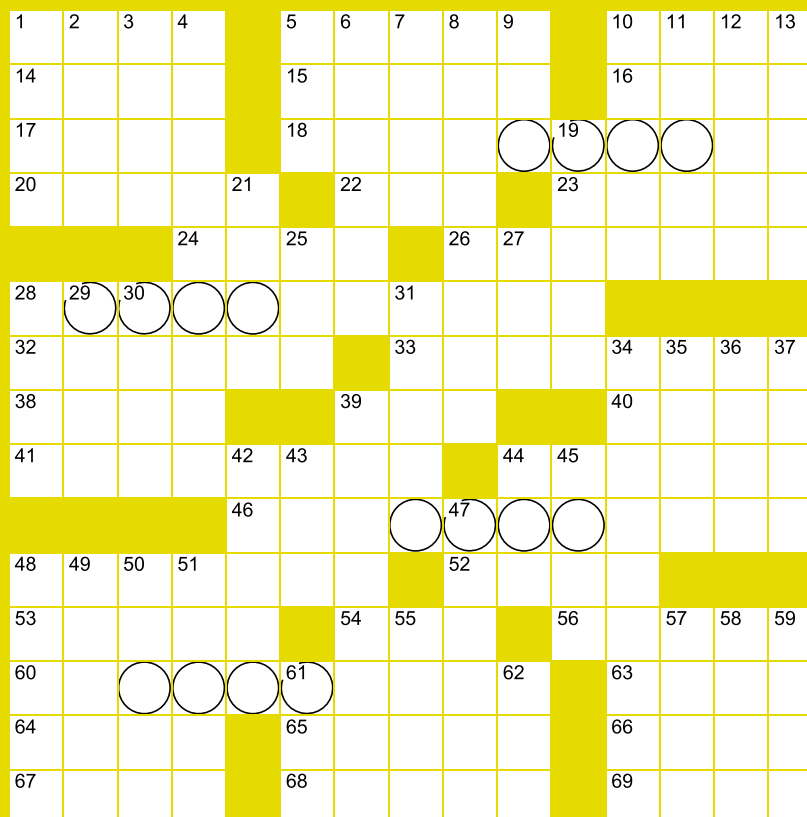
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## SCHOOL RENOVATIONS

With two new Drexel buildings featured in this issue, we constructed a puzzle that will bring structure to your memories of life on campus.

### ACROSS

- 1 Blowout victory
- 5 Emotion often experienced during adolescence
- 10 Potluck contribution
- 14 Opportunity to shine on stage
- 15 Doone of fiction
- 16 "Hold \_\_\_ your hat!"
- 17 Cover on a baseball field
- 18 Piece of furniture in a furniture store, say
- 20 Inactivity activity
- 22 "Gross!"
- 23 Animated love of 63-Across
- 24 \_\_\_ the wrong way (annoys)
- 26 In a crowded way
- 28 Pony car that debuted at the World's Fair in 1964
- 32 Many a Bengals fan
- 33 London tourist site that's home to Speakers' Corner
- 38 Survey of opinions
- 39 Talk smack about
- 40 Maui event
- 41 Nemesis of He-Man
- 44 Intro
- 46 Greeting at a 10 a.m. coffee break
- 48 In need of repair
- 52 Mystical glow
- 53 Make joyful
- 54 Bagel topping
- 56 What mall walkers may visit
- 60 Prom night chauffeur
- 63 Animated love of 23-Across
- 64 Abound (with)
- 65 Ridiculous
- 66 Cruising the Atlantic, say
- 67 Tunnel-building creatures
- 68 Stared at rudely
- 69 School building that could use some renovation in this puzzle's circled squares



### DOWN

- 1 "Doggone it!"
- 2 Stressful grad school exam
- 3 Swampy ground
- 4 Kid's cutout that may wear different sets of clothes
- 5 TV ET
- 6 To boot
- 7 "\_\_\_ up!" (response to juvenile behavior)
- 8 Reasons why college students might miss class and go sledding
- 9 Roofing goo
- 10 Quartet for many cars
- 11 Many a film screened at Sundance, informally
- 12 Bridge construction material
- 13 Greenery mentioned in "Deck the Halls"
- 19 Malady for a dog
- 21 Big cat at a zoo
- 25 Burger holder
- 27 "\_\_\_ of story!"
- 28 Men who are highly invested in their choice of clothes
- 29 "Well, that makes sense"
- 30 Anger
- 31 Like Charlie, in the NATO phonetic alphabet
- 34 Strategize for the future
- 35 R8 Spyder automaker
- 36 Water fall?
- 37 "\_\_\_ Fu Panda 3" (2016 animated film)
- 39 Drawing while bored
- 42 Urged, with "on"
- 43 Stubbed body part
- 44 "Satellite of Love" singer Reed
- 45 Messes up
- 47 LaVerne and Patty's sister in the Andrews Sisters
- 48 Airline that made its first passenger flight in 1929
- 49 Stock character in the video game franchise "Destroy All Humans"
- 50 "The Woods" playwright David
- 51 Molecule components
- 55 Hockey rink shape
- 57 Thereabouts
- 58 Docking place
- 59 Get-rich-quick scheme, often
- 61 2014 World Cup locale
- 62 \_\_\_ Cross





Create.  
*Build.*  
Define.  
Do.



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