

A View from
the Summit

From The Triangle
to ESPN

Cheating in the
Age of Apps

[DREXEL]

WINTER/SPRING 2016 // MAGAZINE // VOLUME 26 NO. 1

This
HAS THE
POWER TO
HEAL

The story of a
medical screw,
a startup and
three buddies
from Baiada

40
0½

FORTY UNDER FORTY

Inside: STORIES FROM OUR AMAZING YOUNG ALUMNI

OVER 140 ONLINE PROGRAMS

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THE LEDGER

[A NUMERICAL ANALYSIS OF LIFE AT DREXEL]

8	Size of the international team managed by LeBow College of Business student Roger Kfoury as part of his co-op with Mars Drinks of Mars Inc.
50	Total number of prints in Larry Clark's famous "Tulsa" photo series displayed by Drexel this past fall. Drexel owns one of the few complete portfolios of the collection, which documents the photographer and his friends' drug use between 1963 and 1971.
22.4	Number of inches of snow recorded in Philadelphia during the weekend storm of Jan. 23-24, 2016, making the blizzard the fourth-largest snowfall in the city's history.
\$243M	Amount that Drexel announced it plans to invest in financial aid during the upcoming 2016-17 academic year, which would be the largest amount in the University's history.
140	Pounds lost by Drexel employee Jerome Wilson from 2011 to 2015 after enlisting in a wellness study run by the Department of Psychology and working out at the Drexel Recreation Center.
490	Amount, in dollars, exchanged for a chunk of Drexel's old basketball court, complete with a Dragon logo, that was sold by Drexel's Procurement Services.
1,200	Number of hungry Drexel faculty, professional staff and students who enjoyed 3,000 healthy food options in two hours during the fourth annual Food Day held at the Drexel Recreation Center.

[DREXEL MAGAZINE]

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46 TURN OF THE SCREW
Seven years ago, three LeBow students won the Baiada business plan contest with a promising idea. Today, they have investors, patents, FDA clearance and a cleverly designed orthopedic kit – and they're tapping their Drexel network to give them a final push to market. **BY KATIE CLARK**



THE VIEW FROM MAIN

It's always exciting to catch up with Drexel's most promising young alumni in the "40 Under 40" issue, especially when their success has clear roots in Drexel programs that foster innovation.

For example, the three founders of Stabiliz Orthopaedics (page 46) met as LeBow College of Business MBA students

looking to enter the business-plan competition of the Baiada Institute for Entrepreneurship, Drexel's longstanding "cradle of entrepreneurship." And in the years since Stabiliz Orthopaedics developed their medical device kit from that entry, the Baiada Institute



has become part of a constellation of programs that encourage business formation at Drexel.

Today, Drexel Ventures helps faculty and students commercialize and build businesses around their research and inventions. The Office of Technology Commercialization connects our innovators to the private sector. The Charles D. Close School of Entrepreneurship infuses the skills for idea realization throughout Drexel's curriculum. And multidisciplinary research initiatives like the ExCITE Center support entrepreneurial collaborations across the Drexel community and beyond.

Our new-venture strategies are critical to Drexel's plans to create a nationally prominent innovation district in University City. Last November, we announced a new \$10 million early-stage seed fund for Drexel spin-offs based out of our Innovation Center @ 3401 Market and sponsored by Ben Franklin Technology Partners of Southeastern Pennsylvania. Two weeks later we celebrated the opening of PHL Next Stage Med, an accelerator at One Drexel Plaza providing collaborative workspaces for cutting-edge specialty medical companies.

Technology-driven entrepreneurship has the potential to remake Drexel and Philadelphia. We've taken important first steps in building an infrastructure to support this work, and I expect that young innovators will be a staple of "40 Under 40" for years to come.

Sincerely,

John A. Fry / President

EDITOR'S NOTEBOOK

We've packed this issue with great stories about the impressive lives our alumni are leading — from daring entrepreneurs, to artists you've seen on film and stage, to good citizens striving to save lives or save the planet. They're all part of this year's class of 40 Under 40 alumni, including two of the three founders of Stabiliz Orthopaedics, who never gave up on their business school dream to build the novel medical device described in our cover story.

But arguably the most must-read page in this edition is the very last. Flip to the inside back cover — you'll see a link to our readership survey: drexel.edu/MagSurvey.

The survey takes just 10 minutes, and all responses are anonymous. I hope you'll participate. Whether you read every story or just skim headlines, we want to know what grabs you, and what doesn't. With your help, we can focus on the content that's important to you.

With Drexel's last major redesign in 2011, the magazine leapt by bounds. Since then, we've continued to aim for greater relevance with new regular features. We introduced Research@Drexel to share some of the surprising findings our faculty are uncovering through their scholarship, and through Seven Characters we tell the genesis story behind our researchers' patented inventions. Most surveys show that alumni prefer to read about other alumni and campus life, and I hope this issue is evidence that we take that to heart. We also made modest alterations in how we curate news to deliver more stories about the culture of campus, and less institutional coverage.

With your feedback, I hope that we can make the magazine even better, and an indispensable part of your connection to Drexel.

Sincerely,

Sonja Sherwood / Editor



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EDITORIAL STAFF

EDITOR

Sonja Sherwood

SENIOR EDITOR

Katie Clark

STAFF CONTRIBUTORS

Mark Eggerts
Rachel Ewing
Alissa Falcone
Britt Faulstick
Lara Geragi
Niki Gianakaris
Alex McKechnie
Frank Otto

DESIGN

Aldrich Design

ADMINISTRATION

PRESIDENT

John A. Fry

**SENIOR VICE PRESIDENT,
UNIVERSITY COMMUNICATIONS**
Lori Doyle

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Change of Address

Drexel University Records
Gifts and Stewardship
3141 Chestnut St., Room 310
Philadelphia, PA 19104
Tel: 215.895.1694
Fax: 215.895.4966

Office of Alumni Relations

Paul Peck Alumni Center
3141 Chestnut St.
Philadelphia, PA 19104
Email: alumni@drexel.edu
Tel. 215.895.ALUM (2586)
Toll-free: 1.888.DU.GRADS
(384.7237)
Fax: 215.895.2095

LETTERS

Praise from the Pacific

I just went through the summer issue of the magazine (pdf version). It is a gorgeous issue! I just subscribed. I'm an alum who lives in San Francisco, so this was a nice way to learn what is happening on campus. Thanks.

*Shruthi Worton-Cross
BS/MBS business
administration, '06/'09
Mountain View, California*

Milk Memento

To the "Dragons" who remember Abbotts Dairies, next door on Chestnut Street: I am a Drexel graduate, 92 years old, and I lived in Drexel Hill, Pennsylvania. My first position when I graduated from Drexel was as dietitian at Bryn Mawr Hospital and three years later I was employed by Abbotts Dairies as program director for the ice cream division. What a fabulous position! I've kept all these years an Abbotts glass milk bottle from 1925 when milk was delivered in glass bottles to our door. Was there any historical value to it? I called Drexel's Alumni Relations office for advice and I was directed to the Philadelphia History Museum — the history museum now owns the Abbotts glass bottle and it's in their database.

*Doris Bedrossian Bobb,
BS home economics '46
Houston, Texas*

Send letters to the editor to magazine@drexel.edu.

Share Your Memories

This year, Drexel will mark the anniversary of the University's 125th year since its founding with special archival coverage about Drexel as it once was, and we'd love to hear what it was like when you were a student. Share your recollections at magazine@drexel.edu.



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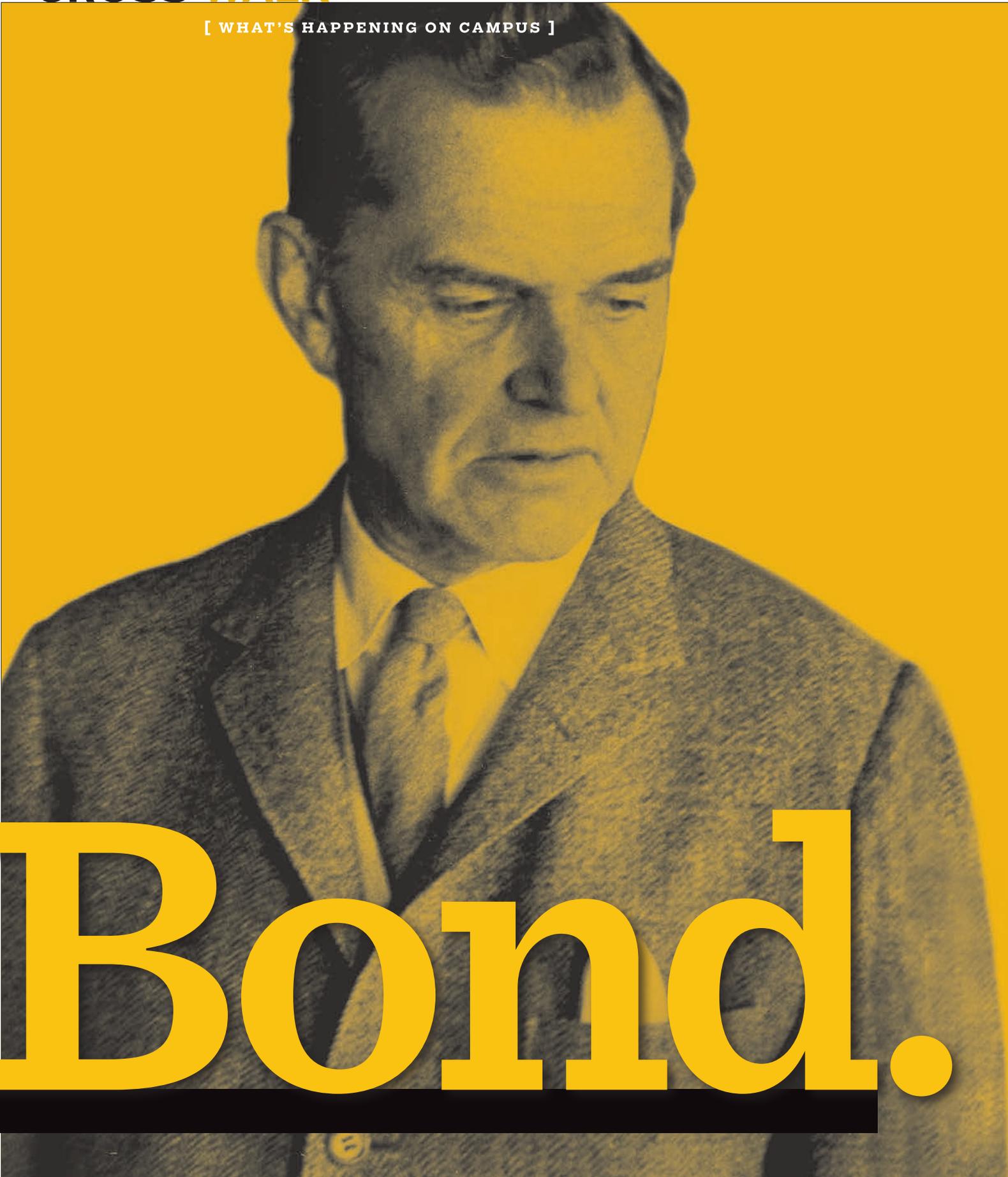
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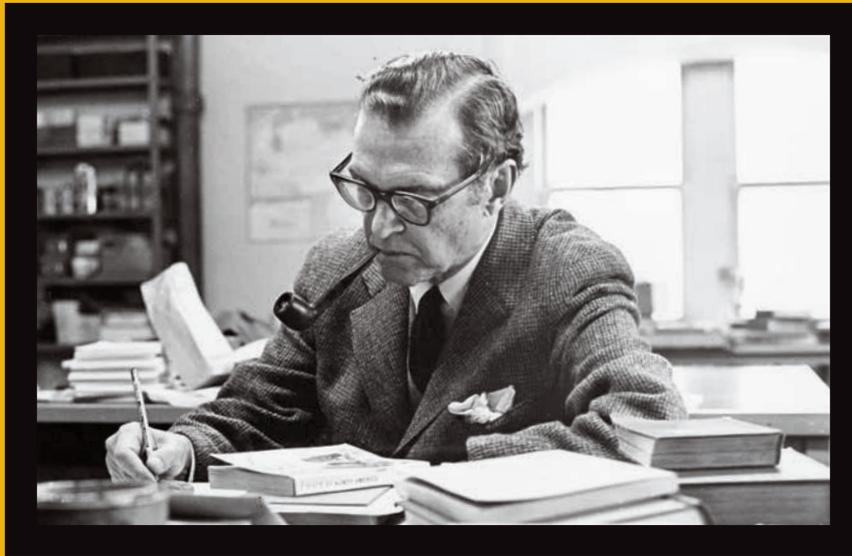
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[WHAT'S HAPPENING ON CAMPUS]



Bond.



FORGET Sean Connery, Roger Moore, Timothy Dalton, Pierce Brosnan and even Daniel Craig. There was once a real James Bond in the not-so-distant past and Drexel has a rather unique connection to him. The real James Bond was no secret agent, but he was a spy...of sorts. A bird spy.

In 1953, while deciding on a name for the protagonist of his spy thriller "Casino Royale," Ian Fleming drew inspiration from one of his avid hobbies: bird watching.

Having moved from the United Kingdom to Jamaica following his service during World War II, Fleming noticed what he would later describe as a "brief, unromantic, Anglo-Saxon and yet very masculine name" listed as the author on the cover of a book called, "Birds of the West Indies."

That name, of course, was Bond. James Bond.

The man behind the name was a widely accomplished ornithologist, one who was so well respected that he was

made curator of ornithology at the Academy of Natural Sciences of Drexel University in the 1920s.

The real Bond may not have been a secret agent, but he shared a flair for adventure of which his fictional namesake would approve. Bond led an expansion of the scope of ornithology at the Academy to include more specimens from across the world, including Africa and Asia. He went on hundreds of expeditions to the Caribbean and even the Amazon River to build his collection of bird specimens, most of which are housed in the Academy's collection today. The Academy also has a variety of medals and awards that he won for scientific study, a printing block from one of his books and even a scrapbook his wife, Mary Fanning Wickham Bond, kept of 007 memorabilia.

So while diamonds may be forever, Bond's contributions to the Academy are lasting the test of time as well.

James Bond.

BY FRANK OTTO

The curious connection between Drexel's Academy of Natural Sciences and the world's most famous spy.

HEY DJ, TURN IT UP!

In just its second year back after a seven-year hiatus, the WKDU Electronic Music Marathon dialed it up to 11 to raise money last fall.

The marathon ran through an entire weekend in early October — 78 total hours of continuous music, from more than 70 of Philly’s premier electronic music DJs.

“Normally, the tradition has been 75 hours but the demand was so high this year that we had to stretch it out,” says Chris Burrell, electronic music director of Drexel’s student-run radio station, WKDU 91.7 FM.

WKDU’s marathon raised approximately \$4,000 to pay for general operating costs and improvements, as well as for professional DJ equipment. WKDU also used some of the funds to make a sizable donation to the Philadelphia Mural Arts Program.

The timing was better than perfect. A week after the marathon, Mural Arts unveiled a mural at 13th and Chestnut streets led by famous artist Shepard Fairey (the man behind the Obama “HOPE” art, among many other pieces) paying homage to Philly’s rich legacy of DJs.

The station is gradually uploading all of the audio from the marathon onto its SoundCloud account at soundcloud.com/wkdu.

And something for sports fans, too: Tune into WKDU for this season’s men’s basketball games, broadcast by special arrangement with Drexel Athletics.



WKDU’s Electronic Music Marathon coincided with the unveiling of a new Shepard Fairey mural dedicated to the rich history of DJs in Philadelphia.



CUBA THROUGH A FILM LENS

In December, a small class of film students from Drexel had an opportunity to study in Cuba that would have been impossible just a decade ago.

The Escuela Internacional de Cine y Television (EICTV), Cuba’s iconic film school (which counts Nobel Prize-winning author Gabriel García Márquez among its noted founders), offered a two-week documentary filmmaking course in Havana to Drexel students.

The Cuba Documentary Workshop had been in the works for more than nine months, but got the final push it needed when President Barack Obama announced a re-establishment of diplomatic ties to Cuba over the summer, ending five decades of sanctions.

The Obama Administration had previously loosened restrictions on educational travel to Cuba in 2011, which allowed colleges and universities to offer for-credit study abroad courses in the country.

“We’d realized that it was just a matter of time before full international relations were restored with Cuba and more formal educational partnerships were formed,” says Julie Mostov, vice provost for global initiatives. “The fact that EICTV chose Drexel as one of its American educational partners is truly an honor.”

LEFT: B. PAPULAKIS/THINKSTOCK

DEVELOPER NAMED FOR LONG-AWAITED INNOVATION DISTRICT

It has long been part of the University’s strategic plan to develop 14 acres of land between Drexel’s main campus and Amtrak’s 30th Street Station into a regional hub for innovation and a new gateway to University City.

On March 2, Drexel took a major step toward fulfilling its goals with the announcement of an historic partnership with Philadelphia-based Brandywine

Realty Trust, which was named the master developer for the ambitious project.

Over the next 15 to 20 years, Brandywine will construct 5 million gross square feet of mixed-use real estate on the site consisting of entrepreneurial spaces, cultural spaces, educational facilities and research laboratories, corporate offices, residences, hospitality and retail and public green space. The project could add 25,000 jobs and

millions in tax revenue.

“Drexel’s leadership has always believed there’s a higher use for this unique location — the 50-yard-line of the East Coast — as a neighborhood built around collaboration and innovation,” says President John A. Fry. “That’s why the University assembled these parcels, and the time is right to put this transformative vision into action.”

HAPPY BIRTHDAY, A.J.

In the fall, Drexel celebrated the 189th anniversary of Anthony J. Drexel's birth.

To commemorate the University's founder, the University invited 700 of the newest Dragons — freshmen moving into their campus accommodations during Welcome Week — to celebrate in the September sunshine.

Students donned blue-and-gold mustaches to bear a closer resemblance to the mustachioed birthday boy, took part in a scavenger hunt, and enjoyed Little Baby's Ice Cream out on Perelman Plaza.



DREXEL REVOKES COSBY HONORARY DEGREE

In November, President John A. Fry and the University's Board of Trustees made the decision to revoke an honorary degree bestowed upon actor/comedian Bill Cosby in 1992.

In a message to the University community, Fry wrote, "The misconduct by Bill Cosby that came to light through his sworn deposition testimony stands in clear opposition to Drexel's values... Universities are critical arenas in the movement to recognize and address sexual violence and misconduct as a societal problem. Drexel takes that responsibility very seriously."

COUNTING CARBON EMISSIONS

The A.J. Drexel Institute for Energy and the Environment recently prepared a **97**-page report that plots a detailed course for how the City of Philadelphia can drastically reduce its greenhouse gas emissions by **80 percent** by the year **2050**. The report named building energy use and emissions from cars, trucks and buses as the top **two** sources of greenhouse gas emissions, with building energy use accounting for **60 percent** of Philadelphia's carbon footprint, and emissions resulting in **19 percent**. The top **three** areas where the largest greenhouse gas reductions could be made, according to the report, were energy use in buildings, electricity generation and transportation. Cities around the world are making commitments to limit greenhouse gas emissions to align themselves with a United Nations call for developed nations to make **80 percent** reductions from **1990** levels by **2050**. As Philadelphia is preparing to set a new carbon reduction goal of its own in **2016**, the Mayor's Office of Sustainability tapped experts from Drexel to better understand the feasibility of adopting this target.

60%

Building energy use accounts for 60 percent of greenhouse gas emissions in Philadelphia



19%

Emissions from cars, trucks and buses account for 19 percent of greenhouse gas emissions in Philadelphia



THE WORLD UNDERFOOT

Eighteenth-century land surveyor William Smith was a rock star — quite literally.

Smith's 1815 map of England, Wales and part of Scotland was the world's first nationwide geological map, and it helped develop stratigraphy and biostratigraphy as we know it today. Less than 200 copies of this seminal work exist today and the Academy of Natural Sciences of Drexel University owns one of them.

The map is kept in the Academy's archives and rarely put on public view, except briefly this fall when it was brought out for display in honor of its 200th birthday.

In 1817, American geologist William Maclure (and later president of the Academy of Natural Sciences) recognized the importance of Smith's map and purchased a copy for the Academy. It hasn't been pulled from storage for more than 30 years (its last showing was during a special "treasures of the Academy" exhibit).

Smith's expertise came from years as a land surveyor and canal builder, mapping coal formations and assessing values for landowners, says Ted Daeschler, who is associate curator of vertebrate biology and vice president for systematic biology and the library at the Academy.

"Maps like these are the foundation for doing earth science," Daeschler explains. "To be able to express on a map the geology underfoot in a sensible and usable way was a huge step. Smith deserves credit as the guy who first got it right."



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Asteroid vs. Volcano

Was it an asteroid impact or a volcanic eruption that killed the dinosaurs 66 million years ago? Probably both, a new Drexel study says. A

group of geoscientists led by Drexel volcanologist Loÿc Vanderkluyzen hypothesize — in the October issue of the journal *Science* — that the asteroid's impact ignited volcanoes around the globe, most catastrophically in India. The team believes that together, these catastrophes would have blanketed the planet with dust and noxious fumes, drastically altering the climate and wiping out many land and marine animals, including the dinosaurs.

In the Mood for Love

How can you get a woman to become more receptive to romance? Feed her!

A new Drexel study shows that men are not alone in the one-way street from stomach to heart when it comes to love. Drexel's Michael Lowe, a psychology professor in the College of Arts and Sciences, and Alice Ely '14, who earned her master's and doctoral degrees from Drexel, collaborated on research finding that women's brains respond more to romantic cues on a full stomach than on an empty one. The study explored brain circuitry in hungry versus satiated states among women who were past-dieters and those who had never dieted. Ely says the results are contrary to previous studies that showed people typically demonstrate greater sensitivity to rewarding stimuli like food, money and drugs when they are hungry.



How to Kill a 'Biodiversity Hotspot'

The understory layer of Ghana's Upper Guinea rain forests is considered one of the world's 25 "biodiversity hotspots," and it's facing a serious threat. A new study co-authored by scientists at Drexel reveals the devastating impact of illegal logging on bird communities in this area, where an estimated 80 percent of Ghana's illegal timber harvesting occurs. Lead author Nicole Arcilla, a postdoctoral research associate in the College of Arts and Sciences, says the team's most disturbing finding was that more than half of all understory birds had vanished in only 15 years.

Burning Rubber

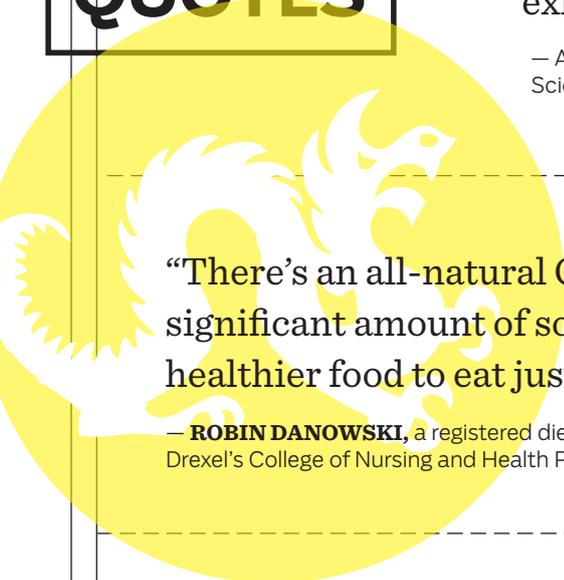
Researchers from Drexel's College of Engineering and their collaborators have figured out a way to turn rubber from the nearly 300 million tires discarded each year in the United States into material that can store energy. Their research suggests that about 50 percent of a tire's mass could be converted to carbon powder, and then used in batteries and supercapacitors. The process includes pretreating the tires and heating them in a special tube-shaped furnace then depositing the resultant carbon on a thin film.



Welcome Back, Brooktrout

New York's Brooktrout Lake, one of hundreds of lakes and ponds in the state's Adirondack Mountain region, was once teeming with the fish that helped earn its name. By the 1980s, acid rain had killed them all. Fortunately, the Clean Air Act and its amendments in the 1990s helped to restore the ecosystem. Two Drexel scientists, Frank Acker and Donald Charles, were part of a recent evaluation of the lake's phytoplankton (floating algae), a valuable indicator of water quality. Their evaluation was followed by a successful reintroduction of the fish back into the restored lake.

DRAGON QUOTES



“Seeing the biggest spider in the world just a couple of inches from my nose when I first toured the exhibit was an experience I will NEVER forget.

— Academy Exhibits Director **JENNIFER SONTCHI** on the Academy of Natural Sciences’ *Tarantulas: Alive and Up Close*, on display through May 30, 2016.

“There’s an all-natural Cheetos that still has a significant amount of sodium and fat. Is it still a healthier food to eat just because it’s natural? No.”

— **ROBIN DANOWSKI**, a registered dietitian and clinical instructor of nutrition in Drexel’s College of Nursing and Health Professions.

“Our robots are actually not very intelligent at all. Little things — opening doorknobs, going up steps — that we take for granted are absolutely confounding for robotics systems right now.”

— **YOUNGMOO KIM**, an associate professor in the College of Engineering and director of the ExCITe Center, on why we shouldn’t fear a robot uprising.

“Read labels... If you cannot really pronounce it, maybe you should not be eating it or drinking it.”

— **STELLA VOLPE**, professor in the College of Nursing and Health Professions, on ways to lower your sugar intake.

“This is an incredible opportunity for students to experience the rich, vibrant cultural history of Cuba while developing their professional skills in a foreign country.”

— **GERARD HOOPER**, a teaching professor in the Westphal College of Media Arts & Design who brought Drexel students to Cuba to study in Cuba’s iconic film school.

There’s so much artwork going on at Drexel and it is often overshadowed by the sciences. We want to say, ‘Art is here!’”

— **JOY WEIR**, a junior entertainment and arts management major and president of the Entertainment & Arts Society, about the decision to host a celebration of Drexel student artists called “Night of the Arts.”

“Sandy and I wanted to be certain that 11th Street would have the best possible facilities to continue to expand and deliver what we call ‘The Miracle on 11th Street.’”

— **STEPHEN SHELLER**, a Drexel trustee and lawyer who along with his wife, Drexel alumna Sandra, donated \$2.5 million to expand the building housing Drexel’s 11th Street Family Health Services, which now bears their names.

SEVEN CHARACTERS // *The Story of* 8 9 0 8 7 8 7

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. Kapil Dandekar's idea for a self-configuring wi-fi antenna is one of nearly 300 patents issued to Drexel faculty, and this is the story of how it came to be.

The inspiration for U.S. Pat. No. **8908787** came to Kapil Dandekar in **2002** while he was watching reruns of "Terminator 2," the **1991** film in which Robert Patrick plays a robotic assassin from the future who can dissolve into liquid metal and recombine in any shape.

An endlessly adaptable metal? Talk about an engineer's dream come true. "What if you could make an antenna out of that?" thought Dandekar, who teaches electrical and computer engineering in the College of Engineering and heads the Drexel Wireless Systems Laboratory.

Although sci-fi assassin metal is unfortunately unavailable, Dandekar believed it was possible to build an antenna embedded with electronic switches that would enable it to automatically reshape signal beams for optimum transmission — in a size small enough to fit in a laptop.

Such a device would mean no more wireless hotspot dead zones and no more data slowdowns, even on the busiest public bandwidths.

Like most bright ideas, this one bounced around for a few years. Dandekar shopped it to **two** or **three** grad students, hoping someone would take up the complex, intricate math as a dissertation topic.

"But it never seemed to click," he says. "There's a very significant gap between large-scale vision and actually implementing something."

Eventually, a graduate student from Italy named Daniele Piazza (one of this year's 40 Under 40 honorees; see page 39) took up the project — and spent the next **10** years perfecting the technology.

Dandekar says he realized they were on to something about **five** years ago, when they were testing how machine learning could intelligently adapt the antenna design. After shutting the demo antenna down and starting it back up, the device returned to the best known state of configuration.

"It was actually learning something about where it was and how to optimize its own transmissions," he says.

In **2010**, Dandekar, Piazza and their colleague Michele D'Amico filed a patent for a "reconfigurable wi-fi" antenna. That same year, Piazza launched a company called Adant Technologies Inc. to develop and market the invention to broadband companies.

Dandekar is now **one** for **one**: This was his **first** patent to issue, and it's already on the market.

"Commercialization wasn't my initial thought, honestly; I just thought it was cool," says Dandekar. "Daniele, to his great credit, has entrepreneurial skills. You like to see students latch onto an idea and run with it. And he *really* ran with it." — *Sonja Sherwood*



JEFF FUSCO

Unusual Handiwork

Twice in the past four years, Philadelphia has been the site of surgical firsts in the field of hand transplantation, and both times, Gayle Severance '04 helped ensure their success. BY QUEEN MUSE

In 2011, Philadelphia physicians performed the world's first bilateral hand transplant on an adult. That laid the groundwork for 2015's successful first-time double hand transplant on a child.

Gayle Severance, a graduate of Drexel's Advanced Practice in Hand and Upper Quarter Rehabilitation post-bachelor's certificate program, was at the center of both historic operations, as part of a select team of hand therapists helping the patients adapt to life with donated limbs.

"If you get a heart transplant, it's inside, and nobody sees it. But with a limb, it's so visible and it's so personal," Severance says. "So, our biggest role is to help the patient, not just physically — to protect their limbs, and gain motion and function in their new limbs — but help them to accept their new limbs as their own."

Severance was one of several hand therapists who treated Lindsay Ess, a quadruple amputee who lost her hands and feet due to a debilitating infection. After the surgery, Severance spent four months guiding Ess through hours of stretches and bends until Ess was able to move her hands on her own. Severance now sees her just once a year for routine assessments; today, Ess is able to drive, is actively involved with Crossroads Adaptive Athletic Alliance, and participates in adaptive CrossFit competitions.

In the most recent bilateral hand transplant, performed

on 8-year-old Zion Harvey, Severance was called in to provide insight from her previous experience to the team of surgeons at the Children's Hospital of Philadelphia. The story of Harvey's 11-hour breakthrough procedure claimed the attention of audiences around the world.

"It's a very emotional treatment when somebody gets new hands," Severance says. "And it's a very emotionally challenging experience for all of the family and medical caregivers. The stress on the therapist is high. It's important to have that support from somebody who's been through it before."

Having served as a hand therapist for Good Shepherd Penn Partners' rehabilitation services for the past 10 years, Severance is no stranger to the complexities of major transplant rehabilitation. But she says her time in Drexel's Advanced Practice in Hand and Upper Quarter Rehabilitation certificate program truly helped her to become a better clinician.

"Drexel's program helped me to improve my knowledge and confidence to go on to get my board certification and take on these leadership roles," Severance says.

Drexel's Hand and Upper Quarter Rehabilitation certificate program was created in 1999 to teach physical and occupational therapists how to properly examine and treat patients with hand and upper extremity dysfunction. It is now also offered as a hybrid online program. Since its inception, more than 90 percent of all participants in the program have gone on to pass state exams for physical therapy certifications.

The program is run by Jane Fedorczyk, a clinical professor and director of post-professional clinical programs at Drexel. Fedorczyk says she personally encourages her students to engage in professional lifelong learning and to continue advancing the field.

"The thing that I find most rewarding is seeing my students take on leadership roles and Gayle is a perfect example of that," Fedorczyk says.

Since attending Drexel, Severance has gone on to participate in several medical missions involving hand therapy and has received multiple teaching awards, including the 2014 Vargas International Hand Therapist Teaching Award from the American Association for Hand Surgery.

Severance's current role as a team leader in hand therapy is a long way from her initial college dream of becoming a lawyer and working in government, but she says she has no regrets.

"It's not my dream job; it's my perfect fit job," she said. "I learned more about occupational therapy through some colleagues, but once I did an internship in hand therapy, I fell in love with it. I sort of fell backward into it, and it worked out perfectly." [D]



CO-OP SHOW & TELL

Every year, more than 5,200 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 more than 1,700 co-op employers in 49 countries. What does a Drexel co-op look like? In this regular feature, we ask a student fresh off his most recent co-op to show us. — *Katie Clark*

I ♥ CHEMISTRY

**GRIFFIN RIPLEY — PRE-JUNIOR,
MECHANICAL ENGINEERING**

THE CO-OP: This was my first co-op and I worked (and still work part-time) at Johnson Matthey, a New Jersey-based sustainable technologies plant that refines platinum, gold, silver, palladium and other precious metals. I worked in maintenance and engineering and have come in contact with smelting precious metal bars, operating and maintaining heavy chemical reactors and other such equipment, analyzing failed equipment to determine cause of failure, overseeing the construction of new plant equipment acting as head engineer, and redesigning the entire site's lockout/tagout safety procedures for the proper de-energizing of our reactors.

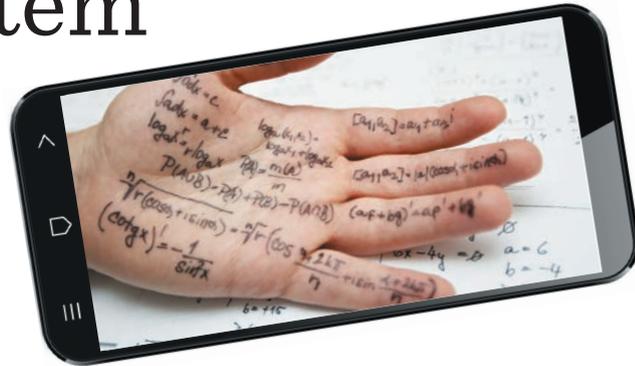
THE OBJECT: I'm wearing a bump cap. It's representative of the hazards of the location. They are required on the production floor, since right above your head are huge tanks of concentrated hydrochloric acid (among other chemicals used for stripping metal). And, security is so tight at Johnson Matthey, it's one of the few things I could get out of the facility.

THE TAKEAWAY: Before this co-op I absolutely hated chemistry. Now I quite enjoy it. At Johnson Matthey I realized that chemistry was so much better in practice — seeing it happen in front of me on large-scale chemical reactors — rather than out of a book. One of the biggest things I learned was how to accept criticism. I think at Drexel, or more specifically in classes, they just give you a B and that's it. In person, at a job like this, it's so much more. We take time and work collaboratively to figure out how to do something better. It's a much more personal experience.



Cheating the System

The days of classroom cheaters writing the answers to an exam on their hands are over. Nowadays, there's an app for that. Overstressed or underprepared students are able to tap into the Internet or use their smartphones to copy or receive information about test questions. Academic integrity is second only to alcohol in the number of cases that appear before the Office of Student Conduct and Community Standards at Drexel (and likely at universities everywhere) and technology and social media are always evolving to elude detection. But, cheater beware. The risk of getting caught is evolving at a similar rate. And the consequences can be life-changing. Inspired by headlines about the notorious sounding-board app Yik Yak, *Drexel Magazine* asked a mix of experts about the state of cheating in the age of smartphones. — Katie Clark



DM: Over the past 15 years or so, what has the cheating culture been like here at Drexel? And how has the University been keeping pace with the technology to combat cheating?



MIKE SCHEUERMANN IS AN IT PROFESSIONAL WHO HELPS FACULTY FIGHT INFRACTIONS LIKE CHEATING AND PLAGIARISM VIA TECHNOLOGY-BASED AND TRADITIONAL SOLUTIONS.

MS: In the movie “Animal House,” the featured fraternity has members steal the original mimeograph form of a particular final exam after hours, when only custodial staff are around, apparently the night before the actual tests were given. Today, that can be done without breaking into a campus building or office at night. Some students take screen shots of test questions and share them. Others have hidden video or still cameras to capture various exam elements without anyone knowing it. While the academic honesty violations happening today, like the Yik Yak example, seem new, they are really little different from

the cheating enacted by John Belushi and his buddies in “Animal House.”

There is not much that is new here — except for the delivery/sharing method between the cheaters.

A few years ago, there was a string of articles in the *Chronicle of Higher Education*, much like the one about Yik Yak. Some Drexel officials got together and said “How do we keep Drexel away from headlines like this?” So we created a subgroup within the University’s Online Learning Council (OLC) devoted to this issue. The council envisioned and fashioned a website as a one-stop-shop for resources for instructors, whether they were facilitating online courses, hybrid ones or teaching face-to-face, and this working group posts information and many resources there. We wanted to make sure that the University community was talking about academic integrity in class, that policies were clearly stated in a class syllabus, and that faculty and teacher assistants were aware of the resources and technology available to them.

Cheaters use instant messaging, email, voicemail, video and any manner of electronic communication to share information. At the end of the day, cheaters will get their comeuppance. Employers will challenge

them to show what they learned, and they will not be able to produce. They will speak, and it will be clear to listeners that they did not pass basic humanities courses on their own. Their decision-making will be flawed. Their critical thinking will be substandard. They will pay the price, whether they cheated on the exam through conversation, Yik Yak or any other means, actually. The price cheaters pay will be a heavy one — not to mention how it will forever weigh on their consciences.

DM: What are the common reasons for this behavior coming through your office? And if a student is suspected of cheating or plagiarizing, what happens?



STEPHEN RUPPRECHT IS ASSISTANT DEAN OF STUDENTS AND HEAD OF THE OFFICE OF STUDENT CONDUCT AND COMMUNITY STANDARDS.

SR: The academic integrity policy is the second-most violated (and reported) at Drexel behind violations of the alcohol policy. Within the academic integrity policy, plagiarism, by far, domi-

nates the types of cases reported by faculty, followed by cheating. (*Editor's note: According to Drexel's student handbook, "plagiarism" is the inclusion of someone's previously documented words, ideas or data in one's own work. "Cheating" is an act or an attempted act of deception by which a student seeks to misrepresent that he or she has mastered information on an academic exercise that he/she has not mastered.*) Of the 208 reports received in 2013–14 (the most current data available), 65 were for cheating, 130 were for plagiarism.

Competition is the No. 1 reason to cheat. These students are looking for any kind of edge possible. Unfortunately, they are turning to the dark side to achieve that outcome.

If a student is suspected of violating academic integrity, the first thing that happens is that the instructor has to make a decision on whether or not to confront the situation. If the instructor moves forward, he or she then seeks the student's response to the allegation, and if the student takes responsibility, the two will talk about sanctions.

Some of the penalties range from the student failing the assignment/quiz/exam, which may not affect the final grade, to a reduction in the grade for the course or even failing the course. Some instructors say that the fact that they are even reporting it is punishment enough.

These are formative years for these students, and they are going to make mistakes. One of the things that I think we are responsible for as educators is to guide them in the right direction so that when they leave our campus, they are better prepared to make the right decision. I certainly hope they don't carry this behavior into their profession — the literature supports that students who cheat in college will cheat in the workforce. But, beyond that, I am most concerned about nurses, engineers — I wouldn't want to drive my car over a bridge designed by an engineer who cheated.

DM: As a student, what roles do you think academic pressure and competition play as a catalyst for academic dishonesty?



STUDENT BRIDGET CONAWAY IS A SENIOR PSYCHOLOGY MAJOR WHO SERVES AS TREASURER OF THE PANHELLENIC COUNCIL AT DREXEL (AND DOES NOT CHEAT).

BC: Drexel is

fast-paced. Most students are taking five to seven classes a term on top of working part-time, and are involved in extracurricular activities and other things in order to develop themselves as individuals. There is not enough time in the day to do what you want and need to do. That overwork can definitely promote this kind of behavior. The high-drive students that we have here at Drexel want to be the best — failure for most people at this point in their lives is not an option.

I find that a lot of people cheat in classes that are not specialized toward their major, like general education classes or even classes they're just not "into" anymore. That disinterest, paired with frustrations in general life, drive them to look to other places for the information. And with technology, this is definitely easier. It's also much easier to get caught.

A lot of students aren't aware of what can happen or they don't imagine in the grand scheme of things how it will affect them. To me, cheating isn't helping in any way, it doesn't benefit you or anyone else. Helping other students, whether through social media or some other means, isn't going to improve your life overall. You don't pay all this money to go to college and not really earn what you have.

DM: Cheaters may not realize that they leave behind digital fingerprints. As a faculty member, how easy is it to spot evidence of cheating and plagiarism?



CHRISTOPHER YANG IS A COMPUTER SCIENCE PROFESSOR AND EXPERT IN SOCIAL MEDIA.

CY: Whenever I talk to people, I say there are many ways to cheat, but it's very unwise for you to do

it, because we will find it. You can cheat from the Web or from social media, but so can someone else, and so there is a lot more evidence to show that you have cheated. Everything you copy is still out there — even your conversation about it is digitized.

There really is no "anonymous" in social media — if you talk about where you study, what courses you study, what dorm you're meeting at, it can all be traced back to who a person is.

In courses with 40 to 50 students, I think the behavior is more difficult for a professor to identify. The courses I teach are small, so I can easily tell if students are cheating or plagiarizing. In some cases, the writing of one of my students may look very different from one particular sentence to another, and I can easily see and search and find it somewhere, and find the source very quickly. I usually don't check every single paragraph, but if the writing doesn't integrate from sentence to sentence, that's an indication that it may not be the student's original work.

If I suspect a student has cheated, I have him come to my office, and I ask to hear in his own words if he did the work on his own. I have given second chances — in some cases, I understand the student is not intentionally doing something wrong. My job is to help them learn at the same time. But if a student was dishonest and is intentionally trying to hide it, my job is to find evidence and prove it and then they should be penalized. [D]

from the **DAC**

Down a relatively unpopulated hallway in the busy Drexel Recreation Center is the lair of **Michael Rankin**, the man in charge of keeping the claws sharp and the fire hot in Drexel's Dragons.

READY THE DRAGONS

TOMMY LEONARDI

BY JOHN A. FANTINO

There's nothing "off" about the off-seasons for varsity sports at Drexel. That's when things get busy for Michael Rankin, the man tasked with making sure the Dragons are in tip-top shape.

"You hear it all the time, the importance of the off-season," says Denise Dillon, Drexel's women's basketball coach. "That's when we get better, and the speed and the agility and the strength offered by Rankin and his department is so crucial. We're lucky to have him here."

For the past 12 years, as Drexel's director of strength and conditioning, Rankin has inspired and transformed thousands of Dragon athletes with his dogged work ethic, innovative approaches, motivational techniques and, perhaps most importantly, contagious passion for fitness.

Rankin and his staff implement training programs for every varsity sports team on campus, then work closely with student-athletes in a weight room Rankin has improved over the years.

"He's the best," says Zach Makovsky (BS '06), a former Drexel wrestler and professional mixed martial artist. "There's reason and logic behind all the training. He's taught me so much about how to structure my training."

Makovsky continues to train at Drexel's Walter Spiro Varsity Weight Room in preparation for fights. Several other Drexel alumni who play professionally in various sports do the same, a testament to the state-of-the-art facility Rankin designed and his value as a strength and conditioning coach.

"It's a huge advantage to have a guy like that and a facility like this one at Drexel," says Makovsky.

That's music to Rankin's ears. A gym fanatic for as long as he can remember, Rankin is still pinching himself after finding a way to make a career out of his passion.

"That's my favorite part of the job, knowing that in some way I had a positive impact on these kids," Rankin says.

After a college football career was cut short by injury, Rankin, a native of Glen Mills, Pennsylvania, graduated from West Chester University with a degree in kinesiology.

He landed a four-month internship in Boston with Mike Boyle, who at the time was the strength coach at Boston University and who also ran a private facility that worked primarily with professional athletes. Rankin returned to the Philadelphia area

with a wealth of knowledge and a dream of making fitness a career. He became a graduate assistant in the strength and conditioning program within Drexel Athletics, and in 2003, that led to the full-time position he currently holds.

Whether it's Rankin leading by example (he isn't shy about jumping into a workout as a training partner when motivation is needed), or by his innovative strategies (he recently implemented a smartphone and tablet application that allows athletes, coaches and medical staff to monitor workouts), or his intensity and enthusiasm, Rankin has inspired thousands of student-athletes during his tenure at Drexel.

"He goes at it 100 percent," says Jocelyn Quaile, a recent

Drexel graduate and standout women's lacrosse player. "Before I came to college I did not know anything about weight lifting. He taught me basics as a freshman, and from there, he really motivated me to be better."

Rankin oversees the 3,500-square-foot training room in the Daskalakis Athletic Center, utilized by all 18 varsity teams and loaded with cutting-edge equipment that includes a band wall, battling ropes, stall bars, plyometric boxes, stability balls and

climbing gear. It's a major improvement from the much smaller, non-air-conditioned room he inherited a dozen years ago.

"It didn't happen overnight," Rankin explains. "Everything down here has been a piece-by-piece progression, but if you have the plan, you can see what you're chipping away at. I absolutely love that, and a big reason why I'm still here is because I want to see it out."

Another driving force for Rankin: the student-athletes he deals with on a daily basis. He takes pride in seeing them physically develop from freshman, and helping them battle back to top form after an injury.

"Everyone tells me I should take some credit [for student-athletes' success], but they are the ones doing all the work," Rankin says. "They're the ones coming in here, getting focused, moving the weight, running as hard as they possibly can. They have a lot on their plate as student-athletes and still find time to come in and put forth a heck of a lot of effort."

"I have a lot of admiration for these kids," he says. **[D]**

"There's reason and logic behind all the training. He's taught me so much about how to structure my training."

A Game-Changing Education

It wasn't a degree from a renowned journalism school that prepared 2010 graduate Mike Mazzeo for a career with ESPN. It was his time working for Drexel's student-run newspaper, radio station and his co-ops in the industry that had one former employer saying, "Whoa, this guy's good." BY KEVIN ROSSI

Most students in college feel unsure of their futures. Even those who come away with successful careers have felt the pressure.

Mike Mazzeo '10, a Brooklyn Nets beat writer for ESPNNewYork.com, was feeling that way not long ago.

The Warren, New Jersey, native began his Drexel career in the fall of 2005, majoring in sport management. A lifelong fan who'd dreamt of a career in sports, he couldn't pass up using Drexel's co-op to gain industry experience in a major sports city.

But he hit a roadblock during his first co-op search when his options dwindled. Running out of places to turn, he fell into a chance at sports writing at *The Triangle*, Drexel's student newspaper.

"I always had a passion for sports, but I wasn't a sportswriter at first," Mazzeo says. "It definitely took some time, some tender love and care, and I ended up loving it. I was really passionate about it."

Soon, he was hooked. *The Triangle* was a start, and it led to co-ops at Comcast SportsNet (CSN) and the *Philadelphia Daily News* that solidified his love for sports writing.

"Mike was one of those guys we refer to as first-ballot CSN intern hall of famers," says Brian Schiff, the producer who hired Mazzeo to intern for Comcast SportsNet's

Daily News Live. "He was really bright, obviously, going to Drexel. He was totally into it, and he was willing to do anything that was asked of him at any time."

"The standard for getting in the paper is the same whether you're an intern or someone who has been there for 30 years," according to since-retired *Philadelphia Daily News* Sports Editor Chuck Bausman. "The reader expects a high level of writing, and that's expected from the interns. We didn't baby them. With Mike, right from the get-go it was like, 'Whoa, this guy's good.'"

Mazzeo used Drexel's resources to continue improving. He and *Triangle* Sports Editor Brett Fischer started "Mazz and the Fisch Sports Radio" on WKDU. He tried out color commentary on women's basketball radio broadcasts. He wrote and anchored "The *Triangle* Minute," a minute-long video news segment.

"I think back to it all whenever I do something now for TV because that was really the foundation. I got to learn on the fly, so I was definitely prepared," Mazzeo says. "That's a definite Drexel theme. I was prepared for a lot of things that I ended up being thrust into because I had done radio, I had written for places

with credibility, I had done TV."

After graduation, he wrapped up an internship at NJ.com, but no full-time opportunities presented themselves. What next? Move home? Grad school? There was that feeling again.

While weighing his options, Mazzeo received a call from a former NJ.com coworker. ESPN was starting a website for New York sports, and there was an opportunity to cover high school football.

Finally. A chance to focus his fire, his passion for sports. A chance to put all that time of trial and error at Drexel to the test. All while reporting on teams he idolized growing up in North Jersey.

Now 28, he's worked his way up to covering the Nets full time.

"I always had a passion for sports, but I wasn't a sportswriter at first."

"A lot of things I did at Drexel revolved around sports because that's what I've always been passionate about, and all the avenues were right there," Mazzeo says. "There are a lot of great journalism schools, and a lot of people I work with went to those schools, but personally I don't think I would've ever done what I ended up doing if I went anywhere else but Drexel." **[D]**



MICHAEL PARAS

2016
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FORTY UNDER FORTY



Our annual
compendium of
Drexel's most
innovative,
impressive
and inspiring
young alumni



JEFF FUSCO

JOHN KUEHNE ▶

No. 1

john kuehne

34 | When the devastating waters of Hurricane Sandy receded from Jersey shore towns, John Kuehne was left with the task of ensuring that beachfront properties were safe from storms in the future. Easy, right?

DON QUIXOTE. Sisyphus. John Kuehne. Did you guess? They're all people engaged in impossible tasks. For Kuehne '12, the task involves trying to acquire 127 miles of New Jersey shoreline by asking owners to give up their beaches for free. In return, he's offering them the state's promise of greater protection against the devastating force of the next Hurricane Sandy.

Which is less likely: Getting hold of the land, or holding back the sea? Either way, Kuehne and the team with which he works are slowly but surely succeeding.

As a deputy attorney general in the New Jersey Office of the Attorney General, Kuehne's present role effectively came into being when Congress funded the Disaster Relief Appropriations Act of 2013 to compensate Sandy victims and pay for a range of shore protection actions. This includes the acquisition of the beaches attached to some 4,500 properties in order to construct protective dune structures.

How to make that happen? This is where Kuehne's experience earning a juris doctor from Drexel's Kline School of Law comes in. "The greatest skillset I learned was the ability to listen, listening to what a person is telling you and then understanding what it is that might be in the best interests of the person," he says.

That is just how he has approached his present work. "It takes a person willing to talk with and communicate well with people. So much of my day is spent on the phone working through people's problems and concerns and finding a good middle ground," he says.

He and his colleagues have been remarkably successful, working through this personal-contact approach. The state has acquired all but 300 of the needed 4,500 properties. That is a big deal, as New Jersey is one of the few states that allow landowners to actually hold title to the beach. Even more impressive is that all of those homeowners so far have voluntarily handed over the land without asking a penny in compensation from the state.

The process here is anything but cookie-cutter, Kuehne explains, since every property has its own particular features and facets. "There may be a party deck, and if that deck is a structure, how do we compensate for that? With some properties there is a matter of access to the beach, for example, for a person with a disability. Then we have some properties where special accessways need to be created to allow the public to get to the beach," he explains.

Kuehne works with a multidisciplinary team to overcome these challenges. "Our position is to act as the liaison between the Army Corps of Engineers, the Governor's Office, the municipalities and the individual property owners," he says. "We have to work with all of these groups and we have to get everyone on a path forward, even when their interests don't always align."

Success here takes a lot of hands-on work. For a lawyer, Kuehne spends little time with law books and far more time wrangling with the tangible realities of a shoreline in need of long-term support. This approach harkens right back to his time at Drexel. "I am an experiential learner; I work best by doing, and Drexel gave me that opportunity to learn in that hands-on way," he says.

— Adam Stone



No. 2

JAIME ANNE EARNEST

35 | MPH HEALTH MANAGEMENT AND POLICY 2009

Lord Kelvin/Adam Smith Research Scholar, University of Glasgow (United Kingdom)

► **MY GREATEST ACCOMPLISHMENT:** I've been grateful to have been afforded many extraordinary opportunities — from prestigious scholarships at world-renowned universities, to presenting award-winning research to international audiences — and I have shared my thoughts on health, science and well-being in major media outlets. Despite these achievements, and those that may come after, understanding public health science as a vocation, and not just a job, is my greatest accomplishment. Choosing public service every day will always be my greatest and proudest achievement.

► **HOW DREXEL HELPED:** Drexel University as a whole has a wonderful tradition

of promoting practical, community-based experiential learning. No place is this more true than in the Dornsife School of Public Health, where community and problem-based learning was continually emphasized, and the human rights and social justice aspects of public health work were ingrained in the curriculum. I'm proud to be a Drexel Dragon for these reasons, and my commitment to continuing to work in the community, and not just in the academy, stems from this tradition.

► **WHERE I'LL BE IN FIVE YEARS:** The nature of public health is that you go where there is need, and those needs are always dynamic. Public health is global, and I'm happy to continue travelling the globe to serve. While I don't know where precisely I'll be, I'll be writing, communicating, researching and most importantly, engaging with my community to promote human health and well-being.



No. 3 | Nicholas Walsh

31 | BS FILM 2007

Manager of social media and digital strategy, BLT Communications

► **MY GREATEST ACCOMPLISHMENT:** It's hard to decide between my career accomplishments, creating a grassroots campaign for Hillary Clinton, or playing two championship dodgeball games at the Staples Center. I've been fortunate enough to work on some amazing social media marketing campaigns, including "The Walking Dead," "Boyhood," and "Pitch Perfect 2," and working with studios like Netflix, HBO, Universal and Amazon. One of the most rewarding experiences of my life has been a personal project I created in 2015 to raise awareness for Hillary Clinton's 2016 campaign and social issues that are important to me. Called #risePOTUS, the social media campaign has been a combination of pop culture and politics, built around a brand I created that taps into Internet culture using GIFs and memes. I've been able to meet with Clinton's campaign and even meet Hillary herself! And, if you're just dying to know about my superstar dodgeball career, tweet me @NickWalsh! ► **HOW DREXEL HELPED:** Without my Drexel co-op I never would have gotten my first job in Los Angeles, which ultimately led me to my career in social media marketing. I was so grateful to be able to intern while still in college and make the connections I needed to take the next step after graduation. ► **WHERE I'LL BE IN FIVE YEARS:** Similar to when I graduated Drexel, I hope I'm working on something that doesn't exist yet. I want to be the vice president of hologram marketing or something flashy like that!



ELAINA ALONZO

No. 4

REBECCA JUDITH BILLANTE

34 | MS FASHION DESIGN '08

Senior knitwear designer, Nordstrom Product Group (Seattle)

► **MY GREATEST ACCOMPLISHMENT:** About a year and half into my employment, I was working at my first job as an associate designer for the international, multi-billion dollar corporation, LF USA. I was selected out of a design division of more than 40 seasoned employees by the division's senior vice president to launch a special project in Hong Kong. I was relocated by the company and lived and worked there for just shy of six months. I was the only U.S. employee in the Hong Kong office. I traveled periodically into Southern China to assess sample room capabilities and met with supply vendors to establish and define new working relationships. I assisted in staffing and supporting our Hong Kong product development team. I also served as a daily liaison between the New York office and our Hong Kong and Shanghai counterparts. I'm also very proud of where I am today. I entered the job market

during the economy crash of 2008, making for a very difficult start. My family, friends and confidence in my superior education have continuously helped me to keep going. I have fought hard to get where I am. All of my experiences thus far, both positive and negative, have shaped me into a resilient, hard-working, accomplished professional. ► **HOW DREXEL HELPED:** My Drexel education was one of the best life decisions I have ever made; I never look back and regret my educational choices. I am so very proud to call Drexel my alma mater and with that pride has come confidence in myself and confidence in my career. Drexel's Fashion Design program is phenomenal; I truly feel that I have one of the best foundations out there. It is a very well-balanced program with a solid mix of technical and fine arts that has given me the tools to really understand and excel in all aspects of my industry. The program is also staffed with wonderful, experienced educators. When asked where I went to school, I am always very proud to say, "Drexel!" ► **WHERE I'LL BE IN FIVE YEARS:** I'd love to be a design director leading a knitwear department of a successful fashion company.

No. 5

KATHERINE MCNAMARA

20 | BS BUSINESS ADMINISTRATION 2012

Actor/singer, appearing in "Shadowhunters" (TV series) and "The Maze Runner" movie

► **MY GREATEST ACCOMPLISHMENT:** I would like to think it hasn't happened yet. I'm one to push myself to learn, grow and improve both personally and professionally. However, if I must choose, I would say that earning a bachelor's degree summa cum laude at age 17 while working full time in my industry is an accomplishment of which I am proud.

► **HOW DREXEL HELPED:** The flexibility of Drexel's online platform enabled me to complete my degree in a way that did not inhibit my career, but actually enhanced it. I was able to earn a degree from a well-respected university that complements my work and allows me to manage it from a business and creative standpoint, while earning the respect of my peers and employers.

► **WHERE I'LL BE IN FIVE YEARS:** In five years, I plan to still be working as an actor in film, television and theater. If all goes well, "Shadowhunters" should be finishing up its final season. Overall, my goal is to continue making smart decisions both creatively and managerially.

No. 6 | Ryan Stancil

29 | MD 2012

Diving medical officer and lieutenant, U.S. Navy

► **MY GREATEST ACCOMPLISHMENT:** It's hard to narrow it down to one as my career has afforded me so many incredible opportunities. From working in one of our country's premier trauma hospitals after medical school to taking care of submerged astronauts, divers and marine biologists at Aquarius, the world's only underwater research facility, I feel like I've had multiple careers' worth of adventures already! But I am most proud of graduating from the Naval Diving and Salvage Training Center after my surgical internship in 2013. ► **HOW DREXEL HELPED:** The College of Medicine gave me the medical knowledge, clinical skills and confidence in my abilities to take care of the Navy's submariners and divers, two unheralded communities in our armed forces who keep our country safe beneath the sea. ► **WHERE I'LL BE IN FIVE YEARS:** I will be transitioning out of active-duty Navy service in a few years to begin residency training in orthopaedic surgery.



No. 7

PETER D. COYL

35 | MS LIBRARY AND INFORMATION SCIENCE 2010

District manager, J. Erik Jonsson Central Library, Dallas Public Library

► **MY GREATEST ACCOMPLISHMENT:** Through being active in the American Library Association, I've been able to defend intellectual freedom by championing the retention of GLBT materials for younger readers in local libraries. I've also served this past year as chair of the GLBT Round Table (the nation's oldest GLBT professional association), selected the winners of the Stonewall Book Award, given presentations at national library conferences and webinars, and contributed in making GLBT Book Month an official recognized annual celebration. We've just begun a new award for libraries to be recognized for their work in serving the GLBT community. These are great accomplishments but they are not about me, they are about

the communities and people we serve. Being outwardly focused on making our cities better places is what being a librarian is all about.

► **HOW DREXEL HELPED:** The Library and Information Science program helped teach me the importance of being active professionally. Without that, I might not have taken the leap to be involved. The professors and instructors also showed me

the good I could do in the community as a librarian. Drexel connected me with classmates who now as alumni serve as a professional network that I look to for support and guidance.

► **WHERE I'LL BE IN FIVE YEARS:** I'd like to be more involved on a larger scale focusing on national issues and programs surrounding libraries and intellectual freedom.



No. 8

JOSEPH ANTON

39 | MS NURSING 2009

Vice president of clinical and support services, Thomas Jefferson University Hospitals

► **MY GREATEST ACCOMPLISHMENT:** From a career perspective, my greatest accomplishment has been my progression from a staff nurse to my current role as vice president of clinical and support services at Thomas Jefferson University Hospitals in Philadelphia over the past 15 years. I am extremely grateful for this amazing opportunity and spend every day trying to live up to the challenge. While I loved my time working in the emergency departments both at Jefferson and Inspira, it was early in my transition to a leadership role that I realized I had the ability to have an even greater impact on patients and the quality of care they receive. In my current role, I oversee the emergency departments

at Jefferson, Methodist and Wills Eye, Jefferson's Clinical Decision Unit and chain of urgent care centers as well as emergency preparedness across the hospital system. I have previously managed a variety of departments and programs including transplant, bed management and the transfer center. In today's health care environment, it is important to focus on quality and cost containment but it is most critical that leaders take care of the people who are taking care of our patients.

► **HOW DREXEL HELPED:** My graduate degree at Drexel provided me a great foundation of both leadership theory and practical experience. The practicums were an excellent opportunity to demonstrate these competencies and network with other healthcare leaders.

► **WHERE I'LL BE IN FIVE YEARS:** I plan to be relentless in my efforts to improve quality, reduce costs and make Jefferson an even better place to work for our employees.



tamara miner

30 | As an engineer for game developer Riot Games, Tamara Miner plays a crucial part in keeping League of Legends running for millions of avid players.

IN SUMMONER'S Rift, player-controlled champions vie to destroy the enemy Nexus. Along the way they will traverse the jungle, encounter scuttle crabs, battle dragons and possibly slay Baron Nashor, all the while contending with turrets, inhibitors and minions.

If that sounds like gibberish to you, where have you been? The wildly popular online game League of Legends is the most played PC game in the world, with more than 67 million players battling for victory on its virtual fields every month. The 2015 League of Legends World Championships drew millions of online viewers and paid a hefty cash prize.

Tamara Miner, a 2008 information systems graduate and now product manager at Riot Games' headquarters in Los Angeles, is in the heart of the action — where she ensures her fellow engineers have the tools they need to make their lives easier and keep the game running smoothly.

Miner didn't start out in the gaming world. At Drexel, her co-op opportunities sent her to Comcast Corp. and then to Microsoft Corp., where her connections helped her land a job straight out of college. "It

kick-started my career, graduating with a year and a half of work experience," she says.

After graduation, she spent a few years in enterprise software working on cloud products — but a lot of her friends were working at game studios, and it looked great. "I asked myself, 'Why am I not doing something for my day job that I am already dabbling in and passionate about? As interesting as enterprise services are, I could be building games instead!'"

So she signed onto the League of Legends team, where she supports the infrastructure and tools that the developers need to expand and refine the game. In order to keep up player interest, designers must be constantly reinventing worlds, adding new capabilities, twists and turns. To do this, new elements must fit seamlessly into existing play. Miner makes sure the developers have all the technological capabilities they need to do the job.

Miner is to some extent a rare element, as a woman in the world of serious gaming. While gender hasn't been an impediment, it has certainly attracted attention, as when *Forbes* named her one its 30 Under 30 in gaming last year.

"I never noticed until I won an Xbox Women in Gaming award," Miner reflects. "At the industry luncheon that Microsoft puts on every year, I suddenly realized how often I am the only woman in the room. Ultimately, what is relevant is how well I do my job, not my gender. That said, I still see a lot of room for improvement across the industry and we all could do better. I try to approach any situation with humor, honesty, and an open mind, which tends to defuse any tension and allows open discussion."

While Miner tries to find time to play League every day, she said the greatest fun comes when masses of fans gather to share their enthusiasm and skills. This year's North American championships took place in New York's famed Madison Square Garden.

"The most invigorating thing is going to one of these events and being part of the crowd," she says. "It's more exciting than being at a hockey game. The entire stadium becomes completely engrossed in the gameplay!" — *Adam Stone*



No. 10 ANUP KATHERIA

37 | MD 2004

Research director,
Sharp Neonatal
Research Institute

► MY GREATEST ACCOMPLISHMENT:

Running a neonatal research program at the largest delivery hospital in California is one of my most exciting and greatest accomplishments since graduating from Drexel's College of Medicine. Every day I am able to look at new therapies that help premature newborns at birth — and determine the long-lasting implications of our therapies. I have been very fortunate to be able to work in such a dynamic collaborative field of medicine.

► HOW DREXEL HELPED:

Drexel's innovative teaching program at the College of Medicine prepared me for a leadership role. The faculty taught us to think outside of conventional medicine and challenge current thinking in managing and treating patients. Most important, they taught us the importance of collaboration to find answers, which can be seen in their unique program for integrated learning.

► WHERE I'LL BE IN FIVE YEARS:

I hope to be at the forefront in neonatal medicine — helping to design and develop treatments to improve outcomes in premature and term newborns who are at risk for brain and organ injury.

No. 9

No. 11

CLARENCE MARCUS LEE JR.

34 | MD '10, MBA 2014

Founder and CEO, CMLEEJR Cos.; medical director, U.S. Health-Works Medical Group (Sacramento, Calif.); former flight surgeon, U.S. Air Force

► **MY GREATEST ACCOMPLISHMENT:**

Breaking the barriers of poverty in my mind as a child. Growing up, I saw what it meant to not have money to pay your bills or have new things. For many around me, this became the story they told themselves about how life would

be for them. At the age of 10 I started to read biographies of people who had accomplished great things. In reading their stories I was able to elevate the possibilities for my self, first in my mind, and then in my actions. This laid the groundwork for every other goal I've reached for and achieved.

► **HOW DREXEL HELPED:**

Drexel has helped me in many ways, but the greatest was giving me an opportunity to study medicine at a great

university and in a great city. My journey to medical school wasn't a straight line at all. I was the first in my family to get a four-year degree, play basketball in college, become a military officer, become a doctor, and graduate business school. After applying unsuccessfully to medical school four times, Drexel offered me an opportunity to study in a post-baccalaureate program called the Drexel Pathway to Medical School. That program ultimately gave me a seat in the 2010 class in the College of Medicine. Opportunity sums up what Drexel has done for me.

► **WHERE I'LL BE IN FIVE YEARS:**

My five-year plan includes many things, but at the top of my list would be to grow my personal development company to a point of greater contribution in the space of educational advancement and workplace healthy living. This involves national training programs for corporations and for young, first-generation college students. I also will publish a few books. Lastly, I plan to continue to advance in my career as a healthcare executive to the C-suite of a national healthcare organization.



No. 12

ALISA MELEKHINA

24 | BA PHILOSOPHY (SUMMA CUM LAUDE) 2011

Litigation associate, Debevoise & Plimpton LLP, and an international and national chess master

► **MY GREATEST ACCOMPLISHMENT:**

With many thanks to the Drexel Philosophy faculty who provided their guidance in helping me customize my program, I was able to tailor my studies and transfer my high school credits to graduate with a bachelor's degree in two years. I continued directly to law school at the University of Pennsylvania and finished my juris doctorate in 2014. I am currently practicing at a corporate law firm in New York City.

► **HOW DREXEL HELPED:** During my first year at Drexel I participated in the 2009 U.S. Women's Chess Championships, where I finished third place and that year I also represented the United States in the Women's World Team Championships in Ningbo, China, where I won the gold medal. Currently, within the United States I am ranked among the Top 10 female players.

► **WHERE I'LL BE IN FIVE YEARS:** I plan to continue finding a balance between my legal and chess careers.

No. 13 | Lindsey Sin

36 | MBA 2014

Deputy secretary for Women Veterans' Affairs, California Department of Veterans Affairs



► **MY GREATEST ACCOMPLISHMENT:** It will always be my son, Max. He is amazing and I'm lucky to be his mom. Professionally, it is overcoming an enormous learning curve upon accepting my current position four years ago and not giving in to my own doubts and fears about my capabilities. ► **HOW DREXEL HELPED:** Drexel allowed me to attain a fantastic professional education and apply it to my work environment on a daily basis. My confidence grew significantly as a result. My classmates, professors and Drexel staff were very supportive, smart and dynamic people whom I feel privileged to know. I learned a great deal from all of them and will never forget my Drexel experience or family. ► **WHERE I'LL BE IN FIVE YEARS:** No idea, and I love that. If you asked me 10 years ago to picture this reality, I never would've guessed it and I couldn't be happier with where I am in life.



JEFF FUSCO

No. 14 & 15

BRAD GROSSMAN & MIKE ADELIZZI

35 & 36 | MBA 2011 (BOTH)

Brad Grossman, co-founder and vice president of marketing, Stabiliz Orthopaedics & Mike Adelizzi, co-founder and vice president of research and development, Stabiliz Orthopaedics

Brad Grossman and Mike Adelizzi are two of the founding members of a medical device startup called Stabiliz Orthopaedics who met as grad student cohorts in LeBow's accelerated MBA program for working professionals. They, along with the company's creative driving force, CEO and co-founder Doug Cerynik (who unfortunately, no longer qualifies for the 40 Under 40), invented an innovative new system for mending broken bones that promises to speed healing times and reduce surgical re-interventions. For the full story of how they've brought their business school dream to the brink of commercialization, see the cover story on page 46.

No. 16 | Amish B. Desai

35 | BS BUSINESS ADMINISTRATION 2003

Founder, Red Spruce Capital

▶ MY GREATEST ACCOMPLISHMENT: We believed for a long while that the market for investment advice was underserved and unsophisticated. This view was solidified by the pain experienced by people close to us during the "Great Recession."

Simply, we knew that people deserved better. My greatest accomplishment is executing on this vision by bringing into being Red Spruce Capital, a Berwyn-based boutique alternative asset investment firm that now has more than \$50 million under management.

▶ HOW DREXEL HELPED: My work experience started with a co-op at Susquehanna International Group, where I was

fortunate enough to be offered a full-time position before I graduated from Drexel. Without Drexel, I'm not sure where my career in this industry would have started (if at all).

▶ WHERE I'LL BE IN FIVE YEARS: Red Spruce Capital is the culmination of my education, experiences and passions. When we launched the firm, I fully expected this to be the last job I ever held. Frankly speaking, that expecta-



tion has not changed — so five years from now, I expect to continue working to service clients' investment management needs and working to grow Red Spruce Capital.



JOSHUA J. VOSS

34 | JD 2009

Associate, Kleinbard LLC

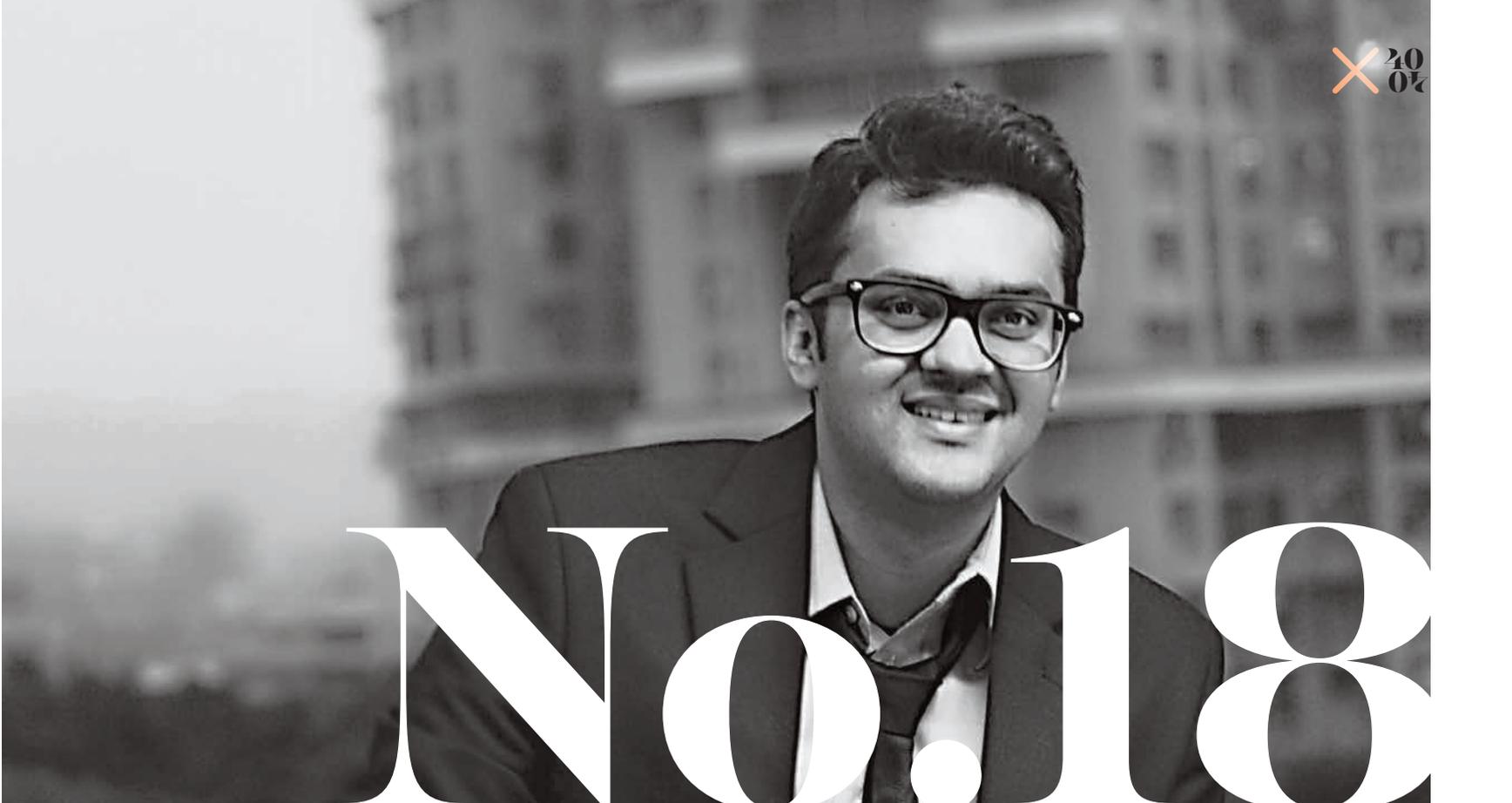
▶ MY GREATEST ACCOMPLISHMENT: Along with my former colleagues at Conrad O'Brien, where I worked until a recent move to Kleinbard, I represented State Senator Jake Corman in successfully challenging the sanctions imposed on Penn State University by the NCAA. As a result of our advocacy, a substantial endowment for the prevention of child sexual abuse was created in the Pennsylvania Treasury. In addition, Penn State's once-vacated football wins were restored.

▶ HOW DREXEL HELPED: Drexel, from the outset, challenged its law students to be great writers. The school committed serious resources and distinguished faculty to ensuring that our professional success was built on a foundation of outstanding writing abilities. In the NCAA case, much of the result was built on paper: A series of small victories in motions and responses ultimately yielded a large outcome. My writing background from Drexel proved invaluable in obtaining the final result.

▶ WHERE I'LL BE IN FIVE YEARS: A partner and, hopefully, a distinguished advocate in the Pennsylvania legal community.

No. 17





NO. 18

dhairya pujara

27 | Dhairya Pujara says the problem with his millennial generation is the focus on educating the mind, but what about the heart? Through his startup Ycenter, he chaperones college students to developing countries to build empathy through real-world problem solving.

"HERE IS MY BUSINESS CARD," says 27-year-old Dhairya Pujara '12. "And on the back is my story."

A few short sentences summarize Pujara's life: Born in India. Grad school in the United States. Quit desk job on first day. Went to Africa. Made an impact. Started Ycenter. Still learning.

What the card doesn't mention, though, is the day in a rural Mozambique hospital when Pujara watched a man die. Pujara was there as part of a biomedical international service program through Drexel; he was there to make a difference, he says. The man was choking on his own blood and needed an aspirator, but the hospital had lost electricity earlier that

day, and the generator was broken.

Surely Pujara, with a newly minted master's degree in biomedical engineering, could fix the generator? Wrong. Yes, Pujara was educated, but he felt he didn't have the necessary skills to help this man. And so he just stood there.

"After that, I was going to make sure that young graduates would never have to 'just stand there,' ever again," he says. From that, his startup Ycenter was born.

Pujara came to Drexel in 2010, attracted to the University by the sight of two powerful words on Drexel's website: translational research.

"The University wants to invest in research that actually sees the light of day, and they want to take their research to market, and that's the kind of guy I am," says Pujara. "I like to do real stuff."

When he graduated, he had a job lined up with a local health care information technology company. That's the job he quit on day one. "I wasn't right for the job," he says matter-of-factly.

Still connected to Drexel, Pujara reached out to former professors and mentors for advice. One offered him an unpaid position working with an international program through Drexel's School of Biomedical Engineering, Science and Health Systems that sends students to developing countries for months at a time to work at solving real-world problems. Pujara, dependent on a student visa

that required him to be employed, jumped at the chance. That is how he ended up in a rural hospital in Mozambique.

It wasn't long before he realized the program had problems.

"Drexel had been sending students to Mozambique through this program for three years, and while much work had been done, it wasn't measured," Pujara explains. "Students come, and they do good work with good intentions, but then they leave and the project ends. The students' work dies when they leave."

Another problem was lack of training for hospital staff. The facility was stocked with medical equipment, much of it donated by charities, but no one knew how to use it — or how to fix it, as Pujara learned when he watched a patient die soon after he arrived.

So, Pujara set to work.

"In five months, I fixed broken devices and created a training program for doctors to use the latest medical equipment, and teach others how to use it as well," he says.

Now, he says, he wants college students to be able to do this same kind of lasting, capacity-building work, an experience that goes beyond classroom education. He's doing it through his startup Ycenter, which took its first group of students to Mozambique last year.

In two years, Pujara has expanded Ycenter's reach in India and now in Philadelphia. The work in struggling communities is finished, he says, "when they don't need you anymore."
— Katie Clark

mark capriotti & mark corpus

No. 19 & 20

Both 33 | Mark Capriotti and Mark Corpus felt stuck on corporate career paths until they woke up and smelled the coffee...and ReAnimator was born.

WHEN FUTURE ReAnimator Coffee cofounders Mark Capriotti '05 and Mark Corpus '06 met at Drexel (Corpus' roommate was Capriotti's cousin), neither was very particular about the coffee they drank. Philadelphia had a similarly unassuming approach to coffee at the time, when La Colombe was the only specialty coffee roaster in town.

That all changed just a few years after graduation.

In 2010, both Marks were growing restless at their corporate jobs. Capriotti, who had studied electrical engineering as an undergraduate, worked at a helicopter assembly plant, and Corpus, who had studied business, toiled at a finance job. During his free time, Corpus began experimenting with roasting coffee beans at home and Capriotti, already a home brewer, tried it too. Soon, coffee seemed less of a hobby and more of a potential business.

"There was no small specialty

roaster in Philadelphia," says Corpus. "It just didn't exist in the city. No one was doing it."

The two started making plans. They outlined business operations, found a roaster, developed packaging and tested beans. They pooled their money to start the company, taking out loans instead of relying on outside investors. Corpus came up with the name from H.P. Lovecraft's 1922 short story "Herbert West—Reanimator," one of the earliest instances of zombies in fiction — a fitting choice for a coffee company.

For the first two years, they roasted beans in Capriotti's basement — "a rather hellish experience," recalls Corpus.

"We'd come home from our full-time jobs, roast all night, sleep a little and then go back to our jobs," explains Corpus, wincing a little at the memory.

"We delivered during lunch on Fridays and on the weekend," adds Capriotti.

But the hard work paid off. They started developing their coffee sourcing strategies and roasting profiles in October 2010, focusing on wholesale only, and sold their first coffee in April 2011. Corpus quit his job in

October 2012, when they bought a 12-kilo roaster and moved production to a warehouse. Capriotti followed suit in April 2013, after they signed the lease to open their first café in Fishtown. In August 2014, they opened a second location in Kensington, now headquartered as a café, production facility and training lab.

Throughout, they've stuck by their commitment to quality coffee. They source beans from farms in Nicaragua, El Salvador, Peru, Colombia, Ethiopia and Guatemala, taking annual trips to meet with roasters and farmers.

"We have an advantage over other roasters by visiting the farms and getting access to coffees that others don't have," says Corpus. "We want to develop relationships and make sure the level of quality is sustained."

ReAnimator Coffee is now carried locally at Whole Foods, many of Philly's co-ops, and at various cafés and specialty grocery stores including DiBruno Bros. Nationally, the coffee can be found in restaurants and multi-roaster specialty cafés.

The Marks now oversee 19 or so employees, and they have learned to apply corporate principles of running a business that they learned during co-ops and post-graduation jobs. Soon, they plan to increase the amount of roasting (five days a week, up from four) and cupping, or tasting for quality control (three days instead of two). And, who knows, maybe another café is in the offing.

"We're continually moving forward," says Capriotti. "If a location presents itself and it looks good, feels good and we think it's going to work, then we'll do it."

One hint as to where: "We've identified the brand with Fishtown since day one," says Capriotti. "I've lived in Fishtown since 2006; Corpus moved here in 2011. Our start was really at Greensgrow Farms, setting up during CSA pick-ups. Our first sale was to Almanac Market in Northern Liberties. We really identify with the neighborhood."

— Alissa Falcone





No. 21

SKYLER LOGSDON

24 | BS
ENTREPRENEURSHIP
2014

Vice president of business development, Prynt

► **MY GREATEST ACCOMPLISHMENT:** It's yet to come. A lot of exciting things have taken place in my life, from re-writing the record book in high school, where I hold five school football passing records; to receiving a full scholarship to study at Drexel, sponsored by Boeing & KPMG; to creating an app in college that received worldwide press in five countries; and lastly, the work I've done in Silicon Valley with ZIRX, and now Prynt. But, the honest truth is, I think my greatest accomplishments are around the corner, and I will have a better answer to this question in a decade :)

► **HOW DREXEL HELPED:** From day one, Drexel has been great to me. The day I landed in Philadelphia from California, I was

presented with a full scholarship through the Association of Latino Professionals in Finance and Accounting.

Through the Close School of Entrepreneurship I participated in a class called "Launch-It," in which students get \$2,000 to start their own ventures. This is where I began my first startup, MyKlips, a mobile app for all your favorite haircuts used by thousands of consumers to help them get their favorite haircuts, every time.

Looking back, Drexel helped me learn how to start things from the ground up. It gave me the confidence to excel as a young professional in Silicon Valley, regardless of my age. There isn't a task that's too large for me, or too senior, and that's because Drexel prepared me to make things happen, and believe that anything is possible.

► **WHERE I'LL BE IN FIVE YEARS:** In five years I will be 29. That's the age I want to venture off and launch my own company.

SHAN CERRONE

No. 22 | Victoria Napolitano

27 | BS SECONDARY EDUCATION;
MS TEACHING, LEARNING AND
CURRICULUM 2010

Mayor, Moorestown Township, and instructional designer, Thomson Reuters

► **MY GREATEST ACCOMPLISHMENT:** I am the youngest woman to serve as mayor in New Jersey state history. It has been a distinct honor to serve my community, and to serve as a role model to other young women. ► **HOW DREXEL HELPED:** Working in a co-op position during college taught me that you don't gain credibility through milestones (like graduations or birthdays); you gain credibility by doing a great job. That experience, coupled with a fast-paced learning environment that forced me to keep organized and focused, gave me a headstart that I wouldn't have gotten through a more traditional college program. ► **WHERE I'LL BE IN FIVE YEARS:** I'll be working as hard as ever for the residents of Moorestown, while continuing to nurture my private-sector career.



GOVERNOR'S OFFICE/TIM LARSEN

No. 23

DYLAN STEINBERG

28 | BS STUDIES IN MEDIA ARTS AND DESIGN 2009



Founder, CEO and creative director, Dream Machine Creative

► **MY GREATEST ACCOMPLISHMENT:** Establishing and expanding Dream Machine Creative, a New York City-based video production company, with my amazing team. And we're just getting started!

► **HOW DREXEL HELPED:** Drexel has had such an important influence on my work and who I am as a creative professional. The University ensured that the courses in media arts and design were innovative and challenging and part of a well-rounded curriculum, which enabled me to

become a versatile director, artist and businessman, as well as a good-hearted human being. Drexel provided me with a strong work ethic and commitment to success; I learned how to stay focused on projects inside and outside of the classroom. My professors displayed dedication to their own creative projects, serving as wonderful role models. Through their examples, they taught me how to balance work and life. The professors and dean of Westphal College of Media Arts & Design were incredibly supportive and made sure to challenge me in all of my endeavors. Importantly too, my professors

and classmates consistently provided encouragement and support, and I'm fortunate to employ fellow classmates and work with professors regularly as my company grows. We're also very proud to offer co-op positions exclusively to Drexel students. They are truly the best available and have been extremely instrumental to our growth and success since we opened our studio in 2012.

► **WHERE I'LL BE IN FIVE YEARS:** CEO and creative director of Dream Machine Creative; restaurant owner/operator, homeowner, husband of one beautiful woman, and father of at least one wonderful baby.



No. 25

GIRISH BALAKRISHNAN

25 | MS DIGITAL MEDIA 2013

Virtual production technical director, Digital Domain

► **MY GREATEST ACCOMPLISHMENT:** Even as a child, I dreamed of working on a Disney film. I was humbled by the opportunity to work on Jon Favreau's "The Jungle Book," a story very personal to me. Through this experience, I worked alongside the most talented artists and engineers in the industry to build new technologies of visualization for the chief creatives, leveraging game engine, motion capture and virtual reality tech. Collaborating directly with the director, production designer, cinematographer and visual effects supervisor, we brought storyboard frames to life and meticulously virtually composed, shot and lit every sequence in the computer before working on set with live actors. There is a sense of pride when you see the evolution of your team's work from pencil sketch to final render — that journey is unforgettable and the final product is nothing short of movie magic. I personally can't wait to

see the credits roll on this one real soon!

► **HOW DREXEL HELPED:** The key for all creative minds is to give them the freedom to explore and learn their craft. The Digital Media program provided me that platform to figure out exactly where I belong in this vast field. The faculty and peers are the lifeblood of any college experience, and the program's culture of self-motivation, student-driven learning and collaboration is one of its key strengths. Being a tinkerer, I was encouraged by my professors to experiment with pushing the boundaries of new media which paved the way for my thesis work in virtual cinematography, which unsurprisingly has become the very fabric of my career today.

► **WHERE I'LL BE IN FIVE YEARS:** Looking into the crystal ball, we are at the dawn of a brand new medium. I hope to keep pushing the boundaries of cinematic storytelling well beyond feature film into new realms of virtual, mixed and augmented reality. More importantly, I wish to continue bringing wonder to audiences for years to come!

No. 24 | Shabrei Parker

30 | JD 2010

Of counsel, Mincey & Fitzpatrick

► **MY GREATEST ACCOMPLISHMENT:** Becoming an attorney focused on civil, family and estate litigation, where I tend to represent fathers in family law cases, traditionally the underdogs of these matters. Hard work and a loving and supporting family combined with a terrific learning environment at Drexel helped me to make my childhood dream of helping people and making a difference become a reality. Currently, my firm is representing Congressman Chaka Fattah against a litany of federal charges, and I became part of the defense team by virtue of my background experience with criminal defense and strengths in legal writing.

► **HOW DREXEL HELPED:** Drexel helped me to visualize, and construct, my future. The experience I had while in law school changed my way of thinking and broadened professional horizons into areas otherwise beyond my reach. Through diversity fellowships, co-op placements, pro bono work and leadership opportunities, I was able to cultivate my career in an environment that was fresh and innovative, yet challenging and engaging. ► **WHERE I'LL BE IN FIVE YEARS:** My family practice, emboldened by a broad geographic reach, will continue to facilitate and redefine the modern family and what co-parenting, remarriage and adoption mean to my clients and their families.



brian lofink

No. 26

34 | A student co-op with restaurant royalty Georges Perrier launched Brian Lofink's start as one of Philadelphia's busiest chefs.

IT WAS EMERIL LAGASSE who inspired Brian Lofink to become a chef. Specifically, Lofink found his calling while eating quail and foie gras at one of the celebrity chef's Orlando restaurants. "I was in high school visiting Disneyworld," Lofink recalls. "The chocolate lava cake blew my mind. I thought, 'This is what I want to do.'"

The revelation didn't come out of left field. As a teen, he loved the Food Network. But he loved playing baseball even more. When he chose



JEFF FUSCO

his profession, he made the connection: "It seemed like cooking was a sport," he says with a laugh.

His first experience with kitchen athletics took him right to the major leagues. While still working on a bachelor's degree in culinary arts at Drexel, he worked at one of world-renowned Philadelphia chef Georges Perrier's restaurants, and stayed there for two years after graduating. Next came the high-end Rittenhouse eatery Matyson BYOB, where he rose from lead line cook to co-executive chef. Now he's executive chef for a trio of popular restaurants: the gastropubs Kraftwork and Sidecar and the pizzeria/bakery Kermit's Bake Shoppe.

Although he's transitioned from expensive restaurants to mid-priced eateries, some aspects of his job haven't changed. "The stress is still intense," Lofink says during a break from the kitchen at Kraftwork, a handsome, industrial-themed space designed by a Philadelphia sculptor. When he plans menus, he can't splurge on ingredients like truffles or build a dish around halibut ("The price point

doesn't work here"), but he revels in the opportunities now available. "If you're coming here expecting a 3 and I give you a 4, I'm going to knock your socks off," he says.

There's another, perhaps counter-intuitive, perk. "I can be more creative," he says. "We can come up with random fun ideas and roll with it. We can play and experiment." For example, he began pondering what spin he could put on crab imperial. "It's something I love when I'm down at the Jersey shore," he notes. "My sous chef and I came up with six or seven variations on it." They settled on one that hit all the right notes, and within a week it appeared on Sidecar's menu.

Lofink's preference is for comforting, approachable flavors. But that doesn't mean the results are simple. For a 2013 benefit dinner prepared by several Drexel alumni chefs to help fund scholarships for students in Drexel's Center for Hospitality and Sport Management, Lofink made butter-poached lobster popovers with sunchokes, fennel, brandy and beer.

The chef has remained in-

involved with Drexel in other ways. He's been a guest lecturer, hired students for part-time positions and co-ops, and in fall 2015 he team-taught an introductory class with Center for Hospitality and Sport Management faculty member Jonathan Deutsch '99.

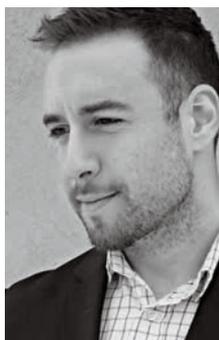
As an instructor, Lofink doesn't focus on teaching students how to cook — "They're going to learn that when they're in a restaurant" — but on how to think like a chef. That means learning to problem-solve and improvise. Lofink and Deutsch will hand out a set of recipes. "And then we'll say, 'Oh wait, your potatoes didn't come in today. So how are you going to approach this?'"

Being a chef might entail fixing one glitch after another, but what Lofink's patrons see is his creativity with ingredients, including those from Lagasse's repertoire that made such an impression. One special that's been on Kraftwork's menu is an upmarket cheesesteak made with filet mignon and foie gras. "This job never gets boring," says Lofink. And neither does his food. — *Theresa Everline*

No. 27 | Zach Stone

29 | BS BEHAVIORAL HEALTH COUNSELING 2011

Co-founder/chief strategy officer, Red Kite Project



► **MY GREATEST ACCOMPLISHMENT:** In the past few years, a few come to mind. I started a business in the recession, and helped it to grow over 500 percent in revenue since 2008. The Red Kite Project shows organizations — some clients include SEPTA, Children's Hospital of Philadelphia, Apple Inc. and American Red Cross — how to improve the resilience of their workforce through workshops and counseling. Since signing SEPTA as a client five years ago, our services have helped to reduce assaults against drivers and passengers by 65 percent. Apple called us innovators in our industry. ► **HOW DREXEL HELPED:** Drexel taught me methods for behavioral and organizational change that have helped my clients to rise above their obstacles, and put me miles ahead of my company's competitors. I was given tools in my undergraduate years that many of my colleagues didn't get until their doctorate education. I am forever grateful to Drexel for how prepared I was to apply what I learned to any environment. ► **WHERE I'LL BE IN FIVE YEARS:** Red Kite Project will be continuing to establish itself. We tripled our client base this year, and signed a five-year contract this summer. Our financial future looks bright as long as we use our ethics to guide us, and follow our mission of helping individuals to lead healthier and more productive lives.

No. 28

DAVIDE MATTIA



37 | PHD, MATERIALS SCIENCE AND ENGINEERING 2007

Associate professor, Department of Chemical Engineering, University of Bath (United Kingdom)

► **MY GREATEST ACCOMPLISHMENT:** The University of Bath is my first academic job and it has been a great challenge to develop a research program and build from scratch a research laboratory in a new environment in a new country. After nearly eight years, we have a fantastic research team and have made some fundamental discoveries in how to use nanotechnology to address the environmental challenges our planet faces, from developing novel membranes for clean water while at the same time minimizing energy consumption, to designing new catalyst materials to convert carbon dioxide in valuable chemicals,

so there is an economic incentive to capture the carbon rather than release it in the atmosphere. Recently, one of the technologies we developed has been adopted by industry. Seeing what you have created being applied on a large scale and, possibly, making a positive difference to the environment is a great accomplishment.

► **HOW DREXEL HELPED:** My supervisor, Professor Yury Gogotsi in the Materials Science and Engineering Department, not only gave me the opportunity to perform fantastic, cutting-edge research but also the chance to develop all the other soft skills necessary to becoming an academic. The dynamic and engaging environment in the department has been a constant stimulus to do more and better and has been essential to my development.

► **WHERE I'LL BE IN FIVE YEARS:** I love research and expect to be doing cutting-edge work in five, 10 and 15 years' time! My goal is to understand how nature works and develop novel materials that can help the environment and improve our quality of life. Supporting my students in developing their aspirations and seeing them flourish and succeed is one of the great pleasures of academic life and I look forward to seeing my current students do great things.



MATT ZUGALE

No. 29

JASON VARNEY

36 | BS PHOTOGRAPHY 2001

Owner, Jason Varney Photography

► **MY GREATEST ACCOMPLISHMENT:** It's tough to pick a singular accomplishment. I'm a self-employed food, travel and lifestyle photographer, and my work has taken me across the globe, presented me with opportunities to taste amazing food and collaborate with many talented people, both in front of and behind the camera. Some career highlights have been working with *GQ*, *Bon Appetit*, *Food & Wine*, *Travel + Leisure*, *Martha Stewart Living*, *National Geographic Traveler*, *The New York Times*, and *The Wall Street Journal*.

► **HOW DREXEL HELPED:** The Drexel Photography program was an excellent hybrid of the fine arts and technical craft. Growing up the son of a photographer who ran a commercial lab, the technical came as second nature to me. But at Drexel, I became versed in the creative and fine art side of photography in ways that still resonate in my work, all the while having the tools to make the highest level of imagery at my disposal. The co-op program allowed me to get real-world, on-set experience that gave me the confidence to pursue my own assignments shortly out of college.

► **WHERE I'LL BE IN FIVE YEARS:** My work schedule keeps me so busy; I'd love to find more time to work on personal projects. I have a few things in the works that I could see winding up in more of a gallery setting.



BILL STREICHER / USA TODAY

No. 30

ANDREA PETERSON

31 | BS SPORT MANAGEMENT 2008; MS HIGHER EDUCATION 2010

Head girls basketball coach, Neumann-Goretti High School, and owner of Christopher's Footprints Child Care Center

► **MY GREATEST ACCOMPLISHMENT:** This past season, as coach of the Neumann-Goretti Saints, I saw the team go 30-0 and finish as national champions. I also received the Naismith High School Coach of the Year award. It was an honor to coach such an amazing group of young women who succeed both on and off the court.

► **HOW DREXEL HELPED:** Throughout my six years at Drexel, I made a lot of connections in the sports and education field. I continue to meet new people and build those work relationships to help better both my company and my coaching career.

► **WHERE I'LL BE IN FIVE YEARS:** My goal is to open a few more child care centers and expand Christopher's Footprints.

No. 31 collin cavote

27 | Collin Cavote is the only person in the world with a degree in “biomimicry” — a major he designed himself while building a company that “harnesses nature’s genius.”

IN 2008, Collin Cavote ’15 dropped out of business school at Temple University and left the grid behind.

He headed west, to Lopez Island, part of the San Juan chain off the coast of Washington state. There, he lived simply and sustainably, all the while certain that his future would reveal itself.

And one day, it did. On the picturesque horizon, a crude oil tanker traveling across the Pacific splintered his beautiful serenity. And gave him pause.

The oil tanker was a massive, mobile pollution machine. How long before the thousands of gallons of crude aboard entered the atmosphere as carbon emissions, he wondered?

“This was my first understanding of climate change; that was the seed,” Cavote says.

He didn’t know it then, but that moment set him on a path that would lead him to later create an air-purification company while a student at Drexel, called Biome.

Cavote returned to the East Coast in 2012, specifically to finish college in the custom major program offered through Drexel’s Pennoni Honors College. At Drexel, Cavote designed a degree that no other graduate in the country has: a bachelor’s in biomimicry.

“When I decided to come back to school and solve some of the world’s problems, I knew I needed a really interdisciplinary program where I could study a broad array of interests,” he explains.

So what is biomimicry? “The whole premise is that nature has so much to teach us,” Cavote explains. “It’s been here for over four billion years, responding and evolving. When humans are confronted with a problem, it’s best to look at the ways in which nature has already solved a similar problem. We need to use that sage wisdom from the natural world to make our solutions more resilient, and hopefully more sustainable.”

While at Drexel, Cavote found inspiration in the biowall in the University’s Papadakis Integrated Sciences Building. The 80-foot-high wall of ferns and other oxygen-rich plants is one of the first of its kind at any university in the country.

This could be the answer, Cavote thought. But people won’t likely pay money to build biowalls on such a large scale. Perhaps a smaller version would do.

That was the beginning of Biome, a company Cavote established in San Francisco that produces living, breathing biowalls for homes and businesses.

“I was able to use Drexel’s custom major to build my company — my coursework propelled the company forward and the last year of my schooling was, in fact, spent running the company,” Cavote says. “There was never a barrier between school and the real world. My experience was super organic and, in a way, quite beautiful. Since graduating,

Biome just keeps moving forward, it just keeps growing.”

As of now, Biome has moved beyond the prototype phase and is ready to hit the market. For a pre-order price of around \$2,500, interested buyers can bring a world of air-purifying benefits into their home or office with a personal biowall that is about the size of a large flat-screen television. The self-sufficient unit waters itself through a unique filtration system and feeds on air pollution that has been transformed into nutrients.

“You don’t have to do anything but install it,” says Cavote. “We realized early on that, for this to be successful, we had to make nature easy.”

The biowalls’ benefits speak for themselves, Cavote says.

“Imagine 32 percent less stress, 13 percent fewer sick days and 61 percent higher cognitive function,” Cavote says. “That’s what Harvard University and the Environmental Protection Agency are saying about bringing nature inside and improving your indoor air quality. Once our biowall is installed, you can expect 200 percent cleaner air within 24 hours.”

Numbers like those have given Cavote confidence that Biome will succeed. “In 15 years, I predict that every building you walk into will have one of our biowalls,” he says. “These things will grow and clean the air right inside the spaces where you live, work and play.” — *Katie Clark*



No. 32

MICHAEL GORMLEY

33 | PHD BIOMEDICAL ENGINEERING 2008

Principal scientist, Janssen Research and Development

► **MY GREATEST ACCOMPLISHMENT:** Prostate cancer is common, with 239,000 men diagnosed in the United States in 2013 alone. Patients with late-stage disease have very poor prognosis and few treatment options. Janssen markets Zytiga, a drug that inhibits the production of androgens that promote tumor survival and is one of the few treatment options available for late-stage patients. My team supports drug development by creating companion diagnostic tests to identify patients who are more likely to respond to treatment. We discovered a set of genes that are correlated with a 150 times better response to Zytiga. This finding enables precision medicine, to specifically match patients with effective treatments based on genetics, environment and lifestyle.

► **HOW DREXEL HELPED:** My graduate research under Dr. Aydin Tozereen introduced me to the fields of computational biology and bioinformatics and the skills I use every day.

► **WHERE I’LL BE IN FIVE YEARS:** Pursuing research at the forefront of human health care, striving to develop new lifesaving therapies and innovative diagnostics to match patients with the right therapies.

tom louden

No. 33

36 | Five-time Emmy winner Tom Louden has been in broadcast his entire career running TV shows familiar to any Philadelphian or sports fan — and it all started with a Drexel co-op.

GROWING UP, Tom Louden (BS communications '02) was a huge sports fan. “I wanted to be the next Harry Kalas, like everybody else, I’m sure,” he says, referring to the legendary Phillies play-by-play announcer who died in 2009.

Louden’s voice might not be known to millions of baseball fans, but his job would fulfill the dreams of any sports lover. As executive producer of Comcast SportsNet’s “Breakfast on Broad,” a two-hour all-sports morning show, Loudon gets access to athletes and coaches from every team in Philadelphia. And he has a blast while doing it.

When it comes to programming, Loudon says his bosses have “pretty much given me a blank slate.” The result is thought-

ful analysis from four on-air anchors who are also game for all kinds of silliness. “Breakfast on Broad” has featured skits, mock “Family Feud” segments, and a “Rocky” bit that followed anchor Barrett Brooks, a former Eagle, on a morning jog that detoured through a Dunkin’ Donuts drive-thru.

Everything that happens during the broadcast, broken down into minute-by-minute intervals, is visible to Loudon on his right-hand computer monitor. On his other monitor he sees every potential camera angle and upcoming video clip. Since the show runs from 6 to 8 a.m., the planning occurs at unforgiving hours. “My alarm goes off at 1:15,” Loudon says with a shrug.

He’s unfazed by the work schedule because he previously spent 15 years at Philadelphia’s Fox 29, starting as a co-op student during his Drexel days and rising to become executive producer of the station’s six-hour morning

lineup, which includes “Good Day Philadelphia.”

“I loved the morning show,” he says of “Good Day Philadelphia.” “It has everything — you have news, sports, entertainment. You never get bogged down on one thing.”

While at Fox 29, Loudon received five Mid-Atlantic Emmy Awards, one for breaking news coverage and four for best morning show. But when Comcast offered him the “Breakfast on Broad” job last summer, the South Philly native couldn’t resist joining a show that was only a few months old.

“I’ve been lucky to be able to build my career in Philly,” he says. “And then to do a sports morning show here, that opportunity won’t come around too often.”

“Breakfast on Broad,” says Loudon, is “the kind of show I like to do: You want to react to things quickly.” That nimbleness was on display on a rainy late-fall morning, as Loudon sat in the back row of a control room with several other producers while the anchors discussed the season-ending injury of an Eagles player and joked whether they’d “Date, Ditch or Marry” various athletes. Faced with a wall of television screens and tasked with covering games that occurred just a few hours earlier, Loudon and his crew are constantly improvising and juggling. An in-studio chat with St. Joseph’s University basketball head coach Phil Martelli and junior forward Deandre Bembry ended with a light-hearted video of the well-coiffed player at his barbershop — a clip that didn’t exist in its edited version when the two men began the interview.

“We’re not going to be breaking down plays with X’s and O’s,” Loudon explains, noting that people often tune in and out of morning shows while getting ready for work. “We’re going to have fun.”

It’s the kind of ideal assignment that will get a man to show up for work at 2 a.m.

— Theresa Everline



JEFF FUSCO

No. 34

DANIELE PIAZZA

35 | PHD ELECTRICAL AND COMPUTER ENGINEERING 2009

Founder, managing director and CTO, Adant Technologies Inc.

► **MY GREATEST ACCOMPLISHMENT:** Founding Adant and being able to transition antenna technology I helped to develop while a graduate student into commercial products (to read more about this technology see page 13). It took a lot of my time and effort to grow the company to its current success, and I am proud of what I have done so far. The company today designs and manufactures adaptive wireless systems using unique Beamshaping™ “smart antenna technology” and sells its products to major wi-fi system manufacturers.

► **HOW DREXEL HELPED:** I would have never achieved this without going to Drexel.

At Drexel I learned how to innovate in the field of wireless communications. Also the connection with the innovative and dynamic environment of Drexel helped me grow my entrepreneurial spirit.

► **WHERE I’LL BE IN FIVE YEARS:** Certainly, I’ll be involved with high-tech, which is what I like the most. My goal is to keep growing Adant and expand the adoption of adaptive antennas to different markets. Overall, I want to keep growing professionally while bringing innovation globally and helping in creating opportunities.



No. 35

KRISTEN HAYDUK MAYNES

32 | BS INFORMATION SYSTEMS 2009

Cybersecurity consultant, PricewaterhouseCoopers

► **MY GREATEST ACCOMPLISHMENT:** My greatest accomplishment is also my greatest privilege, which was to serve as an active-duty non-commissioned officer in the U.S. Army. It was during my time in the Army that I truly discovered the type of leader and woman I was meant to be. The military instilled in me a discipline and communication style that helps keep me fulfilled and successful today. Most important, the military taught me loyalty, empathy and selfless service. As a communications leader for a remains recovery mission

in Southeast Asia, I stood on the very same battlefields that soldiers decades before me fought and died on. I learned from those missions the significance of leaving no soldier behind and how valuable strong and trustworthy teams are to personal and professional success. Those values go beyond the battlefield and are my “true north.”

► **HOW DREXEL HELPED:** The military also helped me uncover my passion for cybersecurity, which brought me to the accounting firm PricewaterhouseCoopers. Through my Drexel co-op, I worked with PwC’s security team... and I never left. Throughout the years, I’ve met hundreds of colleagues and clients who have helped shaped the way I approach the evolving and complex cybersecurity landscape in order to help my clients find the right balance to managing risk. Each day is more exciting than the one be-

fore as the stakes in cybersecurity keep changing. PwC is on the cutting edge of those changes and I actively assist with evolving our methodologies and approach to deliver unmatched quality and client experience. Drexel opened that door and provided me the right building blocks for success...and I’m incredibly grateful for it!

► **WHERE I’LL BE IN FIVE YEARS:** As a woman in the military and in a specialized technology field, I’m usually the only woman in the room. I’ve had some tremendous mentors who helped blaze a path, but I have also had some rocky roads along the way. In five years, I’d like to see a measurable improvement in the diversity amongst cybersecurity professionals. I also plan to be on the path to partnership at one of the greatest professional services firm in the world, PwC.

No. 36 | Michael Naguib

30 | PHD MATERIALS SCIENCE AND ENGINEERING 2014

Wigner Fellow, Oak Ridge National Laboratory



► **MY GREATEST ACCOMPLISHMENT:** During my PhD studies I developed a new family of two-dimensional materials, named MXenes, that have promising energy storage applications, including in ion batteries and supercapacitors. Despite the newness of this discovery (the first MXene was identified four years ago), more than 15 different varieties have been reported experimentally and many more are expected to be stable. This discovery opened the door for hundreds of scientists around the world to explore these novel materials’ properties and applications. I received many awards in recognition of my innovative and interdisciplinary research in the field of materials science, including the Ross Coffin Purdy Award, the Gold MRS Graduate Student Award and the Graduate Excellence in Materials Science. After my PhD I was named a Wigner Fellow (one of the most competitive fellowships in national laboratories) at Oak Ridge National Laboratory, where I’m continuing my research on MXenes and other two-dimensional materials.

► **HOW DREXEL HELPED:** Drexel provided an excellent doctoral program with excellent research capabilities. In addition, Drexel also provided outstanding advisors who encourage and support innovative ideas, and do their best to help young scientists thrive.

► **WHERE I’LL BE IN FIVE YEARS:** A materials scientist in a national laboratory or a professor in a university exploring novel energy materials.

No. 37

david hernandez

30 | David Hernandez combined his two loves — firefighting and photography — to show the world the dangers firefighters face, even after being sidelined by an injury himself.

DAVID HERNANDEZ has lots of ways to understand why he got hurt, but basically it comes down to this: Fighting fires is perilous work.

“If you get so invested in something, if you spend so much time in a dangerous occupation, something is bound to happen. I am just glad to be home. I am glad I did not lose a limb or get disfigured,” he says. “I think it was the universe pushing me in a different direction in my career.”

And that’s just what happened. But let’s back up a bit, and get to know Hernandez.

A native of Medford, New Jersey, Hernandez still lives in his hometown. He graduated from Drexel in 2009 as a communications major, doing co-op work in newspapers as a photographer. After graduation he continued firefighting work he’d begun in high school, inspired by his stepfather, a longtime firefighter.

“The fire community is its own world. Once you are in it, your whole family is in it. Everybody is involved,” he says. “I’d hang out on the weekends, help them wash the trucks, and at home you get to hear all the stories. So that became what I wanted to do.”

That passion came with a price. On April 24, 2015, Hernandez was trapped inside a house while trying to locate a fire. The building exploded. A door flew across the room and hit him in the head. The room caught fire. He found an exit door, got it open and dragged another firefighter out with him.

He was almost in the clear, when fate



stepped in. Hernandez fell down the stairs, suffered a herniated disc and saw his firefighting career end in an instant.

There’s a lot a person can do at a time like that. Hernandez paused, regrouped and returned to his other passion: photography. He launched a production company and created a television series about firefighting, “Into the Smoke.” His hope is to give people an honest depiction of the firefighter’s calling.

“Everybody likes the big red truck and the lights and sirens, but it’s more than just that,” he says.

“It’s about being able to help somebody. When you call 911, that is most likely the worst moment of your life, and our goal at that point is to help: To help, to save life and property,” he says. “You see something like a photo album that is able to get wet, you pick it up.”

Driven by first-hand, helmet-mounted views of the action, “Into the Smoke” has gone beyond TV, with images posted to Facebook as well as a blog. Hernandez’s team has hosted training days to give people a taste of the activities carried out by the firefighting community, all in an effort to further the public understanding of what the work entails.

At the same time, Hernandez is working another avenue, shooting and editing video for the National Fallen Firefighter’s Foundation.

“I am alive; there are things that I can do,” he says. “I feel like I have brought it full circle.” — *Adam Stone*

No. 38

ANDREW DAMRON

30 | BS
INTERNATIONAL
AREA STUDIES 2009

Associate attorney,
Law Office of Sandy
Khine

► **MY GREATEST ACCOMPLISHMENT:** Since graduation, I have had the opportunity to live and work in Shanghai, Brussels and Bangkok. In each of these places, I have met wonderful people who have enriched my personal and professional life.

They taught me cultural competency and awareness. They taught me how to see life through a different lens. These are practical skills that I use each day in my practice as an immigration lawyer. Those skills help me connect to my clients, many of whom are asylum seekers and refugees coming from all walks of life. When I represent asylum seekers, it is my responsibility to show the asylum office or the immigration court that my client has a well-founded fear of future persecution on account of their race, religion, nationality, membership in a par-

ticular social group or political opinion. Each time that my client is granted asylum, I see a beautiful transformation from vulnerability to stability, and from fear to joy. Each time I stand witness to that transformation, I feel that moment is my greatest accomplishment.

► **HOW DREXEL HELPED:** Drexel’s co-op program taught me to value hard work. Drexel also taught me to get away (like, really far away) as an International Area Studies student. Drexel gave me the tools I needed to become fluent in a foreign language, and how to connect with people from any background. Through my work with student groups on Drexel’s campus, I learned to advocate for disenfranchised populations, which was a powerful backbone to my legal education.

► **WHERE I’LL BE IN FIVE YEARS:** The “where” has never really mattered to me. I’m positive, however, that I’ll be somewhere helping the underdog make their voice heard.



No. 39 | Dalia El-Sherif

38 | PHD BIOMEDICAL SCIENCE 2003

Founder, Daylan Consulting Group

► **MY GREATEST ACCOMPLISHMENT:** In 2014, I launched Daylan Consulting Group, a management-consulting firm offering strategic, digital and innovation services. My new company is based in Wayne, where I live with my husband and three amazing children. ► **HOW DREXEL HELPED:** When I reflect back on both my professional and personal life, I feel incredibly blessed with the road I have taken. My journey started at Drexel, when I registered for MBA classes while enrolled in the PhD program at the School of Biomedical Engineering, Science and Health Systems. I immediately had an appreciation for the blend of science and business. In 2001, I wrote a business plan on my thesis and won first place in a university-wide competition. I knew then, that at some point in my life, I would launch my own business, but first I needed a robust understanding of the corporate world. I went into management consulting in 2002, first with PA Consulting Group of Princeton and then with IBM, successfully delivering more than 40 complex projects across 14 different companies. I then joined Shire Pharmaceuticals, where I had the pleasure of leading strategic planning and portfolio management. I'm now enjoying this new phase of my life leading Daylan Consulting. ► **WHERE I'LL BE IN FIVE YEARS:** I hope to launch an evidence-based platform to aid and enhance disease management. I am a strong believer in a healthy work-life balance.



No. 40

CASEY CAVALIERE

29 | BS MUSIC INDUSTRY 2009

Musician and founding member, The Wonder Years

► **MY GREATEST ACCOMPLISHMENT:** As guitarist and founding member of the Philadelphia-based alternative rock band The Wonder Years, I have spent the past decade touring North America, the United Kingdom, Europe, Southeast Asia and Australia in support of the band's extensive discography. In addition to performing for fans around the world, I'm credited as one of the



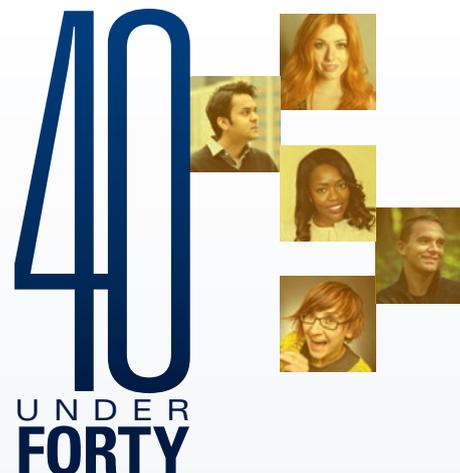
band's primary songwriters on all commercial releases, including each of our past five studio albums. Most recently, our album "No Closer To Heaven" debuted as the No. 1 modern rock/alternative album on *Billboard*. In addition to my time

spent composing and producing music outside of The Wonder Years, I've recently begun working with a Philadelphia-based nonprofit called Rock to the Future. As a music instructor and student mentor, I've assisted Rock to the Future in

bringing music education to underserved youth in communities around Philadelphia who might otherwise never experience the benefits of music.

► **HOW DREXEL HELPED:** The Music Industry program at Drexel gave me the business education, technical resources and professional mentors I needed to gain a competitive edge in the modern music industry as an independent artist.

► **WHERE I'LL BE IN FIVE YEARS:** I hope to still be making music, dedicating more of my time to exploring the world of scoring, sound design and audio production. While I plan to continue sharing my passion for music with children through teaching, I can also see myself moving into a position where I use the experiences I've had as a musician to guide the careers of other artists.



WHAT'S YOUR STORY?

What does it take to be named one of Drexel's 40 Under 40?

Past honorees include authors, filmmakers, fashion designers, and founders of companies and nonprofits. They are leaders, inventors, scientists and athletes. We're incredibly proud of their stories, because they show how far a person can go with a great mind and a solid education.

We're looking for our next group of accomplished young alumni. If that's you, or someone you know, we want to hear from you.

ELIGIBILITY

- Must be 39 years or younger as of March 1, 2017.
- Must have received a Drexel degree from the University.
- Should have achieved demonstrated success in business, the private or nonprofit sector, the arts, community involvement or advocacy.
- Must submit nominee's high-resolution photograph and résumé.

Nominations can be submitted at drexelmagazine.org/40U40 or sent to the following mailing address by Sept. 2, 2016.

DREXEL MAGAZINE

40 Under 40 Nominations
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ON TOP OF THE WORLD

From the top-floor sky lounge of the Summit, Drexel's newest residential collaboration with American Campus Communities, Ryan Monkman '12 can see exactly how far his Drexel co-ops have taken him. BY KATIE CLARK // PHOTOS BY JEFF FUSCO & BEN KNISELY

In an unfinished, very new-smelling conference room on the ground floor of the Summit at University City, Ryan Monkman '12 adjusts his hard hat and begins to tell his story. He talks over two fire alarm drills and ignores dings and vibrations from his iPhone. Yes, he knows it's a hectic time, with the building just days away from officially opening, but he's talking shop right now. He's talking about his baby.

Monkman, a civil engineering grad, is the assistant project manager for the recently completed Summit project, a 24-story high-rise residence that has redefined the University City skyline. He was on the job, practically every day, for two years. Monkman managed the sub-contractors, the scheduling and the budget for the building's interiors.

"Anything from drywall to cabinets to painting in the individual units, the ground floor and the dining hall...everything that's inside the enclosure that's not electrical or mechanical, that's me," he says.

Through his job with Hunter Roberts Construction Group, the Summit project's general contractor, Monkman was able to see the building materialize from paper renderings to its ultra sleek and urban finish. It was Drexel, along with the Hunter Roberts team's confidence in Monkman, that made this possible, he says.

When he thinks back to day one on his first of three co-ops with Hunter Roberts, he laughs. He walked in fresh-faced and outfitted in a selection from his newly purchased business-casual wardrobe, ready to start in his role as an estimator, a position he knew nothing about.

"I didn't even really know what construction was, or even what professional stuff was," he says.

And all around him, he recalls, the "grown-ups" were freaking out. Something else was going on that day.

"Here I am, on my first day of my first co-op, my first big-person job, and it's the day that Wall Street hiccupped," Monkman says of the 2008 stock market crash.

Luckily for Monkman, he dodged any ensuing staff cuts and downsizing and wound up with much more responsibility than past co-ops had. He took the opportunity and ran with it.

Monkman's second co-op was again as an estimator (essentially, the person responsible for "bringing in all the numbers" and running the job at the lowest price possible) and his third was as an assistant project manager, an in-the-field position Monkman coveted after two mostly office-bound jobs.

Along the way, Steve Markley, Hunter Roberts' vice president of pre-construction and a 1980 Drexel alumnus, learned Monkman had staying power.

"He is such a hard worker — he works nights and weekends, he'll take a second shift for his superintendent. There is nothing this kid won't do," says Markley.

That hard-working professionalism is something that Markley has come to expect from Drexel co-op students.

"We don't have anyone on our staff, and especially the students from Drexel, who we don't see as future leaders of our company," he says.

After his co-ops with Hunter Roberts helped him develop a solid love for the industry, Monkman was faced with a harsh reality. It was



2012 and nearly time to graduate, and Hunter Roberts didn't have any room on staff.

"I was crushed, but optimistic," he says. "I knew no matter where I wound up I was going to kick ass."

But Monkman stayed in touch, and a year later, he got the call he was waiting for. A spot at Hunter Roberts had opened up at Drexel's Chestnut Square, another third-party residential project built by American Campus Communities with Hunter Roberts as the general contractor. The building was halfway complete, and they needed an assistant project manager to finish the job.

Chestnut Square was another of the University's ventures with American Campus Communities, one of three total to date. Under the partnership, the developer builds and manages residences at its expense on land owned by Drexel, which the University leases to the development company. The partnership enhances Drexel's campus amenities without making a dent in the University's capital.

"This is a newer way to develop that a lot of public-style entities are moving toward," Monkman explains. "It's called public-private partnership, where the owner [in this case, Drexel] allows a developer [ACC] to build and profit while typically the costs do not hit the owner of the land. This allows Drexel to build bigger and faster without having to find specific funding."

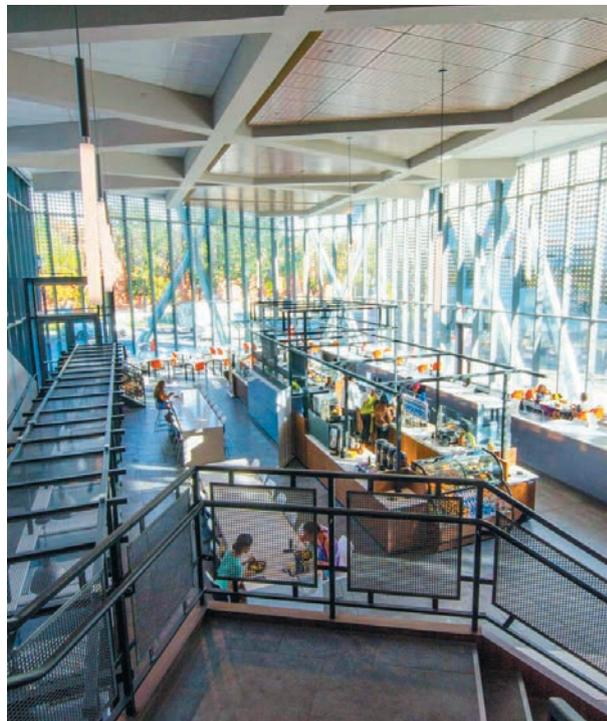
It's the mark of a "smart" university, says Markley.

"It boggles my mind that more universities are not pursuing this option for student housing," he says. "In my mind, there is no downside to it."

Chestnut Square opened in 2013 and the Summit opened this past fall. For Monkman, both projects were exciting, intimidating, amazing, pure madness — and he wants more.

"This is an amazing time in Philadelphia," he says. "There is so much development going on, so many things happening. I can see myself building 100 of these buildings and just working my way up to as high-level as I possibly can. In this industry, every day, every project, every problem is different; you could do this for 40 years and still not know everything.

"But for right now, I'm happy where I'm at. I'm on top of the world." [D]



Top: A palette of blue and gold were used throughout the Summit's décor, which blends contemporary and industrial styling. Above and at left: The Urban Eatery on the ground floor of the high-rise is open to both residents and the public. The six restaurants on the premises range from coffee and baked goods to a New York-style deli and "globally infused" meals.

THE SUMMIT AT UNIVERSITY, A 24-STORY BUILDING AT 34TH STREET AND LANCASTER AVENUE, FEATURES

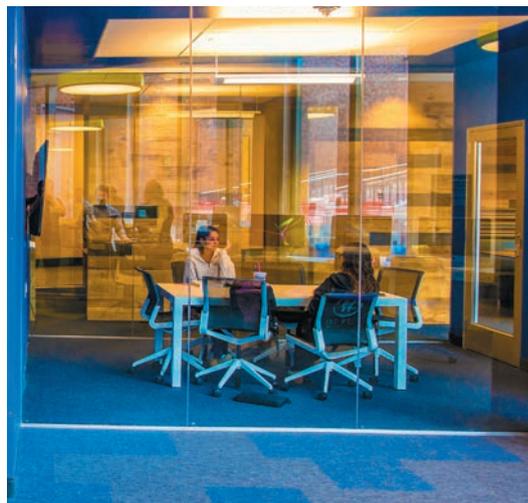
1,315 BEDS 

16,500 SQUARE-FOOT DINING HALL 

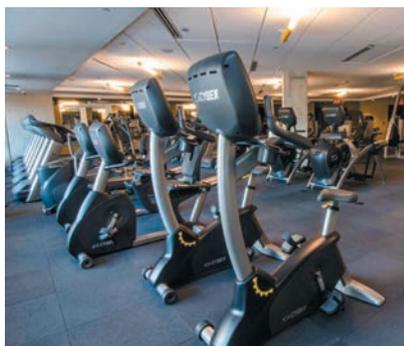
11 NEW RETAIL OPTIONS 

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Top: A large social area for Summit residents includes a fireplace, plenty of seating, several billiards tables, arcade games like Pac-Man and even pop-a-shot basketball. **Above:** The Summit houses 260 student living units that amount to 1,315 total beds. Most rooms are like this one, where four students in two separate bedrooms (split by a privacy wall) share a common living room, kitchenette (which includes a convection oven/microwave combo, cooktop, fridge and sink) and two bathrooms. **Left:** The academic success center features communal iMacs and group rooms equipped with hook-ups for presentations. **Far left:** The Summit workout room contains three-dozen machines and several full sets of free weights.





Turn of the Screw

BY KATIE CLARK //// PHOTOGRAPHS BY JEFF FUSCO

Seven years ago, three LeBow students won the Baiada business plan contest with a promising idea. Today, they have investors, patents, FDA clearance and a cleverly designed orthopedic kit — and they're tapping their Drexel network to give them a final push to market.

When Doug, Brad and Mike are together, the chemistry is clear. The three alumni share a brotherly ease as they poke fun of each other's clothing, music taste and work ethic.

All are fathers of young children, and when they're not talking business they swap childcare questions and tales of toddler night terrors. They've been close for eight years, ever since meeting as students in LeBow College of Business' two-year MBA cohort program, and in the years since graduation, they have been either "too stubborn or too stupid," they say, to give up on a dream they began as grad school pals. With their mix of expertise in medicine, business and biomedical engineering, they each bring something essential to the product they've carefully built — and together, they stand nervously, excitedly, at the brink of going commercial.

The trio are the founders of Stabiliz Orthopaedics, a nascent medical device company whose fortunes turn entirely on the success of a small, deceptively ordinary-looking screw.

Their uniquely designed screw is the most crucial component of an orthopedic bone-healing system that allows for micromotion — that little bit of movement that helps bone fractures to fully heal. Combined with a kit of complementary surgical tools, the Stabiliz product line aims to make operations easier for orthopedic surgeons, more successful for patients and less costly overall.

Their target date to introduce the kit to the market is spring 2016. If the concept catches on with doctors, the company can claim a coveted place as the provider of choice in the world of bone trauma medical devices, a \$6 billion global industry.

A LIST OF IDEAS

Stabiliz began with a few ideas jotted on a sheet of paper.

It was fall 2008 and the annual business competitions hosted by LeBow were approaching. Winners receive cash, publicity and office space in what is now the Baiada Institute to further develop their ideas.

At the time, Doug Cerynik, MD, was in his first year as a student in Drexel's LEAD MBA program, taking evening classes while serving as the director of orthopaedic research in the Department of Orthopaedic Surgery at Drexel's College of Medicine.

Leading up to the competitions, Cerynik did his homework. He asked his clinician peers what limitations they faced in the operating room and what technologies they needed to improve their outcomes — and one discussion in particular stood out.

One surgeon colleague, Susan Harding, expressed concern with plate-and-screw implants commonly used to set bone fractures. The most common plate-and-screw implants on the market hold bones together rigidly, and while that's good in the early stages of a traumatic bone fracture, later, it interferes with bone regrowth.

Bones, Harding explained, require a tiny bit of movement to heal well. This micromotion is so essential to healing that surgeons frequently have to conduct costly and invasive follow-up operations in order to fix the problems created by rigid plate-and-screw systems. Her insights gave Cerynik an idea (and helped to earn her the title of co-inventor).



“If a bone is held apart very rigidly, the bone thinks it’s healed,” Cerynik explains. “The ideal implant would initially hold the broken bones rigid, and then loosen up over time.”

A majority of the nearly two million bone fracture patients treated in the United States annually are implanted with locking plate-and-screw systems, which are the most popular type because they provide the most stability. However, because too much rigidity is an obstacle to healing, some doctors prefer non-locking plate-and-screw implants, which allow bones some movement, but at the expense of the stability needed early in the healing process. No device currently exists on the market that starts rigid and loosens over time.

One surgeon’s story, in particular, fascinated Cerynik. His colleague Anjan Shah, a graduate of the College of Medicine’s Orthopaedic Surgery Residency Program and now a practicing trauma surgeon in Tampa, told him that he considered wrapping human tissue around the head of an orthopedic screw to artificially introduce micromotion into the fracture. Shah theorized that the tissue would gradually allow for some movement, adding more credibility to Cerynik’s concept.

Was it possible to attach a biodegradable polymer collar to the screw

that could safely resorb back into the patient’s body over time, Cerynik wondered? Although rigidly locked with the plate at first, the polymer would gradually provide a cushion and some flex — a potentially game-changing improvement over existing locking screw systems.

It was an idea that had promise, and seemed marketable, at least to Cerynik’s classmate Brad Grossman, who would go on to become Stabiliz’ vice president of marketing. Cerynik approached Grossman because he liked his style: an outspoken go-getter with an “entrepreneurial mind.”

Grossman, when not working for Stabiliz, serves as the vice president of marketing and development for Helium Comedy Club, which has locations across the United States including Philadelphia. Before that, he was the owner and operator of a marketing agency in Cherry Hill, New Jersey.

“I saw an opportunity with a simply designed product that could have significant impact on the way clinicians operate, not to mention the size of the win if we’re acquired,” says Grossman.

To complete the team, both Cerynik and Grossman said, “I know a guy.” Grossman brought in Mike Adelizzi, who had experience work-

“If you have a difficult fracture, you don’t want to mess around. You want to get what you need into that bone as soon as possible.”

ing for medical devices companies, to serve as the company’s vice president of research and development. Another classmate with financial expertise was initially a fourth team member but is now a silent partner.

They entered their idea into the Baiada Incubator Competition and won, netting them \$12,000 in seed money, more than \$35,000 in in-kind support and designated space in Drexel’s Baiada Institute for Entrepreneurship, an incubator for businesses formed by students and recent alumni. As a bonus, they also won the first-place prize of \$3,000 in what is now called the Ian J. Berg Business Plan Competition.

More importantly, Stabiliz won the attention of Ben Franklin Technology Partners (BFTP), one of the oldest tech private-equity organizations in the country with influence in the world of Philadelphia venture capital.

With three separate fundings totaling approximately half a million dollars, BFTP is Stabiliz’ largest single investor.

Backing Stabiliz’ vision was a no-brainer, says Jennifer Hartt, director of investments in life sciences for BFTP.

“We think this team’s thinking is very innovative in terms of unmet needs and healing times,” Hartt says. “The reality is that poor healing has a lot of collateral damage in people’s lives, so even incremental improvements are things we want to see. As investors, we want to see an impact on health, and we want to see that here in the region.”

A PRODUCT WITH POTENTIAL

There’s nothing easy about entering a multibillion dollar industry already filled with mature players. Naysayers were everywhere. Manufacturing flops by larger and better-funded companies were daunting reminders of the risk. But bone healing failures, including non-unions, jeopardize up to 30 percent of all plated fracture surgeries, so the Stabiliz team pressed on.

Conceptually, their polymer locking mechanism is very simple. But actually making a prototype was not. It was a challenge even to find the right manufacturer. Once the team made a selection (it’s a Pennsylvania-based company, by the way), they spent another two years perfecting the design.

“Design it, build it, test it, make corrections, design it, build it and test it again,” Cerynik says of the process.

“We struggled in the beginning,” says Adelizzi. “We had some early prototypes of this product where the polymer collar would fail fairly easily. But, through a little ingenuity... we went back and continued redesigning, so now the polymer is firmly fixed to the screw.”

The Stabiliz team was not the first to come up with the idea of incorporating bioresorbable parts into metal plates and screws, though they may prove more successful than large corporations that have tried. While the Stabiliz team was busy perfecting their product, both Zimmer Biomet and DePuy Synthes (a division of Johnson & Johnson) brought to market their own solutions to address the problem.

The Synthes product has undergone two recalls since it launched, and

the Zimmer product is, according to Cerynik, more difficult to implant and leaves larger holes in healthy bone.

“These systems are attempts at solving the same problem that we are trying to solve, only we think we are solving it in a better way,” Adelizzi says. “One of our key differentiators is that our system changes its mechanical properties over time — theirs are static and behave the same from day one to infinity.”

The Stabiliz team has more motivation to succeed than big medical device companies, says Cerynik.

“The large players have hundreds of options for new products on the table,” he says. “They fiddle with some for a few minutes, and if they don’t get anywhere, they move on quickly. They are very risk-averse — they throw new product development, all ingenuity, all risk taking onto the new little companies like us.”

For now, the team is focused on addressing needs in the industry for adult long bones (for example, the tibia, or shin bone). In the future, their system could have an impact in treating children and adult cases where bones are small — such as in the wrists, hands and feet.

“In children, the hardware often comes back out,” says Cerynik. “When you thread polymer into a metal plate, it’s far easier to remove than a metal screw threaded into a metal plate. This is important because implants for treating fractures in children are often removed — potentially a long and challenging operation.”

Besides being easy to remove, another advantage of Stabiliz’ system is the possibility of polyaxial locking, which means you can put the screw in at all different angles and lock it into place — which is often done in small bone surgery.

The founders have already been approached about a possible licensing deal with a U.S. company that markets plate-and-screw implants for the foot.

“Strong interest has been expressed in using our products,” says Cerynik. “There is a vast network to tap for expertise and users.”

A ROLODEX OF DRAGONS

The most important step toward commercialization is user adoption.

“We had to start generating interest on the surgeon level,” Cerynik says. “Credibility is built when investors see users adopting it.”

How do you get surgeons, who turn away pesky sales reps by the dozen, to buy in? You call on your colleagues and fellow alumni.

The team has spent this year introducing the kit to surgeons with whom they already have relationships, including some of Cerynik’s former colleagues from the College of Medicine.

“I get reps showing me new products every day, but this is something that’s different from everything else on the market,” says Shah. “The science behind it makes a lot of sense. The technology developed and used by Stabiliz has real promise and is truly a potential game changer.”

“I’ve had a chance to play with some of the instruments and it’s

about minutes and convenience,” Shah adds. “If you have a difficult fracture, you don’t want to mess around. You want to get what you need into that bone as soon as possible.”

Nirav Amin, a Drexel College of Medicine alumnus and graduate of the College of Medicine’s Orthopaedic Surgery Residency Program and now an orthopaedic surgeon and associate professor at Loma Linda University Medical Center in California, also sees the surgical tools as potential time savers in the operating room.

“Let’s say there is a five-minute delay just handing instruments back and forth, looking for the one you want; if you are doing six cases a day, that could add up to a couple of hours of your day,” he says.

Other surgeons, former colleagues and fellow alumni have expressed interest in the system.

“The other day, I tried to make a list of all the contacts we have made thus far, and it was well over 100,” Cerynik says. “And that’s just our extended Drexel network.”

One of Stabiliz’s biggest hurdles has been fundraising. They’ve built a business; now they need the inventory.

Over the past few years, the team has made countless phone calls, sent innumerable emails, knocked on doors, and asked for big-time favors from family and friends, all while starting families.

In 2014, Cerynik took the leap of quitting his day job, so to speak, to work full time at Stabiliz. Later that year, Adelizzi joined him.

“In order to actually bring this thing to market, you have to put in more than a full-time effort,” Cerynik says. “I had been full time for about three quarters of the year, and I was overwhelmed by the weight of the work. I needed more help.”

“It was scary,” Adelizzi recalls. “I left the best-paying job I had ever held. Luckily, my wife was super supportive; there were moments where I was terrified and freaking out and she was the one telling me it was going to be OK. But I knew Doug would drown if he had to do it on his own.”

A LEBOW BOND

All three partners agree that what has kept their dream going is their ability to mesh personally and professionally — the LeBow MBA cohort approach in action.

What drew them to the accelerated MBA program at LeBow wasn’t just a desire for a little extra career development — a better job, or maybe more money. Rather, they really wanted to do something big, and their Drexel bond made it possible to follow through. Now as they face the next challenge, their connections with other alumni are key to their startup plan. And they’re already thinking ahead to the day when they can hire Drexel co-op students.

“I think this would just be an idea unless I’d met these guys in the business school,” says Cerynik. “We all wanted to do something different from our current careers and we wanted to push the envelope a little. We were able to form a cohesive team, bring our individual talents, and we were able to develop those skills within LeBow. We are a group of people who met in business school and actually accomplished something.” **[D]**



× The Kit

By 2011, the Stabiliz team had a polymer-melded screw design that worked. But their vision was larger. Along the way, the team created an entire complementary kit of instruments that surgeons are already talking about.

The Stabiliz kit is a super sleek, futuristic metal box housing implants and instruments that simplify and improve on locking plate-and-screw systems already on the market.

What’s most appealing, says Cerynik, is that none of the tools and devices is anything drastically new. That means no additional training for surgeons. The plate-and-screw components are what surgeons are already used to, only better.

The team added grips to some tools and reduced the weight of others for easier handling, for example, and redesigned some common tools so that surgeons had fewer components to deal with overall.

“We tried to streamline and combine multiple instruments down into a couple and refine them. With less parts, less things break or get lost,” says Cerynik. “We’ve made a lot of the tools multi-functional — you use it one way, flip it over, and use it another way.”

For example, a typical kit contains many differently sized depth gauges, the tool used to measure the depth of the hole in the bone that’s been drilled for the screw. Surgeons often have to use up to three or four separate gauges in a single operation. So Stabiliz designed one tool that combines the features of multiple gauges.

“When you’re in an operative environment, everything is slippery and difficult to hold,” Cerynik says. “We wanted to make it easy to use.”



1940s

Ray Williams, BS electrical engineering '48, and his wife Ellie, both World War II Navy veterans, were selected to re-enact the famous kiss that took place in Times Square to kick-off the 70th anniversary of President Truman's Oval Office announcement of the end of the war.

1950s

Maynard Herman, DC chemical engineering '56, BS '58, has judged the engineering entries in both the Sarasota and Manatee County Science Fairs in Florida for the past several years.

John Monsul, BS retail management '53, celebrated the 700th episode of his television show "Communicating Today," on Oct. 12, 2015.

1960s

Henry Febo Jr., BS chemical engineering '67, was recognized by the National Fire Protection Association (NFPA) with a Committee Service Award given to a technical committee member for continuous and exemplary service on one or more committees over a substantial period of time, and in recognition and appreciation of distinguished service in the development of NFPA codes and standards including hazardous chemicals, explosion protection systems and several combustible dust committees.

Michael Grossman, MD medicine '65, was presented the Lifetime Achievement Award from the Maricopa Health Foundation on Oct. 10, 2015. Grossman was celebrated for his work in Vietnam developing a drug addiction treatment center, and for over 35 years of excellence in academic clinical teaching and practice.

Larry Rosenberg, BS business administration '65, started a new career with his one-man musical show, "Growing Up Larry." The show's purpose is to "encourage and assist people who feel stuck in their lives to feel free, to be their authentic selves and to share more love, joy and creativity with the world."

Norman R. Smith, BS business administration '69, MBA '71, was named president of Elmira College located in Elmira, New York. This is Smith's sixth college/university presidency.

Kenneth C. Springirth, BS mechanical engineering '62, authored his 28th book, "San Francisco's Magnificent Streetcars," which covers the city's streetcars, cable cars and electric trackless trolleys. The book was published by Fonthill Media.



Stewart M. Weintraub, BS business administration '68, was named to the 2016 edition of "The Best Lawyers in America." It is the 12th consecutive year that he has been named to the list. In September, he spoke as part of state tax-related programs for the American Bar Association Tax Section's 2015 Joint Fall CLE Meeting.



1970s

Jay Graham, BS accounting '72, joined the Roseland, New Jersey, office of CohnReznick LLP — a leading accounting, tax and advisory firm — as a partner in the tax practice.

Gloria Miglionico Krolak, BS home economics '70, published "Free Verse and Photos in the Key of Jazz," a coffee table book she shares with jazz photographer and historian Ed Berger.

Raymond Van Horn Jr., BS accounting '77, endured a deadly illness in which an immune system defect attacked and killed his heart. He received a last-minute heart transplant and detailed his experience in his book "Dark Clouds and Silver Linings — Sarcoidosis and Heart Transplant #1377."

1980s

Martin Belisario, BS mechanical engineering '85, partner at Panitch Schwarze Belisario & Nadel LLP, was named to the 2016 edition of "The Best Lawyers in America." He was recog-

nized for his work in the practice areas of patent litigation, intellectual property litigation, patent law, trademark law and copyright law.

Robert L. Hurwitz, BS civil engineering '86, was named 2014 Consultant of the Year by the Baltimore County Soil Conservation District. He is a senior engineer at Century Engineering Inc. in Hunt Valley, Maryland, and is licensed in Maryland, Pennsylvania, Delaware, West Virginia, Virginia and District of Columbia and is LEED BD&C certified.

Paul Lemmo, BS electrical engineering '89, MS '92, vice president of fire control and special operations contractor logistics support services at Lockheed Martin, has been selected as the newest addition to the Florida High Tech Corridor Council.



Steven C. Tietsworth, BS electrical engineering '86, works as counsel for the law firm Greenhaus & Pendergrass, and as general counsel for two San Diego technology companies, DeepSea Power & Light Inc. and SeeScan Inc. Last year, he was a finalist in the *San Diego Business Journal's* General Counsel of the Year Awards, and this year was listed in the peer-nominated-and-selected San Diego County Top Attorneys published by the *San Diego Daily Transcript*.

Elizabeth Vergara Atkins, AS nursing '88, was appointed to the editorial board of the *Journal of Trauma Nursing* for a two-year term.

1990s

Udantha R. Abeyratne, PhD biomedical engineering '96, associate professor at the University of Queensland's School of Information Technology & Electrical Engineering, developed a smartphone app that analyzes respiratory sounds to diagnose respiratory conditions underlying coughs.

Jim Bilella II, BS electrical engineering '99, was elected mayor of Berlin Borough, New Jersey, and was sworn in on Jan. 2, 2016.

Richard Bradley, BS accounting '91, MBA business administration '96, joined ServiceNow as solution consulting manager.

 To submit your Class Note for the next issue of *Drexel Magazine*, email Lara Geragi at lec36@drexel.edu.

Gina Furia Rubel, BS corporate communication '91, received SmartCEO Philadelphia's 2015 SmartCEO Brava Award, presented to Greater Philadelphia's top women CEOs, nonprofit leaders and high-impact executives.



Christine Gunsallus, BS architectural engineering '93, BS civil engineering '94, joined the business development team at Entech Engineering Inc.

Andrew Katz, BS marketing '91, director of marketing for Intelligent Infrastructure Systems, is serving as president of the 2015-16 board of directors for the Philadelphia chapter of the Society for Marketing Professional Services.



Julian L. Ketchum, BS marketing '95, released his debut album, "By Inspiration Only," in March 2014. It is available on iTunes, Amazon, Spotify and Pandora.



Catherine Krupey, BS psychology '94, was promoted to chief information officer for the firm KatzAbosch Certified Public Accountants and Consultants.

Richard C. Liu, BS corporate communication '94, was promoted to associate director of global marketing at Merck & Co. Inc.

Daniel J. McCormick, BS finance '90, released the CD "Edge of America Bound," on iTunes and Amazon.com.

John D. Simmons, BS electrical engineering '92, partner at Panitch Schwarze Belisario & Nadel, was named to the 2016 edition of "The Best Lawyers in America." He was recognized for his work in the practice areas of patent litigation, intellectual property litigation, patent law, trademark law and copyright law.

2000s

Elreo D. Campbell, BS hotel and restaurant management '03, joined Colby College's Office

of Admissions and Financial Aid as an associate dean and director of financial aid.

Daniel Cross, MS physics '05, PhD '10, joined the faculty of Geneva College in Beaver Falls, Pennsylvania, as associate professor of physics.

Lauren Fuiman Cell, JD law '09, joined the national labor and employment law firm Fisher & Phillips, as an associate in its Philadelphia office.



Stephanie Geffert Roth, MS library and information science '07, accepted a position at Temple University-Health Sciences Library as biomedical and research services librarian.

Theresa Haenn, MBA business administration '08, joined Big Brothers Big Sisters Southeastern Pennsylvania's executive leadership team as vice president of fund development.



Michael J. McAtee, MS engineering management '08, was promoted to office manager of Urban Engineers' location in Cherry Hill, New Jersey.



Kenneth Metts, MBA business administration '08, founded DealNeighbor.com, "a business that makes it safer to buy and sell used items with your neighbors."

Dana Lee Olzenak, DPT physical therapy '06, is part of the Centers for Disease Control's class of epidemic intelligence service (EIS) officers. Only about 60 EIS officers are selected each year from a highly competitive national candidate pool of medical doctors, veterinarians and PhD recipients. They work across the United States and around the globe to keep Americans safe from a variety of health threats.

Dafna Rehavia, MCAT creative arts, art therapy '00, exhibited her artwork in The Chelsea International Fine Art Competition Exhibition in New York City from Aug. 25 to Sept. 8, 2015.

David G. Woodbury Jr., BS civil engineering/engineering management '01, MBA business administration '09, joined Herbert, Rowland

BABY DRAGONS

Joshua Bowman, BS biomedical engineering '04 and **Geneva Turnini Bowman**, BS biomedical engineering '04, had a daughter, Isabella Rose, on May 26, 2015.

Matthew P. Huntsinger, BS management information systems '98, and Michelle Huntsinger had a son, Matthew Paul Jr., on Sept. 4, 2015.

Elizabeth Ridgeway, MS teaching, learning and curriculum '13, and Jesse Ridgeway had a son, Jack Dean, on June 22, 2015.

& Grubic Inc.'s land development service group as a senior project manager.



2010s

Monique Bell, PhD business administration '13, received a provost's award for Promising New Faculty at California State University, Fresno. Bell also received an American Marketing Association Foundation new faculty research grant and an Advertising Education Foundation visiting professor fellowship, where she visited the Leo Burnett agency for two weeks.

Elisa M. Boody, JD law '14, joined the Philadelphia office of the law firm Pietragallo Gordon Alfano Bosick & Raspanti as an associate in the qui tam practice group.



Adam Connolly, MS higher education '11, was promoted to vice president of enrollment management at Coker College in Hartsville, South Carolina.

Hindi Jain, BS international business/marketing '10, launched her international fashion line, The Words Collection, in fall 2015.

Ronald Minsky, MBA business administration '11, was appointed deputy attorney general for the New Jersey Department of Law and Public Safety, Division of Criminal Justice.

CORRECTION:

In the fall 2015 issue, the name of Cynthia Milewski Maryanoff, BS chemistry '72, was misspelled.

FRIENDS WE'LL MISS

1930s

Margaret Cloud Elvin, DC secretarial '38
 Cornelia Dury Jones, MS library science '35
 Albert Gleason, MD medicine '38
 Kathryn Janney Givens, BS home economics '39
 Ella Kratz Noble, BS home economics '30
 Alice McClanahan Purdy, DC library science '38
 Mary Robertson Ives, DC secretarial '34

1940s

Louise Aichner Klapthor, BS secretarial '40
 Ezekiel Barnard, BS business administration '47
 Horace Becker, BS mechanical engineering '48
 Francis Brady, MD medicine '43
 Louis Fettig, MD medicine '47
 Lorna Forbes, MD medicine '46
 Dorothy Fuoss Yocom, P-SC nursing '42
 Frederick Gipson, MD medicine '46
 Kurt Gross, DC electrical engineering '41
 Adelaide Howard Krumm, RN nursing '44
 William Hudson, BS chemical engineering '41
 Grace Kimmel Fishell, RN nursing '43
 Charles Koons, BS business administration '49
 Harold Leiter, DC business administration '43
 Nicholas Luca, BS business administration '48
 Harry Meck, DC electrical engineering '44, BS '58
 Joseph Mink, DC mechanical engineering '41
 Dorcas Miller Moore, DC secretarial '42
 Edward Monaghan, BS business administration '49
 Charles Naulty, DC mechanical engineering '41
 George Nelson, BS business administration '49
 Joseph Reardon, MD medicine '46
 Joan Remmey Carroll, DC secretarial '46
 Frederick Rosenthal, BS mechanical engineering '49
 Virginia Russell Lorgus, DC secretarial '47
 John Saile, BS general studies '47
 Richard Sasin, BS chemical engineering '47
 Jean Steever, DC library science '40
 Pauline Steinberg Williman, BS home economics '42
 Ross Stempel, BS business administration '49
 Mary Storm Richmond, BS home economics '43
 Jean Struse Wright, BS secretarial '40
 Marie Tolan Shovlin, RN nursing '42
 Edward Toleikis, BS mechanical engineering '47
 Jane Toy Richter, DC secretarial '45
 Mary Tukina Byrnes, AS medical lab technician '45
 Kazuko Uno Bill, MD medicine '48
 Georgine Urban Nodich, RN nursing '48
 William Welsh, BS mechanical engineering '49
 Helen Werga Comerford, RN nursing '41
 Jeanne Werner McArdle, RN nursing '46

1950s

Raymond Alexander, MD medicine '58
 Ernest Alvin, MD medicine '51
 Eric Axelson, BS business administration '52
 Robert Barfoot, BS chemical engineering '52, MBA business administration '60
 Marilyn Barney Angulo, BS retail management '54
 Francis Bell, BS civil engineering '54
 Ira Brown, MS mechanical engineering '59
 Chas Carr, DC civil engineering '53, BS '54
 Barbara Chick, MD medicine '59
 Stephen Christy, DC business administration '58
 Leonard Coffman, BS mechanical engineering '59
 Morton Cotlar, BS mechanical engineering '50, MS aerospace engineering '55

Janice Cunningham Mummert, RN nursing '55
 Francis Denham, BS general studies '51
 Marie DiGiacomo, BS home economics '52
 Robert Eltonhead, BS commerce and engineering '55
 Charles Fernow, BS business administration '50
 William Fowler, DC electrical engineering '50, BS '54
 Donald Gimpel, BS general studies '58, MBA business administration '64
 Joseph Govi, MD medicine '58
 Leonard Haimes, MD medicine '53
 George Heimbach, MD medicine '57
 Elaine Heritage Matzner, DC secretarial '53
 Robert Hohl, BS mechanical engineering '52
 Joyce Howell Young, MD medicine '58
 Kathleen Humbert Wilbur, RN nursing '50
 George Kushner, MD medicine '56
 Henry Leonardi, MD medicine '58
 Philip Lisan, MD medicine '51
 Paul Loux, BS electrical engineering '54
 Eric Matzner, BS business administration '54
 Barbara Rose McClements, BS home economics '52
 James McQueston, BS mechanical engineering '57
 Letty Moxley Schantz, BS dietetics '53
 Carl Nedal, DC mechanical engineering '55, BS '57
 Charles Ness, DC library science '53
 William Neuman, DC mechanical engineering '51
 Gloria Nyheim, RN nursing '50
 Robert Ormiston, BS business administration '53
 Rachel Pape, MD medicine '57
 Robert Park, MD medicine '58
 Kalman Pater, BS mechanical engineering '52
 Eliot Percelay, MD medicine '58
 Walter Pierzchala, BS medical technology '55
 Louis Potter, DC mechanical engineering '57, BS '59
 Victor Quattrini, BS mechanical engineering '56
 Rawdon Rambo, MD medicine '52
 Anna Recchi Corso, BS home economics '53
 Mary Rentz Jackson, DC secretarial '51
 Norma Rinehart McKenty, BS secretarial '55
 Bruce Roberts, DC electrical engineering '52, BS '55
 Charles A. Seemiller, BS business administration '56
 Charles Sharp, DC architecture '53
 Toby Silverstein, MD medicine '50
 Michael Staschak, BS retail management '50
 Thelma Stroupher Mammele, RN nursing '53
 Mary Jo Thomas, MD medicine '59
 John Thompson, BS mechanical engineering '58, MBA business administration '64
 Edwin Todd, MD medicine '52
 William Toracchio, DC industrial administration '54
 Ann Trezona Dalrymple, BS home economics '56
 William Valentine, DC mechanical engineering '54, BS '57
 Joseph Viglione, MD medicine '53
 Bernard Wetzel, BS mechanical engineering '52
 William Wright, MD medicine '51
 Elaine Yerger Wismer, BS home economics '53
 Joan Yerker Miller, RN nursing '54
 Richard Zimmermann, DC mechanical engineering '55, BS '57

1960s

Jane Aaron, MLS library science '66
 John Aber, MD medicine '67
 Daniel Allison, BS physics and atmospheric science '69
 Charles Augustine, BS chemical engineering '68
 Benjamin Aycox, DC mechanical engineering '60
 Marion Barnick Smith, MS home economics '65
 Jane Bell Nebiolo, BS home economics '68

Leonard Benoit, MS electrical engineering '68
 Larry Berman, BS general studies '63, MBA business administration '78
 Keely Brunner, BS mechanical engineering '62
 Charles Carr, DC library science '62
 Paul Coppa, MS electrical engineering '66
 Paul Doelp, BS business administration '62
 John Draper, MBA business administration '64
 Jeffrey Fine, MD medicine '66
 James Frampton, BS mechanical engineering '66
 Augustus Fricker, BS biological science '63
 Eloy Gomez, BS chemistry '68
 Glen Guth, BS electrical engineering '66
 John Hammond, MS mechanical engineering '63
 Gertrude Hight, MD medicine '65
 Donald Hobson, BS civil engineering '61
 Richard Howell, BS electrical engineering '64
 Robert Kerbeck, BS business administration '61
 Rose Keshishian, BS home economics '60, MS '65
 Ronald Kidd, BS business administration '61
 Stanley Kleiman, BS business administration '61
 Namiko Kominami, MD medicine '62
 Gus Kratsa, MD medicine '65
 Lloyd Larsen, MBA business administration '67
 John Lehr, BS mechanical engineering '69, MS environmental engineering '72
 Joel Lundy, MD medicine '65
 Linda Mahan, DC secretarial '63
 Joseph Moore, BS commerce and engineering '68, MBA business administration '74
 William Nast, BS business administration '63
 Margaret Nichol Smith, MS library science '65
 Joseph Peirce, DC mechanical engineering '60, BS '63
 Eileen Podgajny, RN nursing '66
 John Riegel, BS general studies '62
 Charles Rojer, MD medicine '60
 Robert Rosenberger, BS mechanical engineering '64
 Fredric Saull, MD medicine '66
 Edward Sawoski, BS mechanical engineering '68
 Elwood Seybert, BS electrical engineering '61, MS '68
 Dorcas Stoltzfus Morrow, MD medicine '60
 Mona Sutnick, MS home economics '65
 Thomas Tegler, MBA business administration '67
 Manfred Tschoke, MS electrical engineering '66
 William Waddington, BS industrial administration '60

1970s

Lon Alness, MBA business administration '78
 James Brennan, BS mechanical/industrial engineering '73
 Harry E. Cloud, BS business administration '70
 John DeBenedictis, MS biomedical engineering and science '70, MS engineering management '74
 Kathlynn Deviny Miller, MD medicine '79
 Thomas Doty, BS architecture '76
 David Elmo, BS electrical engineering '71
 Robert Finney, BS mechanical/industrial engineering '71
 Robert Hatton, BS commerce and engineering '76
 John Hooper, BS electrical engineering '72
 John Kalata, MBA business administration '76
 Doris Karp, BS mental health technology '76
 Daniel Kovel, BS commerce and engineering '74
 Vasumati Kulkarni Sabnis, MS library science '74
 Michael Mahoney, MD medicine '75
 William Murphy, BS accounting '78
 Josepha Ocallaghan Clark, MS library science '70
 Artist Parker, MD medicine '76
 William Ruhling, BS civil engineering '79
 Ronald Sarzynski, BS business administration '73
 Earl Spiegel, BS engineering '74

Frederick Taylor, MD medicine '76
 John Vinton, MD medicine '74
 Jerry Warner, BS chemical engineering '71
 Frank Welsch, BS chemical engineering '70

1980s

Jarvis Armstrong Whitaker, BS finance '86
 Joseph Bartley, BS accounting '81
 Warren Berman, MS '82
 Monica Brown, BS design '81
 Christopher Burgher, BS computer science '81
 Laura Fioravanti Weaving, BS accounting '89
 Katherine Gallagher-Shrift, MD medicine '82
 Peter Gulotta, BS computer science '80
 Scott Gunder, MD medicine '86
 William Marshall, MBA business administration '84
 Hugh Menter, BS design '86
 Edward Peers, BS civil engineering '83
 Jacqueline Pers, AS radiologic technology '88
 Mary Pethick, MS '83
 William Robertello, MD medicine '84
 Trudy Rotz Smith, BS management computer information systems '81
 Donna Scharckss, BS computer science '89
 Francis Stanczak, BS retail management '80
 Karen Thomas, BS nursing '88
 Edmund Wickersham, MS library science '85
 James Wineland, MBA business administration '83
 John Wismer, MBA business administration '82, MS chemical engineering '87

1990s

Jose Barcega, BS physician assistant '96
 Joseph Davis, BS mental health technology '96
 Milan Gupta, BS electrical engineering '91
 Ruth Hughes, MS library and information science '90
 Rita Kinback, MS medical science '96, MD medicine '98
 Frances Perkins Aulston, MS library and information science '92
 Meg Spencer, MS library and information science '95
 Mary Wahl, BS mental health technology '97
 Jeanette White King, BS fashion design '93

2000s

Danielle Bernardino, BS computing technology '07
 Gugsá Dabela, MPH public health '06
 Nancy Dock, MS library and information science '07
 Thomas Eichler, BS general studies '01
 Valerie George, MS nursing '08
 Deborah Hargraves, MS library and information science '07
 Kevin Reitter, BS mechanical engineering '08

2010s

Christopher Braun, BS/MS mechanical engineering '13
 Nicole Leeper, MS library and information science '15
 Jasmine Wright, MPH environmental and occupational health '15

CORRECTION:

In the fall 2015 issue, Leon A. Rennebaum Jr., BS mechanical engineering '72 and Carol Capotrio Green, BS home economics '71, were incorrectly listed in Friends We'll Miss.



FRIDAY HIGHLIGHTS

CLASS OF 1966 50-YEAR REUNION

Celebrate this milestone with classmates and friends

DREXEL BEER GARDEN FOR ALUMNI AND THE CLASS OF 2016

Great beer and live music

COCKTAILS AND CREATURES

Alumni night at the Academy of Natural Sciences



SATURDAY HIGHLIGHTS

DREXEL FEST

Grab lunch in the Quad and experience all that's new and exciting in your college

CLASS OF 1991 25-YEAR REUNION

Cheers to 25 years!

DREXEL AFTER DARK: ALL ABOARD!

The Main Building becomes a cruise ship with three decks of live music, games and food and beverage stations



DREXEL.EDU/ALUMNI
#DREXELAW16

A Night to Remember

Alumni Global Night of Networking 2015

For the fifth year in a row, Drexel Dragons all around the world united to reminisce about their college years during city mixers and virtual meet-ups arranged by the Alumni Association. Friends came together, old classmates reconnected and everyone celebrated their shared Drexel pride during the Annual Drexel Alumni Global Night of Networking on Oct. 7. Did you miss the fun? Be sure to set the date for this year's event on Oct. 29, 2016.



"I've attended the GNN two years in a row and I've had a positive experience both times. Proud to be a Dragon!"

"Our [alumni] host was amazing. The location was great. I met a lot of wonderful people and we shared our experiences and were able to have fun and network all at the same time."



"I have attended every year for the last five years. I absolutely love it! By now, I am starting to remember names and faces and forge relationships."

"The [virtual site] topics were awesome and really diverse in subject matter."

"I kept the virtual site on in a separate tab [on my computer] and listened to the presentations as I did work. I really like the variety that was offered."

* Quotes from anonymous alumni survey.





BY THE NUMBERS

800 

MORE THAN 800 DRAGONS ATTENDED.

30 

RECEPTIONS WERE HELD IN 30 CITIES WORLDWIDE.

12 

IN 12 HOURS, THE VIRTUAL SITE HOSTED 32 ORIGINAL PROGRAMS.

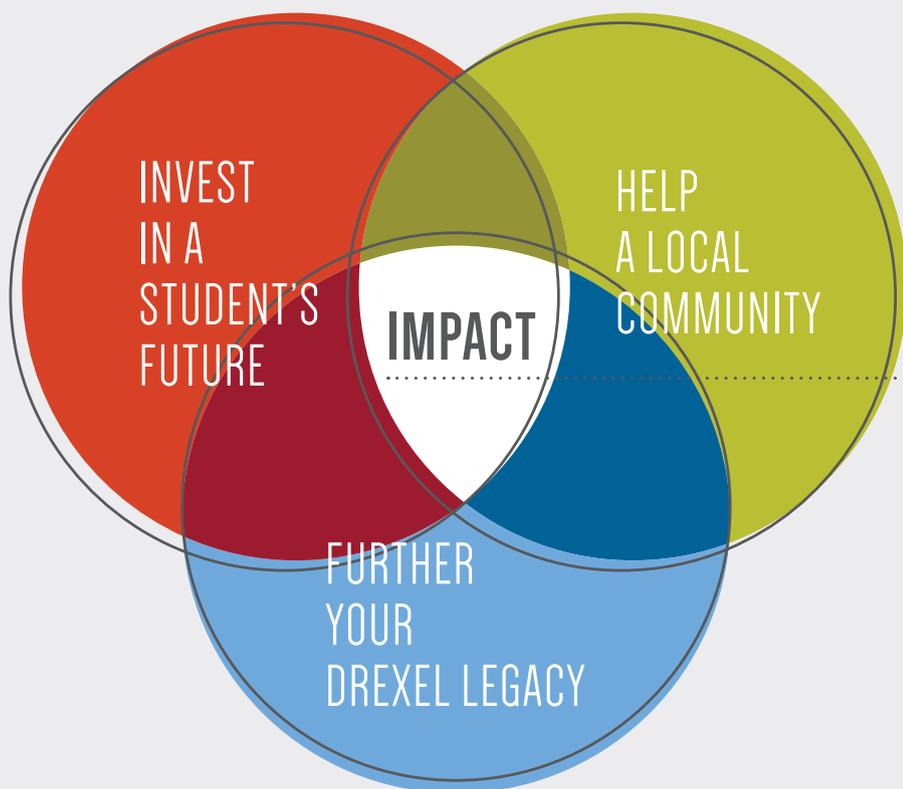
MORE THAN 100 ALUMNI, STUDENT, FACULTY AND STAFF VOLUNTEERED.

THE CLASS OF 2015 HAD THE MOST GRADUATES IN ATTENDANCE. THE CLASS OF 2012 WAS A CLOSE SECOND!

CHARLES "SHAN" CERRONE



“This year was the first time I actually used the virtual site and it was great! I learned a lot and really enjoyed feeling connected to my fellow alumni throughout the day, especially since I live so far away from campus.”



INVEST IN THE ALUMNI **IMPACT** ENDOWED SCHOLARSHIP

When the fund reaches \$200,000, Drexel will be able to award multiple scholarships every year, in perpetuity. The Drexel University Alumni Association has put in the first \$100,000 and challenges all alumni to raise another \$100,000, together!

Your gift — and every gift — counts!

Make your impact at drexel.edu/alumni/impact

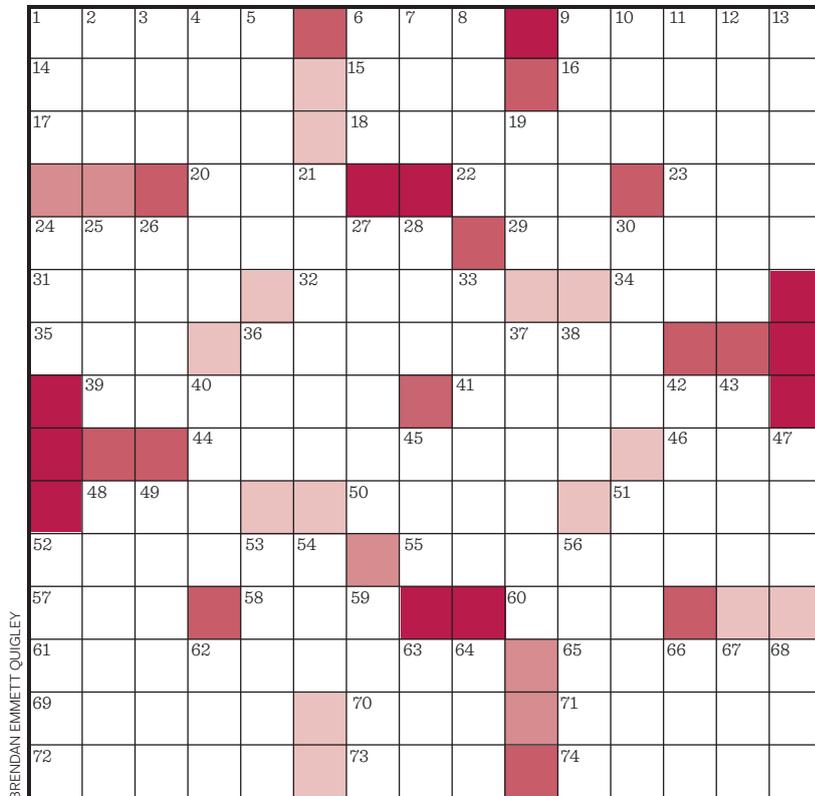


THE BACK PAGE PUZZLE

In this edition, we share stories from 40 of our alumni who have accomplished amazing, inspiring and creative things since graduation. We hope you enjoy their stories and find our coverage helpful in solving the current crossword puzzle.

ACROSS

- 1 *Lawyer/chess champion Melekhina
- 6 Right and proper
- 9 Realty listing count
- 14 Monster
- 15 TV procedural set in Vegas
- 16 "The Four Quartets" Nobelist
- 17 Endured
- 18 *The Wonder Years guitarist Casey
- 20 33-Down, informally
- 22 Title of Upton Sinclair's book about the Teapot Dome scandal
- 23 Basics of education?
- 24 *Dalia who launched the Daylan Consulting Group
- 29 *Attorney Andrew who works with asylum seekers
- 31 "Fat chance"
- 32 "Wait just ___"
- 34 It may be plugged or pierced
- 35 Only one of the Seven Dwarfs to wear glasses
- 36 Lose one's temper with
- 39 *Davide who uses nanotechnology in environmental sciences
- 41 *Adant founder Daniele
- 44 Traditional Christmas burners
- 46 Pole-vaulter's path
- 48 Month after Feb.
- 50 Building material in sheets used as a base for plaster
- 51 Circular breakfast
- 52 *Biome founder Collin
- 55 *2015 Naismith High School Coach of the Year Andrea
- 57 Packed it away
- 58 Food stamp letters
- 60 Tuber served with turkey
- 61 *Dream Machine Creative founder Dylan
- 65 Foolish ones
- 69 Bivouac setup
- 70 Harsh cleanser
- 71 Play direction
- 72 Gradually remove
- 73 *CMLEEJR Companies founder Clarence
- 74 *Red Spruce Capital founder Amish



DOWN

- 1 Pitched messages
- 2 Service call?
- 3 "That's what I think," online
- 4 Pacify
- 5 Courtman Agassi
- 6 Duke's conf.
- 7 NEA spot, maybe
- 8 Record for later
- 9 "Twilight" girl
- 10 Winner of "The Thrilla in Manila"
- 11 Land at a Spanish airport?
- 12 "The Rocky ___ Picture Show"
- 13 Draconian
- 19 Give assistance to
- 21 Adenine's mate
- 24 Complete
- 25 Weaver's tool
- 26 Stray tender
- 27 Sabra's native land
- 28 Invoice amount
- 30 French city in W.W. II fighting
- 33 "In Cold Blood" author
- 36 Alphabet run
- 37 Like a Titan
- 38 Recovery grps.
- 40 Pro's opposite
- 42 Takes sharp turns
- 43 Legendary ship
- 45 Spot for a computer
- 47 Bunco artist's scheme
- 48 Solid stuff
- 49 Skin-care brand
- 51 Weasel's relative
- 52 Hindu group
- 53 Perfect or past
- 54 Flow back, as a tide
- 56 Relaxed
- 59 Apple-splitting archer
- 62 "... if I thought ___ help"
- 63 Bakery loaf option
- 64 "Boy!"
- 66 Topographic map abbr.
- 67 Spherical edible
- 68 ___ Lanka

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 fall edition contest: Lawrence Schear '74 of Indian Shores, Florida.

Drexel Magazine
Office of University Communications
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ARE WE
DOING?

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minutes
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even better.

SURVEY: drexel.edu/MagSurvey

Survey results will be reported to *Drexel Magazine* in aggregate form only, and you will not be identified.
Questions? Contact Sonja Sherwood at sls425@drexel.edu



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