

DAC Power
Couple

Engineering's First
Women Grads

Finding the
Philly Groove

[DREXEL]

SUMMER 2015 //////////////// MAGAZINE //////////////// VOLUME 25 NO. 2

SUMMER ON THE ICE

SCENES FROM A
SCIENCE MISSION
TO ANTARCTICA

ONCE A DRAGON ALWAYS A DRAGON



Jonathan Piela '13
MS in Construction Management Online

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THE LEDGER

[A NUMERICAL ANALYSIS OF LIFE AT DREXEL]

1	Spot on the iTunes Paid App List occupied by Scholly, a scholarship app created by engineering alumnus Nicholas Pirollo '13 and Christopher Gray, a student in the LeBow College of Business and Close School of Entrepreneurship, after Gray successfully pitched the app on ABC's "Shark Tank."
3	Place that a team of Drexel engineering students took in the 2015 Walt Disney Imagineering Imaginations design competition. Seniors Justin Petronglo, Bader Al Moulah, Ahmad Jamal and John VanZelst developed an idea for a rail system called "Woollahra" for Sydney, Australia, based on the theme of campfires.
6	Number of institutions, including Drexel, selected to work with the U.S. State Department to join the cyber fight against extremists by preparing the next generation of cybersecurity professionals.
30	Number of hours in a program taught by Charles Sacco, entrepreneur-in-residence and director of external relations for the Close School of Entrepreneurship, that will help faculty members build a company based on their academic research.
45	Number of minutes of the film "54," directed by Mark Christopher, an assistant professor in the Westphal College of Media Arts & Design, that were cut by Miramax when the film was released in 1998. The original footage has been added to a special director's cut version of the cult classic, which stars Mike Myers as the co-owner of the legendary New York City disco-era night club Studio 54.
3,650	Estimated distance in miles between Philadelphia and a French winery that received advice from LeBow students as part of a business consulting course. After designing strategies for the family-run wine company during fall term, the students finally met their clients in person during a trip to Paris and France's Loire Valley.
20,000	Number of distinct coding features that a research team — led by Aylin Caliskan-Islam, a computer science doctoral candidate — analyzed to create programs that break down lines of code and capture distinctive patterns to help identify cybercriminals and anonymous authors.

[DREXEL MAGAZINE]

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MARY FETTER
...Drexel coach



FEATURES

28 WHO IS GERSHON BENJAMIN?

The story behind the painter's retrospective, on display in the Rinchliffe Gallery this summer, serves as a reminder that every engineer needs a little inspiration now and then.

BY SONJA SHERWOOD

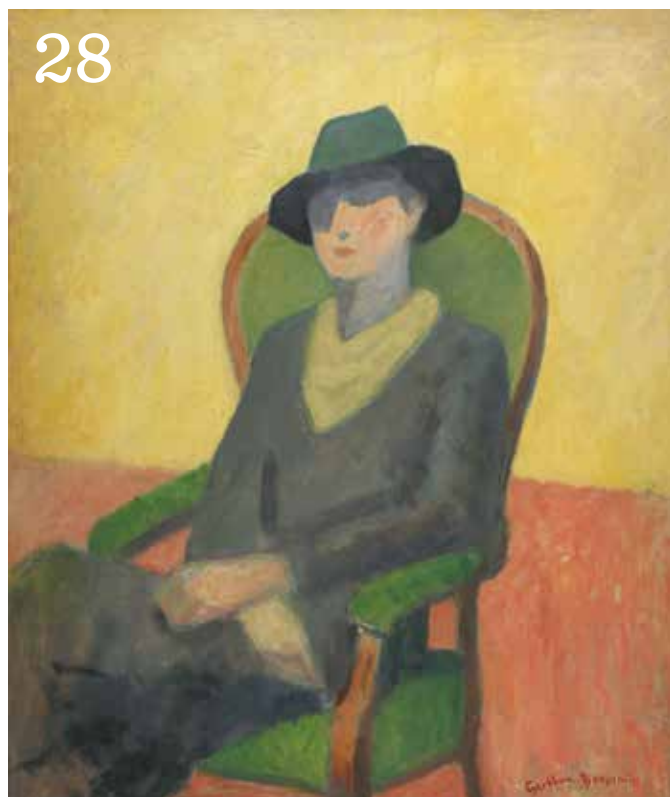
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A small tea party organized by some of Drexel's first female engineering students was the beginning of what has become the 30,000-member national Society of Women Engineers.

BY ALISSA FALCONE

38 PHOTO ESSAY: SUMMER ON ICE

The travel times are long, the weather is terrible and the food is lousy. But for the scientists and young researchers who recently returned from a field science mission to Antarctica, the souvenirs are unbeatable. BY SONJA SHERWOOD



THE VIEW FROM MAIN

The breathtaking photo on our cover is especially exciting because of its context: the most sophisticated study ever of what's in the air in Antarctica, conducted by Peter DeCarlo of the College of Engineering with spectrometry equipment he helped develop.

From DeCarlo's southern trek to Ted Daeschler's Academy of Natural Sciences fossil hunt on Ellesmere Island near the North Pole, Drexel researchers set out toward all compass points and landed on all seven continents in 2014. These adventurers lead our quest to expand Drexel's international footprint and be a truly global university.



Global impact remains a core focus of our updated strategic plan, "Transforming the Modern Urban University," which we recalibrated during the past year to serve Drexel through 2019. (You can read the refreshed plan at drexel.edu/StrategicPlan.)

Drexel continues to develop the infrastructure to support global engagement both at the individual level — student opportunities abroad, increased international student recruitment, faculty-to-faculty research collaboration — and at the institutional level through joint degree programs and major research partnerships.

In three years under the strategic plan, we've created six comprehensive international partnerships, ranging from Israel to Chile to China, with more in development. We've grown the number of study abroad opportunities by more than a quarter and the number of global co-op assignments our students undertake by a third. And we've tripled both the programming of our Office of International Programs and the total number of initiatives at Drexel that support cross-cultural education and engagement.

We still have a long way to go in achieving the international profile for Drexel that we aspire to, but we are off to a strong and inspiring start thanks to our students and faculty.

Sincerely,

John A. Fry / President

EDITOR'S NOTEBOOK

Somehow without me really trying, this edition filled up with stories about women's historical place at Drexel.

Not surprisingly, given Drexel's co-ed roots, the University had some great champions for progressive education.

I had already planned to write about the art exhibit sponsored by Joan Facey, the 18th woman to graduate from the College of Engineering. Her memories of college are a bittersweet combination of predictable prejudice from professors who didn't think women could handle Drexel's demanding engineering labs, balanced by her fond recollections of gentlemanly classmates and the kind of career few other women in her generation could have imagined.

Her engineering degree opened doors to the space program industry and a consulting career working with IBM's first computers, and she came into the workforce confident that she stood toe to toe with graduates from more prestigious engineering schools.

Then one of our staff writers learned about Joan Rubin, who along with Alice Forbes was in the first graduating class of women to ever take home a Drexel engineering degree. She attended Drexel in the late '40s, when 99 percent of engineering graduates were men.

A little more digging revealed that Drexel women were the central figures in a movement to rally their peers at other schools. Their drive to unite professionally launched the Society of Women Engineers, which today is 30,000 members strong.

And then we got word that a Drexel legend, Mary Semanik, had endowed a women's team coach position.

Mary and her husband John '56 were a power couple in Drexel athletics from the '60s until their retirement in the '90s. If not for John, Drexel wouldn't have the Daskalakis Athletic Center. As for Mary, it was her privilege to preside over the momentous changes in women's sports ushered in by the passage of Title IX in 1972.

Now 85, Mary is still supporting the talents of women athletes and coaches. Her coaching endowment and \$1 million gift to the University will allow Drexel to continue her tradition as a great mentor and advocate.

I hope their stories bring back memories, and we'd love to hear about them. You can always reach us at magazine@drexel.edu or at the address to the right.

Thanks for reading.

Sincerely,

Sonja Sherwood / Editor



JEFF FUSCO

ON THE COVER: It may look like a summer sunset over a warm beach, but the cover photo was actually taken on the frozen surface of McMurdo Sound in Antarctica, by Drexel researcher Peter DeCarlo. More images and details of his expedition are in the photo essay on page 38.

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LETTERS

Musical footnote

Thank you for a great fall 2014 issue of *Drexel Magazine*. I really enjoyed reading about how involved Drexel is in the community, in education and behavioral health. As a creative arts therapist I really enjoyed hearing about the expansion on the 11th Street Family Health Services Center. However, I would like to point out that [the center's Director of Creative Arts Therapies] Lindsay Edwards is a registered dance movement therapist, not a dance and music therapist. I feel it is important to distinguish that music therapy is a different modality, as the Drexel program trains in dance movement, music and art therapies.

Sarah White

*MA creative arts and therapy '09
Philadelphia, Pennsylvania*



More ROTC memories

Reading the letters that were published concerning the “Yellow Ribbon Welcome” story in the summer 2014 issue brought back some of my own memories of ROTC at Drexel.

I graduated in 1970 with a BS in commerce and engineering. During my freshman year in 1965, I was an engineering student. Those students who were enrolled in an engineering program were mandated to complete specialized military engineering courses. I have to admit that I enjoyed designing bridges that would carry the weight of heavy tanks, and then calculating the quantity and location of charges needed to blow the bridges up. After I switched my major, I took basic infantry training as did everyone else who was not an engineer.

I decided to remain in the ROTC program and was commissioned a lieutenant in the Army Medical Service Corps. At the time of my commissioning, I never intended to make the Army my career. Now, after having completed 30 years of active duty, I am proud to have been part of Drexel ROTC and to have served.

Martin J. Fisher

*BS commerce and engineering '70
MS environmental science '72
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Full Credit at McMichael

Regarding the fall 2014 article, “Extra Credit at McMichael,” while it is clear that Drexel is making a multifaceted effort to improve the K-8 school and its students’ education, Drexel is far from alone in that endeavor. More than a dozen other organizations contributed.

As an example, the West Philadelphia Alliance for Children (WePAC) has operated the McMichael library since its reopening three years ago, in conjunction with Principal Brian Wallace and McMichael’s staff and teachers. WePAC stocks and organizes the bookcases with books purchased and donated through WePAC. WePAC volunteers staff the library and read to students. WePAC volunteers supervise the circulation of books so that students have an opportunity to read them at home.

Unfortunately, Lini Kadaba’s description of the library as the “academic heart of the school” is inaccurate. There is no school librarian. Students in grades 5 through 8 do not regularly access the library or its books. WePAC does not have sufficient staff or volunteers to open the library but for four hours twice weekly. The library is closed most of the school week. For the K-4 grade students whose classes regularly attend the library, the younger students have access for just 20 minutes a week and the older students (up to fourth grade) have access for only 35 minutes a week.

While it would be wonderful for McMichael to have a well-staffed, accessible-to-all library, that is not the case. McMichael’s library is underused and closed much of the time.

While Drexel played an important role in reviving the library in 2012, WePAC, Principal Wallace and McMichael’s teachers and staff are the reasons the library remains open today.

Craig M. Oliner

*MD '80, Medical College of Pennsylvania
WePAC volunteer
Merion Station, Pennsylvania*


Editor responds: *Our public schools need the attention of the entire community. Fortunately for McMichael, WePAC and many other commendable volunteers have done and continue to do important work there, as you rightly point out. Drexel faculty and students have contributed some pieces to the effort — notably by helping with the school improvement plan that resulted in McMichael staying open, through the involvement of School of Education faculty in obtaining grants to support the school and in providing instructional supports aligned with the principal’s priorities — but McMichael is fortunate to have many other supporters working toward its success.*

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A man with short grey hair and blue-rimmed glasses, wearing a dark blue blazer over a light purple button-down shirt, stands in a library or archive. He is holding a stack of three old vinyl records. The records have handwritten labels: the top one says 'A 734', the middle one 'A 734', and the bottom one 'A 734'. The background is filled with tall shelves of vinyl records, some with yellow labels. The lighting is warm and focused on the man.

After four decades of lying dormant, a collection of unproduced tracks from the defunct Philly Groove label may one day find its way onto your playlist thanks to a partnership between Drexel and New York music publisher Reservoir.

BY BRITT FAULSTICK AND KATIE CLARK

Toby Seay and his students are completing recordings that were begun in the analog era, using today's digital tools.



DREXEL HELPS LONG-GONE MUSIC LABEL GET ITS 'GROOVE' BACK

IT WAS PRETTY MUCH AN EVEN SWAP.

First, Reservoir, an independent music publisher based in New York City, had been scouring the country for long-lost tracks from the defunct classic soul and R&B label Philly Groove Records, which it acquired in 2012.

As it happens, 43 tracks were squirreled away in the Drexel Audio Archives' Sigma Sound Studio Collection — recordings from an iconic Philadelphia recording studio used by some of the top R&B, pop and rock artists during the '70s, '80s and '90s. When the studio closed its doors in 2003, Drexel acquired its trove of music, including the Philly Groove tracks.

"[Soon after acquiring Sigma Sound's archives], I had for whatever reason pulled a tape off the shelf — it was a Philly Groove tape — and it was fantastic," says Toby Seay, steward of the audio archive and an associate professor in the Westphal College of Media Arts & Design. "From that point on, whenever I saw Philly Groove stuff, I pulled it off the shelf. I already knew that stuff was here, so when Reservoir called and asked for Philly Groove, I said 'Yep, we've got that.'"

"I was very excited, especially when he told me some of the titles that he had," says Faith Newman, Reservoir's senior vice president of creative and business development. "There were some songs that I didn't even know existed."

Then, another opportunity revealed itself.

On its search, Reservoir found a collection of Philly Groove material in Jupiter, Florida — more than 50 raw vocal and instrumental tracks started and then forgotten. The multi-track tapes were then digitized but Reservoir had no idea what the complete mixes were intended to sound like.

"That's when we got the idea to have our students work on these tracks," says Seay.

In an independent study class taught by Seay called "Uncov-

ering the Philly Groove," undergraduate students worked with raw vocal and instrumental tracks to complete songs that were originally started well before the students were even born.

"For students, this is a chance to jump time in recorded music history, using the skills they're learning today to resuscitate a project that was started by professionals years ago," Seay says. "The class also demonstrates, in a very tangible way, the kinds of creative opportunities the music business continues to offer."

Under Seay's guidance, the class first tended to the technical upkeep of 16 tracks — developing file names and metadata for each. For the creative portion of the project, students compiled the recordings' raw vocal and instrumental takes, using modern mixing technology to add a sonic profile to each song that wouldn't have been possible when they were recorded.

"We got to leave our own individual stance on the different tracks," says Brendan Monahan, a sophomore music industry major. "It was so cool to be able to use the computer as the main tool, something [the original artists] didn't have the opportunity to use. We got to blend together old and new technologies."

In March, students presented some of the first finished tracks.

"I was very impressed with their enthusiasm," Newman says. "This is music that was recorded before their time, maybe even before their parents were born, and you could tell they definitely researched the history of soul music and really got a feel for it."

Seay says the hope in the near future is for Reservoir to release a compilation album featuring all of the remixed tracks. Newman confirmed that information, but stresses it's still just an idea.

"It's definitely something we all hope will happen," Seay says. **[D]**



Philly Groove Records was founded in the late 1960s by Stan Watson. Some well-known works released under the label include The Delfonics' "Ready Or Not, Here I Come" and "La-La Means I Love You." The label is credited for playing a part in establishing the "Philadelphia soul" sound. Philly Groove also recorded materials for undiscovered acts like Navy Star, The New Concept and Music Machine, whose unfinished materials remained in storage for years after the label's termination in 1974.

CROSS WALK



TIMOTHY WHITE/EI

DRAGON CREDITS CO-OP ON 'HOUSE OF DVF' FASHION REALITY SHOW

She may have been one of the youngest competitors on the E! "House of DVF" reality show, but she certainly wasn't the greenest. Design and merchandising student Amanda Schauer was one of eight contestants vying to win a position as brand ambassador at Diane von Fürstenberg's eponymous company (for those who need a small clue, her signature design is the wrap dress).

And it was Schauer's co-op experience that helped her walk away with a second-place finish on the show, which aired in the fall.

Even von Fürstenberg mentioned Schauer's co-op as a retail development intern at Michael Kors while deliberating who would win the contest. In her final statements, von Fürstenberg made it clear she believed that the senior design and merchandising student had a future in the fashion industry.

"Ultimately, [my co-op experiences] prepared me for how to act in the corporate world," Schauer says. "I realized how it functioned and was comfortable with it. This definitely gave me a leg up on the show because most girls had no corporate experience."

DRESSES FROM..... DIAPERS?

Fashion design students from the Westphal College of Media Arts & Design received an unusual challenge from SCA, a global hygiene and forest products company headquartered in Philadelphia: to create beautiful garments using — exclusively — SCA's TENA incontinence care products and materials.

The garments made their debut in May at the Volvo Ocean Race in Newport, Rhode Island. The aim, says SCA, is to educate people about incontinence and to boldly open up a dialogue about it.



'BIG KIDS' SLEEPOVER AT THE ACADEMY

The Academy of Natural Sciences of Drexel University has been hosting sleepovers for kids for decades — but why should kids have all the fun? In March, adults for the first time got to roam the halls with libations in hand and experience their very own "Night at the Museum" at the Academy's first overnight for big kids.

Timshel Purdum, the Academy's director of education and lifelong learning, says it was one of the best events she's ever experienced in more than a decade working at the museum.



NICOLE FORRESTER & CODY ALDRICH/GEOKADELPHIA

"I had a blast," she laughs. "The participants were awesome. They were having such a great time and the staff had a great time with them."

The group of 90 took part in behind-the-scenes tours of the collections, a special diorama ghost tour, and created some "natural" artwork: They dipped cockroaches and maggots in paint and let them walk across paper.

If you missed it, don't worry. The Academy is hosting a second event in October.



IT'S IN THE BAG

A new partnership between Drexel and Goodwill Industries of Southern New Jersey and Philadelphia will help administrative offices across Drexel's campuses with a little clutter problem: a build-up of old banners used at events long over.

"I had four literally collecting dust and just felt horrible about throwing them out," says Maria Walker, project manager of Drexel's Office of Community and University Partnerships.

Now those banners will stop collecting dust and become key to a program providing marketable skills for those who have formerly been incarcerated.

Goodwill developed a special program to turn old vinyl banners and other promotional materials into bags, in support of its workforce re-entry program. "These are ex-offenders who get skills and learn how to operate a commercial-grade sewing machine," Walker explains.

Fashionable bags can be made from banners, flags, tablecloths, etc., made from vinyl, canvas, nylon or other heavy-duty materials. "Once donated to Goodwill, [the materials are] transformed into one-of-a-kind, all-purpose tote bags," says Mark B. Boyd, president and CEO of Goodwill Industries of Southern New Jersey and Philadelphia.

"Best of all," he adds, "the project gives ex-offenders the opportunity to learn a new trade while earning real wages, making it sustainable on multiple fronts."

CHECK-IN TIME IS FALL 2016

Construction of a new boutique hotel, The Study at University City, at the corner of 33rd and Chestnut streets, is well underway.

The former James E. Marks Intercultural Center building was demolished and the center relocated to the Paul Peck Problem Solving and Research Building over the winter. Preliminary excavation activities commenced in late February. The Study is slated to open in fall 2016.



Keith Raimondi (left), head bartender at Townsend and an adjunct professor at Drexel, will teach "Mixology and Spirits."

HIGH SPIRITS

The art of making cocktails — from the classic to the creative — is alive and bubbling in Philadelphia, and now Drexel is offering students and the public a course in mixology through the Center for Hospitality & Sport Management.

The class, which launched in the spring, explores the fundamentals of preparing and serving classic and craft cocktails and offers a handful of openings to members of the public who are food-industry professionals or serious laypeople.

The course is taught by Keith Raimondi, who is head bartender at Townsend, a French restaurant in South Philly.

STUDENTS JOIN ANTI-EXTREMISM CYBER FIGHT

Celebrities, politicians, your grandmother, your boss. Everyone is on social media. Even violent extremists are using the Internet for quick and dirty recruitment efforts. But, thanks to a nod from the U.S. State Department, Drexel students are fighting back. A special consultation class formed in the LeBow College of Business at Drexel this year challenges students to develop strategies for disrupting radicals' recruitment efforts. The idea is to tap into millennials' ideas for how to counter extremism, particularly violent extremism.

The class, aptly titled P2P: Challenging Extremism, encourages peer-to-peer connection worldwide. Drexel is one of 23 other universities across the world participating in the program.



CROSS WALK

HOT COFFEE AND CO-OP

No time to wait in line at the LeBow Hall Starbucks? Stroll over to 34th Street, where hot coffee and co-op live in perfect harmony.

In April, a new 1,550-square-foot, entirely student-run Saxbys Coffee opened to the Drexel community, across from the 7-Eleven at 34th Street and Lancaster Avenue. Drexel's entrepreneurial students are experiencing a one-of-a-kind, hands-on opportunity in this experiential-learning café.

"Saxbys has brought to Drexel yet another facet of the entrepreneurship spectrum — the franchise," says Donna De Carolis, dean of the Close School of Entrepreneurship and Silverman Family Professor of Entrepreneurial Leadership. "This collaboration with owner Nick Bayer and Saxbys allows us to provide mentoring, co-ops and integration with the Close School's franchising course, as well as many more opportunities."

**WHO'S YOUR DADDY (VAIL)?**

Drexel crew is too hot to stop. For the third year in the row, the Dragons dominated on the Schuylkill River, securing the third overall championship at the Aberdeen Dad Vail Regatta in as many years.

"They don't just hand you the title because you've won in the past. You have to earn it. They did it, and I couldn't be more proud of them," says Drexel crew coach Paul Savell.

Drexel amassed 42 points in this year's regatta, winning handily against the University of Delaware, which took second place with 34 points, and Bucknell University, which finished third with 33 points.

Six of Drexel's boats managed to place during the finals.

The second men's varsity eight and the men's freshman eight both took home gold medals.

Additionally, the men's varsity four boat took third and the women's varsity eight, the men's first varsity eight and the men's freshman four all took bronze.

In the men's category, Drexel finished in first place as well, amassing 30 points to second place Delaware's 25.

Is it too early to set our sights on a four-peat?



Game art and production sophomore David Petersen works on his game between classes with help from studio founder and Westphal Associate Professor Frank Lee.

LEVEL UP: ECONOMIC DEVELOPMENT GRANTS GIVE BOOST TO DREXEL GAME STUDIO

New funding is helping the two-year-old Entrepreneurial Game Studio (EGS) in the Westphal College of Media Arts & Design award some serious experience points to Drexel undergrads as well as to teenage girls in Philadelphia.

Drexel was one of three institutions to share in a \$750,000 "Discovered and Developed in PA" grant, which is awarded by the Pennsylvania Department of Community and Economic Development in an effort to grow the state's digital entertainment and video gaming industries.

In addition, Westphal Associate Professor and game studio founder Frank Lee has received an 18-month, \$200,000 grant from the state's Department of Community and Economic Development to license software, purchase hardware and buy whatever else the student teams might need to make their games.

As of February, 33 Drexel undergrads have formed eight teams. Two have formed limited liability companies already; five are on their way.

EGS is also working with Philadelphia nonprofit TechGirlz to create two game design workshops that will be made available, free-of-charge, to schools and students nationwide. This project, which is funded by a grant from the Entertainment Software Association Foundation, aims to change girls' attitudes toward computer science through video games, increasing gender equality in the gaming industry.

Drexel's EGS hosted a series of TechGirlz workshops to test the game design curriculum that will eventually be made available online. These game-testing workshops, facilitated by EGS student volunteers, are an addition to TechGirlz' existing "TechShopz in a Box" programming.

The "TechShopz in a Box" program virtually assembles curricula on technology-related topics so that TechGirlz workshops can be experienced by youngsters around the country. Current TechShopz include introductions to Javascript, Python and Ruby on Rails programming languages. TechGirlz workshop participants this year are some of the first students to try out Drexel's game design workshop and provide feedback for Lee's team.





A Bitter Pill

Parents and physicians still aren't doing enough to address the rise of "pharming," or recreational use and abuse of prescription drugs, among teenagers, a new Drexel study says. According to federal data cited in the study, adolescents abuse prescription medications more than any other drug except marijuana and 14 percent of high school seniors have used prescription medications recreationally at least once. The study lists recommendations for parents and physicians, including talking to teens about the risks and restricting access to medications at home.

“The hunger, the pain, the depression — it always comes back. It’s like a bird nesting in your head.”

Quote from a participant in a new small-scale study from Drexel that suggests a strong relationship between exposure to adverse childhood experiences and household food insecurity among mothers of young children.

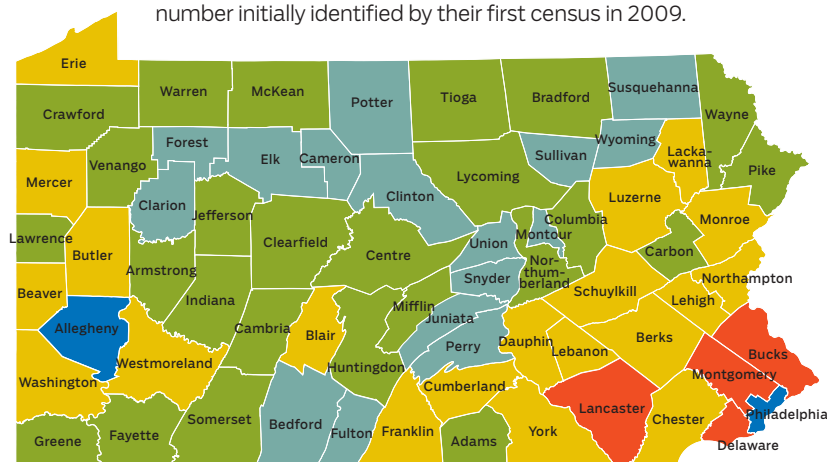


Meet TraumaMan

TraumaMan, the sliceable, bleeding training mannequin, is the newest hands-on tool available to medical students in Drexel's College of Medicine. TraumaMan was purchased thanks to a gift from the family of the late Morton H. Perlman, who served as a professor in the Department of Surgery for more than 30 years.

Head Count: Autism in Pennsylvania

A recently completed census of the size of Pennsylvania's population on the autism spectrum by researchers in the A.J. Drexel Autism Institute estimates that there are over 55,000 children and adults with autism receiving services, which is almost triple the number initially identified by their first census in 2009.



Number of Individuals with Autism Receiving Services in Pennsylvania, By County
Pennsylvania Autism Census Update 2014

10-150 151-500 501-1,500 1,501-3,000 3,001-4,895



Sounding the Alarm on Chimps' Habitat

Drexel researchers traveled with an international team to study a unique and endangered chimpanzee in Cameroon. Their work suggests the apes could be lost soon if more measures aren't taken to ensure their fragile habitat is protected.

At 26, She's Already a Political Veteran

Although she's only 26, the responsibility of serving as the leader of a town of approximately 20,000 people doesn't faze Victoria Napolitano.

Napolitano, who completed a master's degree from Drexel in teaching, learning and curriculum in 2010, was sworn in earlier this year as Moorestown's mayor after serving two years on the town's council. She is believed to be the youngest mayor in the South Jersey town's history.

"Credibility isn't a gift handed out on your 30th or 40th birthday," says Napolitano. "It's something you can earn at any age. An articulate, respectfully delivered opinion should be welcome from anyone."

The Drexel experience helped, she says.

"I think that Drexel students mature a bit faster than their counterparts at other colleges because the fast-paced environment and the co-op programs teach us to be organized and take charge of our own lives at an earlier point than someone in a more traditional college environment," she says. "When I graduated, I didn't feel like a stranger in the adult world."

"Credibility isn't a gift handed out on your 30th or 40th birthday. It's something you can earn at any age. An articulate, respectfully delivered opinion should be welcome from anyone."

Victoria Napolitano was sworn in this year as mayor of Moorestown, New Jersey — making her the youngest chief in the town's recorded history.

BY FRANK OTTO

The accelerated nature of Drexel's system was especially appealing to Napolitano, who began on campus in 2006 and finished her five-year combined master's and bachelor's degree program in just four years with one extra term.

"I was really busy with classes, but I still found time to participate in the University Chorus and Naturally Sharp, the vocal jazz ensemble," Napolitano says. "I learned a lot, had a great time and made lifelong friends in those groups. I always recommend to high school students who are searching for colleges to take a look at Drexel."

Spending so much time in classes and with activities, Napolitano says she wasn't very politically active during her time on campus, though she was "politically aware."

Around the time she was finishing her degree in 2010, Napolitano joined Moorestown's Republican County Committee and volunteered for Jon Runyan's Congressional campaign.

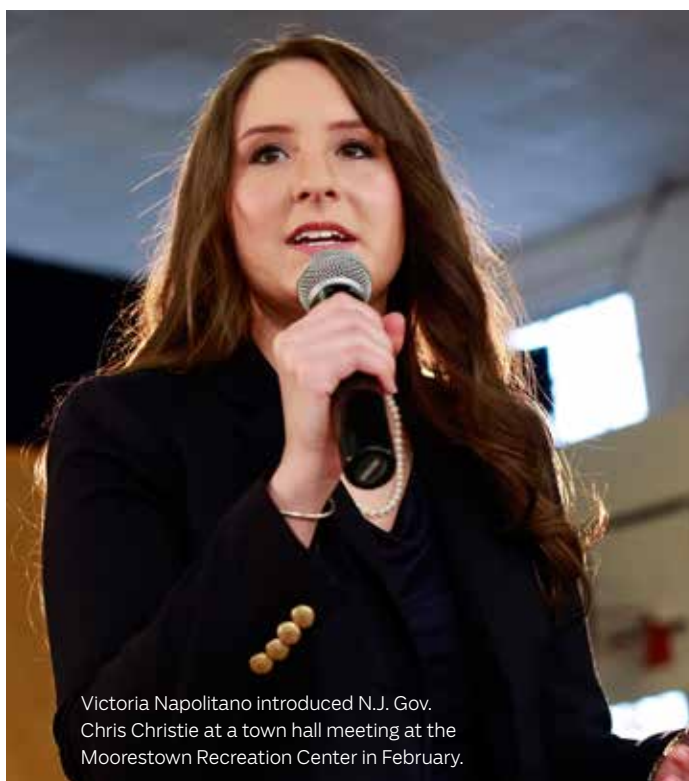
Just a few years later, when she was 24 and working as an instructional technologist in the LeBow College of Business, Napolitano began serving as a councilwoman for her town.

"I really enjoy being able to serve my community and it's something I can see myself doing for a long time," Napolitano says. "In particular, being a woman in elected office is something that I take

very seriously and I would like to continue to serve and be a role model and a mentor for other young women with political aspirations."

Now six months into her term, she says that what's been most surprising thus far is being so in demand.

"I think I underestimated just how exciting it is to be able to participate in so many events around town," she says. "[Recently], I participated in Read Across America, and I also attended a woman's 100th birthday party and got to see her dance. It's been a little bit of an adjustment to have people want me to come to things like that. But, it's been the best part of the job so far." **[D]**



Victoria Napolitano introduced N.J. Gov. Chris Christie at a town hall meeting at the Moorestown Recreation Center in February.

GOVERNOR'S OFFICE/TIM LARSEN

All in the Family

The story of Saint Katharine Drexel, the niece of the founder of Drexel University, is unlike any other.

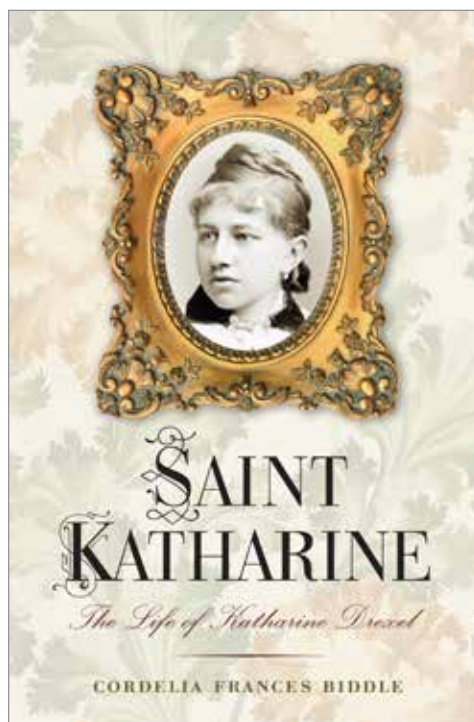
At her canonization ceremony in October 2000, nearly 50 years after her death, Katharine Drexel was celebrated by more than 200,000 people. Together, they braved the rain pummeling their umbrellas and pooling around their shoes during the long ceremony. But when Katharine's name was announced, something astonishing happened: the skies cleared up, the sun began to shine, and a rainbow burst forth.

"It was such an extraordinarily holy moment. And I just thought, 'I have to write this woman's story,'" remembers Cordelia Frances Biddle, an author who teaches creative writing in Drexel's Pennoni Honors College. Her great-grandmother was Katharine's beloved cousin Emilie Drexel Biddle, Anthony J. Drexel's daughter.

Now, almost exactly 14 years after the ceremony, Biddle finally published her story in "Saint Katharine: The Life of Katharine Drexel." The biography required four solid years to research and write, and even longer for its author to warm up to the idea of writing it.

"I waited a while because I didn't think I was a good enough person," Biddle said. "I simply didn't think I could understand the personality of someone who could give it all up."

Born in 1858 to one of Philadelphia's wealthiest and most prominent families, heiress and society girl Katharine Drexel shocked her family and the nation when she became a Roman Catholic nun and social activist at age 31. Using her inheritance of \$7 million (about \$180 million in today's currency), she spent the next 60 years and an estimated \$20 million building missions, schools and churches for Na-



tive Americans and African Americans, and became known as the world's wealthiest nun.

Biddle learned that Katharine was very close to her "Uncle Tony," who dispensed business advice and inspired in her a devotion to helping the underserved. She founded the Sisters of the Blessed Sacrament the same year her "Uncle Tony" established what was then the Drexel Institute of Art, Science and Industry. About 30 years later, Katharine founded Xavier University, the first African-American Catholic university in America. While many families have started colleges or universities, only a select few, like the Drexels, have founded more than one.

Since its November release through Westholme Publishing, the book has in-

Drexel creative writing professor Cordelia Francis Biddle, a member of the extended Drexel family, recently penned the tale of the world's wealthiest nun — Saint Katharine Drexel.

BY ALISSA FALCONE

spired many to contact Biddle to share their stories.

"I received a letter from a man who had studied for the priesthood, and through various different aspects of his life, he had had to give it up," Biddle says. "He said that after he read the book, he was going to go back and readdress this very important part of his life."

Cordelia Biddle is only getting started. Now that she's finished Katharine's biography, she's climbed higher up the family tree and has set her sights on Nicholas Biddle (1786–1844), another prominent ancestor who is known historically as the president of the Second Bank of the United States.

He's less well known as a spy for the United States during the Napoleonic Wars. It's because that fact hasn't yet been proven; Biddle says, though, through her research and her telling of this story, she hopes to change that.

"I believe that he was a spy, but I can't prove it yet," she says. "I may never be able to; we'll just have to see how it all plays out."

Biddle says she hopes to publish the book within the next few years. **[D]**

Applications Are Down, and That's Good for Drexel

Drexel's new admissions strategy will boost the number of students who accept admission offers and stick around to graduate.

BY FRANK OTTO

Drexel is making itself tougher for prospective students to apply to, as part of a major strategy shift to enroll students who will stay to graduation.

Drexel's application numbers had skyrocketed over the last decade, which was not necessarily the best thing for the University, says Randy Deike, who was hired last year as the senior vice president of the newly formed Office of Enrollment Management and Student Success.

The culprit was the "Fast Apps" or "VIP Apps" system, which allowed a large volume of email recipients to apply to Drexel with one click.

"Volume recruitment significantly increased the number of prospective students applying to Drexel but, unfortunately, many of those students applied because it was easy and not because they intentionally selected Drexel," says Deike. "We ended up with so many applicants who knew so little about us, we had to continue admitting more of them to get a small fraction to come. That's not a good way to do business and it doesn't provide a good service to students or families or guidance counselors."

Recognizing that its enrollment approach was unsustainable, the University eliminated the Fast App, hoping to attract "best-fit" students through building relationships with students, their families and guidance counselors, Deike explains.

The University developed a new framework that builds a relationship with each student from the first point of contact through graduation and beyond.

"A higher percentage of our students graduating will be the ultimate measure [of success]."

"Our goal is to support student success by identifying strengths and areas of needed improvement to make certain we put students in the best position to take advantage of all Drexel has to offer and to graduate," says Deike.

Enrollment numbers are expected to remain stable in the long term, but one change implemented is the complete elimination of the rolling admission process — Deike says that will allow for better distribution of financial aid.

"Our goal is to invest all the institutional financial aid that we have. We're in a better position to do that and to invest in helping students finance their education at Drexel when we know what the need profile of the class looks like, and what their academic profile looks like," he says.

For the first time, Drexel is imposing a \$50 fee for applications, which will be waived for low-income applicants. The fee, like removing the Fast App, was designed to ensure that those applying have a serious desire to attend Drexel.

Overall, the implementation of the new strategy means that the number of applications will drop. Deike says he and his team are well aware.

"From my very first conversations at Drexel I shared, 'We will see a significant decline in applications. Please embrace this as positive change,'" he recalls.

"It's an adjustment based on the bigger-picture vision," he adds. "The vision is we're obligated as an institution to do the best job we can to help our students be successful and graduate. Part of that is identifying students who are right for Drexel and for whom Drexel is the right fit." **[D]**



\$50

DREXEL'S NEW APPLICATION FEE ENSURES THAT ONLY SERIOUS CANDIDATES APPLY.



27,500

NUMBER OF APPLICATIONS THIS YEAR, DOWN 50 PERCENT FROM THE PREVIOUS YEAR.



86'd

THE "FAST APPS" OR "VIP APPS" THAT ALLOWED ONE-CLICK APPLICATIONS.

5 MINUTES WITH

'Shark Tank' Entrepreneur Christopher Gray

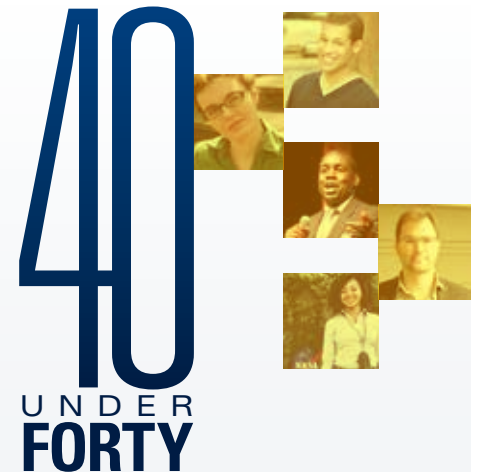


By the time Christopher Gray walked into the studio to film his segment for "Shark Tank," his app, Scholly, had already been downloaded by more than 100,000 users. Maybe that's why he looked so calm under the bright lights — even as his pitch made the investors lose their cool. Here's what Gray, a LeBow College of Business and Close School of Entrepreneurship student majoring in entrepreneurship, had to say about the show, which aired this past winter on ABC.

What was it like to step into the limelight and pitch to the sharks? The experience was amazing. It was like having a conversation and since I have done a lot of pitches in the past, I was confident and ready. The segment was edited a bit and didn't show a lot of the compliments they threw at me as well. It was fun.

You looked pretty composed in front of those cameras. What was running through your head? I was excited to get an offer so quickly and that the Sharks were interested. As I said, there are things that were not aired that would have explained my composure. I have dealt with powerful people before so I wasn't intimidated. When you are on national TV, you are not there to just get a deal, you are there to make sure you look good to the 10 million people watching!

So, you started the biggest fight that ever erupted in the "tank." What was it like watching what transpired on TV? I had a watch party so my friends, family and I watched it for the first time together. It was great! In my opinion as well as many on the Internet, it really made Scholly look good. We have millions of people on the Internet talking about us and we are No. 1 in the app store. I would have been happy to answer any questions Mark and Robert had, but Daymond and Lori gave me what I wanted in terms of a deal and their belief in what Scholly will become. — *Joseph Master*



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 Feb. 15, 2015.
- 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. 11, 2015.

DREXEL MAGAZINE

40 Under 40 Nominations
3141 Chestnut Street, Suite 309
Philadelphia, PA 19104

[DREXEL: SOCIAL]

Facebook



666
likes

3
comments

20
shares

In February, Drexel student Christopher Gray got "Shark Tank" execs Lori Greiner and Daymond John to bite on his Scholly app! Gray — whose app ignited one of the most heated arguments among the investors in the show's history — was able to secure \$40,000 for a 15 percent stake in his startup.



@foxschool: MAR 5

Kudos to a local entrepreneur, @DrexelUniv's Christopher Gray, whose app has climbed to #1 in Apple's store. <http://ow.ly/JHw3p> @LeBow

3,100
likes

113
comments

395
shares

116,544 people reached



@PhillydotcomENT: MAR 9

"Shark Tank" has helped elevated this @DrexelUniv student's app: <http://bit.ly/1Gjam1a>



@kadud: FEB 21

Just watched @sharktank on DVR; so proud and excited for @scholly5!!! @DrexelUniv students can do anything — like stir up the Sharks!

Twitter

@KYWNewsradio: MAR 11

@DrexelUniv partners with @TechGirlzorg to launch new game design program for women: <http://cbsloc.al/1E5jCnj>

@DrexelDragons: MAY 11



In case you missed it...

@Drexel_Crew#3peat

#champions#DUBelieve

@teerick: MAR 11

We know girls code with the best of em; @DrexelUniv & @TechGirlzorg do too! killer story from @Nicole_Brewer this AM <http://cbsloc.al/1E5jCnj>

@Becky_Urbano: MAR 6

So cool to hear Dr. Cohen of @DrexelUniv on @WHYYThePulse talking about live cell imaging! Love having a local health/science show in Philly

@ItsSarahsStory: MAR 5

SO honored to be part of SUCH an amazing list! RT @DrexelUniv RT @DrexelNow: It's here! @DrexelMag's 40 Under 40 <http://bit.ly/1M8ZmWg>



2,654
likes

34
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90
shares

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youtube.com/DrexelUniv

CYBER FINGERPRINTS



@thephillyvoice: MAR 10

@DrexelUniv researchers ID program-mers using 'cyber fingerprints':
<http://bit.ly/1D0DUDk>

@NewsWorksWHYY: MAR 9

@DrexelUniv researchers map pro-grammers' "fingerprints" in their code, could be used to track viruses, etc.
<http://www.newsworks.org/index...>

@fjlgamer: MAR 5

Entrepreneurial Game Studio at the @excitecenter at @DrexelUniv is on the cover of City Paper this week.
[http://issuu.com/phillycp/docs/issuu_3_5_2015/1 ...](http://issuu.com/phillycp/docs/issuu_3_5_2015/1...)

@Drexel_CoAS MAY 4

Repost: @NatGeo will document

@DrexelUniv prof

@KatyGonder &

@Bioko_BBPP's

work this winter!

[instagram.com/p/2MjcFdrVtg/?...](https://www.instagram.com/p/2MjcFdrVtg/?...)

pic.twitter.com/AZE0G0cuLI



@Tessie210: MAR 3

Excited to see @DrexelUniv got a grant from @The3Day ! I'm a survivor and 7 year walker, my son is a #drexel student!

@DrexelNews APR 17



#Drexel announces new provost: University of Miami's M. Brian Blake
<http://bit.ly/1G46J3b>

Instagram



STUDY ABROAD
PHOTO CONTEST
WINNER
2015

Our students have been to some amazing places around the world, so choosing a winner of the 2015 Study Abroad Photo Contest was tough. In February, the votes were counted and David Fleishaker was selected as the winner with his photo "feeding a mother and her baby" at Maru Koala & Animal Park in Australia.
#drexelstudyabroad



New year. New term. Wishing our Drexel Dragons lots of success in 2015!



Snow day! Heavy snow cancelled classes in January but the campus was still bustling.



DRAGON QUOTES

“As president of Drexel University, I know first-hand that the co-op model works.”

— **JOHN FRY**, president of Drexel, in an op-ed in the *Los Angeles Times* about the co-op's role as an alternative to unpaid internships.

“It's a lot different to actually see yourself and your physical form when running, compared to how you think you look when you run.”

— **KEVIN GARD**, a clinical professor and director of the doctoral program in physical therapy in the College of Nursing and Health Professions, about one of the benefits of participating in a running mechanics exam offered at Drexel.

“I see Drexel as a talent magnet attracting incredibly talented students, faculty, trustees, staff, members of the Philadelphia community, corporate partners, etc., and our goal is to create a community in which we bring these talented people together to support students through to graduation.”

— **RANDY DEIKE**, senior vice president of the Office of Enrollment Management and Student Success, on what he hopes to accomplish with new recruitment and admissions efforts aimed at boosting the number of students who graduate.

“We've seen plans come and go in this city. Lots of times. And that's the real question. What's different this time?”

— **HARRIS STEINBERG**, a distinguished teaching professor in Westphal College of Media Arts & Design, and executive director of the Lindy Institute for Urban Innovation, about new development plans for the Market East area of Philadelphia.

“If you want to learn to cook, there are cheaper ways to do that. If you want to dig deep into the science of food, the history, the culture, if you want to do product development for food companies and nonprofits, solving real world problems, then you need to be at a university.”

— **JONATHAN DEUTSCH**, director of the Center for Hospitality and Sport Management, in a *Philadelphia Inquirer* article.

“It is exciting news for the world of Cézanne scholarship: you think you know the totality of an artist's oeuvre, and then you realize it is still incomplete and probably always will be.”

— **MARTHA LUCY**, an assistant professor of art history and museum leadership in the Westphal College of Media Arts & Design, on the discovery of two unfinished sketches of French artist Paul Cézanne at the Barnes Foundation, where Lucy is a consulting curator.

“Ten very formative years had passed in my life, so it was definitely like reminiscing about this fun movie project we had worked on during my youth.”

— **JAMIE HOWARD**, a senior electrical engineering student, on finally viewing the Oscar-nominated film “Boyhood” in which she played the main character's stepsister.

“If Drexel recreational athletics were a team, 2014 would have been their best season in the history of the program.”

— **ERIC ZILLMER**, director of athletics and Carl R. Pacifico Professor of Neuropsychology in the College of Arts and Sciences, on Drexel's Recreation Center and intramural sports earning national rankings and awards this past year.

Congratulations to the Class of 2015

More than 7,000 Dragons are now official Drexel alumni after four Commencement events in Philadelphia and Sacramento.



1. These ear-to-ear grinning graduates from the College of Medicine's Laboratory Animal Science master's program are, from left, Manali Desai, Matt Tanhauser, Ashley Varley and Samantha Conolly, who celebrated at the Kimmel Center for the Performing Arts on May 15. **2.** Is Kline School of Law graduate Kyle Gray waving goodbye to Drexel, or hello to his future? Regardless, the happiness is palpable as he poses with classmate Brice Freyer at the May 21 ceremony at the Kimmel Center for the Performing Arts. **3.** LeBow College of Business graduate Marc-Gregor St. Gourdin works the camera after receiving his diploma at the June 12 ceremony on Drexel's University City Campus. **4.** School of Biomedical Engineering, Science and Health Systems graduate Jillian Born takes a moment to let it all sink in after the June 13 ceremony on Drexel's University City Campus. **5.** Say hello to these newly minted MBAs from the Drexel Sacramento campus, which celebrated its Commencement on June 20.



Visit Drexel's Commencement 2015 Storify at <https://storify.com/DrexelUniv/commencement-2015> for more highlights from the flurry of #Drexel15 activity.

TIME & PLACE

2.27.15 MADRIGAL DINNER,
GREAT COURT

The first feast took place way back in 1561.

Well, the event took place in 1991, but for those two special nights, everyone feasted, danced, sang and dressed as if it were Elizabethan times. The next year, in 1992, students celebrated as if it were 1562. Just like that, a Drexel tradition was born.

Drexel's Renaissance-themed Madrigal Dinner has been an annual dinner ever since — and this year it put on a special show for its 25th anniversary. To commemorate the milestone, the Drexel Chamber Singers invited alumni back to “Ye Olde Great Court” in Main Building for two extra-festive performances in February.

During the two-hour family-style dinner and show, choral singers perform madrigals, act in character (there are lords, ladies, two “arrogant visitors” from the Spanish Court and some swordplay), and recount tales and stories.

“The overall experience is great for learning about history and singing music from a classic period in time,” says Alexis Wolfer, an undergraduate student in the LeBow College of Business who participated in her fourth madrigal dinner this year. “The costumes make the experience very authentic and we practice the script to make it as realistic as possible.”

1 /// Madrigals are songs of love gained and lost sung by small groups of singers, sometimes with light instrumentals. Often performed at feasts and celebrations, the music eventually came to define the way the modern world celebrates Renaissance dinners. The 16 singers performed 11 traditional madrigals, plus a number of “dirty ditties” after dinner.

2 /// When Drexel Chamber Singers Director and music professor Steven Powell joined Drexel's faculty 26 years ago, madrigal dinners had been popular on college campuses for a couple of decades. But nothing had been attempted at Drexel. “At the time, Drexel's choral program was quite small and the Chamber Singers were just a group of 11 singers who did a short segment in the University Chorus concert

each term,” he explains. “I wanted them to have their own event.”

3 /// Next to the human voice, the most popular instruments traditionally used by Renaissance performers included the drum, cello, viola and harpsichord. Although not pictured, the Chamber Singers used a beautiful harpsichord that was loaned to them semi-permanently

by a student who graduated a few years ago. Harpsichords resemble pianos on the outside but instead of using impact strike to generate sound, a mechanism inside plucks a string, which produces a harp-like trill that harkens back to the days of heraldry.

4 /// Sixty beasts (chickens, as it were) were slaughtered for the feast, which consisted of traditional roast vegetables served with

Pictured from left:
Chris Doblovosky
'18, Zach van Rijn
'17, Penni Bacheler
(visitor), Steven
Powell, Emily
Barth '15, Corey
Fedorowich '16
and Matthew
Prusinski '16.

JEFF FUSCO





roast capon and salmon, a bisque-like potage Jacqueline, and warm apple tart for dessert — all heavy with historically accurate amounts of butterfat and christened with an opening toast of wassail (which was non-alcoholic — definitely not very historically accurate). The dining is convivial around long, shared tables. “It would have been a very social event and that’s the feel of the dinner, for it to be about meeting and

eating and listening to beautiful music, and talking about Queen Elizabeth,” says Hannah Rechtschaffen, a graduate assistant in the Department of Performing Arts.

5 /// Audience participation is a big part of the fun. In real life, this courtly chanteuse Penni Bachelier is a software developer for ReminderMedia in King of Prussia. She came with 20 members of the local chapter of the

Society for Creative Anachronism, a “living history” group where she holds the position of seneschal (analogous to president). “The harmonies were fantastic; I get chills listening to them,” says Bachelier, who sang with her chamber choir in college. “Madrigals have a certain sound that’s familiar and inspiring at the same time.”

— Alissa Falcone, with Sonja Sherwood



**OVER NEARLY
FOUR DECADES
AS A COACH AND
ADMINISTRATOR,
MARY SEMANIK
USHERED WOMEN'S
ATHLETICS
THROUGH
THE HISTORIC
TRANSITIONS OF
TITLE IX — AND NOW
SHE HAS ENDOWED
DREXEL'S FIRST
NAMED COACH OF A
WOMEN'S TEAM.**

BY PRIYA RATNESHWAR

A Post-game Assist

Mementos from Mary Semanik's legendary career as a star athlete, coach and longtime director of women's athletics at Drexel University adorn the walls of her cozy apartment in a Newtown Square, Pennsylvania, retirement community.

Plaques and certificates attest to her numerous milestones as a field hockey and lacrosse player: 1978 inductee into the Temple University Sports Hall of Fame, 10-year member of the All-American lacrosse team, 1985 inductee into the Pennsylvania Sports Hall of Fame and 1996 inductee into the National Lacrosse Hall of Fame.

Occupying the most prominent position in Semanik's living room are portraits of herself with her late husband John Semanik '56, director of Drexel Athletics from 1962 to 1991, which were commissioned by Drexel when the Semaniks became members

of the University's Athletic Hall of Fame in 1994.

The care with which these honors are displayed belies Semanik's modesty when she talks about the accomplishments they represent. The game she most remembers, for example, is one in which she accidentally scored a goal for the opposing team. And of her prominent role in Philadelphia's lacrosse scene, she says: "I had so many good people around me. All I had to do was my job, and they did the rest of it."

Semanik is equally humble about her tenure at Drexel, where she began teaching and coaching in the 1950s while still a student at Temple and then served alongside her husband in administration from 1965 to 1991. She prefers to emphasize John's leadership in driving the rapid progress that Drexel Athletics enjoyed during that time.

"I was behind him pushing, but John was the boss," she says, laughingly adding, "do you hear me, honey?" as she glances heavenward.

John Semanik, a former Drexel football player, returned to Drexel as

athletic director in 1962 after working for the Federal Reserve Bank for several years. His obituary in *The Philadelphia Inquirer* recounts that “he was ahead of his time in recognizing the importance of sports economics.” He drew on his financial background to oversee key changes in the department, like taking the program Division I, moving the Dragons from the Middle Atlantic Conference to the East Coast Conference and adding the University’s Physical Education Athletic Center — now known as the Daskalakis Athletic Center (DAC).

Semanik calls her husband a leader, someone who “got things done.”

Many of Semanik’s former colleagues, however, insist that she is a leader in her own right, one who advocated for women athletes and coaches as she helped guide Drexel’s athletic program through momentous changes in women’s collegiate sports, including the 1972 introduction of Title IX legislation and the transition in governance from the Association for Intercollegiate Athletics for Women (AIAW) to the NCAA Division I for women.

“It was quite the time of growth,” remembers Carol Kashow, director of athletics at the John Jay College of Criminal Justice and former Drexel softball and badminton coach. “Mrs. Semanik had a vision for how we were going to move forward in a way that was within the school’s means but made sure that all students had equal opportunity and equal support.”

Now, nearly 25 years after her retirement, Semanik is helping to transform Drexel Athletics yet again by making a \$1 million commitment from her husband’s and her estate to the program. Her gift will endow the first named coaching position of a women’s team at the University, as well as provide unrestricted support.

The Mary Semanik Head Coach of Women’s Lacrosse is currently held by Hannah Rudloff, MS ’13. Eric Zillmer, director of athletics and Carl R. Pacifico Professor of Neuropsychology at Drexel, says that this endowed position will provide lasting resources that will allow Rudloff to further strengthen what is poised to become a Top 30 program. Zillmer adds that Semanik “forged women’s athletics at Drexel,” helping to lay the groundwork for a program that was ranked

Mary Fetter Coaches Girls' Sports at Drexel
By RUTH KELLER
NEWS Sports Reporter

Mary Fetter, an outstanding and popular athlete, student, and all-around leader, who was graduated from Temple in February of 1961, received last month an appointment to the women's physical education staff of Drexel Institute of Technology where she has charge of badminton and assists in other sports.

Mary majored in health and physical education at Temple and took an active part in sports and other campus activities. For three years she served as captain of the hockey team.

Phi Delta Pi Treasurer
Phi Delta Pi, national physical education fraternity, elected Mary to membership and then to the office of treasurer. She was chosen vice-president of the Executive Board of the WAA and president of Crown and Shield, physical education honor society.

Besides her athletic activities, Mary was a member of the Maskeet Senior Honor Society and was on college is sign received the high that sor-combina- vity and ary' was island- pool (she played the armthore

MARY FETTER
Drexel coach

she went to Millersville STC where she participated in varsity hockey and basketball. Last fall as a member of the Owlettes hockey team, Mary was placed on the fourth All-Philadelphia team and went to Rochester, New York, for the All-American tryouts. She also plays on the Owlettes basketball team and for the past two years has coached the Temple University Hospital basketball team.



“At one of the first East Coast Conference swim championships that Drexel hosted, the women’s team won and, of course, they threw me into the pool since that was what you did to your coach. Mary was there, too, handing out trophies with the conference commissioner, and the girls were so excited that they threw her in as well. Immediately after they’d done it, they thought, ‘Oh my gosh, can she swim?’ Luckily, Mary could, and she was a terrific sport about it.”

— Barbara Kilgour Cleghorn, former Drexel swim coach and director of women’s athletics

Athletics Hall-of-Fame member Barbara Kilgour Cleghorn.

“When the NCAA took over from the AIAW,” Cleghorn says,

No. 1 nationally in gender equity in the March 2002 issue of *U.S. News and World Report*.

Such superlatives were a long way away, however, when Semanik first arrived at Drexel. Resources were scarce across the board but particularly for women athletes.

“I used to teach phys-ed classes in the [Philadelphia] Armory,” she recalls. “We’d go in for dance, and there would be puddles of beer all over the floor because there had been a union meeting there the night before. And women’s lacrosse used to have very little money to spend. We would have to re-use the previous team’s shoes.”

The transition to Division I and the passage of Title IX brought in an influx of funding that allowed the Semaniks to expand both men’s and women’s programs. As equal access to federally funded educational programming — including collegiate athletics — became the law, Semanik worked with her husband to increase opportunities for Drexel’s women athletes, including introducing new sports, improving equipment and facilities, and earmarking a budget for recruiting.

“People realized women could play hard sports, and they should be given that opportunity,” Semanik recalls. “We started getting the financial backing we needed.”

Full-time coaching appointments were another area of investment, and the Semaniks, Kashow says, “were game to take a chance on several young coaches.” Mary Semanik was especially intent on giving female applicants a fair shot at coaching positions, recalls Drexel

“women’s college sports became better resourced and more sincerely recognized, and started attracting men and women coaches. Mary wasn’t opposed to hiring men, but she really tried to give women the opportunity to make a place for themselves in this new structure.”

Cleghorn experienced firsthand the power of Semanik’s advocacy. Hired to be an assistant swim coach in the 1970s, Cleghorn advanced to become assistant women’s athletic director and, after Semanik’s retirement, director of women’s athletics. She later moved on to high-level athletics administration positions at Temple, Southern Connecticut State and West Chester universities.

In addition to the opportunities Semanik gave them, the coaches who worked under her also treasured her mentorship. Lillian Haas, Drexel Athletics Hall-of-Famer and one of the winningest coaches in Drexel women’s basketball history, says: “Mary would allow you to grow at your own pace and gave you the freedom to make your own decisions about your teaching and coaching.”

Always at the core of Semanik’s commitment to women’s athletics were the generations of students who went through the program during her career at Drexel. Even after she left coaching to enter administration, she continued to maintain a close relationship with the student-athletes.

Renee Bucci Alshouse ’88, a former field hockey and lacrosse player and Drexel Athletics Hall-of-Famer, remembers being impressed that Semanik always knew the names of her and her peers and made a point to talk to them: “Mrs. Semanik had her finger on the pulse of everything that was going on,” she says, “and she was aware of the student-athletes’ accomplishments and struggles.”

One of Drexel Senior Associate Athletic Director Laura White’s fondest memories from when she was the coach of women’s



“When Mary and I were hired at Drexel, the men and women had separate gyms, no co-ed gym classes, and the staff members had men-only and women-only eating facilities. Mary and I used to enjoy eating in the men’s facility just to see if we could. No one ever said a thing.”

— Kathy Frey, former Drexel swim instructor and assistant director of women’s physical education at Drexel



“On occasion I would bring my dog to school, and Mary allowed it. What boss does that and how can you not salute a boss who likes animals and sports?”

— Lillian Haas, former Drexel head coach of women’s basketball and associate professor of physical education at Drexel

“Mr. and Mrs. Semanik drove into work and back home together every day, and they really worked as a team. Mr. Semanik experienced the growth of Drexel Athletics from the time he was a student at the University; as the women’s program grew, he was able to share this know-how and perspective with Mrs. Semanik.”

— Carol Kashow, former Drexel badminton and softball coach and director of athletics at John Jay College of Criminal Justice

tennis was Semanik’s frequent presence at her matches: “It meant so much to me and to my players,” White says. “You could see how excited they were that Mary was there supporting and encouraging them.”

Semanik's recent gift was motivated by her wish to leave an enduring legacy, with her husband, to benefit future generations of Drexel's student-athletes. She hopes it will allow Drexel Athletics to leverage not only the program's rising success but also the historic changes in women's college athletics that she has seen unfold over the course of her career.

This past April, the University officially recognized Semanik's philanthropy, and her and her husband's lasting impact on Drexel, with the naming of the Mary and John Semanik Lobby in the DAC. The event drew more than 120 attendees, including the Semaniks' family and friends; Drexel faculty, staff and administrators; and former Drexel coaches and athletes.

"The Semaniks simply were deeply committed to nurturing the talents and ensuring the well-being of all of our student-athletes at the University," said President John A. Fry during the dedication ceremony. "Together, they did something really rare: They built the foundation of one of the most successful and honorable Division I programs in the United States." [D]

"One year, for the annual women's program holiday luncheon, I got her a mug that said 'boss' and described what it meant to be a good boss. Some 20 years later, when I got my first job in administration at the College of St. Elizabeth, Mrs. Semanik mailed me that same mug. I couldn't tell you how much that meant to me; it put a huge smile on my face."

— Carol Kashow, former Drexel badminton and softball coach and director of athletics at John Jay College of Criminal Justice

Wrestler Makes School History at Conference Championships

After losing to a particular opponent twice, most might have reservations about facing that person a third time.

Kevin Devoy Jr. didn't have any hesitation when faced with that situation. Instead, he had a plan.

Devoy, a redshirt sophomore, faced Lehigh University's Mason Beckman, a redshirt junior, for the 133-pound championship of the Eastern Intercollegiate Wrestling Association (EIWA) in March. Devoy was seeded second while Beckman was the weight class' top seed.

"My game plan this time was to not let him finish his shots and not let him get the takedowns," Devoy says.

That strategy served Devoy well enough to get him through three overtime periods. He began the fourth with a "riding time" (the time he had control over Beckman in the match) advantage of 18 seconds.

"I knew I had to get out and then I'd be conference champion," Devoy says. "I was exhausted, but he was breathing really heavy so I knew he was more tired. I didn't have any stalling calls on me at the time so I knew I could back up and I wrestled defensive."

Sure enough, Devoy prevailed and defeated the All-American Beckman to take home the first EIWA championship for Drexel.

"It was an awesome feeling," Devoy says.

"It's a great conference, one of the toughest in the country behind the Big Ten," Devoy says. "There's definitely a lot of depth

Sophomore Kevin Devoy Jr. stuck it out through four overtimes to walk away as Drexel's first Eastern Intercollegiate Wrestling Association champion.

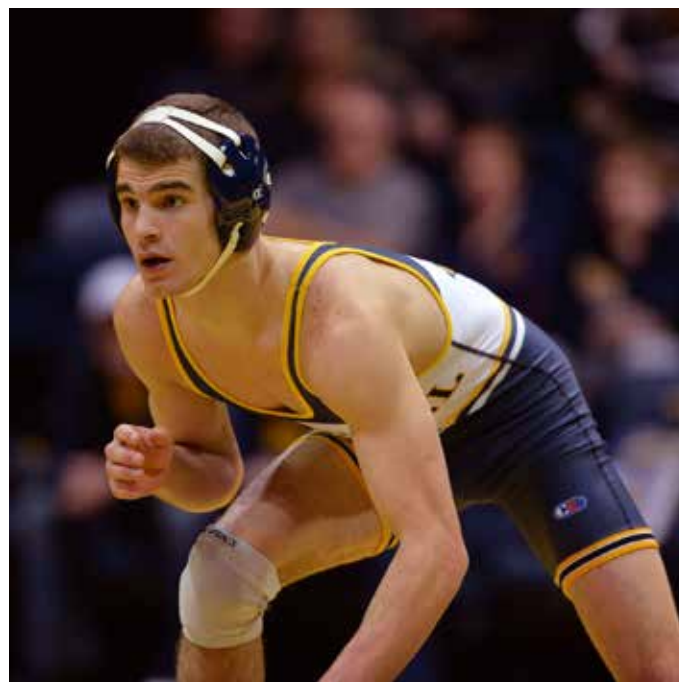
BY FRANK OTTO

in the conference. There are really no easy matches."

As a team, Drexel finished sixth this year, an improvement on the 13th place the team achieved in 2014's championships.

"Our team really showed up," team coach Matt Azevedo says. "It was the best we had wrestled as a team all season long."

The success at the EIWA Championships served as a springboard to the NCAA tournament. Devoy advanced to the quarterfinal round of the NCAA Championship and eventually lost in overtime to earn All-American honors. [D]



GREG CARROCCIO

from the **DAC**

▼ MEN'S LACROSSE

A Lax Approach

Drexel men's lacrosse coach Brian Voelker has shepherded the program along a path of unparalleled success, thanks in large part to his coaching philosophy: Help young athletes develop as people, not just as players.

BY ADAM STONE

TOMMY LEONARDI



It can be hard to tell sometimes whether Brian Voelker is a coach or a counselor.

Make no mistake, the head coach of the Drexel men's lacrosse team knows how to field his players. The team won the Colonial Athletic Association (CAA) conference title last year, and made it to the final eight in the NCAA championship bouts.

Voelker pays close attention to the mechanics of the game: the catch, cradle and pass. But he is equally attentive — or perhaps even more so — to the human needs of his players.

"You have to teach them not just the game of lacrosse, but things about being a college student," he says. "They are young men entering college and they have a lot of lessons to learn along the way."

Drexel's sixth lacrosse coach has learned a lot along the way himself. He took the reins in 2009 and has driven the team to new heights, closing his sixth season with a 57-36 record at the school. In 2014 he led the team to one of the best seasons in the school's history, pulling off six straight wins at the end of the regular season.

The strong showing comes despite changes in the sport that Voelker says have not necessarily been for the better.

"The recruiting has changed," he says. "The recruiting cycle gets earlier and earlier, which I don't like at all. I don't think kids are ready to commit to where they want to go to school when they are still freshmen and sophomores in high school."

That kind of concern may help to explain why Voelker, when asked about his coaching style, talks not about the play on the field but rather about the off-field interplay between coach and student. "In some ways you feel like you are a father to these college kids," he says.

Voelker recalls an incident in which a player was struck by a car and almost died.

"I'd go over there, be in the hospital, see tubes coming out everywhere. As a coach you don't really know what to say to his mom and dad. These are situations that you are not always prepared for," he says. "But on the flip side I was down in Annapolis for a wedding for a kid whom I coached, so you do get that part of it."

Even as he watches his students grow, Voelker has also seen his sport mature over the years, reaching new heights of popularity and recognition. "When I grew up, if you didn't live in Baltimore or Long Island or upstate New York, you really didn't have an opportunity to play at the college level," he says.

The sport slowly spread across the Mid-Atlantic region, and about 20 years ago lacrosse

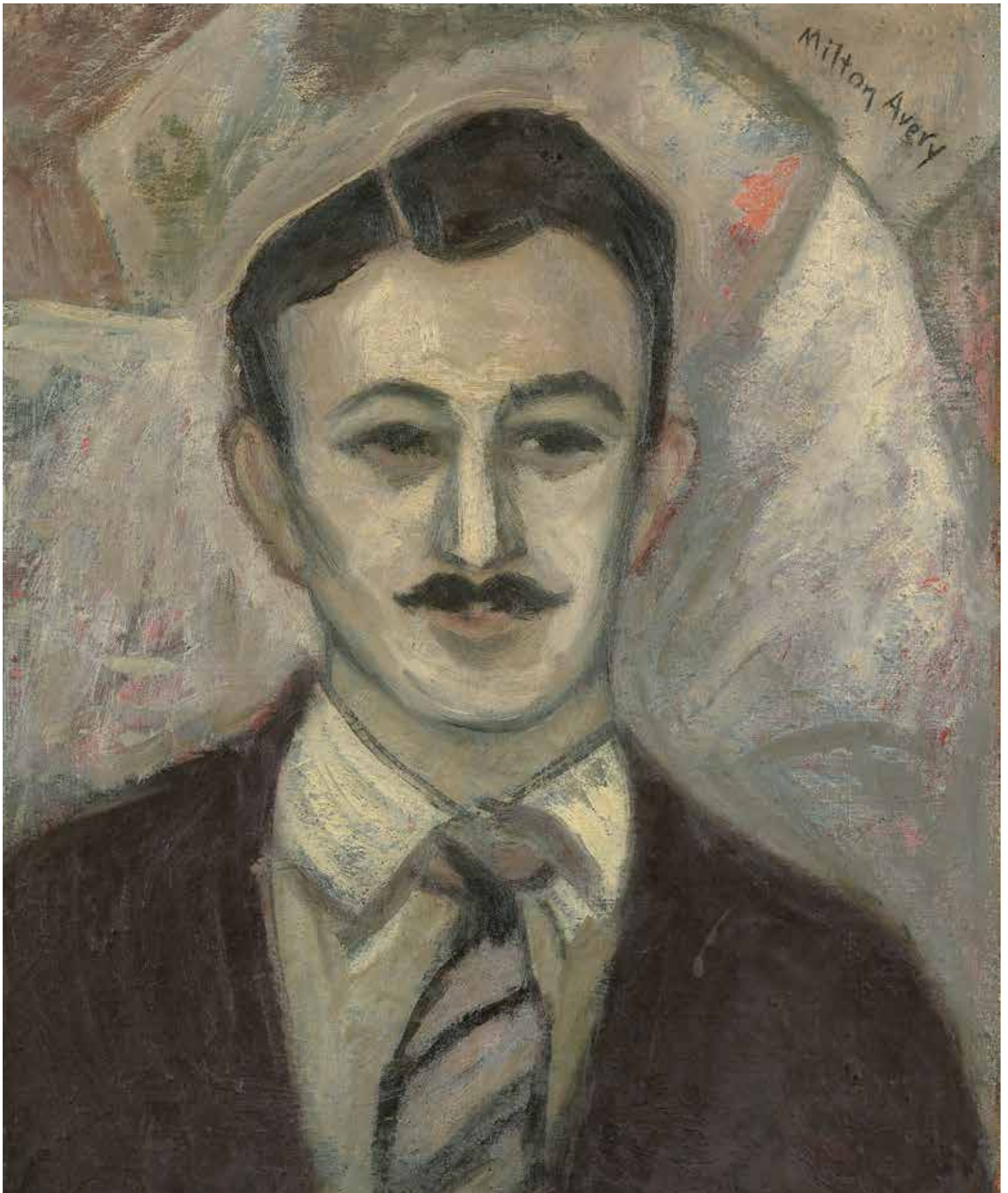
"You have to teach them not just the game of lacrosse, but things about being a college student. They are young men entering college and they have a lot of lessons to learn along the way."

— BRIAN VOELKER

went nationwide. Now there is TV coverage of the game. Still, despite its rising popularity, lacrosse lives in the shadow of its larger cousin, with around a dozen scholarships at Drexel compared to 85 nationally for college football.

The rising profile of the game has brought with it new opportunities for coaches like Voelker — a chance to play on a bigger stage, to expand the breadth of their athleticism. While much of his time may be spent nurturing the hearts of his young players, he is equally committed to strengthening their game. For Voelker, this means driving home the message of teamwork.

"Everybody's got a job to do," Voelker says. "You have to score, you have to assist, you have to try to hit the ball back. There are a lot of different ways to do that and each kid is a little bit different, so as a coach you have to mesh all those things together. You have to make sure everybody's playing the same direction." **[D]**



Gershon Benjamin as he looked in 1945. Painted by his friend, Milton Avery.

who was gershon benjamin



The story behind the painter's retrospective, on display in the Rincliffe Gallery this summer, serves as a reminder that every engineer needs a little inspiration now and then.

BY SONJA SHERWOOD

SIXTY-THREE YEARS AGO, a young student named Joan Facey '58 visited the picture gallery in Drexel's Main Building to unwind from her stressful studies. She was a freshman, an aspiring engineer — and also female, a fact that some of her professors never let her forget. ¶ The College of Engineering during the mid-20th century in what was then the Drexel Institute of Technology was a lonely place for women, and not always friendly. Facey remembers a day, for instance, when she asked a question in class and the instructor ridiculed her — for 40 minutes. After matriculating its first woman in 1945, the college conferred degrees on just 24 more women over the ensuing 15 years; there were others who dropped out.

If it hadn't been for the quiet breaks she spent in the gallery contemplating the University's art collection, Facey is certain she wouldn't have finished, either.

But she did, and today — and continuing through Aug. 7 — visitors passing through the Rincliffe Gallery on the third floor of Main Building will find a special exhibit that is Facey's gift to students and her fellow alumni.

Titled *Gershon Benjamin: Modern Master*, the exhibit features more than 60 paintings and works on paper by the prolific 20th-century American Modernist. While the artist had no ties to Drexel, he shared a close 46-year friendship with Facey and her mother from the time Facey was 5 years old.

Facey is sponsoring the retrospective in hopes that Benjamin's work may bring inspiration to others — just as The Drexel Collection did for her nearly six decades ago.

● For Love of Art

FROM THE MOMENT Benjamin began studying art at age 10 until well into his old age, he painted or drew daily. He was a classically trained artist, friend and contemporary to famous painters such as Milton Avery and Mark Rothko, and a lover of art who immersed himself in the exhibitions and creative circles of New York. Art was his whole life, yet when he passed away his oeuvre was largely unknown.

Born in Romania in 1899, Benjamin emigrated with his parents and siblings to Montreal when he was 2 years old to escape the pogroms sweeping Eastern Europe. In his early 20s, he settled in New York City and quickly became part of the 1920s art scene while holding a full-time position in the art department of *The New York Sun*.

During the Great Depression, when many American artists were supported by Roos-



Joan Facey as depicted by Gershon Benjamin in 1940. Gershon Benjamin Foundation.

evelt's Works Progress Administration and favored social realism — which portrayed the everyday conditions of the working classes and the poor — Benjamin and his friends resisted the trend, deeming such artworks “doctrinaire.”

They were influenced instead by the European avant-garde. A signature of their style was the belief that art should express abstract ideas and universal feelings, rather than convey explicit picture messages.

Benjamin was part of a friendly circle of Art Student League students who met to practice drawing together with models they hired. They called themselves The Croquis Club (from the Spanish word for sketch) and their group included Adolph Gottlieb, Arshile Gorky, John Sloan and the Soyer brothers, among others. Together,

they came to be referred to as Expressionists.

But while his contemporaries went on to fame as leading lights of the Abstract Expressionist art movement associated with the New York School, Benjamin sought his own creative path free of commercial influences.

“He believed that an artist should create his work out of an internal necessity rather than a desire to sell it, and throughout his life always distanced himself from opportunities to market his work or even to price it,” says Gina Greer, an art consultant and curator of the Benjamin exhibit.

He left behind an extensive collection of canvases bearing a style and skill that rival his famous peers.

“Two hundred years from now the name Gershon will be known as well as we know Van Gogh today,” Facey predicts.

Facey came to know the Benjamins in the late 1930s, when the artist and his wife bought a home near hers at Free Acres, a progressive artist community in Berkeley Heights in northern New Jersey. Benjamin would often use local children as models, or

“

Benjamin's work as a rule has a poetical, pensive bent, though never descending to prettiness, and finds expression in a low-toned palette... His form is 'felt' rather than vigorously insisted upon, which gives his canvases...a certain aloofness and air of reserve...”

— *Melville Upton, an art critic for The New York Sun, in 1937.*

give them a pen and paper on which to draw when they visited his studio. Though Facey and her widowed mother weren't materially well off, their friendship with the Benjamins enriched Facey's childhood.

"His work spoke to me," recalls Facey.

The couple had no offspring, and they eventually asked Facey to oversee the Gershon Benjamin Foundation Inc. and be the executor of their estate and art collection.

● The Engineering Connection

THIS SPRING TWO of Benjamin's works have been on view in the College of Engineering's office of the dean — a statement that at Drexel, artistic creativity and mechanical ingenuity have always gone hand in hand.

"The best engineers anticipate problems

for society," explains Bruce Eisenstein, vice dean of the College of Engineering. "What liberal arts gives us is an understanding of society, and the interaction between society and technology is where the new problems that need to be solved occur."

At Drexel's ExCITe Center, for instance, engineering students work alongside fashion design faculty on experiments with "wearable technologies" — such as textiles that store energy and knitted gloves embedded with mechanicals for hand injury rehabilitation. Drexel electrical engineers have also worked with museums, orchestras and theaters to program scenery changes, develop audience apps and make performances come alive. Recently, Drexel electrical engineers worked with a ballet dancer to create a dramatic visual effect of falling letters bouncing off her like raindrops as she moved.

One of the artworks displayed in the office of the dean depicts the Brooklyn Bridge quietly limned by sunrise. The other captures New York City's rooftop skyline and water towers. Both are scenes of the city as Benjamin observed it often when returning home from work at dawn: silent, empty, contemplative — homages to progress through industry.

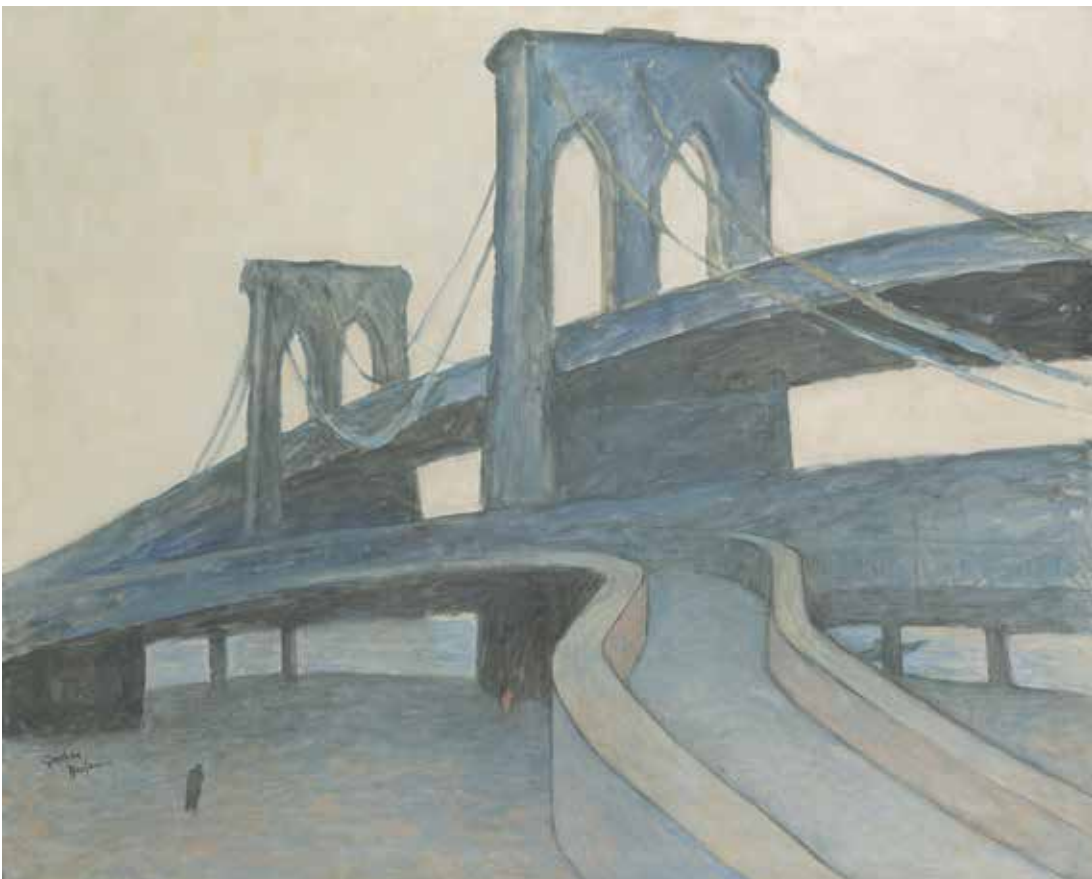
Gazing at them in his office one afternoon, Eisenstein remarked, "They look like they've always been here."

And, of course, art has always been at Drexel.

When A.J. Drexel founded the institution as the Drexel Institute of Art, Science and Industry in 1891, one of his first steps was to give James MacAlister, the University's future president, \$1 million to travel to Europe and purchase artwork as part of the University's educational mission. He believed that art was as important as what was learned in the classroom.

Those purchases became the flagships of The Drexel Collection, which now contains more than 6,000 objects including sculpture, drawings, paintings, ceramics and furnishings displayed across three galleries and throughout the Main Building.

The grandest of Drexel's galleries is still



"Brooklyn Bridge at Dawn," ca. 1968, by Gershon Benjamin. Gershon Benjamin Foundation.



the gallery in Main Building today known as the A.J. Drexel Picture Gallery.

It was here that young Facey found escape from the pressure of studies, prejudice and money worries. When she felt most drained, she would drag herself up the grand staircase and relax amid the masterpieces, magnificent grandfather clock and elegant antique furnishings. Sometimes, another student would softly play the ornate grand piano while she relaxed on a yellow brocade settee.

“As I put my books down, I also put down the burdens of the day, allowing beauty to fill

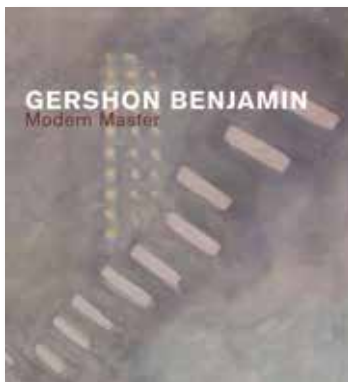
the empty inner space,” Facey recalls.

She and her peers would have needed all the psychic support they could muster. In the '50s, the College of Engineering had a “Marines mentality,” according to Eisenstein.

“It was like: We’re going to put you through hell and that’s how we can be certain you’ll survive in industry. They tried to get rid of two-thirds of the students,” says Eisenstein, who came to Drexel in 1965, when female students were still rare. (Today, women make up close to 20 percent

Above: “Spring Landscape #5 (Mont Royal, Montreal),” ca. 1947, by Gershon Benjamin. Private Collection.

Right: “Irises,” 1967, by Gershon Benjamin. Gershon Benjamin Foundation.



The catalogue for the Gershon Benjamin exhibit was designed by Drexel's Graphics Group, a student-run design agency created about 10 years ago within the Westphal College of Arts & Design. Faculty advisor Mark Willie worked alongside Marisa Watanabe '16, a junior studying graphic design, to produce the 72-page publication. The Graphics Group completes around 50 projects in a typical year, for which the students receive modest fees. "It's a great addition to their portfolio and a little petty cash for them," says Willie. "It's a little business."

of the college; for more about the history of women in Drexel engineering, see the story on page 34.)

Indeed, Facey recalls one professor telling a lecture hall filled with freshmen: "Look to the man on your right and look to the man on your left; one of you *may* graduate."

"It wasn't a friendly place for women, but it wasn't a friendly place for anyone," Eisenstein says. "The Drexel model was tough, but it made you very strong on the job."

Ultimately, Facey found a kind reception inside the Mechanical Engineering Department. "They were utter gentlemen," she says of the department's faculty. She coped with hostility from outside by forming a friendship with Robert Disque (pronounced Disk-way), who was then dean of the College of Engineering and had a few years earlier helped to launch Drexel's nascent Society of Women Engineers.

With Disque, she recalls discussing the readings he required of engineering students while on co-op — 60 hours of mind-broadening readings in literature, history and other liberal arts, followed by a test. Some students disliked "The Disque Industry Reading Program," and a few even failed to graduate on time because of the requirement, but Facey saw it for what it was.

"He opened up a world for me and it broadened my pretty wide interests even more," Facey remembers.

Those memories lingered with her long after she graduated with a degree in mechanical engineering in 1958 — becoming only the University's 18th female engineering graduate.

What followed was a long, successful career in the emerging fields of aerospace, cryogenics and industrial design working with companies such as Bell Labs and General Dynamics, where her Drexel preparation served her well.

"I saw myself in comparison with graduates from Princeton, MIT and Cal Tech in the aerospace industry, and I could see that I hit the ground running," she says.

Her assignments included working on boosters used in intercontinental ballistics and parts used to launch the first astronauts. When IBM introduced the first commercial computers, she taught companies how to incorporate the new technology and ultimately became the first female manager for one of her clients, United Parcel Service, where she remained for the final 29 years of her career.

Today, she is retired and living in Clayton, Georgia, where she manages the Gershon Benjamin Foundation. In 2013, when she proposed this exhibit at Drexel, she composed this message to the current student body: "The marriage of art and engineering, the matchup of immense beauty and precise execution of time and space, created — although I did not know it then — a combination of interests that today fills my life. May this exhibition nourish you with its beauty as I was nourished by The Drexel Collection." [D]

Where the Society Started

The decision to enroll as one of the first female engineering students at the Drexel Institute of Technology was very easy for Joan Rubin (BS '47): Drexel had women's restrooms.

It seems like a silly requirement, but the lack of a woman's restroom was the exact reason one University of Pennsylvania dean had denied Rubin's request to transfer into the engineering program as a Penn freshman.

"I was only 16. I was too naïve to say, 'Well, what does your secretary do?'" she says, remembering the perfect comeback to an argument from over seven decades ago.

Her actual response was even better: she enrolled in Drexel's then School of Engineering and graduated in the institute's first class of women engineers. The first female electrical engineering graduate, Rubin walked at the 1947 fall commencement ceremony alongside Alice Forbes (BS '47), the first female chemical engineering graduate.

Drexel's historic moment occurred during an important time for women in engineering. Two years earlier, women made up half a percent of the country's graduating engineering class. Now, 70 years later, the number is 20 percent both nationally and on campus — and, hopefully, it will continue to grow.

Since the beginning, women engineers at Drexel have helped mold the institution into the forward-thinking university it is today. But their influence and reach goes far beyond campus, or even Philadelphia. Some of them created or joined a student organization that jumpstarted the Society of Women Engineers (SWE), a nonprofit professional organization that currently has about 30,000 members and chapters on 300 college campuses.

Long before the **Society of Women Engineers** became a huge national organization, it was a tea party, then a lunch clique, and finally, the ultimate support group. And it all started at Drexel.

BY ALISSA FALCONE



The current board of Drexel SWE with Alma Forman, one of the founders of the society. The photo was taken at a regional conference on Drexel's campus this past winter.



Alice Forbes (née Maven) was Drexel's first female chemical engineering graduate.

Penn, it should be noted, didn't admit a woman into an undergraduate engineering degree-granting program until 1958 — 16 years after Rubin first applied and after Drexel had already graduated 24 female engineers.

"I guess they finally got a women's restroom," Rubin says.

The First Dragons of Their Kind

It was a long time coming, considering women first joined the American engineering field in the late 19th century. By the time the 19th

Amendment guaranteeing women the right to vote was ratified in 1920, women had earned all levels of degrees in a variety of engineering fields, though they were a select few. Opportunities for female engineers became more pronounced after the draft for World War II, though employers and the general public still doubted their abilities and suitability to the engineering field.

During that time, Drexel, already well-known as a technical institute, enrolled its first class of women, 17 students, in 1943. There were still challenges on campus, of course.

For all of the hullabaloo that women's restrooms had caused for Rubin at Penn, she and her peers didn't have any restrooms near the engineering classrooms in Curtis Hall. They did, however, have access to a men's locker room in the Main Building: It was the only entrance to Drexel's machine shop.

"We would sing 'She'll Be Coming 'Round the Mountain' to announce that we were going through the locker room. There was no other way you could get to the machine shop, and you just had to work around it," says Alma Forman, PE (BS '49), Drexel's first female civil



Joan Rubin

engineering graduate.

Another thing to work around? For some women, it was the male professors, who created more problems than the male students. One of Forman's professors told her she was the biggest mistake in the class (though she did pass his course). Rubin's calculus professor told the class they didn't have to worry about her being at school to catch a man since she was already married.

"And that was nothing. That was to be expected," Rubin remembers.

Not only was prejudice to be expected, but it was expected to be dealt with individually. Though they were easy to single out, Drexel's women engineers didn't know one another because they didn't take the same classes.

And some didn't stick around long: of the four women who started as female chemical engineering majors alongside Forbes, she was the only one left at the end of her freshman year, and every year until graduation.

In an effort to bring the women engineers closer, Dean of Women Dorothy Young hosted a tea party in 1945 to introduce the students to each other. It was so successful that the women started eating lunch together every day to discuss their similar experiences.

By the following fall, about 20 women had formalized their lunchtime support group as an academic and social club called the Society of Women Engineers. The first year's program consisted of technical speakers, social events and dinners for graduating seniors like Forbes, who is thought to have been the club's first president.

As the club grew and gained recognition at Drexel, so did the number of women engineers on other college campuses, especially on the East Coast. But they were just as isolated and independent as the Drexel students had been. Some spark, some catalyst, was needed to bring them together — but what?

Top row, from left: Phyllis Diamond Rose, Phyllis Evans Miller and Doris McNulty. Bottom row: Dean of Women Dorothy Young and A.W. Grosvenor, SWE's faculty advisor.

'The Nucleus From Which Grew the National Society of Women Engineers'

As it turns out, the idea of a greater "Society of Women Engineers" came from a freshman English term paper, which was written by Drexel mechanical engineering student Phyllis Diamond Rose (BS '53) in the summer of 1948, remembers Forman.

"She decided to write about women in engineering and when she brought this up, we started thinking about what other colleges had women engineers," says Forman.

Rose passed her class — and sparked a national movement.

In the spring, the Drexel students sent questionnaires to major engineering colleges asking if those institutions accepted women in engineering courses, if they had an organization similar to the society at Drexel and what those students did after graduation. The answers revealed that although some of the colleges did accept women, they weren't organized in any groups and they either hadn't graduated yet or revealed what kind of jobs they might be holding.

It was up to the Drexel women to unify their colleagues, and they succeeded beyond their wildest expectations.

The group, chaired by Forman, held a regional conference for women engineers in April 1949 that was attended by 83 engineering students from 19 colleges. Held at the Sarah Van Rensselaer Dormitory (which was then women-only), the event was completely financed by Drexel, thanks to Forman's collaboration with Drexel President James Creese and School of Engineering Dean Robert Disque, who spoke at the event.

That regional conference is not considered the founding meeting of present-day SWE, since it only involved students and did not create a formal governing body. Still, the meeting introduced the colleges and students who officially started the national SWE at its first national convention the following year. In fact, several of the "first ladies," or founding and charter members, were Drexel students, including Forman, Rose, Phyllis "Sandy" Evans Miller (BS '50), Eleanor Gabriel (BS '51) and Doris McNulty, PE (BS '58).

As A.W. Grosvenor, an assistant professor in the Mechanical Engineering Depart-



Alice Forbes,
née Maven



Row 1: J. Becker, Dean Young, Prof. Grosvenor, E. Greiner. Row 2: P. Diamond, P. Evans, M. Walker, D. McNulty, J. Kleinschmidt, C. Dolan, M. Martin



ment and the Drexel group's faculty advisor, would later say: "The initial members of the Drexel group, the nucleus from which grew the National Society of Women Engineers, were enthusiastic and hard working. They were determined to prove themselves in a profession dominated by men."

After the Boom

Drexel's first women engineers not only proved themselves in a profession dominated by men, but also ensured there would be space for other women. Several students, including Forman and McNulty, even obtained their professional engineering licenses at a time when not many engineers, male or female, had them.

Rubin and Forbes' legacies as Drexel's first women engineers remain an important part of the College of Engineering, which in 2014 celebrated 100 years since conferring its first degree. Rubin worked at Bell Laboratories and RCA before teaching math at a high school and working with her engineering husband. Forbes worked as a chemist in the Franklin Institute's rubber lab before raising 10 kids; she passed away in 2013.

After paving the way for future women engineers, Drexel's first class of SWE members continued to work with those who fol-

More than 60 people participated in the founding meeting of the Society of Women Engineers on May 27, 1950, which was held at the Cooper Union's Green Engineering Camp in New Jersey. Participants came from a loosely connected group of women engineers and engineering students at Drexel University, and from the Cooper Union and City College in New York, as well as from Boston and Washington, D.C.

lowed in their footsteps. Forman, Miller and McNulty all remained involved with SWE through various leadership roles, with Miller starting a SWE section in Pittsburgh and Forman at Temple University. After working in the industry, Forman later became a professor of mechanical engineering and later the director of computer services for Temple's School of Engineering and Architecture.

Though Miller passed away in 1982, the "first ladies" continued to occasionally meet, even after McNulty died in 2009. The bond that birthed the Drexel and national SWE groups holds up even 70 years later.

"The Society of Women Engineers is a great developing tool for women," Forman says. "It develops leadership. It's great for networking. You find support in unusual ways. And that's why it was formed in the first place: as a support group."

Generations of these support groups have passed through college campuses across the country, but it's a special tradition at Drexel, which has historically graduated large numbers of women engineers.

Today's SWE Drexel chapter holds 134 registered SWE members, including 20 officers. Much like the national organization, the Drexel chapter holds workshops, guest speakers, community outreach events and other opportunities to help women engineers grow academically, professionally and socially.

"While Drexel is where I learned to be an engineer, Drexel SWE is where I found my passion for being one," says Meaghan Paulosky (BS '15), the group's recent former president. "I've learned so many lessons that will carry me throughout my engineering career and eventually bring me back to Drexel SWE to share with the next generation of students."

As a member of the first generation, Forman reflected on what SWE accomplished when speaking at the Philadelphia SWE conference held on campus this past winter.

"It's kind of awesome looking back at this group that is now so large. It gives you a feeling of growth and satisfaction that there was a need, especially when there's still a need today," she says. **[D]**

A full-page background image showing a person standing in a vast, icy landscape under a cloudy sky. The person is a small silhouette in the distance, facing away from the viewer. The terrain is flat and covered in snow or ice, with some low-lying hills or mountains in the far background. The sky is filled with soft, white clouds against a pale blue background. The overall mood is cold and desolate.

HOW THEY SPENT THEIR SUMMER* 'VACATION'

BY SONJA SHERWOOD

The travel times are long, the weather is terrible and the food is lousy. But for the academics and young researchers who recently returned from a field science mission to Antarctica, the souvenirs make the trip worthwhile.

BREATHE. FEEL THE DEEP PINCH OF PURE COLD. ¶ WITH TEMPERATURES IN ANTARCTICA SOMETIMES SINKING TO MINUS 110°F*, THE SOUTHERN CONTINENT CAN BE AS FRIGID AS THE SURFACE OF MARS. ¶ BUT THAT ICY AUSTRAL AIR HAS MUCH TO TELL SCIENCE.

In October, a team of scientists including a graduate student and a post-doctoral researcher led by Peter DeCarlo, an assistant professor in Drexel's

PHOTO ESSAY



Department of Civil, Architectural and Environmental Engineering and the Department of Chemistry, traveled to Antarctica during the southern continent's chilly summer season to amass one of the largest and most detailed datasets of the continent's atmosphere ever assembled.

Among the 15 pieces of equipment they packed for the trip was a roughly 300-pound machine called an Aerodyne Aerosol Mass Spectrometer — a standard-setting

device that DeCarlo helped to develop while a graduate student at the University of Colorado. The machine analyzes aerosols — tiny particles in the air, smaller than 1 micrometer each. Researchers have measured aerosol composition in Antarctica before, but never with a tool this fast and precise.

Thanks to a \$390,000 grant from the National Science Foundation, DeCarlo became the first person to take the machine to the continent. The trip is the first of two planned with the device.

The information that the team collects could help scientists interpret ice cores to determine how Antarctica's atmospheric conditions have changed over time.

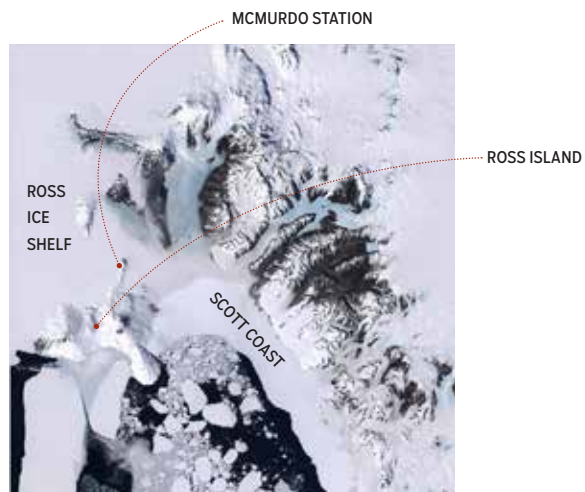
"Antarctica is one of the remaining pretty pristine places on Earth, so we are interested in trying to understand changes in the natural cycle that may be caused by human activity," DeCarlo says.

1 To reach Antarctica from Philadelphia — a 40-hour trip altogether — you first must get to New Zealand. The main passage to the continent is an unprepossessing terminal at the Christchurch International Airport. Through it flow researchers and support workers from around the world headed for McMurdo Station, the U.S. base in Antarctica that serves as the gateway to much of the continent. Before boarding,

passengers are required to prepare for the 6.5-hour flight by suiting up in special cold-weather gear. Goggles, check. Balaclava, check. Your choice between mittens and gloves.

Flights to McMurdo are aboard massive Boeing C-17 military cargo planes contracted through Lockheed Martin by the National Science Foundation. Uniformed Air Force personnel serve as the cabin crew, and passengers ride inside a hold designed to haul cargo as

large as Army tanks. Early in the season, seats are removed from the plane's interior to make room for storage pallets filled with fresh food and supplies for the station. Later in the season, passengers outnumber cargo. On this particular flight, Drexel researchers were one of about 10 research teams heading to the station at the start of its spring/summer season to perform research projects that can only be done in the unique Antarctic environment.





2

2 Flights into and out of Antarctica are scheduled every two days, but sometimes entire weeks pass without a landing. Visibility vanishes perilously when wind picks up and blows snow across Pegasus Field, a year-round landing strip on top of an ice shelf about an hour from McMurdo Station. There's a language to life at McMurdo that's based on weather conditions. All travel is banned under "Condition 1." Under "Condition 2," travel off-base is restricted to enclosed vehicles. Under "Condition 3," researchers are free to travel outdoors and flights continue as scheduled.

3 Air samples weren't the team's only souvenirs. They also took 3-D photos of Antarctica's terrain. Sean Davis, a scientist with the National Oceanic and Atmospheric Administration, shot these using two ordinary DSLR cameras. To create the dimensional visual effects, the cameras were mounted side-by-side on a custom-made rail to ensure they were level with each other. Each camera was spaced a few inches apart and equipped with an automatic trigger. This technique produces two identical, but slightly offset (like our eyes) images which can then be tinted red and blue using free software and merged into one image.



▶ Visit exelmagazine.org to experience what it's like to be in Antarctica through time-lapse videos and striking 3-D photographs.





4



4 McMurdo Station is like a small frontier town — remote and self-reliant. It boasts about 1,000 residents during the summer peak and a skeleton crew of about 250 who “winter over.” Researchers make up about a quarter of the population; the rest are mechanics, pilots, carpenters, cooks and other support staff. Owned by the United States and operated by the National Science Foundation, it is the largest of 30 research stations run by various governments on the continent, which is shared by international treaty. More than 100 permanent buildings have been erected at the station — a long way from the historic huts that mark the base’s first settlement and are still on the site — and they include medical buildings, a dining hall, firehouse, water distillation plant and power generator. Reputedly, some of the best evening views are from a dormitory lounge, where during the summer months the sun remains suspended above the horizon in a perpetual sunset.

5 Snowmobiles are the preferred mode of transportation in Antarctica. Lighter and faster than the large transporters known as PistenBullys, snowmobiles can cover in 30 minutes the same distance that takes a PistenBully two hours — perfect for scouting for a research

base on the ice shelf of McMurdo Sound. Researchers chose a site about 19 miles from McMurdo Station, on top of six feet of sea ice over the seasonally frozen McMurdo Sound, which they selected because it’s a location where winds blow in both from land and sea. They marked their route out onto the ice with flags every 50 to 100 meters so that when visibility turned poor, they could find their way back to McMurdo.

6 A small fishing hut contained everything the Drexel team needed to conduct their research. Positioned on top of skis, the hut was hauled out onto the ice by large bulldozers and powered during the study by two diesel generators. Initially the team was worried that the instruments would get too cold, but in the end they had the opposite problem. Running constantly, the equipment sometimes heated the tiny space to 90° F, forcing the team to install remotely controlled fans to cool down the interior. Antenna on the roof brought spotty Internet service via satellites, keeping the hut’s control panels connected to the team back at McMurdo Station, if only intermittently. From there, the team could monitor instrument readings as they poured in every few minutes, 24-hours a day, for five weeks.

6





7

7 The team's small fishing hut contained about \$1 million worth of sensitive air monitoring equipment.

A. The Aerosol Mass Spectrometer measures minute-by-minute changes in the chemical composition and size of particles in the air less than 1/100th the diameter of a hair. It is used by researchers all over the world as a powerful method for measuring submicron particle composition, size and concentration — but never before has the instrument been used in Antarctica. Most existing measurements of particle composition in Antarctica have been made using filter and impactor particle collection and off-line chemical analysis of samples. But these tools have

limits. Filter collections and off-line analysis take a long time (days as opposed to minutes) to collect sufficient concentrations of particles, which can introduce sampling artifacts, and they have limited size distributions.

B. Filter collections (not visible in the photo) were used to verify that the spectrometer was getting correct readings.

C. Another device used for verification was the Scanning Electrical Mobility Sizer. It uses radioactive polonium to give particles a charge, which then enables the device to determine particle size distribution in the atmosphere from 20 nanometers to 1 micrometer.

D. This box contains an ultra-high sensitivity aerosol spectrometer that sizes particles optically using lasers.

E. The Particle Into Liquid (PILS) Sampler is a prototype of a new design that was being used in extreme cold for the first time on this trip. It works by collecting particles into droplets that are stored in vials for later testing in a lab. This is the only instrument on the trip other than the filters that can be used to measure particle composition.

F. The gas phase instrument measures ozone (O₃) and NO_x (nitrogen dioxide, NO₂, and nitrogen monoxide, NO) in the atmosphere. The team brought this

along because when sun shines on snowpack at low wind speeds, the snow releases NO_x through photolysis. The team detected a strong pattern of NO_x increasing during daylight hours.

Additionally, the team recorded data on sun intensity, wind speed/direction, temperature, relative humidity and pressure.

8 Michael Giordano (pictured here with Lars Kalnajs, the project's co-principal investigator and an atmospheric scientist at the University of Colorado) is a Drexel post-doc researcher whose previous experience with all 15 pieces of sampling equipment earned him an invitation to join the field campaign.

A native of the East Coast,

Giordano was in the process of completing his PhD at the University of California – Riverside when this opportunity came up. "I kind of wanted to check off all seven continents and that last one is the hard one," he says. "I was in the right place and the right time. It was serendipity, really."

Before this trip, his only previous field campaign was on board a well-appointed, sparkling new cargo ship cruising up California's coast. By comparison, living at McMurdo Station was like being in college, he says. "You live in dorms, have roommates, eat in a cafeteria, we even had basically RAs who made sure we did some cleaning for our floor."

Once the thrill of being in one of the most remote ends of the Earth



wears off, there is the job itself: 8- to 12-hour days consisting of rising, eating, suiting up in winter gear, traveling out to the hut, calibrating and checking equipment, and then traveling back, eating and sleeping.

The work could be tedious, Giordano admits. "But at some point you have to step back and say, 'I'm out here standing on six feet of ice over water and I'm running a half-a-million-dollar machine,' and that's pretty cool."

Back at Drexel, he's now "slogging through" the many gigabytes of data collected. "We had some hypotheses when we went in and we're seeing things to confirm what we thought and also things we didn't expect," he says. For example, the team observed some "depletion events" in which ozone dissipated under sunlight and particles were observed.

8

University City *Come See What's New!*

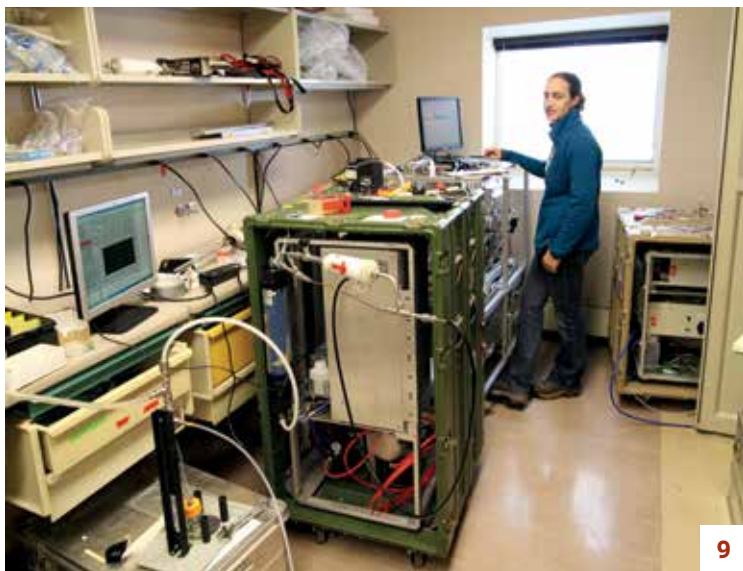


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9

9 It takes special training to operate the Aerodyne spectrometer (partially visible under the laptop computer) — and experience is how graduate student Anita Johnson came to be part of the expedition. As an environmental engineering doctoral candidate, she has spent the two-and-a-half years of her education learning the machine's ways. Before grad school, she had been fascinated by an Aerodyne spectrometer that belonged to a company where she worked, but she wasn't allowed to touch it. She came to Drexel specifically to master it, and specifically to work with Peter DeCarlo. (The software that runs it actually has DeCarlo's name on the copyright.)

Johnson grew up in California, and when she got the invite, she loaded up on several hundred dollars' worth of outdoor clothing from Eastern Mountain Sports — "I hate the cold," she says. But a chance to troubleshoot the machine on its maiden voyage in Antarctica? "I don't think you pass on that," she says.

Besides, it wasn't as cold as she expected — most days were 15° F to 20° F and sunny. Inside the hut, where Johnson once spent the night amid the overheated equipment, it was practically tropical. "Sleeping out on the ice was one of the hottest nights of my life," she laughs. [D]

With some reporting by Matt Erickson.

GET UP & GO!



THE ALUMNI ASSOCIATION'S ALUMNI TRAVEL PROGRAM

As part of its commitment to lifelong learning, the Drexel University Alumni Association offers alumni travel programs which combine educational forums and excursions to places of historical and cultural interest, with the opportunity to enjoy unplanned experiences and meet local people. Join fellow alumni in wonderful new destinations each year. You will be offered the highest quality travel experience through the Alumni Association's partnerships with experienced travel providers.

2015 TRIPS

AUG. 1 - 9
Great Parks of California

SEPT. 16 - 27
Jewels of the Aegean and Holy Lands

SEPT. 18 - 27
Sicily, Italy

OCT. 12 - 21
Spain: Valencia and Barcelona

NOV. 1 - 6
Machu Picchu, Cusco and the Sacred Valley

2016 TRIPS
FEB. 27 - MAR. 11
Radiant Rhythms: Buenos Aires to Rio de Janeiro

MAR. 27 - APR. 8
Eastern and Oriental Express

APR. 7 - 15
Waterways and Canals of Holland and Belgium

MAY 14 - 28
Essence of the Atlantic: New York to Lisbon

JUN. 1 - 9
Sorrento, Italy

JUN. 13 - 24
Regal Routes

AUG. 25 - SEPT. 5
Paris Immersion

SEPT. 17 - 25
Great Pacific Northwest

OCT. 14 - 22
European Empires of Artistry

NOV. 29 - DEC. 10
Holiday Markets along the Rhine and Mosel Rivers

1950s

Herb Keyser, MD medicine '58, announced that his grandson, Benjamin Sprung-Keyser, was named a Rhodes Scholar and will be attending Oxford University before he begins his graduate education.

1960s

Sucha Asbell, MD medicine '66, was honored by MD Anderson Cancer Center at Cooper University Hospital at its annual Pink Roses Teal Magnolias event, which benefits breast cancer clinical and research programs.

Don Bailey, BS mechanical engineering '68, joined the board of Mallinckrodt Pharmaceuticals after serving seven years as the CEO of Questcor Pharmaceuticals. He and his family now manage a philanthropic foundation called A Little Help Foundation.

A Lifetime Achievement Award for C.R. "Chuck" Pennoni

C.R. "Chuck" Pennoni (trustee, BS civil engineering '63, MS '66, HD '92), founder and chairman of Pennoni Associates, an award-winning multidiscipline engineering, science and design consulting firm, was the recipient of the Lifetime Achievement Award presented by the Delaware County Chapter of the Pennsylvania Society of Professional Engineers (PSPE). Recipients of the Lifetime Achievement award are those who have advanced the honor and standing of the engineering profession, while placing public welfare above all considerations.

"The selection committee was impressed with the passion Mr. Pennoni has in giving back, or 'paying it forward,' to the engineering profes-



sion in encouraging young people to get into the engineering field and help their communities," says Brian MacEwen, board member for the Delaware County PSPE.

Pennoni made a commitment to serving the engineering industry early in his career and has been connected to organizations, universities and other engineering professionals nationwide. He has served terms as president of the American Society of Civil Engineering and the Accreditation Board for Engineering and Technology. He has also served two terms as interim president of Drexel University, his alma mater, and has been

named university trustee and chairman of the board. In 2000, he was inducted into the National Academy of Engineering for advancing innovative principles in engineering and engineering education and management.

Richard C. Goodwin, a green city supporter and philanthropist

Born in Philadelphia in 1928, Richard C. Goodwin — probably best known by recent graduates as the named benefactor of Drexel's College of Professional Studies since 2001 — credits his father Harry, a graduate of the United States Naval Academy, for teaching him the values of self-discipline and a solid education. Goodwin worked his way through college, where he studied commerce and engineering and was one of only three students to graduate with a bachelor of science in the program in 1948.

"I never knew whether I was in the top or the bottom third of my class," says Goodwin, who graduated second in his class. He also has a 2004 honorary degree from Drexel.

"Thanks to a lack of money, I was on a very miniscule budget at D.I.T. Breakfast was

15 cents, and so were cigarettes. I opted for breakfast and never smoked — how lucky."

In 1950, Goodwin joined a newly formed family business, Goodwin Enterprises, with his father and brother. The company constructed single-family homes in New Jersey, and in the early 1960s, they expanded into land development, sewer and water companies, and neighborhood shopping centers.

Over time, Goodwin Enterprises built more than 5,000 homes and apartments and developed 15,000 lots for other builders. Goodwin became the sole owner after his father's death in 1974.

Goodwin's charitable foundation has supported more than 100 organizations, programs and institutions throughout the United States. Among many philanthropic endeavors, he established the Goodwin Foundation in 1987 in support of Jewish federation programs, higher education, human services and Jewish agencies. He is



also the founder and chairman of the Middle East Peace Dialogue Network, supporting dialogue, reconciliation and tolerance activities and programs that encourage Israeli-Palestinian interaction.

Goodwin is most proud of a recent award given to him and his daughter, Joanna Goodwin Freedman, by the charity J Street, in Washington, D.C. The lifetime achievement award was presented to Goodwin and Freedman for their 30-plus years of devotion to peace and the two-state solution.

Goodwin is passionate about carbon reduction. He resides in Snowmass Village, Colorado, which he has set out to make the greenest village in America.

"Climate change must be fought by reducing carbon," he says. "My goal is to reduce carbon emissions in Snowmass Village by 90 percent. The Snowmass ski mountain will be the greenest mountain in America — even though it's white."

Goodwin's late brother, Captain Douglass S. Goodwin, is also a Drexel alumnus with a 1943 BS in commerce and engineering. He received a Bronze Medal for his service with B29 squadrons as a United States Army Air Force ground officer in World War II.

Dennis Kerr Daikele, BS home economics '60, authored two books, "What Color Is Your Slip-cover?" and "Rodale and Messages, Flowing with Synchronicity."

George Klotz, BS business administration '69, retired as pastor from Trinity Lutheran Parish and has moved to South Carolina to start his new career as a golfer.

Suzanna M. McGrath Lang, BS business for women '68, produced a documentary film, which received the Governor's Award for historic preservation.

Stewart Weintraub, BS business administration '68, was named one of 2015 Best Lawyers in America by *U.S. News and World Report*.



1970s

Barbara Corak Preisler, BS human behavior and development '75, is entering her fourth year of retirement, yet spends most of her days tutoring and working with homeless students. She also serves on the steering committee for the Baltimore County Master Gardeners.

Sheila M. Cronin, MCAT creative arts '74, published the book, "The Gift Counselor."

Lynn C. Dunning Kaleita, MS home economics '79, was named Adjunct Professor of the Year for health education in 2014 at Palm Beach State College.

Daniel Romanchuk, BS mechanical engineering '70, was named president and CEO of The Hiller Companies.

Harry S. Rosenthal, MS environmental engineering '72, authored the book, "Parliamentary Law and Practice for Nonprofit Organizations, Third Edition."

Roseann Termini, BS human behavior and development '75, spoke on Internet promotion and regulation for the Food and Law Institute

Inaugural Conference in Belgium, Brussels. She published a 12-volume e-book series and a comprehensive print resource book, "Food and Drug Law: Federal Regulation of Drugs, Biologics, Medical Devices, Foods, Dietary Supplements, Personal Care, Veterinary and Tobacco Products."

John Ververelli, BS mechanical engineering '78, and **Niki Ververelli**, BS communications '07, celebrated the 50th anniversary of their family's engineering consulting firm, Dimitri J. Ververelli Inc.

1980s

Edward Davis, BS civil engineering '80, was appointed program manager of utility services and environmental management for Gannet Fleming in Baltimore, Maryland.

Linda Mattucci Schiavone, PhD pharmacology '84, received a master of science degree in pastoral counseling from Neumann University and is a therapist at Life Counseling Services in Paoli, Pennsylvania.

Catherine Swift Sennett, BS humanities and communications '80, was honored as a 2014 Woman of Distinction by the *Philadelphia Business Journal*.

1990s

Robert E. Caulfield, BS accounting '90, was named president and CEO of Jefferson's Ferry Lifecare Retirement Community in Setauket, New York.



Gina Furia Rubel, BS corporate communications '91, president and CEO of Furia Rubel Communications Inc., spoke on a panel at the 2015 LMA Annual Conference. The session was titled "Collaboration and Coexistence Among Barristers and Baristas."



Jennifer Jardine Hubiak, BS electrical engineering '91, was installed as a national vice president for Phi Mu Fraternity, the first from the Beta Tau chapter.



Kenneth E. Korber, BS physician assistant '91, authored four children's book series in which the character will act as a spokesperson for oral health, anti-obesity and anti-bullying campaigns. The *Journal of the American Academy of Physician Assistants* awarded him first place for the October 2014 *Journal* cover art.

James Maccariella, BS architectural engineering '92, BS civil engineering '92, MS '96, received an Outstanding Paper Award from the Southern Association for Community College Research. He was also promoted to associate professor of engineering at Mercer County Community College.

Andrew O'Pella, BS business teachers education '90, BS mechanical engineering '98, joined BHH Engineers, the mechanical and plumbing division of Blackney Hayes Architects, as director of engineering.

Glenn Stambo, MD medicine '91, published an article in the 2014 *Chirurgi Peer Review Journal*, focusing on endovascular treatment of an aortoenteric fistula.

Brad Trout, MS neuropsychology '90, and his wife, Dara, have begun operating Seniors Helping Seniors, which provides in-home services to help senior citizens remain independent in their homes, servicing the Chester, Montgomery and Bucks counties in Pennsylvania.

K. Blair Wilkins Christie, BS marketing '94, MBA business administration '99, senior vice president and chief marketing officer of Cisco, was named to the Aspen Institute's 2015 Class of Henry Crown Fellows. The Henry Crown Fellowship mobilizes a new breed of leaders, all under the age of 45, to tackle the world's most intractable problems.



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

2000s

Mikhail An, BS business administration '02, was named the Deputy CEO of the Russian Exhibition Center in Moscow.

Jillian Baker, DPH community health and prevention '09, La Salle University professor, was selected as a 2015 Black History Month Gamechanger by KYW Newsradio and CBSPhilly for research in HIV/AIDS prevention.

Brandon R. Baldassari, BS business administration '04, was promoted to brand and launch planning manager at Jaguar Land Rover North America.

Jennifer Barr, MPH executive program '08, opened a second medical nutrition therapy practice in Kennett Square, Pennsylvania.

William Calhoun, BS business administration '02, was recognized in the *Triangle Business Journal's* 40 Under 40 list.

Catherine Fuhrman, MS library and information science '02, was selected to participate in the 2015–16 Lilead Fellows Program.

Paul R. Gittens, MD medicine '03, is practicing at Vitevy Health in Bala Cynwyd, Pennsylvania, as an expert in sexual dysfunction and specialist in male infertility.

Mark Gress Jr., BS sport management '06, MS teaching, learning and curriculum '12, joined Prodigy Sports, a New York-based executive search, marketing and consulting company, as director of recruiting.

Kenneth Hoyt, BS electrical engineering '01, PhD biomedical engineering '06, was promoted to associate professor for the departments of radiology and biomedical engineering at the University of Alabama at Birmingham. He was also elected Fellow of the American Institute of Ultrasound in Medicine.

Jennifer Izzo, BS communications '09, was promoted to vice president of public relations at Costa Communications Group in Winter Park, Florida.

Stephen Kasprzyk, BS chemical engineering '05, raced for the USA Men's Eight, A Finals, at the 2014 World Rowing Championship in Amsterdam, Netherlands.

Julia Krout, MLAS lab animal sciences '04, joined NYU Medical Center in New York as assistant operations manager. This new position was created to assist the Laboratory Animal Resource Program as it grows.

Valerie Moore, BS general studies '06, a fourth-year medical student at Philadelphia College of Osteopathic Medicine, is the recipient of the Mason W. Pressly Memorial Medal, the college's highest honor awarded to a student.

Amy B. Popp, MS library and information science '08, accepted a position as library media specialist at Tuscan School in the South Orange-Maplewood School District in Maplewood, New Jersey.

Thomas Raymond, MBA '05, has authored "The Eloquent Investor."

Sandra E. Saint Leger Oliver, MS science of instruction '03, was appointed the new principal of Mechanicsville Elementary School in Leonardtown, Maryland.

Stephanie Salerno, BS graphic design '07, has joined the Rizco Design team as a senior designer.

Heather L. Turner, MS science of instruction '04, celebrated the two-year anniversary of her Narberth, Pennsylvania, law firm. The Law Office of Heather L. Turner is an estate-planning practice in which she helps families and individuals with wills, trusts, powers of attorney, living wills and probate administration.

Edward T. Walker, BS applied sociology '01, published the book "Grassroots for Hire: Public Affairs Consultants in American Democracy."

Krystaueux Williams, BS mechanical engineering '01, received a PhD in materials science and engineering from Pennsylvania State University and accepted the position of materials engineer at the Naval Research Laboratory in Washington, D.C.



2010s

Lou Angelo, EdD education leadership management '14, was recognized by the Pennsylvania Association for Supervision and Curriculum Development with the Outstanding Research and Publication Award.

Varo L. Duffins, MS higher education '10, will join Swarthmore College as its new director of financial aid.

Doug Farber, BS music industry '11, and his company Orange Maker announced a new 3-D printing technology known as Helio-lithography.

Ronald Krysiwski, MS library and information science '11, accepted a position at Johnson College located in Scranton, Pennsylvania, as library director.

Clarence M. Lee Jr., MD medicine '10, MS business administration '15, was named to the *Sacramento Business Journal's* 40 Under 40 list.

Victoria Napolitano, BS Learning and Curriculum '10, MS teaching '10, was sworn in as the mayor of Moorestown, New Jersey.

BABY DRAGONS

Tapan Jain, MBA '09, and Shilpa Jain welcomed a son, Kavish Jain, on June 1, 2014.

Ronald Krysiwski, MS library and information science '11, and Allyson Easton welcomed twin girls, Sophia Rose and Amelia Grace, on March 4, 2014.

Clarence M. Lee Jr., MD medicine '10, MS business administration '15, and Chenelle Lee welcomed a son, Clarence M. Lee III, on Oct. 5, 2014.

Kevin Mertus, BS mechanical engineering '08, and **Kirsten Graupner Mertus**, BS interior design '05, welcomed a son, Ethan Scott, on June 8, 2014.

WEDDINGS

Justin Caruso, BS computer engineering '05, and **April Berger** were married on July 7, 2012.

Devon Metcalf, BS elementary education '12, and **James Vika**, BS economics '13, were married on Sept. 26, 2014.

Kaitlyn O'Connor, BS health science '10, DPT physical therapy '12, and **Anthony Bueti**, DPT physical therapy '12, were married on Oct. 25, 2014.

Kara Spiller, PhD biomedical engineering '10, and **Chris Geisler**, BS mechanical engineering '07, PhD mechanical engineering '12, were married on July 12, 2014.



"My Drexel friends and I have been celebrating a tradition for the past 10 years. During our freshman year at Drexel in 2002, a core group of us became friends in Towers Hall. In 2004, our first annual 'Friendsgiving' was held to celebrate our friendship around the Thanksgiving holiday. We've done it every year after and our Friendsgiving has grown over time. Now more of our classmates from Drexel join us, as well as spouses and babies. In 2014 there were almost 20 of us. Outside of Friendsgiving, we may not see each other as much as we used to because of location, jobs and family, so we always have a lot to catch up on and we can usually pick up right where we last left off. I think that people always work very hard to build professional relationships and the same should go for our personal friendships. As we age it may get inherently harder to stay in touch with friends from Drexel, but it's worth it to find a way to connect. Those friendships can lead to some pretty great things." — **Jason Miller**, BS business administration '07



"I married Adrian Scipione on April 25, 2014, in Punta Cana, Dominican Republic. We currently reside in Newtown Square, Pennsylvania. We were so happy to celebrate our beautiful beach wedding on a sunny, late afternoon next to the ocean, surrounded by our wonderful friends and family for a week

in paradise! Other alumni in our wedding party included Sarah Fagan, BS business administration '10 (second from the left) and Laura Mscichowski, BS business administration '11 (fifth from the right)." — **Alexandra Totokotsopoulos**, BS hotel and restaurant management '09

FRIENDS WE'LL MISS

1920s

Harold Weamer, DC machine design '24

1930s

Ruth Bahren Holden, DC secretarial '34
William Collins, DC mechanical engineering '39, BS '58
Esther Gaffney, DC secretarial '38
Vincent Giudice, MD medicine '38
Thelma Hamilton Keating, RN nursing '30
Marjorie Holstein Lindauer, DC secretarial '38
Dorothy Johnston, MD medicine '36
William Joram, BS mechanical engineering '34
Ellis Lapin, BS mechanical engineering '39
Helen Lindley Aucott, DC home economics '37, BS '43
Frances Navarra Lacovara, BS home economics '35
Mary Niblock Zimmers, DC secretarial '39
Nicholas Popov, MD medicine '39
Everett Post, BS mechanical engineering '39
Wilfred Brereton Shaw, DC secretarial '33
George Steinbronn, DC mechanical engineering '37
Paul Stewart, BS mechanical engineering '35
Pauline Thomas DeLong, BS home economics '31
Carmen Thomas, MD medicine '32
Marian Urbanus Schonder, CE nursing '39
Orphia Wirth, CE nursing '39
W. Richard Heiss Wise, BS commerce teacher '39
George Zimmermann, DC mechanical engineering '38

1940s

Charles Allen, BS chemical engineering '43
William Allman, BS electrical engineering '49
Robert Anderson, BS business administration '49
Edna Andrew Bardwell, BS home economics '46
Stanley Apple, MD medicine '43
Rafael Arsuaga, MD medicine '45

Herbert Beattie, BS business administration '43
Julia Benner Westley, BS home economics '45
Marjorie Benton Brodt, BS business administration '46
Cornelius Beukenkamp, MD medicine '47
Howard Bleakney, BS business administration '48
Virginia Boyer Wynne, BS commerce teacher '41
Eugene Brecher, MD medicine '45
Carl Bufflap, BS mechanical engineering '48
Eleanor Burghner Golden, DC library science '46
George Butts, BS mechanical engineering '49
Jane Campbell, BS home economics '49, MS '58
Mary Cargill, DC library science '47
Irene Chipman Hewitt, BS home economics '42
Walter Chroniak, MD medicine '47
Jane Colson Thomson, BS home economics '49
Marjorie Conrad-Peatte, MD medicine '46
John Copeland, BS mechanical engineering '48
Allan Cowell, BS mechanical engineering '43
Jeanne Cramblet Dwan, BS home economics '40
Kay Cullen Bennett, RN nursing '49
Leo Daiuta, BS civil engineering '44
H. Dicely, BS chemical engineering '43
Robert Donato, MD medicine '48
M. Elsner Martin, BS secretarial '47
Irving Faye, BS electrical engineering '49
Caroline Fitz John, DC library science '42
Rachel Garber Lovett, BS home economics '47
Rose Marie Gehringer Wolf, RN nursing '47
Gerard Geiger, BS business administration '48
Alvina Gillingham Nagle, BS secretarial '43
Dorothy Gingerich Folckemer, RN nursing '47
William Grobman, DC mechanical engineering '44
Pyrrha Grodman, MD medicine '48
S. Mary Gruber, CE nursing '45
Ann Halas Ezekiel, BS secretarial '43
G. Brown Hall, DC library science '45
Helen Haritonuk Whitaker, BS business teacher education '47
R. Hart, DC library science '49
Kathryn Hess Feldi, MD medicine '47
Frederick Hoffman, BS electrical engineering '41
Dean Hoover, MD medicine '48
Mary Howse Miller, BS home economics '45
Evelyn Huber Jung, DC secretarial '43
Mary Jackson McCurdy, BS home economics '45
Robert James, DC chemical engineering '49
William Keighley, DC chemical engineering '49, BS '53
Regina Kelly Parks, BS retail management '45
Junius Koiner, BS chemical engineering '47
Sophie Kowalczyk Slavish, BS home economics '46
Rosemary Kuzner, RN nursing '49
Robert Lamborn, BS business administration '47
Paul Leibovitz, BS electrical engineering '47
Helen Luttrell, RN nursing '45
Marion MacWilliams, BS commerce teacher '43
Bette Mathias Walton, RN nursing '46
Jean McKnight Krueger, BS home economics '49
Margaret Mcvicker Flick, DC secretarial '43
Gordon Myers, MD medicine '47
Frank Nagle, MD medicine '45
Hyman Natkin, BS electrical engineering '49
Michael Neam, BS electrical engineering '48
Margaret O'Meara, DC Junior secretarial '47
Clara Opie Pickel, RN nursing '47
Robert Pearson, BS civil engineering '43, MS '52
Norman Perlmutter, BS electrical engineering '47
Thomas Pryor, BS business administration '48

Kristen O'Neill, MS human resources development '12, was elected the president of the board of directors of the River City Roller girls in Richmond, Virginia.

Matthew Perkins, BS architectural engineering '10, MS civil engineering '10, earned his New York State license as professional engineer and was promoted to senior mechanical engineer at Pathfinder Engineers & Architects.

Peter Schmidt, BS architectural engineering '12, raced for the USA Men's Lightweight Quad, B Finals, at the 2014 World Rowing Championship in Amsterdam, Netherlands.

William Stephenson, BS physics '10, received his PhD from SUNY Polytechnic Institute and joined the New York Genome Center in New York City as a research engineer in the technology innovation division.

Michael Smedes, BS music industry '10, cycled 5,215 miles across the country on the TransAmerica Trail.

Remembering Professor Hun H. Sun, 1925 – 2015

"Dr. Sun was a transformative pioneer in so many dimensions. He deeply believed in the power of engineering in medicine and the good that would come from merging the two disciplines and cultures to enable solutions that save lives. He founded the Biomedical Engineering and Science Institute in 1961, a first in the nation, and attracted the Calhoun Endowment to our University in support of this vision. Our School of Biomedical Engineering, Science and Health Systems was born in 1998 as a reincarnation of his life's mission and is a living proof of his foresight.

He was fully committed to Drexel's mission as a driver of innovation. He dedicated his laboratory to translation of academic research into medical devices. Our Coulter Translational Partnership Endowment has been inspired by and stands as a testament to his enduring legacy.

To celebrate his life, we will continue to emulate him in the classroom, in the laboratory, in translating our research into health solutions. He will guide and inform all our relationships with our students whom we teach and mentor, our peers, colleagues, clinicians, entrepreneurs, investors and all others with whom we toil on life-saving solutions. As individuals shaped by his life's work, we will uphold his legacy."

— Banu Onaral, H.H. Sun professor, School of Biomedical Engineering, Science and Health Systems, and senior advisor to the president, global innovation partnerships.



Geraldine Roof James, MLS library science '47
Charles Reese, BS business administration '47
Helen Rzeznik Gofrank, CE nursing '41
Nathaniel Satin, attended electrical engineering '43
Joseph Seiberlich, BS electrical engineering '48
Richard Shuffstall, MD medicine '48
Anita Siegel Plotkin, BS retail management '42
Richard Stevens, MD medicine '48
Harold Stiffler, BS business administration '42
Edith Thomas Edmunds, BS home economics '41
James Tyson, DC mechanical engineering '43
Rita Valecce, AS medical lab technician '41
Charles Walker, MD medicine '45
Izora Whiskman Bowermaster, DC library science '46
Genevieve Wielunska Connolly, MD medicine '47
George Wilson, MD medicine '43
Alfred Wolf, BS electrical engineering '48
Robert Wright, MD medicine '49
Dorothy Ziemer Norton, BS home economics '49

1950s

Carl Albrecht, BS mechanical engineering '54, MS aerospace engineering '57
Edward Andersen, DC electrical engineering '52
Robert Altland, MD medicine '58
Gaynelle Bailey Lyons, RN nursing '54
David Ballentine, BS '59 electrical engineering, MS '63
Henry Beerman, MS engineering '58
Eleanor Berden, MD medicine '53
Watson Bitterlich, DC electrical engineering '55, BS '58
Catherine Black Miller, BS home economics '56
Henry Boreen, MS electrical engineering '58, HD '02
John Born, BS electrical engineering '52
Richmond Bowen, DC mechanical engineering '59
Frank Burstein, MD medicine '53
Edythe Buseck Holmes, BS retail management '52
Jane Campbell, MS home economics '58
Mary Cantrell, MD medicine '54
Howard Cassaday, DC chemical engineering '52, BS '54
John Cecil, BS mechanical engineering '53
Joseph Clarkson, BS electrical engineering '54
Gordon Cochrane, BS chemical engineering '52
Richard Cole, BS civil engineering '59
William Collins, BS mechanical engineering '58
Susanne Conrow Bingham, BS home economics '51
Patricia Creed Guzzardo, BS secretarial '54
Josephine Currie, DC retail management '53
Theodore Deconna, MD medicine '56
Arnold DeMarco, MD medicine '58
Alexander Diegido, DC electrical engineering '52, BS '55
Henry Dobies, MD medicine '53
Robert Downs, BS civil engineering '52
William Dresher, BS chemical engineering '53
Norman Eckbold, MD medicine '54
Herbert Faust, MD medicine '52
Charles Fees, BS mechanical engineering '52
Elaine Fields Needell, MD medicine '50
Eugene Fleming, BS civil engineering '51
Christopher Floros, BS commerce and engineering '56
James Fugate, MD medicine '56
John Gallagher, MD medicine '51
William Gallagher, BS mechanical engineering '57, MS '61
Vincent Giafaglione, BS business administration '55
Robert Gortner, BS commerce and engineering '52, MBA business administration '62
Earl Graham, BS civil engineering '56
Louis Greif, BS electrical engineering '57
Mary Gruber Riley, DC library science '53
Robert Haldeman, BS electrical engineering '52
Joseph Hamburg, MD medicine '51

Suzanne Harrington Graham, RN nursing '58
Josephine Havrilchick Kotch, BS home economics '52
Marvin Herman, BS metallurgical engineering '51
Richard Hodges, BS business administration '51
Edwin Hussa, DC mechanical engineering '52, BS '55
Anthony Inverso, BS business administration '50
Ernest Jacobs, BS electrical engineering '50, MS '55
William Jones, MS chemistry '54
Arthur Kennel, MD medicine '57
Betty King Unger, BS home economics '56
Alvin Kirby, BS mechanical engineering '56
E. Kishbaugh, BS business administration '50
Robert Klein, BS commerce and engineering '51
Edward Kneedler, BS business administration '51
Constantine Lacas, BS business administration '50
M. Locher Park, BS business teacher education '50
Charles Long, DC mechanical engineering '55, BS '58
Emanuel Marks, BS civil engineering '51, MS '55
Vincent Mazzei, DC mechanical engineering '54, BS '56
Robert McKinney, BS civil engineering '51
Claresa Meyer Armstrong, MD medicine '51
Kenneth Miller, DC electrical engineering '52
A. Morgan, MD medicine '55
Edgar Myers, BS business administration '51
Mary Myers, MD medicine '52
Mervin Needell, MD medicine '50
John Nicholson, BS business administration '50
Joseph Orlando, BS business teacher education '51
Harold Page, BS business administration '54
George Pritts, Jr., BS business administration '53
Phyllis Proudfoot Ford, RN nursing '51
Vytautas A. Ramunas, BS mechanical engineering '57
Carl Edwin Reichert, Jr., MD medicine '58
George Robinson, DC electrical engineering '52, BS '54
Melvin Robinson, MD medicine '53
Alice Rowett Pell, RN nursing '57
John Rowan, Jr., BS business administration '57
Francis Sajeski, DC electrical engineering '59, BS '61
John Sbarbaro, MD medicine '55
George Schroth, BS business administration '56
Carol Shoemaker, BS business administration '51
Clyde Smith, BS business administration '51
George Speck, BS electrical engineering '55
Albert Spencer, BS electrical engineering '51
John Stephan, MBA business administration '55
Donald Stewart, BS commerce and engineering '53
Frederick Stier, BS business administration '55
Jean Thomas Lyford, BS business administration '51
Christopher Tully, BS business administration '51
George Ulrich, BS business administration '57, MBA '66
Francis E. Sajeski, DC electrical engineering '59, BS '61
Mary Wagoner Schreiber, BS dietetics '50
Charles A. Seemiller, BS business administration '56
Gilbert Showalter, DC civil engineering '54, BS '55
Geraldine Steet Waskow, RN nursing '56
Evelyn Walker Armstrong, MLS library science '56
James Waltz, DC mechanical engineering '54, BS '55
Joseph Weber, BS chemical engineering '55
Richard Weger, BS mechanical engineering '59
Joseph Welker, DC electrical engineering '59, BS '61
Barbara Welsh White, BS home economics '52
Charles Williams, MD medicine '50
Furma Winer Ginsburgh, MD medicine '51
Gwynedd Wood Wadem, MBA business administration '52
George Wormeck, AS mechanical engineering '50
Gene Zanier, DC civil engineering '52, BS '55
Stella Zatwaska, DC home economics '52

1960s

Guy Alosa, BS business administration '60
Joel Bacher, MS mechanical engineering '68

George Bazinet, PhD unknown '67
Joseph Beatrice, BS mechanical engineering '63
Edmund Benedikt, BS civil engineering '69
Norman Benson, BS electrical engineering '63
Charles Birkhahn, BS electrical engineering '64
Evelyn Bowen Shook, BS home economics '60
Nancy Bowles, MLS library science '65
John Cannon, BS electrical engineering '68
Joseph Carapico, BS mechanical engineering '62
George Chandler, BS electrical engineering '67
Robert Clark, BS metallurgical engineering '60
Charles Clayton, BS mechanical engineering '63
William Craig, MBA business administration '67
David Crawford, BS mechanical engineering '60
John Cummings, MD medicine '63
Richard Duff, BS chemistry '68
Duane Ebaugh, MD medicine '65
Dorothy Eisenman, RN nursing '65
Charles Fitts, BS electrical engineering '61, MS '67
Tracy Fletcher, DC electrical engineering '63
Lloyd Franks, BS electrical engineering '63
Norman Friedman, BS chemistry '66
Lois Frumkin Lunin, MLS library science '66
Edward Gallmeyer, DC electrical engineering '60
Arthur Garzon, BS electrical engineering '61
Roger Gibboni, BS electrical engineering '64
Marlene Glogow Goldman, MLS library science '66
Judy Gottfried Spitzer, PhD microbiology and immunology '63
Lawrence Gunshol, MS mechanical engineering '65
Bernadette Herbst Loeb, MD medicine '67
Richard Hodel, BS electrical engineering '63
Louise Jacobson, MD medicine '66
Mary Jones Maier, BS business administration '67, MS library and information science '92
Richard Jones, MD medicine '60
Sondra Jones Cossaboon, RN nursing '61
Walter Julia, MD medicine '63
Richard Kamenar, BS civil engineering '67
Joel Klein, MD medicine '68
Adele Kuc Miksis, BS business for women '69
Philip Lion, BS electrical engineering '60
George Lubeck, BS business administration '62
Benjamin Lubeck, BS mechanical engineering '65
Albert Lusen, BS business administration '64, MBA '69
Ronald MacClay, BS business administration '65, MBA '67
Robert Mahorter, MS materials engineering '66
William Mallalieu, BS business administration '62
Ralph Marrone, MD medicine '61
Walter Masterton, BS physics and atmospheric science '63
Mary Matthews, BS home economics '60
Paul Matthews, BS chemical engineering '62, MS engineering management '69
Martha McDonald, MD medicine '63
Richard McManus, BS business administration '65
Ralph Mersowsky, BS commerce teacher '65
Judith Miller Feller, DC library science '63
Mark Nardone, MD medicine '67
James Nix, MS physics and atmospheric science '65
Charbil Norrett Smith, RN nursing '60
Edward Nusbickel, BS electrical engineering '62
Edward Olewnik, BS electrical engineering '66
Fred Palmer, BS electrical engineering '63, MS '68
Francis Perry, BS mechanical engineering '68
Richard Pyle, BS metallurgical engineering '65
James Reeves, MBA business administration '66
Dorothy Rohan Berry, MS home economics '64
John Rohana, MBA business administration '64
Glenn Rose, BS electrical engineering '69
Anthony Ronzano, BS business administration '69

Linda Schief, RN nursing '68
Joseph Schnell, BS mechanical engineering '68
F. Shay, BS industry administration '63
Charles Spencer, MBA business administration '61
Eleanore Springer Serinsky, MLS library science '66
Clyde Stahle, MS engineering management '66
Irving D. Strouse, MD medicine '67
Edmund Sweeney, MS electrical engineering '68
Thomas Teruya, MD medicine '62
Ellen Thompson Hanna, RN nursing '63
Raymond Twisdom, BS metallurgical engineering '62
Joseph Ugro, BS chemistry '62
Richard Voss, BS business administration '65
Joseph Waldron, BS mechanical engineering '61
B. Webb, BS civil engineering '69
Edmund Weis, MS biomedical engineering and science '62
Ronald Wintriss, DC mechanical engineering '61
Thomas Zuck, MD medicine '63

1970s

Gerald Adams, BS electrical engineering '74
Robert Badessa, BS business administration '71
Christopher Balzano, BS mechanical engineering '70
Santo Barbagiovanni, BS mechanical engineering '70
Richard Bogen, BS mathematics '70
Elizabeth Burke Clifford, BS accounting '79
John Burns, BS electrical engineering '78
Harold Byer, BS civil engineering '75
Thomas Carey, MBA business administration '72
Martin Chivis, BS operations management '76
Michael Didonato, BS business administration '71
Steven English, BS business administration '71
Richard Eppinger, BS business administration '73
David Fedor, MBA business administration '78
Philip Ferry, MD medicine '78
Ronald Fillette, BS marketing '75, MBA business administration '79
Darryl Foyuth, BS electrical engineering '71
Dennis Grady, BS accounting '75
Arthur Huey, BS metallurgical engineering '74
Carol Inman, BS computer information systems '76
Louisa Jones Lance, MD medicine '73
Ann Jordan Laeuchli, MLS library science '73
Richard Katz, MD medicine '74
Mary Kelly, MLS library science '75
Marian Kimmel, MS home economics '74
Thomas Knowles, BS business administration '74
Edward Kohler, MS engineering management '76
Michele Krahn, BS business for women '72
Benjamin Kuntz, BS general studies '72
George Madar, BS mechanical engineering '72
Joseph Mahoney, BS business administration '74
Walter Marshall, BS business administration '71
John McKillip, BS commerce and engineering '71
Edward Moran, BS business administration '74
Donald Murphy, DC mechanical engineering '66, BS '71
Charles Niessner, BS civil engineering '66, MS engineering management '75
Lorraine Picker, MLS library science '72
Jose Pina, MS physics and atmospheric science '72, PhD '77
Robert Purdy, BS architecture '78
Kenneth Roberts, BS electrical engineering '73
Peter Schaul, BS chemical engineering '72, MS '75
Charles Seeburger, MLS library science '72
James Sleeper, MBA business administration '79
Glen Smith, BS biological science '71, MS environmental science '73
Richard Soper, BS mathematics '71
Harriet Stearns, MLS library science '70
Robert Taggart, BS electrical engineering '76
Leonard Tapper, BS electrical engineering '77

Eugene Thompson, BS mathematics '71
Robert Walder, BS mechanical and industrial engineering '76
Harry Wyland, MLS library science '72
Joann Yaskin Nevyas, MD medicine '72

1980s

Dudley Backup, MD medicine '80
Charlene Bembenek, BS electrical engineering '85, MS '90
Donald Boesel, MS taxation '84
Arthur Borin, BS accounting '86
Steven Brin, MD medicine '80
Linda Gardner Remington, BS business administration '86
Charles Carter, MS environmental science '78, PhD '82
Richard Claypool, MLS library science '83
Carol Cox Storm, RN nursing '80
Kevin DeRocili, BS construction management '88, MS finance '92
Edward Dilenno, BS commerce and engineering '82
Robert Haynes, MS engineering management '81
Kathleen Hudson Madden, BS accounting '89
Colleen Hutchinson Caton, AS nursing '87
David Ingersoll, BS accounting '83
Gerald Koff, PhD unknown '83
Robert Lansinger, MLS library science '83
Vernon Nicholson, BS commerce and engineering '87
Edward Podgorski, MS biological science '80
Frederick Reed, BS commerce and engineering '84
Alexander Reitarowski, BS computer information systems '89
Peter Robson, MD medicine '87

Jacqueline Ryan O'Donnell, BS marketing '88
Ann Salitsky, MS microbiology and immunology '84
Joan Schotte, BS dietetics '89
Gregory St. John, BS interior design '89
Karen Taylor, AS nursing '89
Christopher Vaughan, BS finance '85
Thomas Yeager, MBA business administration '81

1990s

Jerome Dorsey, BS physician assistant '91
Sophia Facey, AS nursing '91
Raymond Florence, AS nursing '98, BS nursing '15
Kelly Kramer, MBA business administration '96
Nancy McCloskey, MS interior design '90
Laura Menditto, MPH public health '99
Michael Mira, BS accounting '90, MBA business administration '97
Gregory Parker, MBA business administration '98

2000s

Samiya Abdullah-Davis, BS teacher education '08
Felicia Brown, MHS physician assistant '07
Dante Bucci, BS information systems '03
Rosa Jones, MHS physician assistant '07
Marc Kuchler, BS architectural engineering '06
John Meade, MBA business administration '01
Clare Notredame, MS nursing '00
Uttam Patel, BS information systems '05

2010s

Diane Anderson, BS behavioral health counseling '11
Anna Bowman, MS library and information science '11
Andrew Messina, MS information systems '11

Did you know?

There are ways to **support Drexel University** that won't affect your current lifestyle or your family's security.

A bequest gift will allow you to support Drexel University and may help qualify your estate for a tax deduction.

To learn more, contact **David Toll, JD**, senior associate vice president, Office of Gift Planning, at **215.895.1882**, dtoll@drexel.edu or visit drexel.edu/giftplanning

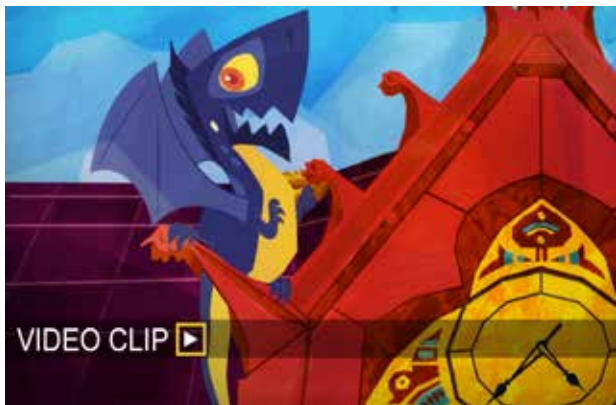


Connecting Alumni for 50 Years: #DUAA50

This year marks the Alumni Association's 50th anniversary and there is much to celebrate! Fifty years of keeping alumni in touch with one another. Fifty years of engaging graduates in the life of the University. Fifty years of celebrating Drexel pride!

In honor of this golden anniversary, the Alumni Association is celebrating all year long with signature events, special giveaways and social media campaigns for its community of more than 150,000 alumni.

Drexel's history is an important part of the Drexel of today. Throughout the year, the Alumni Association is highlighting five decades of University history on social media, from the 1960s all the way to the 2010s.



Wondering what the Alumni Association is all about? You're not alone. The Alumni Association is proud to serve more than 150,000 Drexel graduates around the world. A new animated video on the Alumni Association's YouTube channel (<http://bit.ly/1BdIZpC>) highlights some of the many ways the association is here to support and celebrate its awesome alumni! Proudly share it with your fellow Dragons and send your feedback to alumni@drexel.edu.

"Cool video! Honestly, I haven't done the greatest job at staying in touch and knowing what resources are available to me as an alum. I've been so busy, and so far away some years. This made me want to learn more."

— Immanuel N. Comer, BS '04

"I cannot tell you how perfect last evening was for us in every regard. The reception, the food and drink, Dr. Lucy's engaging and informative talk, and the gallery visit itself all made for an extraordinary evening, indeed."

— Mike Scheuermann, PhD '05, a participant in "An Evening at the Barnes Foundation."

The Alumni Association hosts more than 300 events a year, bringing together graduates from all over the world. This year, in honor of its 50th anniversary, the association will host a number of extra special, new events to honor 50 years of connecting alumni everywhere.

Save the date for a summer food tour in cities around the country, a worldwide CAN DU service project in September and an end-of-the-year gala in December, honoring the past and celebrating the future of the Alumni Association!



Also new this year, the Alumni Association is on Instagram and has an official app. Download the app in iTunes or Google Play and stay connected in a whole new way. Find the association on Instagram at @drexelalumni and use it to show your Drexel pride all summer long during our summer Instagram contest. Snap a photo when you see something that reminds you of Drexel, or makes you feel pride in your alma mater and post it with the hashtag #DUAA50 #ShareaDragon. Welcome a Baby Dragon into your family? #ShareaDragon! Attend a wedding with classmates from your Drexel days? #ShareaDragon! Bump into someone sporting their blue and gold best? #ShareaDragon! Winners will be selected every month.



"This is a great campaign you are running. It has really gotten my Drexel buddies chatting about the school again!"

— Crystal Hudak, BS '00

Every week in 2015, the association is giving away something special to a lucky Drexel graduate. Follow along on Facebook (facebook.com/Drexel.Alumni), Twitter (twitter.com/drexelalumni) or Instagram (instagram.com/drexelalumni/) to see the item of the week. Everyone who likes, comments, shares or retweets the item will be entered into a drawing. Use the hashtag: #50Days50Giveaways to play along!

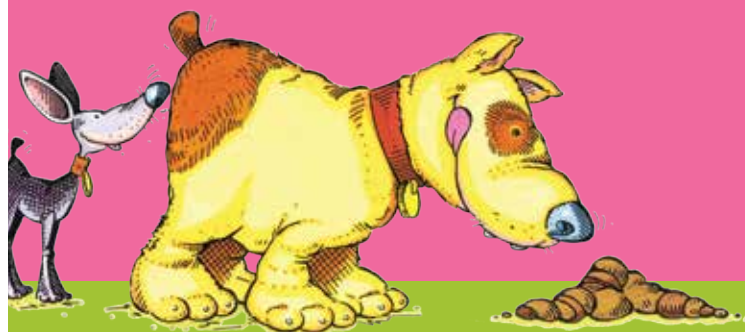
NEW EXHIBIT



Save \$2
at ansp.org
with code
DREXEL

ANIMAL GROSSOLOGY

SQUISHY, SLIMY, STINKY FUN!



MAY 16–AUGUST 30

Visit *Animal Grossology*, the slimiest, stinkiest, and downright yuckiest exhibit in Philadelphia this year! This **hands-on 3-D exhibit** oozes with **disgusting science** and provides a slightly off-kilter view of the animal kingdom. From **poop to pellets** and scales to hairballs, check out all the things you aren't allowed to discuss at the dinner table!

FUN FOR THE WHOLE FAMILY

THE ACADEMY
OF NATURAL SCIENCES
of DREXEL UNIVERSITY

ansp.org

What's Your Share in the Drexel Experience?

The Drexel University Alumni Association's "shared interest program" is connecting alumni from across class years and disciplines in new and unexpected ways. BY ADAM STONE



Chantee Steele, BS '13, spread her wings and soared at Drexel. She excelled academically and was active in a number of student organizations including her role as vice president of the campus chapter of the National Association of Black Accountants. She scored stellar co-op positions in national investment firms and landed a plum position as a Deloitte consultant after graduation.

As a newly minted alumna, Steele set out to stay connected to that experience, by reaching out to fellow graduates. With the support of the Drexel University Alumni Association, Steele and fellow alumni established a shared interest alumni group called the Drexel University Black Alumni Council (DUBAC). In the short time since its formation, DUBAC has already attracted some 65 active alumni members and built up a database of about 300 interested graduates.

DUBAC is just one of several special-interest alumni groups that bring together former students who may have common interests or experiences. These groups offer a way for niche groups among some 150,000 Drexel graduates around the world to reconnect with others who may have shared their experiences while at school.

"At Drexel, people don't only have an affinity to their class year," says Dave Lanza (MS '12), associate director of alumni relations in the Office of Institutional Advancement. "With people going out on co-op, the person who was your freshman roommate is someone you may never see again at Drexel. But you may see the folks who are in your college or school, or people who were in a shared interest group like a fraternity or a sorority, an athletic group or a club."



If you would like more information, or are interested in starting your own special interest group with fellow alumni, contact the Office of Alumni Relations at 1.888.DU.GRADS or alumni@drexel.edu.

This is a different social structure from most colleges, where alumni can easily sort themselves by class year and find ready recognition among their peers. At Drexel, the co-op system complicates peer groupings, so niche alliances make connections easier.

"No matter what your identification or affinity is, people want to be a part of a community," Lanza says. "It's great to be a part of something."

To be part of the formal alumni network, a shared interest group must have a formal organization: It must have by-laws, a governance structure, planned programming and the like, and must be approved by the alumni office as an official entity.

The groups provide more than just networking opportunities, although these are typically a big part of the agenda. DUBAC, for instance, holds ongoing social events and even organizes a quarterly community service event, helping to serve meals for the charitable enterprise Grace Café.

For Steele, having a special interest alumni group has allowed her to expand upon her Drexel days.

"Having this means that now I am better able to make connections with people with the same background as me, by bringing everyone together from different years, different classes, different schools," she says. "When I graduated I only knew the African Americans who were in the business school like me. Now this gives me to chance to connect with a much broader group of people who share my same background." **[D]**

While still in its early days, the Drexel shared interest program already has attracted a wide range of alumni. A few examples include:

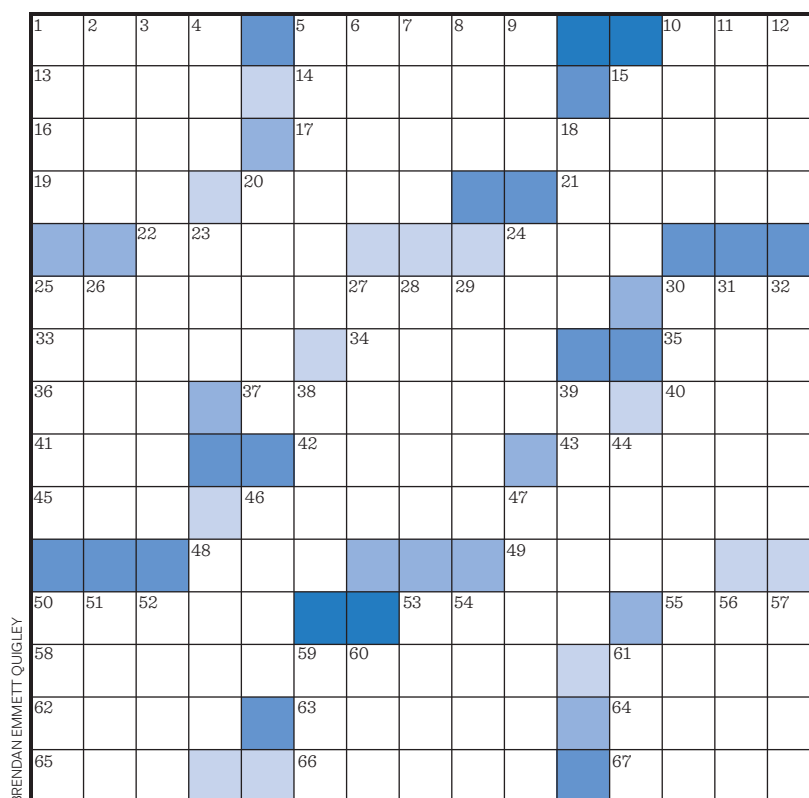
- **Drexel Hellenic Alumni Network** for alumni of Hellenic descent or who are interested in Hellenic culture.
- **Drexel Inter-Fraternity Alumni Association** for interested Greek alumni members who support the Greek community at Drexel University.
- **Drexel Muslim Alumni Network** promotes the spiritual/religious, social and professional growth of graduates of the Drexel Muslim Students Association (DMSA).
- **Drexel Rowing Alumni Group (DRAG)** connects alumni with the current men's and women's teams. DRAG also provides a way to recognize the contributions and volunteerism of alumni, parents and friends who have a vested interest in the future success of the program.
- **Drexel University Newman Alumni Council (DUNAC)** enhances the relationships among the Catholic alumni.
- Groups presently forming include a **Blue and Gold Club**, an **LGBTQA** group and others.

THE BACK PAGE PUZZLE

With this puzzle, we give a shout out to the trailblazing women who came to Drexel in the mid century to earn engineering degrees and rallied women students at other universities to form the nation's first professional organization for women engineers.

ACROSS

- 1 With 5-Across, Drexel's first female electrical engineering graduate
- 5 See 1-Across
- 10 Educational advocacy org. whose motto is "Aspire. Advance. Achieve."
- 13 Former GM brand
- 14 "Oh, my!"
- 15 Coin in circulation since 2002
- 16 It's set in Egypt
- 17 Drexel's first female civil engineering graduate
- 19 Buck passer, maybe
- 20 Slow Churned ice cream maker
- 21 Thin streaks of smoke
- 22 Farm outbuilding
- 24 Meditative discipline
- 25 Drexel's first female chemical engineering graduate
- 30 Lawyer's charge
- 33 Israeli desert
- 34 Joel or Ethan of film
- 35 Harsh
- 36 It fades in the fall
- 37 Drexel graduate Greiner who was one of the first ladies of the Philadelphia district of 10-Across
- 40 Head shake's opposite
- 41 Suffix with ox- or sulf-
- 42 Without hair
- 43 Open wide
- 45 Estonia, e.g., once
- 46 Drexel graduate who proposed the idea of 10-Across
- 48 Ma'am counterpart
- 49 Riding
- 50 Mystery award
- 53 Daddy
- 55 Embroidered word, at times
- 58 Engineering department building
- 61 Issued a command to
- 62 Depression era migrant
- 63 "... miss is as good as ___"
- 64 Frenemy, maybe
- 65 Purse seine, e.g.
- 66 Drexel graduate McNulty who was one of the first ladies of the Philadelphia district of 10-Across
- 67 Hearing-impaired



DOWN

- 1 Steinbeck surname
- 2 Variety show fare
- 3 Clio candidate
- 4 Cryptology group of D.C.
- 5 Learn about via print
- 6 Like a hag
- 7 Shouts from Emeril
- 8 Lupino of "Moontide"
- 9 Abbr. on a bounced check
- 10 Tallies
- 11 Shawl or cloak
- 12 A long, long, long time
- 15 Nickname for Ireland
- 18 Is outstanding in business?
- 20 Sorbonne student
- 23 Bucket or pack filler
- 24 Stoic philosopher
- 25 Naysayers
- 26 Detective's follow-up list
- 27 Shark's body?
- 28 Author Dahl
- 29 Highly flexible
- 30 Developmental windup
- 31 Marry on the cheap, maybe
- 32 Church chief
- 38 Letter-shaped iron brace
- 39 Eastern yogurt condiment
- 44 Day ___ (paint hue)
- 46 Voice-activated assistant
- 47 Sugar producers
- 48 Totally please
- 50 B school subject
- 51 Home of the Blue Devils
- 52 "True ___" (John Wayne film)
- 53 It beats nothing in poker
- 54 "That's ___ ask"
- 56 Something to think up
- 57 Peasant
- 59 Tearjerking
- 60 Kaiser Permanente, e.g.
- 61 Blossom-to-be

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 winter/spring edition contest: Patti Donahue '14, of Springfield, Virginia.

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