

The Chefs
of Drexel

Marriage Equality:
Is Pennsylvania Next?

Jeff Parke
Goes Union

[DREXEL]

FALL 2013 // MAGAZINE // VOLUME 23 NO.3



A Drexel researcher has won a timely grant for a unique study of medical marijuana's impact on public health

HIGH TIMES FOR RESEARCH



8

The number of customizable scents that can be programmed into an “emotional scent messaging machine” designed by Laura Nejman, a graduate student in the Interior Design and Architecture program in the Westphal College of Media Arts & Design. Each scent unleashes a fragrance designed to trigger an emotional response; for instance, the green “key” on the touch form pictured above may release a mixture of lavender and birch designed to send a message of relaxation and kindness. Full story on page 44.

THE LEDGER

[A NUMERICAL ANALYSIS OF LIFE AT DREXEL]

\$1.3M	Aggregate value of scholarships obtained by Drexel student Christopher Gray, who developed Scholly, a smartphone app that helps students uncover scholarships and grants.
37	Number of rolls of toilet paper that Ted Daeschler, an associate curator at the Academy of Natural Sciences, packed for an eight-person team on a three-week fossil-hunting trip to a remote research station in the Canadian Arctic.
1,300	Number of new beds that will be added to campus accommodations when the new residential development at Lancaster Avenue and 34th Street is finished in fall 2015.
3.0	Drexel University's college fiscal responsibility score for the 2011 fiscal year as determined by the U.S. Department of Education. Drexel was among the schools earning a top score in the survey of private colleges and universities based on factors such as net worth, operating losses and the relationship of assets to liabilities.
\$1M	Amount of money now controlled by the Drexel Fund, an investment portfolio managed by a rotating team of 20 Drexel advanced finance students.
4,500	Approximate age of the Great Pyramids of Egypt. The Drexel-based creators of Greenstone — a new, environmentally friendly cement — used them as inspiration for their building material, which is made using byproducts from several other industries.
1990	Graduation year of Drexel alum Marc Vetri, owner and head chef of Vetri and other celebrated Italian restaurants. Vetri recently helped give Drexel culinary arts program students an up-close view of the art of specialty pasta making.
60	Number of hours it took a team of dLAB students to create a musical staircase in Drexel's Main Building using a Raspberry Pi computer, circuitry, sensors, wiring and an amplifier.
50	Typical number of courses a Drexel student can fit into his or her college career, thanks to the quarter-based academic calendar, which Drexel recently decided to keep. In a semester system, the typical number would be around 32.

[DREXEL MAGAZINE]

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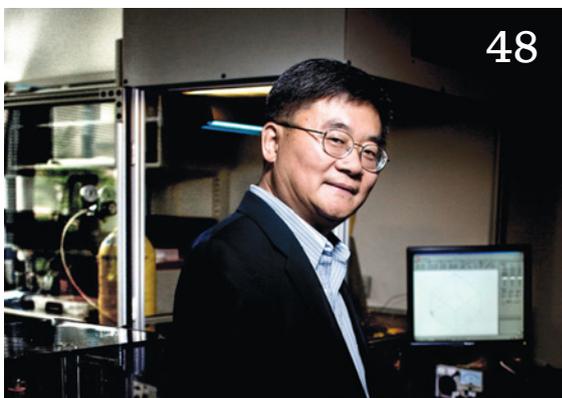
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Six graduate students were tasked with designing solutions to problems that don't exist — yet. What they came up with is a sneak peek at our weird, wired future. BY SCOTT PRUDEN

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From life-saving technologies to the study of life balance, donor endowments fuel scholarly accomplishments across the University. BY MIA GEIGER



THE VIEW FROM MAIN

As I read about the alumni chefs leading the next wave of Philadelphia's food scene (page 28), I found myself thinking about their accomplishments in a broader sense. Of course they're following their dreams, pushing their own boundaries and those of their craft, even setting themselves up as entrepreneurs. But just as exciting to me is the fact that they're helping drive economic development in the city.

Philadelphia Mayor Michael Nutter estimates that 56,000 Philadelphians are employed in hospitality, and \$26 million of daily economic impact is generated by visitors who come for our conventions, our museums, our sports events and, yes, our cutting-edge restaurants.

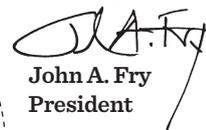


Drexel's commitment to help grow our region's economy begins with harnessing the innovation taking place on campus to anchor new businesses and, in fact, a whole Innovation Neighborhood at 30th Street Station. At the same time, we need to make sure our academic enterprise is aligned with industries such as hospitality and entertainment that power the region.

That's part of the impetus for several changes we've recently announced, including creating a new independent Hospitality and Sport Management division that will include our culinary programs (page 34) and launching our new College of Computing & Informatics (page 18). Each addresses a critical field for economic development, and each creates a new locus for state-of-the-art experiential education.

Drexel's reputation has long been driven by our ability to prepare leaders who, like our up-and-coming chefs, are ready to meet the challenges of tomorrow's economy. That doesn't happen by accident, and I'm proud that we are continually reassessing how we teach and discover.

Sincerely,


John A. Fry
 President

DRAGON CAKE BY CANDACE TARANTO, BS CULINARY ARTS '15. PHOTO BY TOMMY LEONARDI.

EDITOR'S NOTEBOOK

It's hard to pinpoint exactly when I decided this magazine was going to be more fun than I imagined — and also, just *more* of everything.

It's not just that the magazine turned out, ah, a bit bulkier than I'd planned (bonus pages, everybody!).

It's not just that this summer has been busy at Drexel. The University launched two new schools, created a new center for Hospitality and Sport Management and reconfigured and renamed its iSchool. It also opened a slew of newly renovated buildings and fresh retail options and celebrated the grand opening of the new home of LeBow College of Business.

That was just the past three months.

So while I've been chucking my assumptions about sleepy academia this summer, I've been marveling at Drexel's velocity. Drexel seems to be a university that tasted blood, during the tough, make-or-break years of the '90s, and now it's back on its feet and punching, with high expectations for itself and its students.

That was apparent recently when Drexel contemplated switching its academic calendar from quarters to semesters. There were plenty of reasons to switch — a big one is that 90 percent of schools are on semesters already, which affects everything from how textbooks are structured to when job fairs are scheduled — but students lobbied hard to keep the stamina-stretching quarter system.

Drexel's pace is a badge of strength, they said. There's something to that. My undergraduate school used a quarter system, and it sometimes felt like class registration had hardly finished before we were studying for final exams. But I sampled courses outside my concentration and finished two degrees — a mix probably not possible on a semester schedule. Later on, when I attended a university on the semester system, the schedule seemed leisurely by contrast.

What about you? Did the quarter calendar make you a Conan, or did it feel like Festus ordeal? (We love letters, and you can send them to magazine@drexel.edu or the address at right.)

But enough of that. This is my first alumni magazine and as they say on "Saturday Night Live," we've got a great show tonight. We've got marijuana on the cover, for one thing. That's our very own Drexel dank (back in its day, anyway) from the botany collection at the Academy of Natural Sciences. This particular specimen was collected in 1872, and was donated to the Academy in the 1970s by the Westtown Boarding School in Pennington, N.J. We'll also celebrate some successful chefs who learned how to sous-vide their viands here in our culinary arts program. We've got highlights of stunning new buildings; clothing that can recharge your cell phone; and some fascinating, far-out ideas for living in a wired future.

Stick around.

Sonja Sherwood / Editor



JEFF FUSCO

[DREXEL MAGAZINE]

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LETTERS

Kudos to Two Coaches

What a great article in *Drexel Magazine* about the success of the women's field hockey team and the efforts of their coach, Denise Zelenak. Leading Drexel's field hockey team to its first CAA championship in 2012 is an enormous achievement. Coach Zelenak has taken the program to great heights. And, as the article mentions, before the 2012 CAA tournament win there was their 2009 "first-ever berth in the NCAA tournament."

As a former Drexel Dragon field hockey player, I am impressed by the team's great accomplishments. I know personally that these athletic achievements are extremely meaningful to both players and coaches. But if I may, I'd like to draw a small asterisk next to that "first NCAA tournament berth" statistic. While it was a first NCAA berth it was not the first time Drexel's field hockey team went to a national championship.

Up until 1981 the NCAA existed only for men's teams. Women's field hockey had a national tournament of a different name: The Association of Intercollegiate Athletics for Women. In 1980, under coach Karen Schnellenbach, the field hockey team made Drexel's first AIAW appearance.

I was a proud member of that team and if not for the efforts of our coach we would not have qualified for the AIAW. She pushed us to our physical limits, fostered a strong sense of teamwork, and took us to that tournament despite the Athletic Department's being unprepared for our team's success.

That year was one I will never forget. Sounds like Denise Zelenak is a coach who makes memories as well. Drexel is lucky to have Coach Zelenak and I am proud of the women's field hockey program.

Eloise DeBroekert, '83

Philadelphia, Pa.

Get a Clue

I'm sure everyone has told you about the misplaced "39 Down" [on the Back Page Puzzle in the summer edition], but it's still a fun exercise. Keep them coming. A great publication.

Robert Fenlon, '61

King of Prussia, Pa.

The Editor replies: Indeed, the No. 38 that goes with the clue "act of defiance" was in the wrong box on the crossword. It belongs one box to the right, and goes with the answer "dare." Thanks for the catch!

Send letters to the editor to magazine@drexel.edu



**WE WANT TO HEAR
FROM YOU...**

40

UNDER FORTY

As we all know, Drexel alumni are a dynamic, entrepreneurial, energetic and innovative bunch. They are hard-working. They are focused. They make a difference.

In an upcoming issue of *Drexel Magazine*, we'll take a look at some of the most prominent and promising alumni working in the world today.

In our second-annual "Drexel 40 Under 40" edition—an issue that will feature profiles of 40 young alumni who are making a name for themselves and making a real impact in their industries and communities.

We have a few people in mind already (of course, finding accomplished young Drexel alums is not exactly a difficult task) but we also want you, our readers, to share your nominees for this exciting issue as well.

ELIGIBILITY

- Must be 40 years or younger as of January 1, 2014.
- Must have received a degree from the University.
- May be self-nominated or nominated by another person.
- Should have achieved demonstrated success in business, the public sector, the nonprofit sector, community involvement or advocacy.
- Must submit a high-resolution image of the nominee.

Nominations should be sent to magazine@drexel.edu or to the following mailing address by **November 30**:

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

Camden Camera

Camden. The bleakest headlines often name this New Jersey city one of America's most impoverished and most dangerous — a hopeless place. But while hunger and poverty have long been part of the nation's conversation about the city, rarely do Camden residents speak for themselves.

That is, not until January of this year, when 10 women took up digital cameras to share their stories about the challenges of making sure their families always have enough to eat.

The women are the newest members of the Witnesses to Hunger community research and advocacy project based at Drexel's School of Public Health. Through their personal stories, the women hope to combat childhood hunger by raising awareness about food insecurity in Camden.

Their photos and testimonies were exhibited in June at the headquarters of the Campbell Soup Co. in Camden. Campbell provided funding for the project as part of its \$10 million, 10-year healthy communities program, which is working to reduce by half childhood hunger and obesity in Camden.

"The witnesses' photographs not only elevate the discussion on hunger and food access in Camden, but also give a voice to our community members who experience hunger daily," said Kim Fortunato, Campbell's director, healthy communities.

The exhibit opened to the public in September at Gallery Eleven One on Front Street in Camden.

In the exhibit, parents gave "witness" to their experiences with food insecurity and homelessness, the welfare system, employment and education, and violence and safety in Camden.

Many expressed feelings of despair about the decline of the city they love and a desire to break the cycle of poverty and do something positive for Camden.

"I think a lot of people lost hope in Camden," said Beatriz C., a working mother with a young son. "I haven't, so that's why I'm doing Witnesses to Hunger. It feels like this program has some type of hope for Camden. If it just changes a little bit of Camden, then I feel like it was a successful program."

Witnesses to Hunger was developed in 2008 by Mariana

A Drexel public health project crosses the river to Camden to collect poignant self-portraits of mothers struggling to feed their families.

BY RACHEL EWING



Chilton, an associate professor and director of the Center for Hunger-Free Communities at Drexel, to document the complex issues surrounding food insecurity, poverty and children's health.

Her aim is to encourage firsthand participation of people who are confronting those issues in their day-to-day lives.

Initially, the program launched with 42 women in Philadelphia. It has since grown to include groups of witnesses across the state of Pennsylvania and in Boston and Baltimore.

Camden became the fourth official program site in January. The Center for Hunger-Free Communities partnered with a Campbell Healthy Communities site, Respond Inc., to recruit parents to the program.

"We're excited to bring Witnesses as a homecoming of sorts to Philadelphia's urban neighbor across the river," Chilton said. "The Witnesses in Camden have shown us that many of their struggles are universal, and very similar to the experiences of people in Philadelphia, Boston, Baltimore and across the nation."

"Just because he is in Camden does not mean a child won't come out being happy. Just because this is not the American dream or the American-looking family, that does not mean a child won't come up all right. I want that image to change, because there's some good stuff in Camden. It's not all bad stuff. Kids do grow up happy in Camden. I did. I came out fine."
— Beatriz C.

A woman with light brown hair and blue eyes, wearing a blue patterned top, stands outdoors on a city street. She is holding a large collage of photographs and a sign. The sign is white with green text that reads "BEYOND hunger" in a large, bold, sans-serif font. Above the main text, there are several smaller photos: a woman with green sunglasses, a young girl with white sunglasses, a baby, a woman with a baby, and a woman with a child. To the right of the main text, there is a green banner with white text that says "FOOD STAMP & LOTTERY". Below the main text, there is smaller text: "A National Conference on Hunger and Poverty", "May 2-4, 2012", "Drexelton Hilton Hotel", "212 South Broad Street", "Philadelphia, PA 19107".

“Women who experience hunger and poverty firsthand are the true experts. [They tell us] how their struggles are shaped by complex systems of low wages, housing challenges and public-assistance programs.”

— MARIANA CHILTON,
THE CENTER FOR HUNGER-FREE COMMUNITIES

The project has helped draw attention to the problem of childhood hunger. In 2009, Chilton and a group of witnesses traveled to Washington, D.C., where they testified before legislators and displayed their photos at the nation’s capital. One woman, a young single mother named Barbie Izquierdo, was also selected to be a protagonist in a documentary film, “A Place at the Table,” which chronicles three individuals’ stories to bring to light the hidden realities of hunger in America.

The film premiered in March in theaters, on iTunes and On Demand and is also now available through Netflix.

The hope of everyone involved in the project is that these

efforts will inform policymakers by putting faces to the issue.

“Women who experience hunger and poverty firsthand are the true experts,” Chilton said. “Their photos and their personal testimony of raising families in poverty in cities like Camden and Philadelphia tell us what no statistics can — a personal view on how their struggles are shaped by complex systems of low wages, housing challenges and public-assistance programs.” **[D]**

 Learn more about the program
at drexelmagazine.org.

Backing the Next Big Idea

The University is getting into the startup business with the creation of Drexel Ventures.

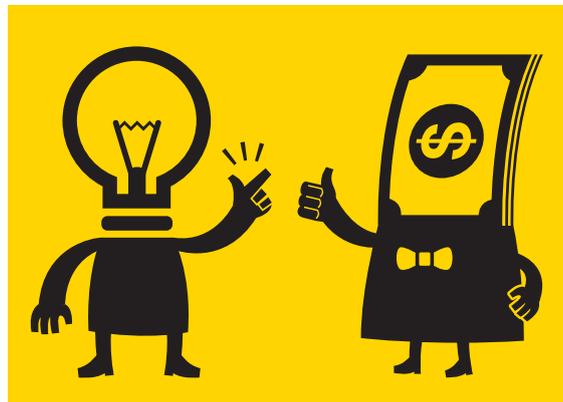
Drexel University researchers can claim a long list of innovations that have changed the way we've shopped, communicated, played and cared for the sick.

But all those great ideas don't mean much if they never make it to the marketplace.

That's why the University recently launched a seed fund, incubation and technology-transfer enterprise called Drexel Ventures, with the goal of spurring technological advancements with real-world applications.

The program will make it easier for researchers and alumni to enter into partnerships with the private sector and translate their work into the marketplace.

Drexel Ventures' mandate includes identifying and supporting business development opportunities, expediting intellectual property licensing, supporting business incubator and accelerator programs, and connecting Drexel's community of innovators



to other entrepreneurs and funding sources in the national innovation ecosystem.

Drexel Ventures will administer a new innovation fund and business incubator, the Dragon Proof of Concept program, developed to move University inventions closer to the marketplace and to make seed investments in Drexel startups and other promising new companies. Teams selected by the program will receive up to \$100,000 in funding. Winners of the first round were announced in October. Applications for

the second round of funding will be accepted in early 2014.

"This launch increases the effectiveness of our efforts to present a welcoming 'front door' to investors, inventors, entrepreneurs and businesses who want to partner with our research enterprise," says Senior Vice President for Corporate Partnerships Keith Orris. [D]



Visiting Philly this winter?

If you've ever felt compelled to get up close and personal with a *T. rex* — without the inconvenience of being a few notches down on the food chain — the Academy of Natural Sciences of Drexel University will give you that chance. Through March 30, 2014, the Academy is running the East Coast debut of *Dinosaurs Unearthed*, an

exhibit of 13 lifelike, animatronic dinos that will give visitors the feeling of strolling through the Jurassic. The display will also include real fossils and reconstructed skeletons that will reveal secrets about life on Earth long before humans made their appearance. "When the dinosaurs roar and gesture, you can almost feel the floor vibrate under your feet," says Academy Exhibits Director Jennifer Sontchi. The exhibit costs \$5 in addition to regular admission.

A Web Winner

Drexel's new website, designed by Virginia-based firm NavigationArts, won a Webby Award for Best Education website at the 17th Annual Webby Awards.

Hailed as the "Internet's highest honor" by *The New York Times*, The Webby Awards, presented by the International Academy of Digital Arts and Sciences (IADAS), is the leading international award honoring excellence on the Internet. In designing Drexel's website, NavigationArts used "responsive design" to engage students, no matter their location or device.

"Honorees like NavigationArts are setting the standard for innovation and creativity on the Internet," said David-Michel Davies, executive director of The Webby Awards. "It is an incredible achievement to be selected among the best from the 11,000 entries we received this year."

The IADAS, which nominates and selects The Webby Award Winners, is comprised of web industry experts, including media mogul Arianna Huffington, Skype CEO Tony Bates, Mozilla CEO and Chair Mitchell Baker, Instagram co-founder Kevin Systrom, mobile-phone inventor Martin Cooper and StumbleUpon founder Garrett Camp.

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For Love of the Game

As repositories of Philadelphia sports knowledge go, it's hard to compete with Rich Westcott.

The Drexel alum (class of '60) is the author of 24 books on sports — most notably baseball — and had a long career as a sports journalist for area newspapers, national magazines and his own Phillies-centric newspaper, *Phillies Report*.

So it's somewhat fitting that in this 130th year of Major League Baseball in Philadelphia, the prolific author has presented this sports-hungry town with his 25th book, "Philadelphia's Top 50 Baseball Players" (University of Nebraska Press).

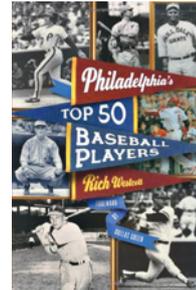
But with 1883 as a start date, how in the world does one go about narrowing down the city's greatest players to a nice round number like 50?

"From the beginning, I had a pretty good idea in my head about who I was going to go with," he says, emphasizing that he did have to pare his initial list from 60. "What I did was present my thoughts to some fellow experts, about five other guys who are familiar with Philadelphia baseball history, and they all agreed with my choices."

The pool from which Westcott drew was broader than just the Phillies. His list includes hometown heroes — those born in Philadelphia but who played elsewhere — players for the Athletics (on the field in Philadelphia from 1901 to 1954) and the Stars, the city's Negro League team, who played from 1933 through 1952.

"The Negro Leagues weren't considered majors, but they had some extremely good players who would have played for the majors had things been different," he says. "And Philadelphia has quite a few that were in the Hall of Fame."

Westcott's career as an author began as a side job in 1983 when he co-wrote *The Phillies Encyclopedia*, weighing in at 800 pages, with former *Philadelphia Bulletin* reporter Frank Bilovsky. Since he retired from full-time sports journalism



With his 25th book, Drexel alumnus Rich Westcott takes on the unenviable task of ranking Philadelphia's Top 50 baseball players.

BY SCOTT PRUDEN

with the sale in 1997 of *Phillies Report*, which he published for 14 years, he's turned to writing books full time.

But he didn't start out dreaming of sportswriting. As a marketing major at Drexel, he'd never even considered it until his season as a pitcher for the Dragons' baseball team ("not a very good one," he notes) was cut short by a career-ending shoulder injury.

It was then that one of his brothers in the Alpha Pi Lambda fraternity, who was also editor of *The Triangle*, suggested he start covering the baseball team for the campus newspaper. With no experience, he considered the offer ridiculous, but his friend wouldn't let it drop. Westcott's resolve, meanwhile, gradually lessened.

"I finally did it and fell in love," he says.

His girlfriend at the time, Lois Cherry (now his wife), was also a Drexel student, and "was really, really good at grammar and sentence structure and she really helped me," he says. "I did it all season and hoped to make it a career."

After four co-ops — none of which spurred an interest in a career — he graduated with a stack of baseball clips, took a job with a small city weekly and never looked back.

"I tell people that along the way as a pitcher I decided my fingers were more useful on a keyboard than throwing a baseball," he says. [D]



DRAGON QUOTES

“Data is going to be collected. That’s just the name of the game in an era of social networking and the Internet, but we need to know how this data is being used and by whom.”

— KRISTENE UNSWORTH, professor of information science and technology, in a *Christian Science Monitor* story on NSA data gathering.

“Imagine the impact for Philadelphia when visitors arrive at the city’s most convenient transportation hub and disembark right into a brand-new neighborhood dedicated to learning, to innovation and to entrepreneurship.”

— PRESIDENT JOHN FRY in written testimony to federal legislators stressing the need for more investment in Northeast Corridor rail.

“No privacy policy can stop a hacker from breaking into things. If it’s being processed on the cloud, it’s liable to be grabbed.”

— JENNIFER A. RODE, an assistant professor who specializes in human computer interaction, in a *Polygon.com* article on privacy concerns regarding the new Xbox One.

“While the legal system may purport to be colorblind, we unfortunately don’t live in a colorblind world.”

— DONALD TIBBS, associate professor in the Earle Mack School of Law, in a *DrexelNow* Q&A that discussed race in the courtroom.

“I’ve seen the design and it’s incredibly crude. This is going to be a laughingstock for the city.”

— MARK BRACK, associate professor of architecture and interiors, in a *Philadelphia Inquirer* article on a proposed 9/11 memorial for Franklin Square.

“AS A CLOSING NOTE: I found the nudity tasteful and not at all excessive.”

— DAVE GOLDBERG, associate professor of physics, in a satirical letter questioning the scientific accuracy of the film *Hot Tub Time Machine*, posted at the website i09.

“There’s nothing more subjective than comedy.”

— BRUCE GRAHAM, associate teaching professor in the Department of Cinema and Television, in a story on *Philly.com*’s blog *Art Attack* about teaching stand-up.

“Demolishing an old building is not neurosurgery. We’re not going in with scalpels, and things don’t always behave the way we think they’re going to behave.”

— ROBERT BREHM, associate teaching professor and professional engineer in the Department of Civil, Architectural and Environmental Engineering, in a *Philadelphia Inquirer* story on the collapse of a building undergoing demolition at 22nd and Market streets.

Lessons in Success

Alumnus Chuck Sacco will share his entrepreneurial expertise as the Close School's director of external relations ■ BY SCOTT PRUDEN

As someone who's started or helped start half a dozen businesses over nearly two decades, Chuck Sacco, '07, knows the ups and downs of the entrepreneurial life better than most.

One of the most important lessons he's learned is the importance of "failing fast" — understanding when a business idea isn't going to work, getting out without losing too much money, and applying the lessons learned to create a more successful venture.

Now, as entrepreneur in residence and — as of December — director of external relations for Drexel's new Close School of Entrepreneurship, Sacco says he hopes to bring those hard-learned lessons to undergraduates and graduate students throughout the University who have ideas they believe should be turned into businesses.

"I'll be bringing my experience as a entrepreneur to bear," he says. "I'm already well connected within the Philadelphia community in the areas of technology and entrepreneurship, and I'll be helping the school establish relationships with companies we can add value to."

Since earning his MBA through Drexel's LeBow College of Business, Sacco's involvement with the University has grown.

When PhindMe Mobile, the business that was the subject of his MBA, first launched, it was located in what is now known as the Laurence A. Baiada Institute for Entrepreneurship, the mission of which the Close School will expand upon.

In 2010, PhindMe Mobile merged with Motivias, which designs mobile apps for hotels and travel agents in Caribbean and Latin American countries including Mexico.

Sacco also appeared in one of the first television commercials launched for LeBow, where he eventually became an adjunct professor. He is an elected director of the Drexel University Board of Governors.

One of his goals in working with the Close School, Sacco says, is



"There's such a wide range of individuals in the University — a lot of super creative people trying to create new stuff."

— CHUCK SACCO

to drive home for students that entrepreneurship doesn't necessarily come from those with a business background.

"People who really want to start something may just think of themselves as creative," he says. "There's such a wide range of individuals in the University — a lot of super creative people trying to create new stuff."

Close School Dean Donna DeCarolis said that Sacco brings to the table something that can't be discounted when starting up a

brand new school — a history with Drexel.

"This school is brand, spanking new and we have no history, so to have someone like Chuck on board, who is an alum, who understands Philadelphia, the region and the business environment, is invaluable," she says.

Because she's approaching the staffing of the Close School in a way that echoes that of a business startup, bringing on someone who knew the job immediately was crucial. As the person who hired Sacco for his adjunct teaching position when she was a department head at LeBow, DeCarolis knew he would be classroom ready.

"I need to hire the people who I'm 99.9 percent sure can do the job on day one," she says. "I knew of his skills and his passion, I knew he could teach, and I knew he could relate to our students." [D]

A Place to Call Home

Two years in, Drexel University's Employee Home Purchase Assistance program has helped more than 20 University employees buy homes in West Philadelphia.

Those who buy a home through the program are eligible for a \$15,000 contribution from Drexel and a \$4,000 matching grant from the city toward a home located within the boundaries set by the program.

In May, the program celebrated its 20th closing when Drexel employee and new homeowner Andrew Eisenhart, associate director of international undergraduate admissions, signed off on the final documents.

Eisenhart said an article in *Philadelphia Magazine* that touted University City as an up-and-coming neighborhood inspired him to take advantage of the program.

"After attending meetings about Drexel's five-year strategic plan, it was clear the University was expanding and I knew buying a home [in University City] would be a sound investment," he says.

Eisenhart started to look at properties in February and after six or seven viewings found a move-in-ready rowhome in the Spruce Hill section. [D]

— Katie Clark



EXPERT ANALYSIS

Just a Matter of Time?

A Drexel law professor believes Pennsylvania could be the next state to challenge laws prohibiting gay marriage — with success.

BY LAUREN HERTZLER

The U.S. Supreme Court's decision in June to strike down part of the Defense of Marriage Act granted certain federal benefits to legally married same-sex couples, but it wasn't the end of the struggle for marriage equality in states that have yet to legalize gay marriage, including Pennsylvania.

The Supreme Court's ruling in the same week on the California case of *Hollingsworth v. Perry* concluded on technical grounds that left the basic constitutional question at the heart of the case — whether states can ban same-sex marriage — untested.

A more definitive challenge of state same-sex marriage bans may be coming soon — and according to Drexel law professor David S. Cohen, it may happen next here in Pennsylvania.

Cohen, an associate professor in the Earle Mack School of Law, is representing a group of clients in a same-sex marriage suit that could play a role in a larger legal confrontation in Pennsylvania, which has had its own Defense of Marriage Act on the books since 1996.

PUTTING PENNSYLVANIA TO THE TEST

A few weeks after the Supreme Court's rulings, the American Civil Liberties Union filed a lawsuit challenging Pennsylvania's law.

It's a straight-forward case like California's recent lawsuit, says Cohen, except in this instance, Republican Gov. Tom Corbett is defending the law.

Why is that significant? Because Corbett has legal standing to defend the law. In the California case, state politicians refused to defend Proposition 8, the California ballot initiative that declared gay marriage unconstitutional. Instead, the petitioners who put Prop 8 on the ballot stepped forward to defend it in court. But the Supreme Court ruled that the peti-



tioners didn't have legal standing to challenge a lower court's decision that invalidated Prop 8, because the proposition did not inflict personal or tangible harm on them — and now Prop 8 is history.

Just as in California, some Pennsylvania politicians, like Attorney General Kathleen Kane, are rejecting the state's defense of marriage law because they believe it contradicts rights enshrined in the Constitution.

In an act of political civil disobedience, Montgomery County Register of Wills D. Bruce Hanes began issuing marriage licenses to same-sex couples just weeks after the Supreme Court's decision.

But Corbett isn't giving in.

He sued in Commonwealth Court to prevent Hanes from issuing marriage licenses to same-sex couples.

In early September, a judge ordered Hanes to stop issuing the licenses and also denied the newly married couples the motion to intervene. Hanes appealed the decision to the Pennsylvania Supreme Court in early October.

"I still believe what Hanes did was right," Cohen says. "And he's got a winning case; this is just a bump in the road."

That is, as long as the state Supreme Court decides to hear it.

In the meantime, the 174 couples that Hanes granted marriage licenses to are in limbo, Cohen says. Are they, well, married?

Corbett says they're not, and so does the Department of Health, which filed papers to that effect. The couples say they are. And so does Cohen. He's representing 21 of the couples in court with Philadelphia-based law firm Dechert.

In mid-September, Cohen's clients filed their own action claiming that their marriage licenses are valid. That move came out with a bang, as it was the same week that a same-sex couple, married in Massachusetts, asked federal court to force Pennsylvania to recognize their marriage — and all

600 of the marriage-related state benefits they're missing out on.

Cohen believes that any one of these lawsuits has a high probability, although it's not inevitable, of legalizing gay marriage.

"The law either needs to be found unconstitutional in court or to be changed by the legislature," Cohen explains. "Given Pennsylvania's current legislators, it's more likely for the law to change if it's through the court than the legislature, right now at least."

Cohen notes that the federal judge selected to preside over the ACLU case, although Republican, doesn't always take a conservative stance in court. In 2005, for example, Judge John E. Jones ruled it was unconstitutional to teach the theory of intelligent design in Dover Area School District science classes.

"Being a Republican, but ruling no intelligent design, he's considered independent-minded and by all accounts very smart and thorough," Cohen says. "I don't know enough about him to know how he is going to think about the constitutional issues around same-sex marriage, though. I think any independent and fair-minded judge should find that the law is unconstitutional because I believe it clearly is, but that doesn't always work out that way."

Corbett's uncertain political fortunes could also influence the outcome, says Cohen. Federal judges sometimes work at a slower pace, Cohen says, and there's no telling whether Jones will decide the ACLU case before next November — when Corbett's up for reelection.

"I bet that the people who believe in same-sex marriage, which is the majority of Pennsylvanians, already don't like him," Cohen says. "Corbett's pretty politically unpopular right now. It would take something drastic, I think, between now and next November for him to become more popular, or popular enough to win reelection."

Cohen says he thinks Corbett probably wishes the suit would "just disappear."

"Now he has to take his conservative position on this and defend it, but that's going to make him go against the grain in Pennsylvania," Cohen explains. "The best case for

him would be for a court today to find that the law is unconstitutional, allow same-sex marriage in Pennsylvania and then the issue disappear by next November. These cases lingering are going to just make him have to continue to defend it and that's just digging himself deeper."

In late August, Corbett was caught in an uproar after his attorneys compared same-sex unions to 12-year-olds getting married, in a legal brief.

"When I read that, I knew it was going to be a problem for the state," Cohen says. "It's insulting. It may be a legally accurate comparison...but as a matter of public perception, it's horrible and it's offensive because it compares adults in loving relationships to 12-year-olds."

The state was ridiculed for the mishap in the national press, and Corbett issued a corrective statement.

"But the damage was done," Cohen says.

The governor sparked more headlines in October when he appeared to compare gay marriage to incest.

"It's likely things like this might keep coming up because I don't think there are any serious arguments, morally or legally, against same-sex marriage," says Cohen. "So they're going to have to fall back on arguments that don't make sense."

THE WAITING GAME

If any of the cases aren't resolved by next November, and if Corbett isn't reelected, and if he's succeeded by a governor in favor of same-sex marriage, Cohen says there's a chance Pennsylvania could have a punted decision similar to the *Hollingsworth v. Perry* case in California. But, that would happen only if the Pennsylvania governor, attorney general and county clerks involved all refuse to defend the state's Defense of Marriage Act in court, as happened in California.

In the meantime, Cohen is staying positive for his clients, while giving the best possible legal advice he can. He's hopeful the recent milestones throughout the state and the nation will keep pushing everyone in the direction toward more equality.

"This is such a fast-changing area of law that has produced huge momentum over the past 15 years," Cohen says. "What's happening in Pennsylvania is very interesting, but it's not surprising if you look at the map of states that have allowed same-sex marriage." [D]

BATTLE OF THE BOTS

What's the fun of a robot battle that doesn't involve potential global destruction? Getting a glimpse at the android future that might be, that's what. This December, the DARPA Robotics Challenge will pit teams comprised of the best in their field in robotics hardware and software against each other in disaster-themed scenarios for a chance to earn funding from the Defense Advanced Research Projects Agency. The December head-to-head trials at Homestead-Miami Speedway in Homestead, Fla., will determine who will move on to the final round in 2014 and potentially win a grand prize of \$2 million in research funding. Here's a look at the competitors. — *Scott Pruden*



our hero

← **HUBO::** Representing the home team, Drexel University huddles up with nine other institutions for this bi-pedal humanoid robot designed for both guided and autonomous operation. HUBO has human-like hands that can grip common tools and a new, rugged appearance. Team HUBO aims for a “program-test-perfect” model that will anticipate and address all the contest's challenges.

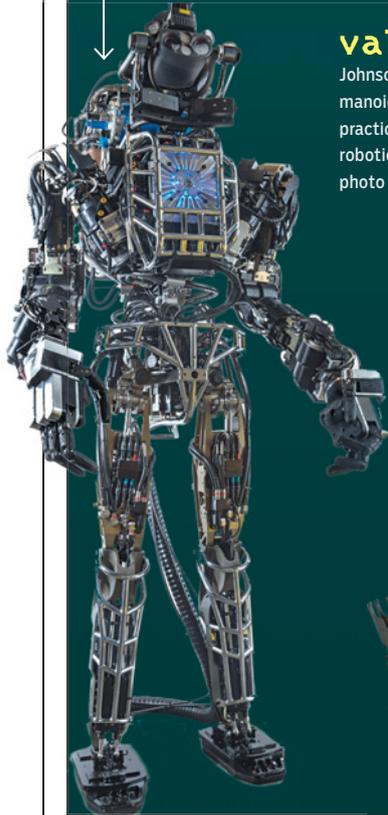
▶ See HUBO train at drexelmagazine.org.

• **thor::** Virginia Tech steps up with its Tactical Hazardous Operations Robot, which aside from acknowledging the need for creative naming, promises a light, agile and resilient humanoid that infers the intent of the operator.

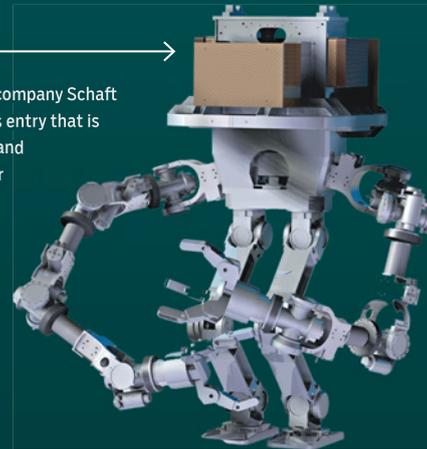


• **atlas::** Using a DARPA-designed Atlas robot donated by Hong Kong University, the late-entry Team HKU resulted from a merger between Case Western Reserve University and a team from Japan, which originally entered as separate competitors in the software-only DARPA Virtual Robot Challenge. An assortment of remaining winners of the Virtual Robot Challenge will compete against each other by applying their own software designs to Atlas prototypes provided by DARPA.

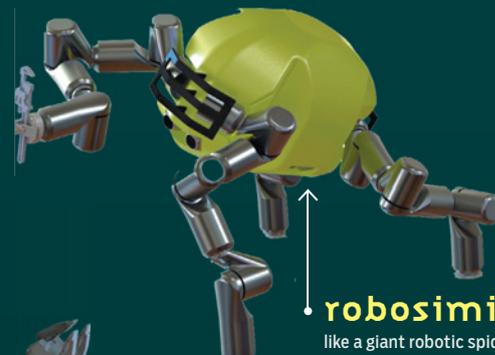
• **valkyrie::** NASA's Johnson Space Center promises a humanoid robot that uses designs and practices seen in a variety of other robotic iterations. (no prototype photo available)



• **schaft::** Japanese company Schaft Inc. puts forth this eponymous entry that is almost entirely arms and legs and bears no resemblance to either Richard Roundtree or Samuel L. Jackson. No promises on performance, but each arm gets an extra elbow joint, which probably couldn't hurt in the dexterity department.



• **chimp::** Carnegie Mellon University and the National Robotics Engineering Center join forces on the CMU Highly Intelligent Mobile Platform, which combines human-like size and dexterity with semi-autonomous operation and static—rather than dynamic—stability. Tank treads built into the legs and arms improve mobility and add to an overall Transformer-like appearance.



• **robosimian::** Looking more like a giant robotic spider than a monkey, this NASA Jet Propulsion Lab entry is designed to use all four limbs to increase dexterity and overall stability while moving and to anchor itself to supports like ladders, railings and stair treads.

Steinbright Goes all out for LGBTQ Job Seekers

BY LAUREN HERTZLER

In 29 states, including Pennsylvania, you could be fired for being gay — 37 if you're transgender, according to the American Civil Liberties Union.

Contrary to popular belief, there is no federal law that protects lesbian, gay, bisexual,

transgender and queer or questioning individuals from employment discrimination — something LGBTQ students and alumni need to be aware of, says Kathleen Anderson, the Steinbright Career Development Center's employer relations and cooperative education coordinator.

Students and alumni should also know where to find LGBTQ-friendly employer information, how to list LGBTQ-related experiences on their résumés and how to handle coming out during a job interview, if they want to.

That's why Steinbright, Drexel University's full-service career center, this year partnered with OUT for Work, a national certification program to help enhance LGBTQ career resources.

"This way, students and alumni can get all their information ahead of time and then handle it comfortably, however they want to handle it," says Anderson, Steinbright's LGBTQ project team leader.

Anyone with a Drexel email address can access the OUT for Work Career Center Library.

Recent civil engineering graduate Rebecca Reyman says she was happy to hear Steinbright was offering support for LGBTQ job seekers.

Reyman says that during one workday, she was outed, had to field inappropriate questions and had coworkers explain in long-form how they feel about same-sex couples.

"It is important that Drexel provides LGBTQ-specific support, and ensures that companies that choose to take part in the co-op program are inclusive, safe and comfortable for students," Reyman says. "I hope now that these services are available at Steinbright, students will take advantage of this great opportunity."

As the nation transitions, Anderson says she has found that being gay can be a "big plus" during today's hiring process.

"There are many companies that are looking for diversity in their workforce," Anderson says. "If that helps give you a leg up among all the other people looking for a job, and you're comfortable, you might as well use it."

But limiting a student's job search to only LGBTQ-friendly workplaces is not Steinbright's intent, Anderson says.

"If there are 25 companies in Philadelphia that are rated LGBTQ-friendly, you're not just going to apply to those," she says. "This is all about helping students get to be successful in their career search, and on the job, wherever they are headed." [D]

Capitol Idea

Drexel stretches its reach to Washington, D.C., to influence the influential and serve a fresh student base.

Drexel University's latest expansion now reaches into the center of government power and into a new source of students and faculty.

The University's new office in Washington, D.C., which celebrated its grand opening in May, serves as a multifunctional academic and outreach center for the University and for Drexel University Online.

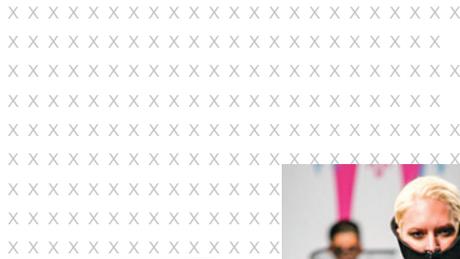
With its central location at the Lafayette Tower at 801 17th Street, N.W., the office will serve as a base to reach out to Congress and the federal government for support of the University's teaching, research and service missions.

The new office will also target potential online students from Richmond, Va., to Baltimore and will allow Drexel to establish connections with experts in the federal government who could serve as adjunct teaching faculty. The site will strengthen Drexel's research capabilities in D.C. by providing offices and conference facilities for research faculty, enabling them to establish new research contacts in the areas of cybersecurity, health care, higher education and public policy.

Drexel's College of Computing & Informatics, along with the Goodwin College of Professional Studies, School of Education, College of Nursing and Health Professions, Earle Mack School of Law and Drexel University Online are using the office for academic outreach.

The office will also be used by Drexel's non-academic units, including the offices of the President, Provost, Admissions, Government and Community Relations, Alumni Relations and Institutional Advancement. [D]





Hot Couture

Kristy Jost's research interweaves textile design and materials science to create garments capable of storing energy and powering small electronics.

BY LINI S. KADABA



JEFF COHN



Luckily for Kristy Jost, '11, black is always chic. The fashion designer pursuing a materials science doctorate works with plenty of charcoal powder — a key ingredient in her drive to develop “fabric batteries” that she hopes will one day power runway-worthy smart garments and more.

Her innovative, fashion-centric research at Drexel University's A.J. Drexel Nanotechnology Institute and the Shima Seiki Haute Technology Lab also is entwined with potentially life-saving threads.

“All of this has military applications,” says Jost, 24, stylish in tortoise-rimmed glasses and a scarf looped around her neck. Her research fellowship is funded through the U.S. Department of Defense.

Fabric batteries — essentially super-capacitors made of non-toxic, flexible

textiles — are electrical energy-storing devices that can operate small electronics, such as iPhones. For the military, that could translate into Under Armour-style garments capable of tracking soldiers and monitoring vitals.

Currently, that type of surveillance requires a bulky battery pack that weighs about 12 pounds and takes up the space of the typical engineering textbook. Even reducing that load by a few ounces could have significant impact on missions, Jost points out.

Commercial uses also are abundant. In fact, smart garments that feel and function like fabric but have built in abilities, such as sensing or heating, already exist. The challenge is how to power these textile devices, short of big batteries or trailing electrical cords that plug into the wall.

“There are no real fabric electronics right now,” Jost says. Her research is breaking ground on ways to integrate energy storage seamlessly into garments that can be manufactured through methods already widely used in the apparel industry.

To that end, in 2010 Jost became the first Drexel student to complete a co-op between the Westphal College of Media Arts & Design and the College of Engineering. Working with advisers Yury Gogotsi, director of the A.J. Drexel Nanotechnology Institute, and Genevieve Dion, director of the Haute Tech Lab, she developed ink made of inexpensive activated carbon, which is derived from pinewood trees or coconut shells. The porous activated carbon has a large surface area for energy storage — just one teaspoon of it is equal to a football field in area. The unique ink was used to screen print a square, just like any other fashion design, onto woven cotton or polyester fabrics.

Once embedded with the capacitive material, the textile was sandwiched with another piece of carbon fabric. The two layers — one charged positively, one negatively — were soaked in an electrolyte, which contained positive and negative atoms, or ions, and bound together. Voila! It was a device that could be charged like a conventional battery — or perhaps wirelessly, or charged with wearable solar panels or sheer human movement.

“Opposites attract,” explains Jost, who presented her work in Nice, France, in September 2010, and was published in the journal *Energy and Environmental Science* in 2011. “That’s the reason it works.”

While being charged, the carbon fabric, which contains electrodes, attracts the oppositely charged ions, which keep the electricity in the device.

How much power can smart fabric store? Jost estimates that a 1,000-square-centimeter knitted swatch of her product could power an iPhone for one hour of talk time. While smart fabric supercapacitors provide less energy than conventional batteries, they are considered



“I think fabric electronics are going to be very popular. Fashion designers love the idea of really transforming clothes. That was my initial fascination. I think eventually we’ll get there.”

— KRISTY JOST

safer, can last hundreds of thousands of cycles and charge in a matter of seconds, she says.

“It’s a new paradigm,” Dion allows. “It’s a new material.”

More recently, Jost began using a backbone of highly conductive carbon fibers, which is then screen printed with the carbon ink. This device can store even more energy, comparable to conventional hard supercapacitors, she notes in a paper that was published in *Energy and Environmental Science* earlier this year.

The next iteration involves developing new carbon yarns that further improve the capacitor load and would make mass production simpler.

At the Nanomaterials Lab (“This is where I get to be a mad scientist,” she says), Jost pulls a sample swatch from a three-inch thick, white binder full of test fabric bits and snippets of yarn, labeled and stored in plastic sleeves.

A square of a knitted capacitor in wool is pulled from the binder. “The reason we knit it with wool is because it’s fire resistant, if anything were to spark for any reason,” she says with a smile. For the record, it’s unlikely. The

piece was produced on the impressive digital knitting machines at the Haute Tech Lab, three blocks west of Drexel’s Nanotechnology Institute.

“We’re closing in on the Holy Grail,” she says. “We want to knit your garment and be done. There’s no additional processing after the fact in this new work.”

Dion notes that one of Jost’s assets is the unusual perspective she brings to her research.

“Her strength is being trained as a designer,” she says. “That’s a different approach to engineering.” In other words, Jost not only cares about the electrochemistry of her fabric, but also whether it’s aesthetically pleasing, comfortable — and easy to wash. (Now, that’s smart.)

At conferences, other scientists often puzzle over her background. “People always go, you were what?” she says.

But Jost’s combination of seams and supercapacitors makes perfect sense. She’s been designing clothes (her Barbie dolls looked like fashionistas) and putting on shows since she was a child growing up in West Philadelphia and Havertown and her grandmother gave her scraps of fabric.

When she wasn’t sewing, she was concocting brews, raiding her mother’s spice rack for ingredients. She also recalls fondly a pulley system she constructed to turn the light off and on from her bed.

During her sophomore year at Drexel, the then-fashion design major discovered the designer Hussein Chalayan and his 2007 spring collection of smart garments. Imagine a Victo-

rian gown transformed into a flapper dress. Fringes popped onto hemlines. Long sleeves turned short.

Jost was completely enraptured. “If he could do that, what else could you do?” she wondered.

Around the same time, a class assignment had students incorporate technology into their designs. Most envisioned pockets for iPods or holders for medical devices.

“I took it very literally,” she says. “I made a big ball gown covered in polka dots, but all the polka dots were speakers. It was a musical clap-on dress. You walked in and the party would start.”

She wanted to make that dress for real — and found her way through word of mouth to Gogotsi. Alas, reality soon hit. None of the components to make a multimedia gown existed in fabric. It turned out that Chalayan’s collection was powered by motor-lined corsets, which took away some of the magic of it all, she says.

“I thought it would be something different, something new and more interesting,” she says.

And so began her co-op and interest in materials science. Her senior collection was inspired by the shape and structure of carbon nanotubes and used futuristic neoprene and nylon mesh. After she graduated in 2011 with her bachelor’s, she continued her research as a doctoral candidate.

“I think fabric electronics are going to be very popular,” she says. But besides its medical and military uses, Jost still has a soft spot for the fashion applications. “Fashion designers love the idea of really transforming clothes. That was my initial fascination. I think eventually we’ll get there.

“And if we do,” she says, “I’d like to make that party dress the right way.” **D**



See a video on how Jost creates her smart fabrics at drexelmagazine.org.

DREXEL'S MOTH FLIES FULL CIRCLE

The photo of the little brown moth Jon Gelhaus, curator of entomology at the Academy of Natural Sciences, came across in a book a few months ago didn't look like much. Its name, however — *Datana drexelli* — definitely rang a bell.

After some research, Gelhaus learned that the moth was named for Joseph Drexel in the late 1800s for his support of entomology. The discovery proved to Gelhaus, also a professor of



A seemingly nondescript moth discovered in Academy archives turns out to have an illustrious history.

environmental science at Drexel University, that the histories of the University and the Academy had been linked for much longer than the affiliation between the two formed in 2011.

Joseph Drexel was the brother of Drexel University's founder, Anthony J. Drexel. A well-known banker and philanthropist like his brother, Joseph Drexel was also an avid collector

of books and music. Both brothers were members of the Academy of Natural Sciences.

British-born actor and entomologist Henry Edwards named Drexel's *Datana* moth in Joseph Drexel's honor in 1883. Presenting the formal scientific description of the moth and its species name before the Linnaean Society of New York, Edwards said the honor was as thanks for "doing much to foster a love for the study of entomology among us." — *Rachel Ewing*

A New College for all Things Computing

The former iSchool has been renamed and now consolidates Drexel's computing and informatics programs

Farewell, iSchool. Hello, College of Computing & Informatics. The new college, announced on Sept. 9, combines the strengths and assets of Drexel's existing undergraduate, graduate and professional computing and informatics programs. It unites the faculty, staff and students from the former iSchool, College of Information Science and Technology with the College of Engineering's Computer Science Department and the Department of Computing and Security Technology from Goodwin College of Professional Studies. It will begin enrolling new students in the fall of 2014.

Dr. David E. Fenske, Isaac L. Auerbach Professor of Information Science and dean of the iSchool, will continue his service at Drexel as the founding dean of the new college.

The move addresses a national demand for graduates in computing and data science. The college will enroll more than 2,200 students in its inaugural year. More than half of the students will be undergraduates, with the number of undergraduates projected to grow by 15 percent annually to help meet the persistent gap between computing degrees granted and the number of jobs in the field.

In addition to its undergraduate programs, the college will continue to offer a master of science degree in library and information science, as well as master's degree programs in computing, software engineering, health care informatics and related areas. It will also provide a number of professional development opportunities in diverse areas such as archival studies,



competitive intelligence and knowledge management, digital libraries, youth services, cyber law and policy, cybersecurity and homeland security management. The college will also offer a doctoral degree in computer science and one in information studies. [D]

Remembering Richard Mortimer

Richard “Dick” Mortimer, a longtime professor, researcher and department head at Drexel University, passed away



July 2, 2013, at Paoli Memorial Hospital at age 77.

Mortimer had an extraordinarily long and historic relationship to the University. He was the first person ever to

receive a PhD at Drexel upon the acceptance of his dissertation, “Axisymmetric motions of nearly flat shells of revolution.” That 1967 achievement capped a career as a student that began when he enrolled in Drexel on the G.I. Bill after two years of service in the U.S. Army. He earned a bachelor’s degree in mechanical engineering in 1962 and a master’s degree with the same focus in 1964.

After working with NASA, in 1967 Mortimer accepted a teaching position at Drexel, where he continued to work until his retirement in 1993. During that time he researched the response of structures to impact loads and the stress waves that were generated, with funding for his work provided by NASA, the U.S. Department of Defense and the National Science Foundation. His findings were applied to the defense and aerospace industries and featured in more than 50 publications.

He was head of mechanical engineering and associate vice president for academic affairs at Drexel. He also received a number of awards as a professor, including “The Outstanding Teacher of the Year Award” and the “Dow Outstanding Young Faculty Award.”

His national honors included his election to vice chair, operations of the Engineering Accreditation Board for Engineering and Technology, the board responsible for accrediting all college-level engineering courses in the United States.

He is survived by his wife, Doris; four sons; 12 grandchildren; two great-grandchildren and a sister. [D]

Gerri C. LeBow Hall Opens for Business

Three years after Drexel University celebrated a \$45 million gift from alumnus and benefactor Bennett S. LeBow, which supported the demolition of Matheson Hall to make way for a new state-of-the-art building, the future of business education has arrived.

The 12-story, 177,500-square-foot Gerri C. LeBow Hall — the new home of the University’s LeBow College of Business — officially opened its doors with a two-day celebration for the Drexel community on Oct. 2 and 3.

The opening of the \$92-million building named for Bennett LeBow’s late wife also marked the announcement of LeBow College’s new School of Economics. The elevated status for economics at Drexel will include growth of the doctoral program, the launch of a master’s degree, recruitment of additional high-quality research faculty and deeper collaborative research efforts with other schools and colleges at Drexel and around the world.

LeBow, a native of West Philadelphia,

described his gift of \$45 million to Drexel in 2010 — the 12th-largest single gift ever

awarded to a U.S. business school — as a ringing endorsement of the business school and its accomplishments. He made his first gift of \$10 million in 1999; since then LeBow College’s stature has risen steadily nationally and internationally.

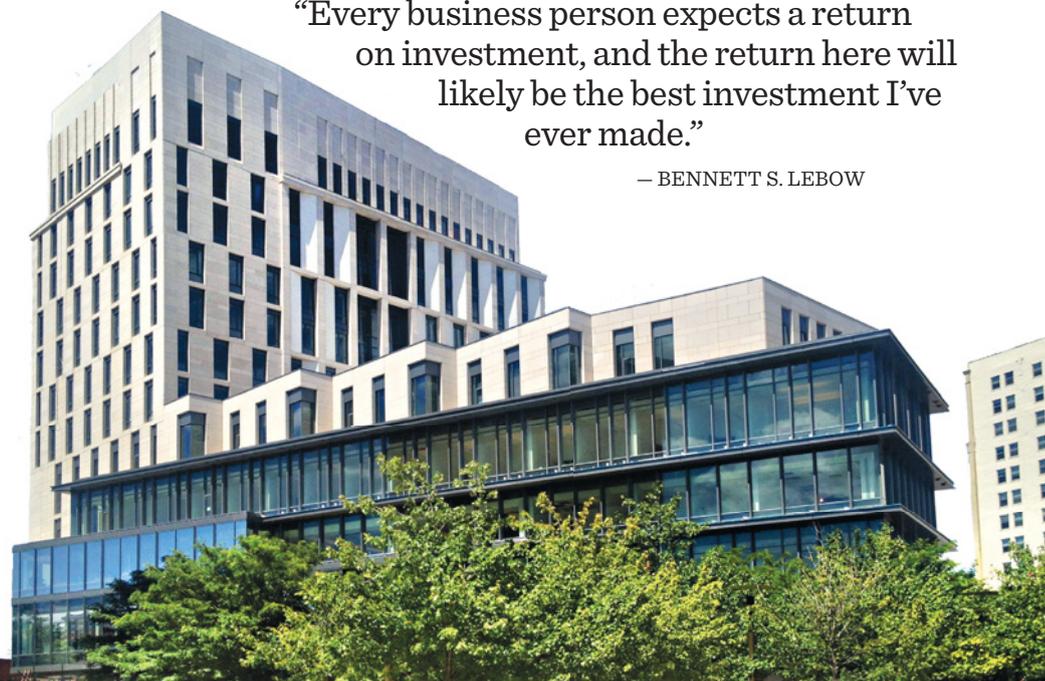
**LeBow College of
Business debuts
a spectacular
new home and
announces a School
of Economics**

The new building is designed by Philadelphia architects Voith & Mactavish Architects and New York’s Robert A. M. Stern Architects. It features undergraduate and graduate classrooms organized around a dramatic central atrium that is accessible from entrances at the building’s three corners. An open stair within this atrium leads to a 300-seat auditorium, a 100-seat lecture hall and a conference center. On the building’s upper floors, faculty offices are interspersed with seminar rooms and group study rooms. The building also includes a green roof and is Green Globe certifiable.

— *Niki Gianakaris*

“Every business person expects a return on investment, and the return here will likely be the best investment I’ve ever made.”

— BENNETT S. LEBOW



Want to learn to row?

This is the place. In fact, it's the only place on Boathouse Row where anyone can become a member. For the price of membership (\$450/year or \$225/three months) and other fees, beginner rowers get one-on-one lessons and use of club equipment. "It doesn't matter if you're a Drexel athlete or a Conestoga athlete or an adult recreationalist or an adult racer—you're getting the best rowing you can possibly get in Philadelphia," says Margaret Gordon, boathouse manager.



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BACHELORS BARGE CLUB



Bachelors Barge Club wasn't exactly sinking when Drexel's rowing team moved into the historic structure four years ago, but it was beginning to list.

The stately brick building on Kelly Drive also known as Boathouse No. 6 had been experiencing structural stress and the interior needed a reprieve from rough treatment by the hundreds of high school rowers who passed through every season. "We realized we were just kind of treading water," recalls Margaret Gordon, the manager of the 160-year-old club. "For Bachelors to have a future and the building to be standing for another 50 years, something drastic needed to happen."

Drexel needed help, too. The University's rowers were living like renters in the Pennsylvania Barge Club boathouse a few doors down, and they wanted a home.

In 2008, a deal was brokered: Drexel signed a 50-year lease that established it as Bachelors Barge's main tenant and in exchange, Drexel gave the club \$500,000 to restore and maintain the boathouse for the future. Earlier this year, Drexel deepened its involvement. The University now manages the facility, handling everything from technology to toilet paper.

The arrangement has been good for Drexel crew, good for Boathouse Row and good for local recreationalists.

1 /// THE CHAIRMAN: Ron Madden was key to establishing Drexel's partnership with Bachelors Barge by initiating a dialogue with Director of Athletics Eric Zillmer, Senior Vice President in Student Life and Administrative Services James Tucker and President John A. Fry. A '72 Drexel alum, Madden rowed for Drexel during his student days and is currently chairman and past president of the Button Club, the private club that owns the boathouse. ("Button" refers to a small Scotch thistle flower that was originally worn by club members on their boutonniere.)

2 /// THE MANAGER — Gordon has been managing the boathouse since 1996 and is seeing it through its current evolution. Bachelors Barge has a long history of hosting high-school rowing programs from schools such as Baldwin, Harriton and Lower Merion — some since their very inception. When Drexel became Bachelor Barge's primary tenant, all but Conestoga High School's crew relocated to new homes. "It was a gut-wrenching decision on Bachelors' part," says Gordon. But the changes allowed Bachelors to regularize its revenue stream and develop more highly organized programs.

3 /// A BETTER BOATHOUSE — The first big change when Drexel arrived was renovation of the "Scul and Sweep" meeting room on the second floor adjoining the balcony overlooking the river. Drexel brought in architects and designers to completely redo the space. "It was an amazing change that kind of jaw dropped everybody at the club and they were like, whoa, this is good already," recalls Gordon.

4 /// SPRUCING IT UP — More recently, Drexel had the upriver boat bay graveled, and the dock received new pressure-treated planks. Inside, there are new epoxy floors in the restrooms and new tile in the showers. Walls have been patched and cleaned in the main stairwell and corridor, and the stairs were retreaded.

5 /// BEST YEAR EVER — Rowing out of Bachelors Barge, Drexel's crew program has glided to a series of victories and recently had its most historic season — topped by winning the overall team championship in the 2013 Aberdeen Dad Vail Regatta, the country's premier intercollegiate rowing event. (Pictured: Coach Mollie Cusack, holding a rowing shell.) — *Sonja Sherwood*

Matt Azevedo grew up in sun-baked Las Vegas and played baseball year-round in a city that has sent several of its native sons to the Major Leagues, including phenom Bryce Harper of Washington. Azevedo played the sport regularly, but when he was in middle school his uncle introduced him to wrestling. By the time he was in high school, Azevedo decided to focus on the mat and not the bat.

“I enjoyed the one-on-one aspect and the fact that I could control my own destiny. I was a lightweight; as a sophomore in high school I knew baseball was not going to be my future,” he recalls.

Azevedo was a college wrestler at Arizona State and Iowa State, and graduated from the latter in 2002. He advanced to the NCAA tournament three times and continued wrestling after college, and won the 2008 U.S. Open National Championship.

He was named the eighth head coach of the Drexel wrestling program in April 2011. He replaced Jack Childs, who retired after 35 seasons.

Earlier this year he was named the Elite Level Sports Marketing Social Media Coach of the Year at the National Wrestling Coaches Association during its conference in Florida in June.

Azevedo lives with his wife, Brooke, and two young sons in Bryn Mawr, Pa. The former Cal Poly and Cornell coach spoke with *Drexel Magazine* about Drexel’s wrestling program.

? **ALTHOUGH THE INTERNATIONAL OLYMPIC COMMITTEE (IOC) RECENTLY VOTED WRESTLING BACK IN AS AN EVENT FOR THE 2020 GAMES, ARE THERE OTHER GENERAL CHALLENGES THE SPORT FACES AT THE GRASS-ROOTS LEVEL AND SPECIFICALLY AT THE DIVISION I LEVEL IN WHICH DREXEL RESIDES?** At the grassroots level wrestling has the highest participation it has ever had. It doesn’t figure to be a bigger concern at this level. Our big concern is at the Division I level. That is where we have lost some programs over the past 15 or 20 years. At the National Association of Intercollegiate Athletics level it is growing. At the Division II and III level it is very strong. At Division I we are working very hard to maintain the programs we have and to try to add some more. Grand Canyon University has added Division I. The IOC vote in September was huge for the sport of wrestling. The Olympics are the pinnacle of wrestling. We don’t have pro wrestling; if you’re going to go pro, you’re going to the Olympics. The vote meant everything for our sport.

WHEN YOU RECRUIT STUDENT-ATHLETES TO DREXEL, WHAT ARE SOME SPECIFIC SELLING POINTS YOU TELL THEM ABOUT THE UNIVERSITY AND THE WRESTLING PROGRAM? Our No. 1 selling point is our academic program and our co-op program, where our kids are working three out of their five years. They work in a job that is in their field of study. It is the only Division I program that has anything near that. Our kids are going to learn on the job. They are going to gain real-life job experience.

TALK ABOUT THE NEW LEAGUE (THE EASTERN INTERCOLLEGIATE WRESTLING ASSOCIATION) THAT DREXEL WILL JOIN FOR WRESTLING AND SOME PRE-SEASON GOALS FOR 2013-14. We are very excited about the move to the league, which currently holds all of the Ivy League, Patriot League and the two Colonial Athletic Association schools, Drexel and Hofstra. It is a great move. It is

Off THE Mat

with Drexel’s Wrestling Coach

As Drexel moves into a new league with tough contenders, wrestling coach Matt Azevedo aims to make All-Americans.

BY DAVID S. DRIVER

the largest conference in the country and it produces the second-most All-Americans on a yearly basis, second

to the Big Ten. It gives us a better chance to qualify on the national level. We will have to raise our level immediately. I would say we are in the middle of the pack. We always set our goals high. We want to be a Top 5 team in the conference this year. We have not had an All-American since 2007 and that is one of our goals.

HOW WOULD YOU DESCRIBE YOUR COACHING STYLE AND WHO ARE AND WERE SOME OF YOUR MENTORS? I am a technique junkie. I love technique. We preach to our guys to be aggressive. We can work with technique. You can’t instill that aggressiveness. My first coach and the person who had the most impact on my life was my dad, Mark Azevedo. My uncle was my coach in high school and I was his assistant at Cal Poly. Bobby Douglass was my coach at Iowa State. I worked under Rob Koll at Cornell. I have been around a lot of great guys.

WHAT DO YOU ENJOY THE MOST ABOUT COACHING AT DREXEL AND WHAT ARE SOME OF THE CHALLENGES OF BEING A DIVISION I HEAD COACH? The challenges are managing a business. There are so many moving parts. Coaching is a very small part of that in many ways. You are recruiting, you are fundraising, you are promoting your own brand. Having good assistant coaches is very important. I love the wrestling part of it; that is my favorite part. I wrestle every day with the guys. I love coaching guys at the highest level.

WHO ARE SOME DREXEL WRESTLERS TO WATCH IN THE UPCOMING SEASON? Brandon Palik is a two-time NCAA qualifier and was ranked 16th in the nation last year. He is poised to be an All-American. He has beaten a number of ranked wrestlers. Kevin Devoy Jr. had a great redshirt season. We think he has a good chance of being an All-American. And we have a heavyweight who has been plagued by injuries who is probably our best athlete on the team, Jamie Callender. It is incredible the things this kid can do.

WRESTLING IS SUCH A ONE-ON-ONE CONTEST. HOW DO YOU FOSTER TEAM CHEMISTRY? That is a challenge. It is an individual sport, and you have to treat them as individuals. Ultimately we create a team philosophy. We hold everybody accountable. That is how you create your team chemistry. When they start seeing the results it is a team effort. **[D]**



“We always set our goals high. We plan to be a Top 5 team in the conference this year.”

— Matt Azevedo

TOMMY LEONARD

Union Jeff

Soccer star Jeff Parke left the Seattle Sounders in December and is back in town with a new team (and a new baby). BY MIKE UNGER

HOME IS WHERE Jeff Parke's heart always has been—and where the rest of him is now, too.

In December, Major League Soccer's Philadelphia Union acquired the 10-year veteran from the Seattle Sounders, allowing the Downingtown native to return to the East Coast. The good news just kept on coming for Parke, a college soccer star who studied business administration at Drexel between 2000 and 2003 before leaving to play in the pros, when in January he was named for a second time to the U.S. national team.

We caught up with the 31-year-old defender in late July to discuss his homecoming, his future and the latest addition to his family.

How did you find out you had been traded?

Our little daughter Camille was born (on Dec. 6), and I was taking a break from being in the hospital. I went out and spoke to our coach, and I got a text from our owner at Seattle wishing me luck, so I knew it went down. I was ecstatic and excited.

It was a good moment for me because I had just had a little daughter and was finding out that I was coming back home.

How has fatherhood changed your perspective on life and on soccer?

It's pretty cool, man. At first it was very overwhelming; every day it's something new and something more exciting and something you cherish more. You start to realize you have a little one who is depending on you and watching your every move.

Whatever's going on in soccer is soccer. When I get home it doesn't even matter. You see how she lights up and you kind of just separate everything. If you're having a bad day, when you get home it's a great day no matter what.

How has your experience with the national team impacted you?

Any time you can represent your country and get acknowledged that you've had a good

season, it's great. Going there gives you confidence to come back to your club and play well and draw from those experiences you've gathered from playing with some of the best players. It's another personal stepping stone that you can check off.

Have you watched the national team lately? Why do you think they're playing so well?

I haven't watched much. That's one thing about being a new parent—I don't have much downtime. My time is with my wife and we spend it together watching something stupid like a reality show. I'm winding down and ready to close my eyes at 9:30 p.m. You get done training, then it's non-stop with the little one. It's a 24-hour job.

What's the overall attitude or excitement level toward soccer in Philadelphia?

They're building a great fan base here. That's really important, to grab those 15,000 to 20,000 fans who want to come to every game. They're the ones who help us keep doing what we're doing. I think the Philly people love seeing guys who want to work hard and fight and scrap, and I think that we have that kind of team. It's definitely gotten a little bit of buzz going on here in the city.

It's not like we're getting paid millions of dollars to do what we do, so I think the fans appreciate that as well.

How much longer do you plan on playing, and what's in store when your playing days are over?

I've got another three years at least, I'd say. When I'm done, I'm done. I don't think I want to coach, I don't really see that in my future. I plan on working, hopefully, with my wife's parents and doing real estate development. That excites me more—the possibility of doing something different.

Will we see you at any Drexel games this fall?

Now that I'm back, I hope to get out there and see what they've done to the complex and the program. I'll definitely get a game in. **[D]**



GREG CARROCCIO

Playing by the Book

THE GAME OF GOLF dates back to roughly the 15th century, so you'd think the rules would be settled by now. Apparently not.

As vice-chairman of the Professional Golfers' Association of America (PGA) rules committee and head golf professional at Kennett Square Golf and Country Club, Tom Carpus '83 has long

made it his business to pace the fairway, citing infractions and formulating new rules to address previously unforeseen circumstances.

"Once you start diving into the rule book, you find out very quickly that there is a lot more to it than you ever thought. Even when you become an expert, there is always something you can learn, and it is evolving all the time," said Carpus, a graduate of the LeBow College of Business.

He is one of the game's foremost experts, having excelled as a player (he was inducted into the Drexel University athletic hall of fame in 2007) before assuming the role of referee in all of golf's biggest tournaments.

We caught up with him a week before his 19th appearance at the PGA Championships, and he was calm as could be, having recently overseen the club championships at Kennett. "I'm already in the right frame of mind," he said.

A graduate of Darby High School, raised in a family of modest means, Carpus was the first in his family to go to college. He'd take the subway to West Philadelphia and work the campus golf course after classes. At that time, the school's golf program was minimal. "We would get two golf balls and six bucks for lunch and it was a blast!" he recalls. "I enjoyed the heck out of it. I wouldn't trade it for anything."

Those two balls launched a lifelong career. He went pro in 1985, and soon became an expert on the rules. He joined the PGA rules committee in 1995 and has gone on to officiate at 15 PGA Championships, the Masters Tournament and numerous other tournaments for the PGA and other major organizations. He earned PGA Master Professional status in 2004 and in 2007 won the PGA of America's Horton Smith Award at the national level.

For those who don't know the game, these are major credentials. They give him the right, for instance, to walk side by side with Tiger Woods in the nation's biggest tournaments. It sounds like an intimidating job. Who wants to argue a call with a man whose net worth is estimated at \$600 million?

It doesn't bother Carpus.

"Our job is to administer to the rules, so you remove the face, you remove the personality. We have a golf ball in a certain situation and here's what we do. Sometimes players are

Since graduating in 1983, Tom Carpus has made a life for himself on the fairway as the man who sets the rules.

BY ADAM STONE

not going to agree with you, but that's just part of the game," he said.

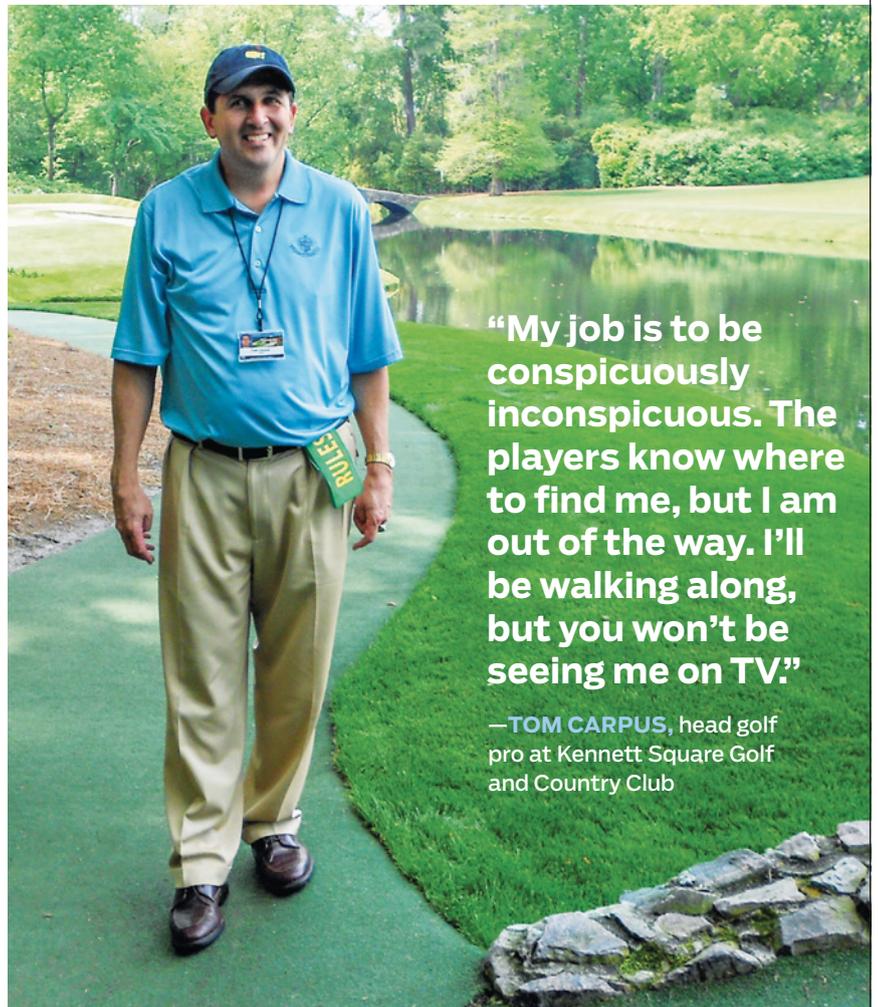
That doesn't mean it is all a walk in the park (although, literally, it sort of is).

"The hardest rulings I have made have been here at my club. These are members at a private club, they are my employers,"

he said. "So we have a committee and the whole premise is that we let the book make the rules, and not me personally. And at the end of the day, most people want to play by the rules."

Despite his high professional profile in the game, his personal profile while on the job is considerably more low-key.

"My job is to be conspicuously inconspicuous," he said. "The players know where to find me, but I am out of the way. I'll be walking along, but you won't be seeing me on TV." **[D]**

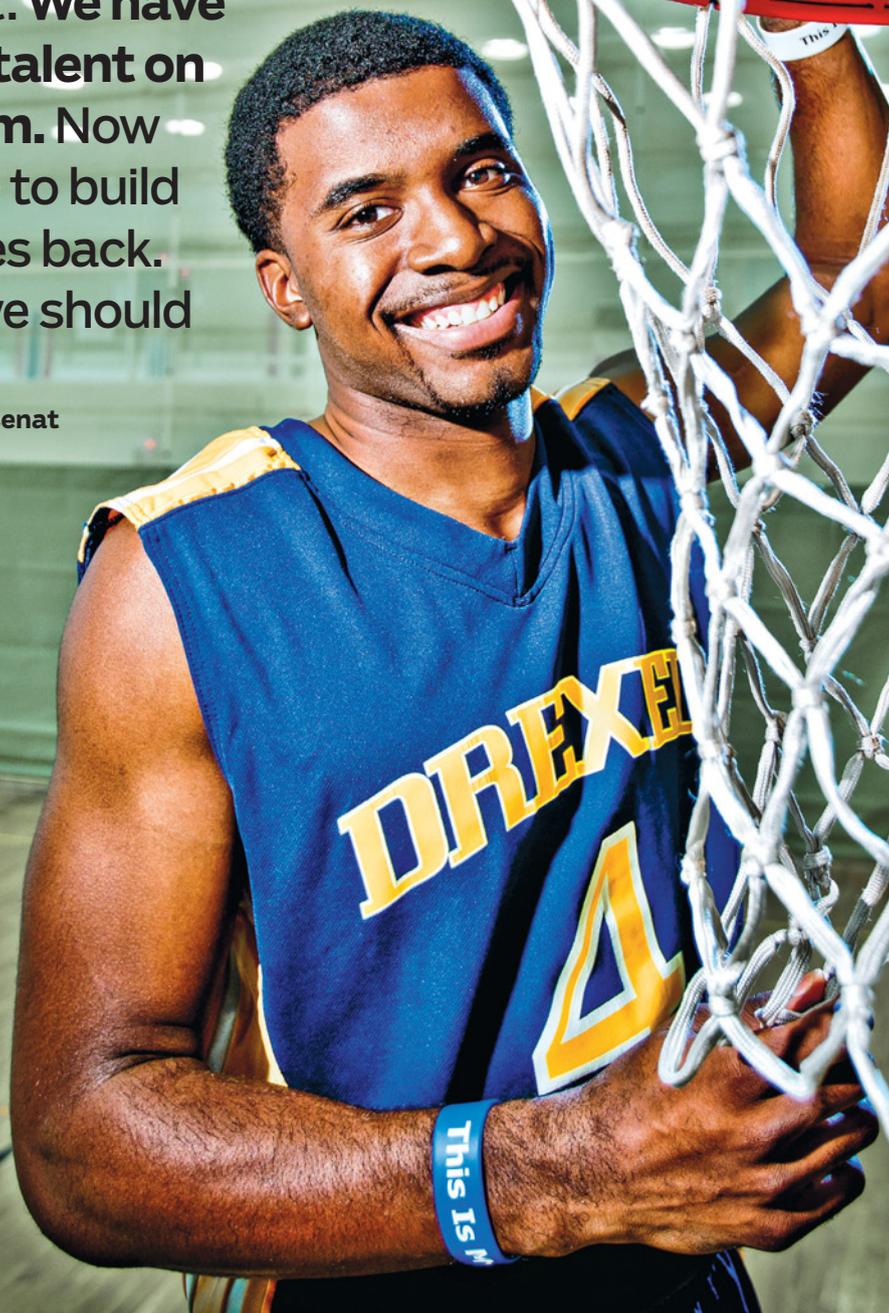


"My job is to be conspicuously inconspicuous. The players know where to find me, but I am out of the way. I'll be walking along, but you won't be seeing me on TV."

—**TOM CARPUS**, head golf pro at Kennett Square Golf and Country Club

“It is all about our mindset. We have a lot of talent on our team. Now we have to build ourselves back. I think we should be fine.”

— Frantz Massenat



TOMMY LEONARDI

Frantz Massenat aims to lead Drexel back to contender status this year

BY DAVID S. DRIVER



Drexel rising senior point guard Frantz Massenat has been playing basketball for as long as he can remember. In fact, scoring his first basket is one of his earliest memories.

He played in an outdoor league in Moody Park in Ewing, N.J., and was in kindergarten when he played in his first organized league.

"I remember it; I don't know why I do," Massenat recalls of that first two-pointer. "I was right next to the rim. I remember saying 'Yes, yes!' My dad was my coach."

The Drexel standout grew up hearing stories from his father, who is also named Frantz Massenat. His father and mother were both born in Haiti before settling in New Jersey, where their son was born.

The elder Massenat came to the United States around the age of 5 and played high school basketball and football. He bought a Fisher Price toy court for his son, who enjoyed watching "Space Jam," a 1996 sports comedy film that featured Michael Jordan.

"I would try to do the moves when I was watching," says Massenat, who was the pre-season player of the year in the Colonial Athletic Association (CAA) prior to the 2012-13 season. "I would wear my dad's shoes while I watched. When I was older, after homework was done, we would go play. We would stay out until 11 p.m. As a kid, I loved playing basketball."

Massenat was a standout at Trenton Catholic and then headed to Drexel to play for veteran coach Bruiser Flint, who was also a point guard in college.

"He is terrific. His size [at 6-foot-4] bothered us a little," Towson University basketball coach Pat Skerry said of Massenat after losing to Drexel in CAA play last year. "He was a terrific get for them out of South Jersey."

Massenat says Flint is a demanding coach. He jokes that Flint's wrath is normally reserved for his point guard, the quarterback and leader of the team.

In that win over Towson, Massenat had a career-high 25 points, made all 15 free throws and had six assists with just one turnover

after a slow start — but Flint still wasn't fully satisfied with his star guard. "I was on him because he could have done that earlier" in the game, a smiling Flint said after the win.

"The guys he is the toughest on become coaches," says Massenat, noting that former Drexel guard Bashir Mason is now the head coach at Wagner College on Staten Island.

Last season, Massenat led the Dragons in minutes played (35.5 per game) and assists (131) and was second among regulars in scoring at 14.7 per outing. But after being picked to win the CAA title in a

pre-season poll, Drexel was 13-18 overall and 9-9 in league play, good for seventh place.

"Looking back, it teaches a lot: Don't feed into the hype. Don't take too much for granted. We thought we were going to be good," he says.

Massenat believes this coming season will be different. "It is all about our mindset," he says. "We have a lot of talent on our team. Now we have to build ourselves back. I think we should be fine."

This summer he has been working on his mid-range jumper (shots 12 to 15 feet from the basket) and the mental side of being a senior leader.

Massenat wants to play pro basketball once he graduates. While the National Basketball Association is his main goal, the affable communications major (he expects to finish a BS in communications with a minor in business in 2014) is willing to go overseas to extend his career.

He was a rising freshman in the summer of 2010 when he went with the Dragons to Turkey for sightseeing and a chance to play foreign teams.

Massenat is well aware that some of his former teammates have played overseas, including Samme Givens, who has been in the Netherlands and France.

"That is my dream, to keep playing after college," he says. "I just like being around the game." [D]

a toast TO THE TASTEMAKERS



these days,

you don't need to blot your cheese-steak with a napkin to enjoy a bite to eat in Philadelphia.

It's not that good food is new to the city. Philadelphia has always been home to numerous family-favorite culinary gems tucked away in the neighborhoods the city is known for. It's just that recently, people outside the city are noticing — and it's brimming with chefs who not only train here, but stay here as well.

Lobster agnolotti prepared
by Chip Roman.

As Philadelphia's restaurant scene continues to heat up, homegrown chefs from Drexel's culinary arts program are helping to elevate the city's reputation.

BY MARIA ZANKEY



JOSHI & COLLEEN LAWLER

In the past five years, *The New York Times*, *Food & Wine* and *Travel + Leisure* have all tipped their hats to the Philly food scene for its “homegrown restaurant empires,” its “evolving palate” and its “enormously satisfying” small restaurants.

Philadelphia is a city that exalts high and low cuisine alike — as long as it’s *good*, you know? — where gourmet restaurants vie for reputation with loud gastropubs; an esteemed Iron Chef also runs a popular food truck; and small, precious plates are as popular as a chef’s eclectic donut-and-chicken combos. Like the city itself, Philadelphia’s professional kitchens are discerning but not pretentious, creative but also pragmatic.

It’s fitting, then, that Philadelphia is home to one of the first baccalaureate degrees in culinary arts — a Drexel program consisting of equal parts liberal arts, business, hospitality management and of course, culinary arts.

What makes a Drexel chef different?

“Our graduates don’t have limitations,” says Jonathan Deutsch, who has directed Drexel’s culinary arts, hospitality management and food science programs and is now the head of the newly formed Center for Hospitality and Sport Management (see “A Corner Place of Our Own” on page 34).

“[They] rise easily from cook to chef, manager or owner,” he says. “There are many great culinary programs, but Drexel’s is the only one at a research university. Too many culinary graduates find themselves unable to move beyond a cook position because they don’t have a depth of knowledge in other areas.”

The culinary arts program, bolstered by Drexel’s top-notch general education curriculum, is a standout. The program’s faculty consists of world-renowned chefs and food thought-leaders — *Philadelphia Inquirer* food critic Craig LaBan, for one — and complements valuable classroom time with a study-abroad opportunity in London and ongoing networking opportunities with

the United Kingdom’s most revered chefs. It’s one of very few culinary programs to offer full-time, for-credit fieldwork as co-op sessions. And for practicality, it offers an integrated minor in business from Drexel’s LeBow College of Business.

It’s a program that’s producing well-rounded chefs — such as Garces Group’s Natalie Maronski, Honest Tom’s Taco Shop’s Tom McCusker and David Clouser of the new fried chicken joint Wishbone — for Philadelphia gastrophiles who can appreciate a well-seasoned foie gras as easily as a hoagie with extra oregano.

In honor of the 15th anniversary this spring of the culinary arts program’s first graduating class (1999), *Drexel Magazine* spoke with some Drexel culinary alumni who are dressing dinner plates in and around Philadelphia.

The Team Players

IN 1999, JOSH AND COLLEEN LAWLER were two jetlagged Drexel students exiting a plane from Philadelphia to London.

“If you think I’m helping you carry those bags, you’re nuts,” Josh said to his then-platonic friend, Colleen, at the airport.

But in the six months the two spent studying abroad, they learned a little bit about teamwork — and fell in love along the way.

Today, the 2001 Drexel graduates — a BS in culinary arts for Colleen and a BS in hospitality management for Josh — are successful partners in both life and business. They manage not only their wildly popular farm-to-table Philadelphia BYO near Washington Square, The Farm and Fisherman, but also 3-year-old twin boys and a newborn daughter.

“We’re very busy. It’s extremely hard, and you get angry sometimes, but to have someone who trusts you and who believes in you working to hold together the same things you care about outweighs any of the downsides,” Josh says of sharing a business with his wife.

Both say they were given a solid foundation at Drexel to make it work.

“So many chefs spend their whole lives in the kitchen,” says Josh, a native of Conshohocken, Pa. “Having more than just a culinary degree made me more well-rounded. Not only did we learn how to cook, but we learned how to appreciate the art of it, how to run a business, the finances, how to manage people.”

“Learning about business — especially management — was a big part of the education,” Colleen says. “It can be hard to deal with people on the spot. I learned that dealing with people is not as cut and dry as it is in the kitchen, and that you have to be flexible.”

These days, at The Farm and Fisherman, Josh runs the kitchen while

WHAT IS YOUR FAVORITE PLACE
TO TAKE THE KIDS FOR DINNER?

“Han Dynasty.”

They usually get the lo mein, but
they will eat the scallion pancakes
and spicy cucumbers, too.”

— COLLEEN LAWLER



CHIP ROMAN
SONIA SHERWOOD

WHERE DO YOU LIKE TO EAT IN THE CITY?

“Any of the ethnic restaurants around the city, like the Vietnamese places on Washington Avenue. Also,

Pat’s and Geno’s.”

—CHIP ROMAN

Colleen runs the front of the house. The duo is now expanding on the restaurant’s success with plans to open a family-friendly offshoot, The Farm and Fisherman Tavern & Market, in Cherry Hill, N.J., where they recently bought a house.

“I love the teamwork aspect of it,” Colleen says. “It can be stressful, but it’s a good stress that gets things done.”

The two have been in the restaurant game together since graduating from Drexel. They spent a few years working their way through the restaurants of New York City, with Colleen dabbling in cuisines varying from French to Mediterranean to Asian fusion while Josh honed his skills in farm-to-table cuisine. After the birth of their twin sons, they decided to return to Philadelphia.

“There wasn’t much to lose. We didn’t have a house or a car pay-

ment, and the restaurant seemed like a good option for us. It was time to return home,” says Colleen, originally from Winslow, N.J. “For me, this is what I’ve always wanted to do. It needs to be in your heart, because it’s not an easy job, and it becomes harder when you have a family.”

The Multitasker

AT 33, CHARLES “CHIP” ROMAN is young in years, and young at heart.

“My food philosophy still changes every few weeks,” says Roman, BS ’02.

But with three nationally lauded restaurants and a catering com-



Cook with Chip Roman at drexelmagazine.org.

pany, you can hardly call Roman fresh meat.

Roman's seafood-centric Blackfish in Conshohocken was named "Best Restaurant" in *Philadelphia Magazine's* 2011 "50 Best Restaurants" edition. The soft, refined Mica in the Chestnut Hill section of Philadelphia received a gushing, "three bells" review from *Philadelphia Inquirer* food critic Craig LaBan. And Ela, the Queen Village restaurant Roman leads with Chef Jason Cichonski (a season 11 "Top Chef" contender), was touted by *Zagat* as an inventive spot that's "wowing everyone." And the empire keeps growing. Most recently, Roman opened a choco-

late shop next door to Blackfish called Tradestone Confections with pastry chef Fred Ortega.

Roman credits his commercial success to business savvy, a valuable network and a lot of hard work — all of which he says were instilled in him at Drexel.

"There are a lot of culinary schools out there, but Drexel's was well-rounded, and a lot of what I took away from it was dealing with the business end of things," Roman says, noting he picked up valuable skills in finance and management. "Business was something I struggled with, and [I] wound up focusing on that while in school."

continued on page 34

Destination Dining

While many Drexel chefs settle in Philadelphia, massively talented Dragons have starring roles in restaurants across the United States, from the boardwalk of Atlantic City to the San Francisco Bay. *Drexel Magazine* caught up with two of them: Celina Tio, a James Beard Award winner and seasoned Food Network chef who's battled Michael Symon on "Iron Chef America" and competed in the network's "Next Food Network Star," and Kam Golightly, a *Food & Wine*-recognized pastry chef rising through the ranks of the California dining scene. — MARIA ZANKEY



CAMERON GEE

Celina Tio



Kam Golightly

CELINA TIO

Chef and Owner, JULIAN and Collection
Kansas City, Mo.

WHAT I CAN THANK DREXEL FOR: Most of my classes have prepared me for being a business owner. I do all of my own bookkeeping and pretty much control every single aspect of my business.

WHAT I MISS ABOUT PHILLY: Monk's. I like my beer, too.

MY SIGNATURE DISH: Anything I do with my house-cured and smoked salmon.

MY MOST MEMORABLE CAREER MOMENT: Having lunch with Julia Child.

IN 10 YEARS DOWN THE ROAD: I'll be continuing to learn new things, and creating new experiences for my guests in as many restaurants as I can handle.

KAM GOLIGHTLY

Executive Pastry Chef, Oliveto Cafe and Restaurant
Oakland, Calif.

WHAT I CAN THANK DREXEL FOR: Drexel helped me build a strong foundation to rest my career on. It gave me the confidence to strive for a job in a Michelin-rated restaurant straight out of culinary school.

WHAT I MISS ABOUT PHILLY: I loved the program at Drexel!

MY SIGNATURE DISH: Butterscotch budino. It's a thick, rich and salty butterscotch pudding. I top it with white vanilla shortbread crumble, pretzel pieces, toffee bits and vanilla anglaise foam. It's like a party of textures in your mouth.

MY MOST MEMORABLE CAREER MOMENT: Being selected by *Food & Wine* magazine as one of the People's Best New Pastry Chefs of 2012. The competition was fierce, and though I didn't take the title to be recognized, it was an unforgettable moment.

IN 10 YEARS DOWN THE ROAD: I would love to be teaching. It seems right to return to Drexel, my alma mater, if the opportunity ever arose.



WHAT'S YOUR FAVORITE MEAL?

“Pizza.”

Currently from Bufad
on Spring Garden
Street.”

—KRZYSZTOF BABIK

KRZYSZTOF BABIK

TOMMY LEONARDI

continued from page 32

Outside of the classroom, the Fishtown native spent his years at Drexel working out of Taco Lou's food truck in Powelton Village. When a fellow brother in the Epsilon Kappa chapter of the Lambda Chi Alpha fraternity heard Roman was in the culinary arts program, Roman was referred to his first big job as a cook — with internationally applauded chef and Drexel LeBow College of Business alumnus Marc Vetri, marketing and finance BS '90, at his namesake restaurant, Vetri.

"I was able to make some crafty connections," says Roman, who went on from Vetri to work with superstar chefs such as Georges Perrier of Le Bec-Fin and Daniel Stern of R2L Restaurant. "I learned to be thoughtful and creative [...] not to change for the sake of change — only if it's for something better."

Not only that, but Roman says it was during those early years at Drexel he learned that to survive and thrive in the food world,

it was necessary to put in your time at the bottom of the culinary food chain.

"For the first five years, don't worry about the money and keep your mouth shut," Roman says. "Your schooling is your foundation. And in the culinary world, it's just the beginning of a career's worth of training."

The Freshman

KRZYSZTOF BABIK has come a long way from learning how to properly hold a knife — and in a very short amount of time.

Since his first days fumbling in a professional kitchen during high school at Cork in Haddonfield, N.J., Babik, culinary arts BS '11, has worked his way up the ranks to become the chef at ZINC, a Parisian-style bar and restaurant in midtown owned by acclaimed chef Olivier Desaintmartin — all within two years of graduating from Drexel's culinary arts program.

The alumnus landed at ZINC fresh out of school, working as a cook. When a new chef came on board, Babik was promoted to sous-chef. After a year, the new chef moved on to a new opportunity, leaving ZINC's chef spot in the hands of Babik.

"It was crazy, to suddenly be in charge of everything," Babik says.

His first order of business was to rethink the menu, with a focus on cultivating four or five house-made items, including charcuterie, bread and condiments.

"I wanted to scale down the menu while adding layers of complexity to some of the dishes, still keeping it as classically French as possible," Babik says. "I love comfort food and want to make things that will make people think of childhood — with just a little twist, something that makes it a little different."

Babik says it was the faculty at Drexel — like professor and food journalist Edward Bottone — that helped him earn the confidence to take big risks in such a big role.

"My professors at Drexel weren't so cut-and-dry; they let you experiment," Babik says. "They let you just go with it — make mistakes, but then turn around and learn from them."

Babik remembers the S. Pellegrino Almost Famous Chef Competition, where he was the favorite to take home the gold. The hype got the best of him, and Babik left the competition without taking the prize.

"Professor Bottone told me how important it was to stay humble," Babik says. "I'll never forget that now."

Throughout the college search, Babik's first-choice school was the Culinary Institute of America in upstate New York. He applied and, to his surprise, he was accepted.

But when he accompanied a friend to an open house at Drexel, his culinary school plans were turned upside-down.

"Here I was, just because my friend didn't want to go to the visit alone," Babik says. "At the time I didn't even know Drexel had a culinary program. But as I was there, I saw what a small program it was, and how very personal it was. I saw that they weren't just a school churning out people who could cook. They were cultivating chefs. That was the kind of education I wanted, and that was the education I got." **[D]**

A Corner Place of Our Own

The Center for Hospitality and Sport Management opens for business.

Let's put it in restaurant terms: After 15 years on the line in a big kitchen, Drexel's culinary arts program and its closest colleagues are finally getting their own spot.

October saw the launch of Drexel's Center for Hospitality and Sport Management, a new academic unit reporting directly to the provost and housing culinary arts and food science, hospitality management and sport management. The three programs were previously part of Goodwin College, which Drexel is retooling to play a bigger role in serving the University's online students.

The new center benefits from its connections with Philadelphia's burgeoning hospitality industry, which the city estimates employs 56,000 people and generates \$26 million in economic impact each day. "Taken together, our programs support Philadelphia's largest industry and leading economic driver," said Jonathan Deutsch, who will head the center and run the culinary arts and food science program. "Drexel can offer unparalleled experiential learning opportunities for students, serve as an event and program hub for industry professionals and conduct research that improves the ways we do business."

They say each generation paves the way for the next. In the case of the first generation of Drexel culinary arts graduates, they helped pave the way for the Center for Hospitality and Sport Management, and potentially for a new Drexel college or school down the road.

— Mark Eggerts



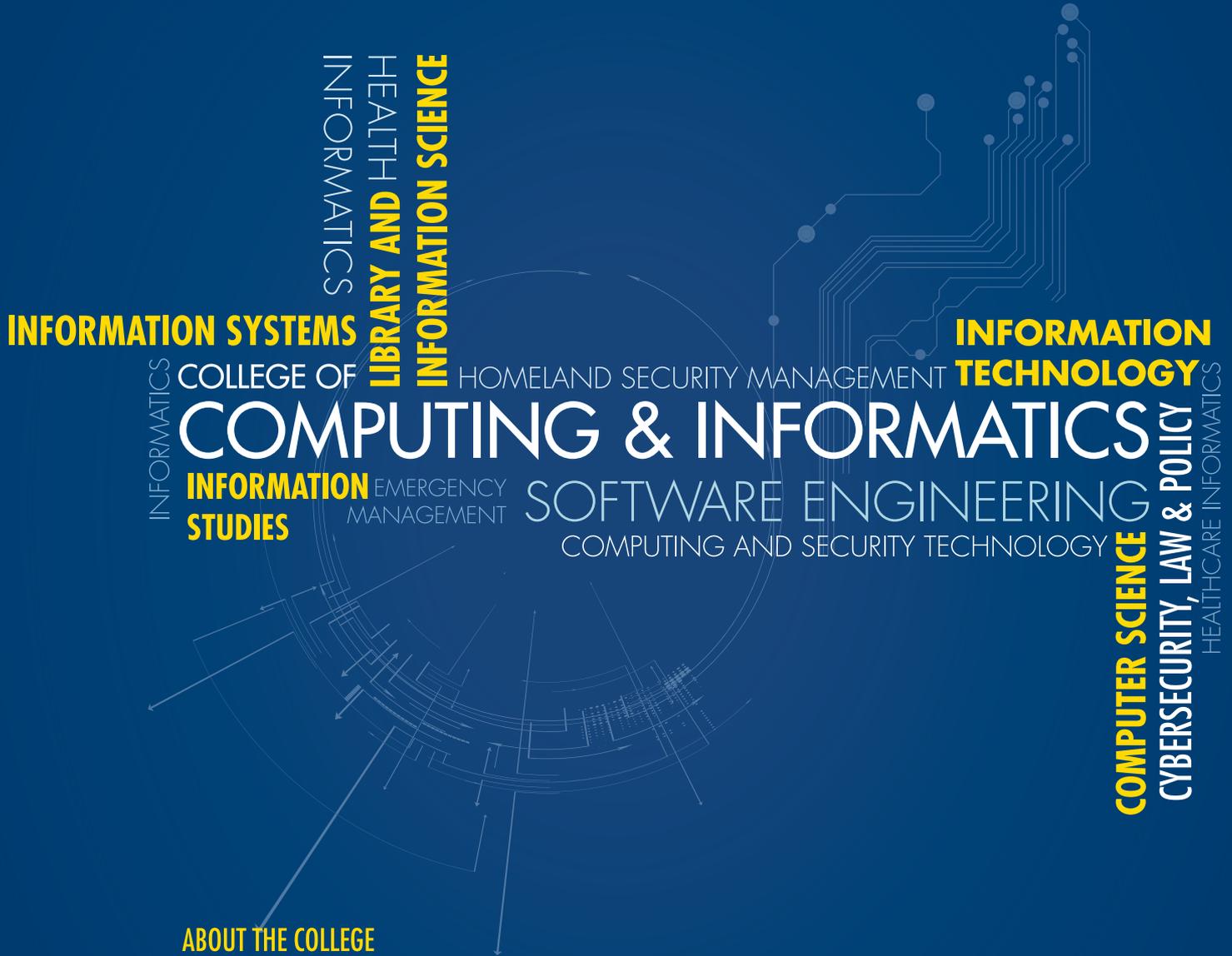
Introducing **Drexel University's** Newest College



DREXEL UNIVERSITY

College of

Computing & Informatics



ABOUT THE COLLEGE

The College of Computing & Informatics (CCI) will serve as a central hub for multi-disciplinary computing and informatics activities by uniting faculty, professional staff and students from the iSchool, College of Information Science & Technology, the Department of Computer Science in the College of Engineering, and the Computing and Security Technology Program in Goodwin College of Professional Studies.

CCI is the focal point for Drexel's computing and information research and education. Addressing the national demand for graduates in computing and data science, the College will educate students in the vastly growing fields of computing and informatics through multi-disciplinary subjects.

drexel.edu/cci

RIPE FOR STUDY

As more states legalize marijuana for medical use, a Drexel researcher will be among the first to conduct a large-scale, federally funded investigation of the drug's role — good or bad — in public health.

BY BRIAN M. SCHLETER





If California is the cradle of the medical marijuana movement, then Venice Beach might be where it reached maturity — and some would say, where it ran wild.

Known for its eclectic mix of tattoo parlors, street performers and surf shops, the bohemian Los Angeles neighborhood has long been home to the city's younger creative and artistic crowds. But the boardwalk culture took on a new vibe after California became the first state to pass a medical marijuana law in 1996. Today, the strip is home to several pipe stores and marijuana dispensaries like The Venice Beach Care Center, Nile Collective and Green Cure Venice, where “budtenders” and “budistas” offer menus of buds for clientele carrying a California doctor’s recommendation for medical marijuana.

Most sell a smorgasbord of marijuana-infused edible products like brownies and cookies, but also juices, olive oils and beef jerky infused with THC, marijuana's mind-altering ingredient.

Drexel sociologist and School of Public Health Associate Professor Stephen Lankenau was living and working in Los Angeles in 2007 when the rapid growth in dispensaries — from four in 2005 to 186 two years later — motivated the city to impose a moratorium while it developed regulations. Entrepreneurs quickly took advantage of loopholes in the moratorium, which was never enforced, and over the next several years, the number of dispensaries in the city exploded — up to 1,000 by some estimates.

"They became as common as Starbucks," Lankenau says.

Editor's Note: In May, residents passed a bill calling for the closure of all dispensaries that had opened since the 2007 moratorium, which is intended to bring down the number of dispensaries to less than 140.

The number of medical conditions that qualify for marijuana treatment also exploded. Though the initial law focused on chronic health conditions like cancer and glaucoma, later changes permitted psychological conditions like insomnia and anxiety. According to one physician's survey, California doctors have recommended medical marijuana for more than 215 conditions.

Lankenau knew the large number of medical marijuana dispensaries in the city and its diverse population of young adults made Los Angeles fertile ground for a scientific study.

"We started to see a lot of young adults getting recommendations for these conditions," Lankenau recalls. "That should raise some red flags as to whether there might be some primarily recreational users mixed in with legitimate medical users. I wanted to look into that."

An unstudied area

Lankenau recently got his wish.

The National Institute on Drug Abuse, part of the National Institutes of Health, has granted Lankenau \$3.3 million over five years to conduct a study of medical marijuana use among young adults. Working with co-investigator Ellen Iverson at Children's Hospital Los Angeles, Lankenau's team will enroll 380 marijuana users this fall and expects to complete baseline interviews and surveys by early 2014. Half of the cohort will be qualified medical marijuana patients and half will be recreational users. Participants will complete annual follow-up interviews for three years.

It will be the country's first large-scale federally funded case study of medical marijuana use among 18- to 26-year-olds.

NIH research grants — particularly the large and lucrative R01 grant type awarded to Lankenau — to study medical marijuana aren't easy to come by. Possession and distribution of marijuana is still illegal under federal law, and despite supportive statements from President Obama, under his administration the Drug Enforcement Agency has stepped up raids of medical marijuana dispensaries in states where licensing guidelines are unclear.

A search of medical marijuana studies in NIH Reporter, the agency's database of the research it funds, turns up just 15 active studies nationwide, and only about half of those deal with population behavior similar to Lankenau's.

"It's a controversial topic," Lankenau says.

Lankenau's interest in the relationship between medical marijuana and young people stems from his dissertation research on homeless panhandlers in Washington, D.C., where he saw firsthand how drug and alcohol problems affected the health of a vulnerable population. Later, as a postdoctoral fellow, he focused his work on substance use and HIV/AIDS.

"It became clear to me that substance use was at the heart of a whole

A long, strange trip

Timeline of recent medical marijuana laws in Los Angeles and California



1992 Medical marijuana is approved in a few California cities including Santa Cruz.

1996 California voters pass Proposition 215 (the Compassionate Use Act), which allows medical marijuana to be dispensed to patients with a doctor's recommendation.

2003 Senate Bill 420 (the Medical Marijuana Program Act) is written into law to clarify the scope and application of the Compassionate Use Act of 1996. It paves the way for a voluntary statewide medical marijuana identification card program.

2005 Los Angeles has four known marijuana dispensaries, in Hancock Park, Van Nuys, Rancho Park and Cheviot Hills.

2007 Concerned by a 2,350 percent increase in the number of medical marijuana dispensaries in Los Angeles during an approximately one-year period, the City Council establishes a moratorium on new medical marijuana storefronts on Aug. 1 and places restrictions on hours of operation and their proximity to schools, churches, parks and other dispensaries.



MICHAEL BRANSCOM

“What we’re really trying to find out is, is this a good policy for young adults? Does it seem to result in improved health overall, or does it have unintended consequences that may give pause to other states?”

—STEPHEN LANKENAU

range of social and public health problems — sometimes the cause and sometimes the effect — such as poverty, violence, disease, social justice, psychological and physical well-being,” he says. “Substance use is a very dynamic field for research.”

Most of the studies done on medical marijuana to date have focused solely on quantifying whether illegal marijuana use goes up or down in states after they pass medical marijuana legislation. Those studies have typically been smaller in scale, or involve secondary analysis of survey data without direct recruitment of medical marijuana-using subjects.

The federal stance on funding medical marijuana research has softened as the number of states that permit and regulate medical marijuana sales and use has continued to grow. So far, 20 states plus the District of Columbia have passed medical marijuana laws, and this past November, voters in Colorado and Washington (where marijuana for medical use

2008 California Attorney General Jerry Brown issues a directive of guidelines for medical marijuana cooperatives including that they sell only to legitimate patients, operate as nonprofits, and only buy [marijuana] from fellow cooperative members.

2009 Federal officials announce that they will no longer try to block medical marijuana distribution and use in California.

January 2010 The Los Angeles City Council, without debate, approves an ordinance to shut down hundreds of medical marijuana dispensaries and impose strict rules on the operation and locations of cannabis clubs, shops and collectives. The ordinance caps the number of dispensaries at 70 (with the exception of those registered with the city in 2007).

2012 The Los Angeles City Council banned all marijuana dispensaries, only to repeal the ban amid opposition.

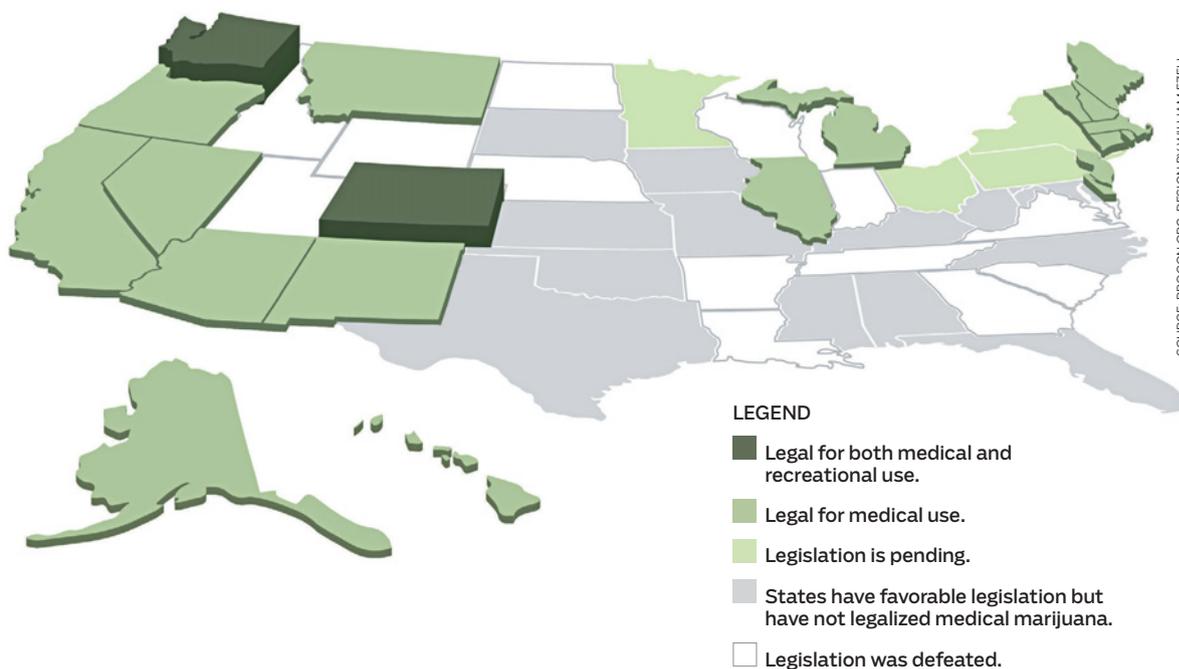
May 6, 2013: The California Supreme Court rules that local governments can ban marijuana dispensaries, the *Los Angeles Times* reports.

May 21, 2013 By a margin of nearly 63 percent, Los Angeles voters pass Proposition D, which aims to cap medical marijuana dispensaries to 135, forcing more than 1,000 shops that don’t meet the new legal qualifications to close.

Source: Timeline reprinted with permission from Shana Ting Lipton, About.com (exception: the May 6 entry was sourced from the *Los Angeles Times*).

Lighting Up by Law

Call it reefer madness, or call it the arrival of a sane public health policy at last—depending on your viewpoint. In 2013, lawmakers filed bills in 30 states and Washington, D.C., favorable to marijuana possession for personal or medical use. Two states, Illinois and New Hampshire, effectively legalized medical marijuana this year, bringing the total to 20 states and the nation's capital where medical marijuana is legal. In addition, both Colorado and Washington passed laws legalizing recreational marijuana in last November's election. Legislatures in four additional states, including Pennsylvania, are considering bills that would legalize medical marijuana.



SOURCE: PROCON.ORG. DESIGN BY WILLIAM EZELL

was already legal) passed initiatives that legalized marijuana for recreational use. Bills that would allow medical marijuana are pending in four other states, including Pennsylvania.

The timing is ripe for more research.

Starting this fall, Lankenau's team will recruit study participants by "hanging out" in areas like Venice Beach that have a large number of dispensaries. Participants receive \$25 as an incentive to give the initial interview.

"It takes a little finesse and experience to do it in a way that makes the person comfortable talking about their drug use," Lankenau says.

Lankenau's collaborator, Ellen Iverson, says the age group targeted by the study is important because marijuana use (medical or illicit) typically peaks between ages 19 to 21.

"These often are the most vulnerable times of their lives — years when developmentally they are making significant, culturally adult-oriented decisions about their lives and their identities are very much in flux," Iverson says. "There really hasn't been a body of strong, rigorous evidence that looks at how young people make decisions about marijuana use. Here's an opportunity to learn what kinds of issues they are using marijuana for and, especially as policy is being formulated and evolving, to understand how it affects [them]."

A better understanding of why young people turn to the drug could help better inform policies on medical marijuana, she says.

"What we're really trying to find out is, is this a good policy for young adults?" Lankenau says. "Does it seem to result in improved health overall, or does it have unintended consequences that may give pause to other states? Or should it be scaled back somehow?"

Smoking out the facts

One hypothesis that Lankenau and his team want to test is the so-called "gateway theory" that marijuana users go on to use harder, more addictive drugs.

"It's true that most people who use hard drugs like cocaine and heroin have used marijuana, [but] most people who have smoked marijuana don't go on to use harder drugs," Lankenau says. "There's not really a lot of data that validates or supports that theory, but it's sort of well out there in the popular imagination that one of the risks of marijuana is it can lead to harder drug use."

In fact, Lankenau suspects the reverse may be true.

The idea that medical marijuana may potentially offer a protective effect against other drug use grew out of another large-scale study funded by the National Institute on Drug Abuse that he conducted at Children's Hospital Los Angeles. The study was focused on prescription drug abuse in young adults, but participants were asked if they used medical marijuana or smoked it recreationally. The team found generally lower rates of drug use overall with medical marijuana patients compared with recreational marijuana users.

A separate study along the same lines by a colleague in the Netherlands showed hard drug users were more likely to "step off" using those substances once marijuana use was decriminalized.

"It's sort of turning the 'gateway model' on its head a little," Lankenau says.

Researchers will also seek to gauge whether young medical marijuana patients experience an overall improvement in physical and psychological health. Study participants will be asked a series of questions about the basis for their marijuana treatment recommendation and their medical

history to discern whether they are, in fact, getting the prescription for legitimate purposes. They'll also be asked about previously diagnosed conditions and what type of experience participants had using other drugs prescribed for it.

"Maybe they got a prescription for them, but those prescriptions didn't seem to work the way they wanted or it didn't result in the level of improved health that they desired," Lankenau says. "Is [medical marijuana] effective in terms of improving physical or psychological health?"

A third component of the study will look at the dispensaries to see how they're set up, how they service patients and what, if any, impact they have on emerging adults in their communities.

"Is there enough regulation? Are staff trained adequately to provide [health] information?" Lankenau says.

The findings on this issue could have the most impact for other states grappling with how to regulate the sale and distribution of medical marijuana. In Los Angeles, dispensaries became a lightning rod for controversy. When dispensaries started opening in neighborhoods across the city, residents blamed them for increased crime and noise. They pressured city officials to step up enforcement and shutter those that were operating illegally.

Since 2008, police conducting raids of illegal marijuana businesses have made more than 74 arrests citywide. More than \$2 million in cash has been seized, as well as assault weapons, nine kilograms of cocaine, and large amounts of other illegal drugs, according to Los Angeles City Council member Mitchell Englander, a reserve police officer who also chairs the council's public safety committee. In his 12th Council district, he's worked with city administrators to shutter more than 60 dispensaries he says were operating illegally.

"I know firsthand about the crime and other negative impacts on our neighborhoods that the illegal storefront marijuana stores have had," says Englander. "When California voters approved the Compassionate Use Act of 1996 legalizing medical marijuana, it is likely that they had clinics or pharmacies in mind, serving people with chronic debilitating illnesses, rather than the nearly 1,000 storefront marijuana stores that sprang up across Los Angeles."

"Based on what we find, we could have recommendations on whether dispensaries are a good model for distribution," says Lankenau.

A patchwork of policies

Across the country, thousands of licensed physicians have recommended medical marijuana to at least 600,000 patients in states with medical marijuana laws, and the rate of legalization has outpaced policymakers' grasp of the long-term consequences of widespread availability of marijuana.

The emergence of marijuana into mainstream medical usage traces back to 1982 when the National Academy of Sciences' Institute of Medicine confirmed the "therapeutic potential" of marijuana. More recently, 76 percent of 1,446 physicians polled in the *New England Journal of Medicine* said they would prescribe marijuana to treat pain from cancer. And in August, influential CNN chief medical correspondent Sanjay

"There really hasn't been a body of strong, rigorous evidence that looks at how young people make decisions about marijuana use. Here's an opportunity to learn what kinds of issues are they using marijuana for and, especially as policy is being formulated and evolving, to understand how it affects [them]."

—ELLEN IVERSON

Gupta, MD, reversed his long-held position on the issue, concluding, "Sometimes marijuana is the only thing that works."

California became the first state to sanction medical marijuana use when voters adopted the Compassionate Use Act of 1996. Since then, the state and localities there and in other states have struggled to balance the desire of patients to have safe, easy access to the drug with a public safety interest in curbing potential exploitation of the system by recreational users or criminals. In the latest development, California's Supreme Court held in May that dispensaries were legal but could be banned by local governments.

More than 3,000 miles away from Venice Beach in New Jersey, the issue isn't whether there are too many dispensaries, but whether the state should loosen its restrictive medical marijuana law to make it easier for more dispensaries to open. New Jersey permitted the sale and use of a limited number of strains of medical marijuana three years ago, but so far only one dispensary has opened.

Other states are trying to find the middle ground between the approaches taken in California and New Jersey. In Illinois, the most recent state to pass medical marijuana legislation, the bill's chief architect and backer, Democratic Rep. Lou Lang, boasted at a bill signing ceremony that the law was "the most controlled and highly regulated bill in the country." Illinois limits the number of cultivation centers to 22 and only allows for 60 dispensaries across the state, but it's unclear how those numbers were selected.

In August, Attorney General Eric Holder announced that the Department of Justice would not seek to prosecute individual users and those who work in the industry in states that have legalized the drug for personal or medical use as long as states "implement strong and effective regulatory and enforcement systems" — a signal that the federal stance is softening further, but also a warning that the DOJ reserves the right to intervene if states don't go far enough to protect public health and safety.

"It's an emerging trend around the country to pass this kind of law," Lankenau says. "We hope the findings from our study may help inform other policies around the country as to whether this is a wise policy or whether it's something that should be given further consideration." [D]

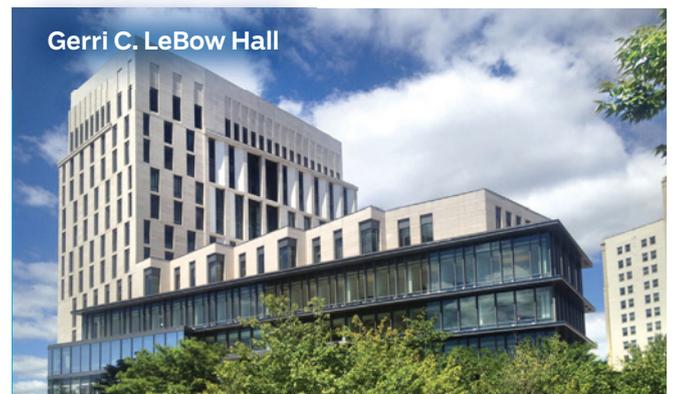
building the future

University City Campus has been alive with construction over the past year as new buildings rise and others get much-needed facelifts — with a number of major projects finishing this fall. Don't get lost on your next visit. Here's your guide to what's new and what's coming soon.



Lancaster Avenue & 34th Street Development

◀ In late summer, Drexel began decommissioning the site of the Frederic O. Hess Laboratory at the intersection of 34th Street and Lancaster Avenue in preparation for the fall groundbreaking of a stunning new mixed-use, 24-story building that will house market-rate residences, a 16,000-square-foot dining hall and 20,000 square feet of retail and restaurants. The \$168 million project will be the biggest on campus and will expand the number of University beds by more than 1,300 when it opens in fall 2015.



Gerri C. LeBow Hall

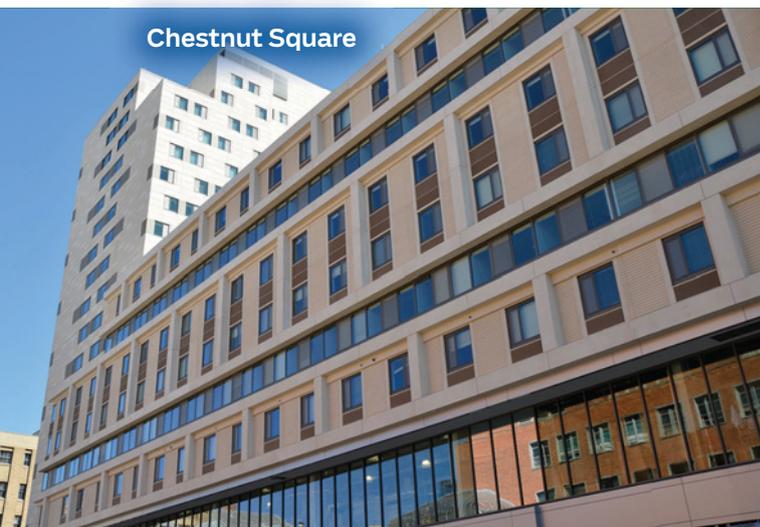
▲ The impressive new home of LeBow College of Business celebrated its grand opening nine months ahead of schedule on Oct. 3 with Bennett LeBow and Gov. Tom Corbett in attendance. Students got their first glimpse of the modern, fully wired space in September, when the first six floors opened for classes. Office space for administrators and professors will open in December. And, yes, there's a Starbucks (full service, no less).

Perelman Plaza



▲ This summer, builders demolished concrete abutments in Perelman Plaza to make way for an elegant, tree-lined outdoor social gathering space connecting the LeBow building with new residences and retail at Chestnut Square. The first phase will create a new 750-person seating area between Bossone Research Enterprise Center and the Paul Peck Center that will be Drexel's first large outdoor event space. The remainder of the renovations will be complete by spring.

Chestnut Square



▲ The \$97 million, 19-story residence hall — privately operated by American Campus Communities — opened for students in September, with another two stories of street-level retail space opening throughout the fall. Storefronts include the burger phenom Shake Shack, Joe Coffee, Italian frozen yogurt and gelato vendor Yogorino, pizzeria wine bar Zavino, sushi restaurant coZara, Plaza Artist Materials and Picture Framing, Franklin Mint Federal Credit Union, and the Barnes & Noble bookstore.

Creese / MacAlister Courtyard



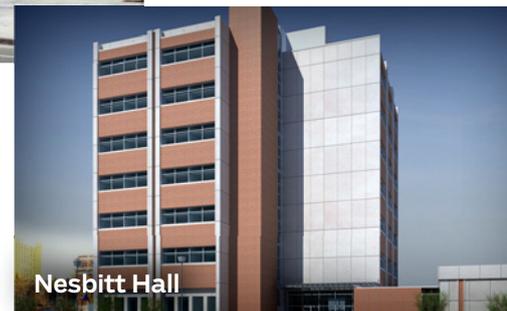
◀ The student dining center has a new, cylindrical glass courtyard entrance rebuilt by Spring Garden Construction and there is an adjoining new vegetarian café, Vegetate.

Stratton Hall



▲ Renovations to the '50s-era building made it possible to consolidate the Department of Psychology here in September. Previously, the nationally ranked department was split among three separate buildings.

Nesbitt Hall



▲ Drexel's School of Public Health is getting a new dean and a new home on the freshly renovated floors two through seven of Nesbitt Hall in December, with renovation of the 328-seat auditorium on the main floor coming next summer. The building will feature Drexel's first private room designed for nursing mothers.



Audacious Ideas



A device that communicates by scent. Countertops that can detect harmful contaminants in food. A bed that automatically nudges a snoring partner onto his side. This past summer, six graduate students pursuing master's degrees in the Interior Design and Architecture program in the Westphal College of Media Arts & Design proposed these and more futuristic concepts as part of a residency in Drexel's Design Futures Lab, a design research group led by Assistant Professor Nicole Koltick. Each exhibitor was challenged to use multidisciplinary research to bring to life innovative ideas that could, in theory, solve the everyday problems of five to 10 years from now. "We didn't want to speculate on things that were totally out there," Koltick says. "The technology has to be more current and emerging. It's the way the students pull together the threads of their case studies and their research that contributes more to the audacity of the idea." Full-scale prototypes of each project were displayed at the Leonard Pearlstein Gallery in the URBN Center Annex in July.

EDITED BY SCOTT PRUDEN

PHOTOGRAPHY BY JEFF FUSCO

MEMORY PROSTHETIC

Memories can be fleeting, unreliable and sometimes entirely inaccurate. In her exhibit, Sarah Moores proposes a wearable recording device that responds to dramatic physiological responses by documenting the period of time when those changes are occurring. The wearable system is paired with a one-person pod that replays the recorded audio via a Bluetooth connection, allowing the user to relax and reflect upon the events documented—things that might include missed information, conversations, unusual circumstances and unexpected moments. Moores believes such a system will "improve our sense of well being by allowing us to be more aware of those things leading to emotional, physiological and psychological reactions," subsequently improving attention and fostering better long-term organic memories.



Assistant Professor Nicole Koltick runs the Design Futures Lab.



“I see technology becoming more integrated with our physiological systems, allowing us to maintain a healthy life by making us more aware of ourselves and our environments.”

— Sarah Moores



Tour the exhibit by video at drexelmagazine.org.

“Soon our clothing will become part of our networked self, able to send and receive information about our bodies and the environment. ‘Deviant Wear’ explores how this technology gives us new opportunities for self expression and customization of our physical and virtual world.” — *Kim Brown*



DEVIANT WEAR

Kim Brown combined wearable technology, environmental sensors and “sensory graffiti” to guide walkers to urban areas off the beaten path. A hoodie or jacket embedded with haptic feedback devices vibrates and heats a right or left sleeve to guide users to a wireless beacon embedded in wheat paste graphics (depicted on the opening page) placed in out-of-the-way urban locations. Brown used the abandoned Ninth National Bank and Industrial Trust Savings Co. at 1942-1958 N. Front St. in Philadelphia’s Kensington neighborhood as the test site for the project. Once the walker is within proximity of the graphic, the beacon triggers an audio signal that is then transmitted via Bluetooth and played through speakers embedded in the garment’s collar or hood.

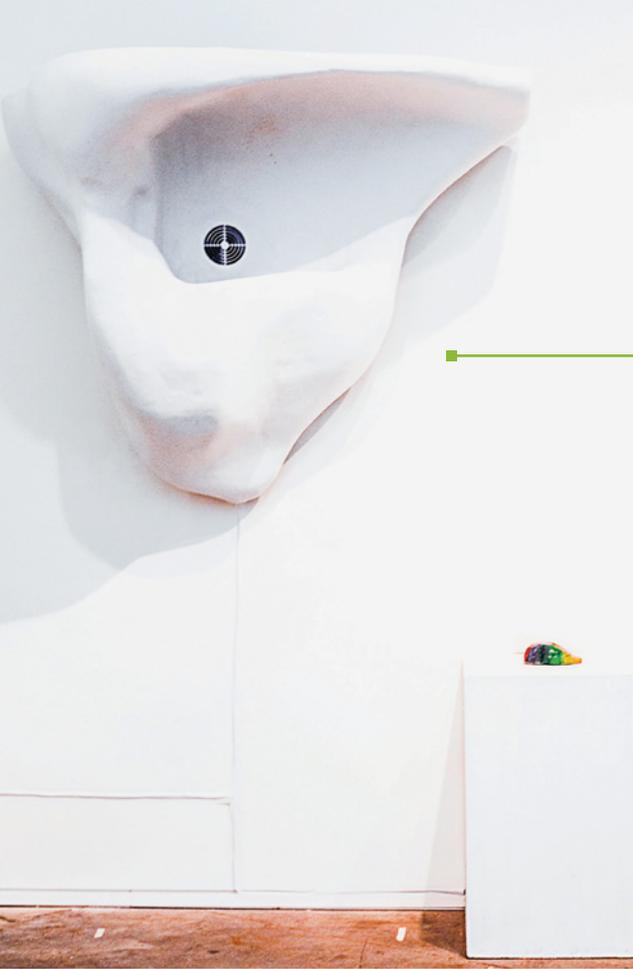
SCULPTED INTERACTIVE TERRAIN

Biofeedback mechanisms allow this specially designed bed by Katie McHugh to dramatically respond to a sleeping person’s movements, positions and nighttime habits. Using information from sensors embedded in a silicone surface layer, internal pillars raise and lower, allowing the bed to alter its shape to accommodate changes in sleep patterns and sleeper behavior. For example, if a member of a couple is talking in her sleep, the bed can change shape to roll her away from her partner. Imagine also the bed’s potential to protect small children against sleeping hazards such as Sudden Infant Death Syndrome by detecting breathing difficulties, then automatically rolling a child into a safer position and alerting parents.

TECHNOLOGY AT THE THRESHOLD

In a world of pervasive technology, Megan Mitchell’s giant seashell represents a transitory space between the overly digitized “global” environment and domestic life. This redesigned home entryway allows users to experience four sensory stages designed to provide a refreshing experience that re-oriens them to the present time and life in the home. Upon entering, a user is greeted with slowly brightening ambient light that shifts to a warmer shade based on the number of people in the home. After passing through a refreshing air wash of cleansing oxygen, the individual can then take a seat, initiating a “network phase break” that cuts off all media connections, dims the lights and initiates a softly glowing pattern above and across from the seat. Upon rising, the lights fade up, then back out as the person exits the space, during which media and communication synch to local surroundings and provide updates on family members in the home.





EMOTIONAL SCENT COMMUNICATION

While it's known that scent is a powerful memory trigger, using scent for actual communication is rare. Laura Nejman proposes a device — an emotional scent messaging machine — that uses a fully customizable vocabulary of scents to create a deep impression on emotion and memory. Individual “keys” on a multicolored, blob-like “touch form” allow the user to send specific messages tied to a scent combination—for example, a mixture of vanilla and ginger might represent love, admiration and desire to let a loved one know you're thinking of her. The scent messages are delivered through a sculptured wall installation — the scent form — which contains the scent motors and a delivery fan.



SYNTHETIC BIOLOGY

Who knows what nastiness lurks on the food we buy or the countertops we think are clean? It's not like they can tell us, right? In the future according to Tashia Tucker, they might just be able to. Her project delves into the emerging field of customizable bacteria and suggests three potential uses: adaptive wall coverings that filter air and control privacy; flooring that detects the presence of dirt and pollutants and absorbs contaminants; and countertops that detect whether pesticides, allergens and harmful bacteria are on your food or if the food was genetically modified or cultured in a lab.



“In the near future I imagine that the increasing need to check the constant flow of digital information will inspire the creation of spatial thresholds like this one that provide release and relief from the attention-grabbing demands of digital connection and allow for a more present and personalized transition from one set of experiences to another.”

—Megan Mitchell

FUNDS\$

with Benefits

From life-saving technologies to the study of life balance, professor endowments fuel scholarly accomplishment across the University.

BY MIA GEIGER

With additional reporting
by Sonja Sherwood

PHOTOGRAPHS BY JEFF FUSCO

Inside Room 330 of the Bossone Research Enterprise Center on Market Street, every available worktable and shelf holds a curious mixture of mechanical and biological science.

Petri dishes. Nuts, bolts and washers. Centrifuge tubes jumbled among wires.

A sticker on the door reads “Biofabrication Lab.”

The lab belongs to Drexel’s Mechanical Engineering and Mechanics Department, but the building blocks being assembled here are alive, and they’re microscopic — measurable in microns.

For the past three years, mechanical engineering professor Wei Sun and a team of graduate student assistants have been experimenting with 3D printing, plasma gas and human cells and proteins. Equipped with engineering expertise and a general understanding of cell cultures (“it’s like gardening,” quips one assistant) they built a prototype of a 3D printing tool that impregnates biodegradable plastic “scaffolds” with bio-

friendly chemicals to create a comfortable habitat for living cells.

Though the dream of one day constructing complex organs in a lab is still far off, innovations such as this bring researchers closer to redefining what’s possible in personalized medicine and provide new career options to gradu-

ates as traditional manufacturing jobs decline. The “enhanced” plastic scaffolding produced in Sun’s lab could be implanted into a damaged organ to form new tissue. It could be used to study how drugs interact with cells as they pass through the body. Or it could host a sophisticated three-dimensional model of a tumor for study.

On a recent afternoon in the lab, doctoral student Qudus Hamid ’14 gingerly lifts the delicate prototype — picture a hollow glass printer nozzle head — and explains how the team, using the nozzle on a 3D printer, is able to precisely deposit specialized cells onto very thin, customizable layers of plastic by tapping commands into a computer.

continued on page 50





Bert Rosenbloom

J. DONALD RAUTH DISTINGUISHED CHAIR
OF MARKETING MANAGEMENT
LEBOW COLLEGE OF BUSINESS

The tone of Bert Rosenbloom's career was struck when he was a teenager, working at his family's retail music stores.

"I loved the business and the idea of making business decisions and how businesses are run," says Rosenbloom, who did sales, stock work and later on accounting for the stores that sold musical instruments at six locations throughout the

continued on next page



continued from page 48

“You hit the ‘enter’ key and it’s like Christmas, really,” Hamid smiles.

Hamid’s efforts were partially paid for by someone he’ll never meet — the late Albert Soffa ’44, the co-founder of Kulicke & Soffa Industries who passed away in 2005. An endowment in Albert and his wife Harriet Soffa’s name made Sun’s work on this and other cutting-edge, interdisciplinary projects possible, which in turn attracted more funding. Preliminary work on the prototype helped secure a three-year research grant in 2010 from the National Science Foundation.

Endowments such as Soffa’s are crucial to helping professors and other faculty pursue research and special projects. They allow professors to attend conferences, hire graduate assistants, purchase data and more.

And they bring with them a high level of prestige.

“In academia there is no higher form of recognition than an endowed chair,” says Mark Greenberg, Drexel’s provost.

Universities that can offer the distinction and support of an endowed chair have an advantage in the race to recruit the most accomplished faculty.

Endowments honor donors, as well, with a lasting legacy.

“Endowments can be designated for many different things by the donor,” says Greenberg. “We have some endowed scholarships, we have some endowed chairs for faculty, we have endowed deanships, and we’ve got endowments that support an entire college, such as the Pennoni Honors College.”

“It lasts as long as the University exists,” says Elizabeth Dale, senior vice president for Institutional Advancement. “Thus, it is both an honor to the named holder of the appointment and also an enduring tribute to the donor who establishes it.”

Over the past 20 years, Drexel has evolved from a regional school with a handful of specialties into a major research institution, but its endowments don’t reflect its rising stature. The University’s 59 endowed chairs and professorships include only 19 endowments worth more than \$1.5 million and well-funded chaired professors make up just 1.5 percent of the University’s 1,200 full-time faculty.

To better match the capacity and potential of Drexel scholarship, the University is developing a donor-matching program to encourage gifts of the sort that are enabling Sun to advance the field of tissue engineering and prepare his graduate students for eminent careers in advanced manufacturing.

On these pages we look at some endowed Drexel faculty and their work.

Bert Rosenbloom

continued

Philadelphia region. “I was fascinated by advertising and customer behavior.”

After leaving the family books behind, he earned a bachelor’s, master’s and doctorate degree in business administration from Temple University.

He joined Drexel in 1976, and combined his interest in business with a love of studying phenomena and research. His specialty is analyzing marketing channels and distribution systems to find ways to improve the efficiency between buyers and sellers.

“There are literally billions of consumers on a daily basis all over the world who need or want millions of different products and services that come from all over the world,” he says. “Somehow this has to be coordinated so consumers get what they want, and millions of sellers and manufacturers and other institutions are able to place their products.”

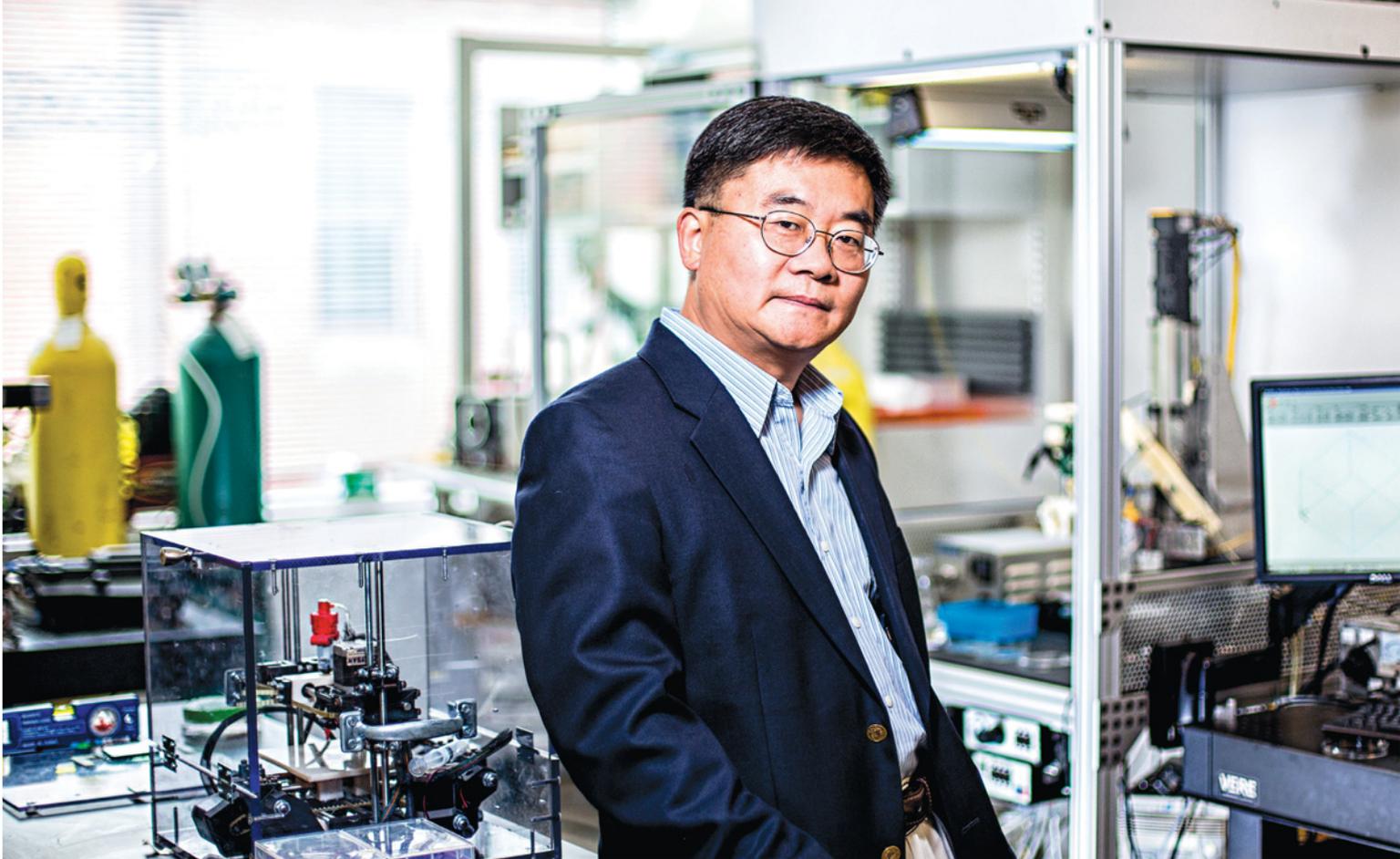
The J. Donald Rauth endowment — created by the former aerospace and technology conglomerate Martin Marietta Corp. (now Lockheed Martin) in honor of its CEO who served from 1973 to 1983 — in 1999 allowed him to study ways of improving those systems right at the moment that e-commerce was beginning to remake how people buy and sell.

Right now, for example, he’s excited about researching “showrooming,” in which customers go to physical retail stores to look at and touch products, but then order the items from an online outlet at a lower price.

His endowment has been a key helpmate to his work. His research takes him all over the world — he’s been to 50 countries over the years to meet with colleagues and attend conferences, seminars and workshops. The funds also help with the expense of hardware and software technology and datasets — not just for him, but for promising students, as well.

Currently, Rosenbloom is collaborating with a former research assistant (since graduated) who is comparing distribution systems in other countries. Part of his endowment will fund data collection from consumers in the United States and Poland. “Without Dr. Rosenbloom’s support and encouragement I would not have been able to develop as a researcher,” says Boryana V. Dimitrova, PhD.

When he’s not working, Rosenbloom builds furniture in his basement. While most of his handcrafted tables, cabinets and clocks find homes with his two grown children, if he ever decides to sell his designs, he’ll know just how to do it.



Wei Sun

ALBERT AND HARRIET SOFFA PROFESSOR, MECHANICAL ENGINEERING AND MECHANICS
COLLEGE OF ENGINEERING

Wei Sun is at the forefront of an exciting new interdisciplinary field that could one day remake modern medicine, but don't expect him to list his achievements.

"I'm proud of what I do, but I like to be low-key," says Sun, who has held the Albert and Harriet Soffa Professorship in the College of Engineering's Department of Mechanical Engineering and Mechanics since 1998.

His natural humility stems from his upbringing in China, where he lived until relocating to the United States at age 27 to pursue his education. That same culture impressed upon him the importance of education.

"From a very young age, one of my goals was to be a professor," he says. "In the environment I come from [...] to be a professor, to study, is the most noblest thing."

Sun earned a bachelor's degree in mechanical engineering from Hefei University of Technology in China and then a master's in mechanical engineering in 1988 from Drexel, where he also completed his doctorate in 1992. In 1994, Drexel recruited him to be director of its new product-development center, and he's been at the University ever since.

Sun is an authority on biofabrication, a cutting-edge field of research and technology that uses cells, proteins and other biological materials as building blocks to fabricate biological models and systems and medical therapeutic products.

His particular interest is in computer-aided tissue engineering, which combines the fields of life sciences and engineering in the design and manufacture of human tissue.

The process may one day be used to replace or repair organs.

"It's not a dream; there is an assumption it will happen," he says. "Years ago, people speculated, but right now people are not speculating. People know it is possible, it is just difficult."

His research could lead to new drug developments and to drug-testing methods that reduce the need for animal and human subjects.

"The ultimate goal is to enhance the quality of life for people," he says.

Sun's efforts have put him at the helm of the emerging field. In 2008, he was elected editor-in-chief of the journal *Biofabrication*, published by the Institute of Physics. In 2010, he was elected president of the newly formed International Society for Biofabrication.

In 2012, he was appointed co-director for the Drexel-Shanghai Advanced Research Institute Joint Center in Shanghai, China — Drexel's first overseas facility. He was charged with leading one of the institute's first research collaborations — a project using 3D cell assembly technology to generate in-vitro cellular cancer models used for drug screening testing.

How does he do it all?

"You work all day and night," he says, with a soft laugh. "You have to be very careful to manage your time and you have to work hard, like anybody else. You just sleep less."

Lynn Yeakel donated the globe pictured behind her when the Institute for Women's Health and Leadership opened in 2009 in the new wing of the East Falls building. Markers on the globe designate all the places where graduates of Drexel University College of Medicine and its predecessor institutions, Hahnemann University and Woman's Medical College of Pennsylvania, have practiced.

Lynn Yeakel

BETTY A. COHEN CHAIR IN WOMEN'S HEALTH
DIRECTOR, INSTITUTE FOR WOMEN'S
HEALTH AND LEADERSHIP
COLLEGE OF MEDICINE



Soon after being hired as the director of the College of Medicine's Institute for Women's Health in 2002, Lynn Yeakel made an executive decision: She added the words "and leadership" to the institute's title.

It was a fitting move, both for the institute and Yeakel, whose role in public service spans decades.

"The women who have graduated from this medical school have been trailblazers as leaders in medicine," says Yeakel. "In many ways the evolution of women's health being recognized as different from men's has been because of the leadership of women."

Her position as director of the institute and as the recipient of the Betty A. Cohen Chair in Women's Health allows her to continue on this path. Cohen is the late wife of D. Walter Cohen, a current Drexel University College of Medicine trustee and past president of the Medical College of Pennsylvania. The professorship named in her honor was the first in the world to focus on women's health issues.

"Multiple programs would not exist had it not been for the chair and endowment," she says. "That provided an element of stability and predictability in our budget."

She credits that stability with enabling her to create Vision 2020, a national coalition she launched in 2010 that is dedicated to helping women achieve social and economic equality by the year 2020.

She's also proud of the more than \$1.2 million in medical scholarships the institute has been able to provide through the Woman One program since 2003 to underrepresented minority women to help them study medicine. "These amazing young women might not have been able to realize their dreams and become physicians without the financial support and they will serve millions of underserved people in the course of their careers," she says. "That's very rewarding."

The desire to serve is part of Yeakel's DNA. Her father was a U.S. congressman from Virginia for 22 years, and her mother was a teacher

and school principal at a time when women were mainly expected to be homemakers. "I grew up in that kind of household, where public service was revered," she says.

She became involved with women's organizations and co-founded the advocacy and grant-making organization Women's Way, where she also served as CEO from 1980 to 1992. In 1992, she made a run for the U.S. Senate and in 1994 President Clinton appointed her Mid-Atlantic regional director for the U.S. Department of Health and Human Services. She ran for governor in 1994, and state senator in 2000.

Today her position at Drexel allows her to continue her public service. The days are busy, but she shows no signs of slowing down.

"We have to keep moving, because there's a lot to do," she says.

Drexel's Newest Endowed Chair

On Oct. 21, a \$2.5 million endowment in honor of the late Richard Shuman was awarded to Cheryl A. Hanau, who has served as chair of the Department of Pathology and Laboratory Medicine in the College of Medicine since 2009.

The Richard Shuman, M.D. Chair in Anatomical Pathology follows the recent passing of Marie Shuman, Richard's wife. Marie's will established the endowment to honor her husband's significant achievements and foster future contributions in his field.

Hanau says the funding couldn't have come at a better time.

"There is a lot going on, especially with molecular diagnosis and bioinformatics," says Hanau. "We're getting all kinds of new tools to help with personalizing each patient's treatment to address their specific biology. Getting this funding will allow us to do more innovative and exciting things in our department."

— Katie Clark



Jeffrey Greenhaus

WILLIAM A. MACKIE CHAIR IN THE
DEPARTMENT OF MANAGEMENT
LEBOW COLLEGE OF BUSINESS

When one of his doctorate students came to him many years ago wanting to do a dissertation on work and family dynamics, Jeffrey H. Greenhaus could relate to the topic.

“In my personal life as I got married and had children, I felt the pressure and the conflict between my career and my family,” says the Brooklyn-born business management professor.

At that time, he was early in his career as an associate professor at the Stevens Institute of Technology in Hoboken, N.J., trying to succeed both as a professor and a father of two daughters.

“Whatever I did, there was some kind of stress involved; when you choose one activity that means you can’t do another,” recalls Greenhaus, who holds a bachelor’s degree from Hofstra University and a doctorate degree in industrial organizational psychology from New York University.

Greenhaus’ interest in work-life issues persisted after he joined the LeBow College of Business in 1981. His 1991 appointment to the William A. Mackie endowed chair — named in honor of an executive vice president of Ingersoll-Rand Co. after he passed away in 1981 — helped Greenhaus study the topic just as the idea of “work-life balance” was becoming mainstream.

The endowment has been a professional lifeline allowing

him to attend more conferences and publish more articles, books and book chapters. One of the projects he was able to complete as a result was a survey on the work-life balance of Drexel alumni. Recently, he co-edited and contributed to a 2013 book titled, “Expanding the Boundaries of Work-Family Research: A Vision for the Future,” and he’s talking with publishers about a new book.

He’s currently studying work-family dynamics from a decision-making perspective to understand how individuals’ work-related decisions are affected by their family life. One dynamic he’s investigating is how women restrict their hours to accommodate their families, whereas men tend to work long hours no matter what.

With 40 years in academia behind him, Greenhaus can claim many professional honors, but his biggest source of career satisfaction is personal — and he says he owes it in part to the endowment. “What I’m most proud about in my career...is that I’ve been at it for a long time and I’m still interested,” he says. “I’m still engaged, I’m still curious and I’m still productive.”

And, perhaps taking his own research to heart, he makes sure to spend time with the other passions in his life — his family, including five grandchildren.

“It’s wonderful,” he says. [D]

CLASS NOTES

1960s

Bernard E. Deichman, MBA business administration '64, was honored by the German-American Heritage Foundation of the USA as the 2013 Distinguished German-American of the Year.

Charles H. Gonnermann Jr., BS mechanical engineering '62, wrote "Lessons Earned: Chillers," an electronic book documenting problem avoidance in the business of commercial and institutional HVAC/mechanical construction.

Thomas A. Leonard, BS business administration '68, was selected for inclusion in 2013 Pennsylvania Super Lawyers. He was recognized for business litigation.



Stephen G. Plotkin, BS commerce and engineering '63, and his wife **Marcia J. Katz Plotkin**, BS chemistry '64, MS library information science '71, were featured in the *Philadelphia Inquirer* for their work volunteering on an Israeli military base every year for the past 10 years.

David K. Walter, BS business administration '68, MBA '77, wrote "Stars and Bars Over Philadelphia: Lee and Jackson Win Independence," a Civil War alternative history novel.

Stewart M. Weintraub, BS business administration '68, shareholder at the law firm Chamberlain Hrdlicka, was named to the Wolters Kluwer Legal Tax Advisory Board and



was elected by the American Bar Association Tax Section as its 2013–2014 council director.

Richard N. Westcott, BS business administration '60, authored his 23rd book, "Philadelphia's Top 50 Baseball Players." He is the immediate past president of the Philadelphia Sports Writers Association.

1970s

Scott Bailey, MBA business administration '72, wrote the book "Vacations and Libations: Enjoy France and Europe 'Our Way,'" which is a summary of his European travel notes and experiences.

James F. Coyle, MS urban management '75, hosted the first-ever Coyle family reunion in Rockville, Md., with close to 90 extended family members in attendance.

William R. Gellhaus, BS electrical engineering '78, BS commerce and engineering '78, MBA business administration '82, was named vice president for the nonprofit charitable and educational organization Broadcast Pioneers.

Shirley Press, MD medicine '78, wrote "Pressing My Luck," a book about the journey of her life from a poor girl in Camden, N.J., to becoming a doctor and a lottery winner.

Susan O. Seidelman, BS communications '73, Hon. '91, released a new movie, "The Hot Flashes," in the summer of 2013, starring Brooke Shields, Daryl Hannah, Virginia Madsen, Camryn Manheim and Wanda Sykes.

1980s

Howard M. Benson, BS metallurgical engineering '80, received two Grammy certificates at the 55th Annual Grammy Awards for his work producing records for artists Kelly Clarkson and Halestorm.

Kevin R. Blackney, BAR architecture '85, of Blackney Hayes Architects, was featured in the May/June issue of *School Construction News* for his company's work with the Mastery Charter Schools network.

Brett D. Furman, MBA business administration '88, wrote the book "What You Really Need to Know About Selling Your House." He is a real estate broker and owner of RE/MAX Classic in St. Davids, Pa.

William J. Leonard, BS accounting '81, was selected for inclusion in 2013 Pennsylvania Super Lawyers. He was recognized for business litigation.



James J. Maddonni, BS civil engineering '85, successfully completed the requirements for the nationally recognized designated design-build professional certification by the Design-Build Institute of America. He serves as vice president and principal-in-charge for Pennoni Associates' design-build initiative.

Dave Ramos, BS accounting '83, wrote "Decide One Thing," a book which emphasizes the importance of differentiation for organizational success.

Beatrice E. Baldwin Ross, BS information systems '84, and her husband Gregory proudly welcome their son, Eugene Gregory Ross, BS sports management '13, to the Drexel University Alumni Association.

H. Theresa Selena Wright, BS home economics '68, MS '80, was named one of the Top 10 dietitians of the year by *Today's Dietitian*.

Janine A. Sheppard Galen, BS information systems '87, transitioned to a position at The Vanguard Group in Malvern, Pa., as senior risk analyst. She previously worked there as business controls manager.

Tracey Welson-Rossman, BS marketing '88, was named one of Tech Cocktail's 40 Women to Watch over 40. Tech Cocktail is a media company and events organization for startups, entrepreneurs and technology enthusiasts.

WEDDINGS

Eric DeRycke, MPH public health '09, and **Rachel A. Johnson-DeRycke**, MPH public health '09, were married in Connecticut on June 8, 2013.

William Scott Goehringer, BS mechanical engineering '11, MS '11, and **Sarah M. Lindsay**, BS teacher education '11, MS learning technology '11, were married in Villanova, Pa., on May 26, 2013.

Nathan T. Fochtman, BS communications '08, and his wife Gina were married in Mercersburg, Pa., on July 4, 2009.



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

1990s

Haley L. Coles Driscoll, BS interior design '91, was appointed to *Interior Design* magazine's 2013 Healthcare and Wellness Advisory Council.

Steven M. Greene, BS accounting '86, MS taxation '92, joined the Pennsylvania office of WeiserMazars LLP, as director in its insurance tax services group.

Matthew S. Leopold, BS commerce and engineering '93, accepted a position at SCA Personal Care North America in Philadelphia as direct consumer interaction director.

Jonathan D. Pavlovcak, BS civil engineering '96, was appointed to counsel for the Lower Bucks County Chamber of Commerce. He is an attorney at Hill Wallack.

Linda A. Rowan, MS library and information science '98, joined the Free Library of Northampton Township in Richboro, Pa., as a reference librarian.

Myriam A. Siftar, MBA business administration '93, is the president and founder of MTM LinguaSoft, a language and cultural services company that celebrated its 10th anniversary in September. The company has twice been recognized as one of the Philadelphia 100, the 100 fastest-growing companies in the Greater Philadelphia region.

2000s

Kaysie L. Daggett, BS biological science '08, is a lieutenant in the U.S Navy serving in Naples, Italy. She received three combat service medals after having been deployed to the Persian Gulf three times aboard the USS Cape St. George and USS Carl Vinson. She was assigned to the Vinson at the time Osama bin Laden was buried at sea off the flight deck of the carrier.

Christopher W. Dailey, MBA business administration '02, was appointed vice president for GEI Consultant Inc. He is responsible for expanding GEI's market presence and operations in southern New Jersey and Pennsylvania.



Yanatha Desouvre, BS business administration '01, wrote his first children's book "Big Sister Little Sister" and made Amazon's Hot New Release list.

Eric A. Dillalogue, MS library and information science '09, was promoted to director at Florida Keys Community College in Key West, Fla.

Nathan T. Fochtman, BS communications '08, was promoted to vice president craft and specialty at Ace Distributing in York, Pa. Nate manages the local sales, marketing and distribution programs of more than 25 United States craft breweries.

Amy B. Popp, MS library and information science '08, is librarian, webmaster, public relations coordinator and technology teacher at Immaculate Conception High School in Montclair, N.J. Her article "Google Apps for Education Surpasses Expectations" was published in the Spring 2013 NJLA College and University Section/ACRL-NJ Chapter Newsletter.

Cameron R. Wicks, BS film and video production '06, was the recipient of the 2013 Tomorrow's Leader Award from the Philadelphia Area Chapter of Meeting Professionals International, as well as the 2013 Superstar Award from the Greater Philadelphia Chapter of the International Special Events Society. He was also elected the vice president of communications for ISES Philadelphia, and is the co-chair of PAMPI's Website and Social Media Committee.

2010s

Vincent M. Campanaro, BS business administration '12, was awarded one of the Animal Legal Defense Fund's Advancement of Animal Law Scholarships for his outstanding work in animal law.

Daniel B. DiFrancesco, BS business administration '13, was hired as global equity research associate at Turner Investments.

Paul M. Jacques, BS mechanical engineering '13, joined the career development program, Foundations for the Future, at Solvay chemical company.



BABY DRAGONS

Nathan T. Fochtman, BS communications '08, and his wife Gina Fochtman had a daughter, Emma Celestina Fochtman, on Oct. 19, 2010. They also welcomed a son, Jack Edward Fochtman, on Nov. 18, 2011.

Brian Kantorek, MS library and information science '12, and his wife Joselle Palacios had a daughter, Nina Elizabeth, on Feb. 15, 2013.

Christopher Walter, MS library and information science '05, and his wife Maria had a son, Lucas James, on April 5, 2013.

George A. Leshner, MS engineering management '12, captain in the U.S. Coast Guard, assumed command of the U.S. Coast Guard Yard on June 7. He is the 41st commanding officer in the 114-year history of the shipyard. He was the Yard's industrial manager from 2011-2013.



Ryan J. Powell, BS mechanical engineering '13, was selected for the career development program, Foundations for the Future, at Solvay chemical company.

Brittanie Thomas, BS business administration '11, is a singer and songwriter who released her debut soul album, "Two Chords and a Pen."

Kento Yasuhara, MS psychology '10, PhD clinical psychology '13, under the mentorship of Kirk Heilbrun, professor, psychology at Drexel's College of Arts and Sciences, was appointed assistant professor of criminal justice, Henry C. Lee College of Criminal Justice and Forensic Sciences at the University of New Haven.



FRIENDS WE'LL MISS

1920s

William Enfield Winans '28

1930s

Laurence Cooper '33
George Crosgrove '39
Ruth Geiger Lutz '38
May Johnston Macionis '38
Helen Jones Domenech '31
Leon Kazan '39
Howard Martindell '36
Margaret Rank Haring '34
Ernest Rohana '38

1940s

Elizabeth Baringer Barnes '42
Howard Bicking '49
Nancy Bowes '48
Virginia Briner Anderson '45
Catherine Burns Rauth '40
Harrison Cassel '40
Helene Cerankowski Chernoff '47
Marie Detwiller Wert '48
John Donohue '43
Catherine Drobot Diehl '49
Jeanne Ebaugh Lupfer '44
Allen Edelman '47
Mary Felton Price '41
James Foti '47
Lewis Gemmill '40
Alvin Greenspan '47
Thelma Groveman Steinberg '48
Wilbur Henderson '47
Thomas Howe '40
Frederick Hummel '40

Robert Inglis '40
Jaime Irizarry-Perez '48
Robert Johns '41
Daniel Kirkpatrick '43
Sarah Light Glaum '46
Phyllis Gottlieb Shafer '48
Robert Logue '48
Orval Lovett '43
Julia Carroll Matson-Register '48
William McCamy '43
Margaret Mccusker McFadden '41
Helen Minter Denslow '46
Charles Morris '48
William Morrison '48
Stanley Myer '47
Katherine Nagele Taylor '45
Elizabeth Needles Latch '49
Andrew Neuman '41
Marion Parker Souder '42
Virginia Phelps Dollison '40
Anna Pircsenok Herz '43
Janet Raughley '49
John Read '43
David Roda '48
Lillian Rosenberg '43
Charlotte Russell '47
Jean Sartwell '40
Edward Simon '43
Claire Smith Dawson '49
J. William Snyder '43
William Steets '44
Lois Vola Hart '48
Robert Wagner '46
Ann Ware '48
Shirley Watkins Pavich '43

Luther Zehner '48
Rose Zucker Thorman '47

1950s

John Baugh '57
Mollie Bersin '50
Frank Betley '55
Maurice Black '53
Jack Bradt '55
George Butler '59
Dorothy Carlson '53
Dorothea Daniels Glass '54
Robert Dettra '54
Angela DeVito Musto '55
Merle Easterling '52
James Esher '55
Walter Gilmore '56
Edward Gilvey '51
Ray Goldstein '57
Doris Gorka Bartuska '54
Thomas Gross '58
Elizabeth Hansen Young '52
William Higginbotham '54
Oskar Huber '59
George Jones '57
Robert Kaercher '54
Nancy Kimble Russell '53
Clarence Kurtz '55
Nancy Lamancusa '57
Eugene Lesovsky '58
John Lynch '56
Kenneth MacAlpine '59
William Maher '54
Ophelia Martino Buehler '50
Mary Joanne McKelvey '54
John McKeown '57
Regina Meek MacArthur '50
Raymond Middleton '55

Philip Milowitz '59
Lawrence Monte '59
Grace Moore Potts '54
John Muldowney '55
Virginia Mullin '58
Joseph Noble '55
Robert Orth '51
William Pearson '57
Robert Ray '56
John Roberts '56
Richard Rummier '55
William Samuel '50
Norman Satterthwaite '58
Hazel Saunders Robinson '57
Marcia Savill Ross '53
Leonard Schulze '55
Ernest Stagliano '53
Robert Steel '52
George Strakosch '53
Harold Talbot '56
Robert Tershak '55
Robert Tyndall '51
Joan Vasey D'Aquila '55
Richard Weber '56
David Wiley '56
Leo Williams '55
Robert Wolfinger '51
Allan Wrang '57
Victor Yanega '59
Alfred Zaborowski '53

1960s

David Axler '69
Sibyl Beckett '63
Robert Benner '64
John Clapp '64
Ralph De Fazio '67
Robert DiCianni '69
Theodore Eastland '63
Robert Egolf '64
Parker Fernald '60
Peter Foley '65
Harry Fromuth '62
Theodore Gendelman '65
Florence Graber Geisinger '63
James Greco '65
Joseph Haitz '61
George Harrer '66
Henry Hennessey '61
Matthew Hober Jr. '68
Albert Kaschok '63
Dennis Kopecky '69
Albert Marcellino '69
Francis McKefferly '68
James Morrissey '61
Richard Mortimer '62
Henry Murphy '65
Andrew Obosky '65
Lowell Pauli '64
Robert Pettit '64
George Pew '68
Frederick Phillips '63
Barbara Pliik Torpie '66
Werner Poelck '65
Walter Puntel '66
William Randles '63
Linda Schuyler Smith '63
Charles Sohl '68
Mark Sweitzer '67

Frank Vinci '60
William Welch '64
Richard Wisniewski '62

1970s

Allan Beck '70
Rita Bosniak '71
Susan Brown '74
Michelle Burylo '75
Carol Capotrio Green '71
Harry Cartledge '76
David Coulter '70
Dan Davis '70
Kenneth Erick '70
Mary Esposito '78
Gerald Glick '74
Stanley Gryziec '72
Raymond Hancock '75
Joseph Hopkins '72
Charles MacNeill '76
George McLaughlin '80
Timothy Pressede '78
Teresa Schleich '73
Carl Schmittinger '79
Frances Seligman Nobel '72
Marc Shames '74
Marcia Sze Chou '71
John Szigety '75
Dennis Varhola '71

1980s

Bohdan Dunas '80
Hubert Keller '80
Michael Krulikowski '83
William McLaughlin '87
Robert Moyer '84
Thomas Panunto '81

1990s

Laura Betancourt Dougherty '95
Beatrice Chukumba Inyama '98
Matthew Cohen '96
Charles Edwards '93
Maria Kuhn '91
Harland Macia '92
Christopher Manuelli '95
Matthew McGloin '98
Kathleen McGovern '96
Mary Mugnier '99
John O'Connell '95
Willette Witherspoon-Thomas '94

2000s

Nicholas DiBlasi '03
Giocondo Navek '03
Rio Weikel-Magden '08
Anastasia Williams '03

2010s

Theodore Kopec '12



ansp.org



THE ACADEMY
OF NATURAL SCIENCES
of DREXEL UNIVERSITY

Meet the New Chair of the Alumni Association

The newly appointed chair of the Drexel University Alumni Association Board of Governors is an entrepreneur with a 30-year history of involvement with the University. Ira Taffer received a BS in chemistry in 1979 and a PhD in organic chemistry in 1983 from Drexel. After graduation, he became the co-founder and COO of BIOMOL Research Laboratories. Over 25 years, he grew the organization into a multinational company specializing in the supply of biological tools for the life sciences research community. The company was sold in 2008 to Enzo Biochem Inc. Since that time, Taffer has been actively consulting in the business community on operational and scientific issues. In addition to his service in the Alumni Association, he is a member of the advisory board to the Dean of the College of Arts and Sciences. His two-year appointment began on July 1.

Why did you decide to take on the role of chair of the Board of Governors?

I have been active at Drexel since I graduated in 1983. For the past nine years I have been a member of the Board of Governors and during that time have seen the importance of a strong alumni association. Being chair allows me to work on some of the ideas I have to continue to grow the organization for the benefit of our alumni, as well as for the benefit of Drexel.

What do you hope to accomplish during your term?

It is my goal to make the Alumni Association an important resource for all Drexel alumni. The association needs to provide services that help our alumni grow both professionally and personally. We want to provide a continuation of their student experience. Currently, the association offers a wide variety of programs for our alumni including career development, networking and cultural and educational activities. As Drexel grows, so must the association. Today, Drexel has a large international footprint with alumni living around the globe. We must expand the association's reach as well, and provide programs globally. As the world changes so must the services that we offer and the ways that we deliver them to alumni.

What is the value of the Alumni Association to alumni today?

A strong Alumni Association is an asset to the University. Drexel has about 144,000 alumni living and working around the world, and as I said earlier we must be a valuable resource for all of our graduates. Our motto is "Connecting Dragons Everywhere" because that is what we aim to do: connect alumni to alumni, to students and to the University. We're here to help them make these valuable connections.

Today we change jobs, relocate and seek professional development much more frequently than we did 30 years ago. The Alumni



Association provides resources to help alumni manage this process and build their personal career networks through Alumni Career Services. Through our online networks, including the alumni LinkedIn group, and our in-person events, we connect alumni with each other in the geographic areas where they live or by some shared interest — be it career industry or cultural activity, or even a shared Drexel academic experience with a college, school or faculty member. The association provides opportunities for alumni to meet Drexel students to help them learn how to hone their leadership skills and get the most out of their co-op experience.

These are just a few of the countless ways that the Alumni Association is a valuable resource for our graduates. I believe that the accomplishments of alumni are the accomplishments of the University. It is our goal to keep everyone informed of the changes at Drexel and the achievements of our alumni. By staying in touch with Drexel through the association, we help alumni maximize the value of their education.

Do you have a message for your fellow alumni?

I encourage all alumni to keep in touch with the Alumni Association — update your contact and professional information, attend an event in your area, join our online networks, or volunteer to get involved. We want to hear from you and to share in your accomplishments! [\[D\]](#)

ALUMNI CAREER SERVICES HIGHLIGHT:

Get Your Career Moving with Industry Experts

Industry seminars and panel discussions are an important aspect of the Alumni Career Services program. They feature alumni experts who share their experiences, successes and lessons learned, and provide insight into a number of professional-development topics across a variety of industries. These programs aim to empower alumni to grow their careers and learn from one another how to successfully take that “next professional step.”

One such program, a panel discussion titled “Entrepreneurship: Lessons Learned,” was held in Center City Philadelphia and was moderated by Mel Baiada ’82 and ’85, the president and founder of Basecamp Business. The panel was made up of four alumni entrepreneurs from varying backgrounds, all with valuable experiences and advice to share with their classmates.

Alan Rihm ’88 was one of the panelists and is the CEO of CoreDial, a leading cloud communications software and services company. Rihm is an entrepreneurship expert, having launched four successful companies since 1995.

“I spoke about how as an entrepreneur, I focus on building a team and a culture in my company,” said Rihm. “I shared my experiences, but my main goal was to spark questions from the audience.”

Rihm stressed the importance of keeping one’s finger on the pulse of the company and really digging into the details — especially in the beginning.

Another lesson he shared with the group is the importance of purposefully building a culture where employees are encouraged and want to work hard.

“I hope that sharing my experiences inspired others to take the entrepreneurial plunge,” said Rihm. “It is tough work but very gratifying. There are lots of risks, but just as many rewards. Hopefully sharing my stories from my almost 20 years of being an entrepreneur helped other budding entrepreneurs at the event.”

Andrea Alfonsi ’03, a business owner and expert in work-life integration, gave a talk on work-life balance to Drexel alumni in both an online workshop and at an Alumni Career Services program in New York City.

“Today’s work environment is very challenging in terms of its pace and demands on the individual,” Alfonsi said. “The person who works toward improving their work-life integration will be healthier, happier and ultimately more productive. It’s never too late to practice the principles of work-life integration.”

Andrea shared her expertise with the group by providing the framework for a new way of thinking and a few practical tools as a starting point.

“The most important concept, in my opinion, is that change doesn’t happen overnight,” she said. “Taking a few small steps can set a new course and help to inspire new ideas for future changes.”

Several seminars and panel discussions are planned for the fall and spring, and providing these types of programs continues to be a priority of the Alumni Association.

Possible discussion topics being considered for upcoming programs are: data analytics and the automation of knowledge; careers in consulting; government and nonprofit careers; encore careers, second-act careers and careers post-retirement. If you think your experience and expertise in one of these areas of career development would make you a good speaker or panelist, please let us know. Contact the Office of Alumni Relations at alumni@drexel.edu or 1.888.DU.GRADS and share your story with us.

We also want your feedback. What topic would you like to see featured in an Alumni Career Services seminar? What types of discussions would you like to have with an industry leader? Let us know what areas of professional development are important to you so we can do our best to help you grow and manage your career. **[D]**

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2013 Alumni Association Award Recipients

Each year, the Alumni Association presents its prestigious awards to individuals who have proven to be successful leaders in their professions or communities, or have demonstrated outstanding service and commitment to Drexel.

Get to know the 2013 Alumni Association award recipients as they answer a series of questions below, providing a unique look into their personal and professional lives.

Elizabeth Aversa, PhD library and information science '84

SERVICE TO PROFESSION AWARD RECIPIENT

Your very first job: I was a technical writer in an engineering firm that worked on the space program—before men went to the moon!

Essential business philosophy: My dad taught me this, and it served me really well as a dean and director of



academic units at several universities: Pay people for their work, treat everyone fairly and keep the budget balanced.

Goal yet to be achieved: Since I retired from the professorate on Aug. 1, my immediate goal is to have a long and enjoyable retirement while volunteering in the arts in Tuscaloosa, Ala.

What you're most proud of: I've been in the information services world for 45 years and I believe I did some good every day. As a librarian, an information specialist, a researcher and a professor, I believe I made people's lives better by providing information.

Why you attended Drexel: When I applied for the doctoral program, one of the professors and the dean in the College of Computing & Informatics (formerly the iSchool, College of Information Science and Technology) took a personal interest in my application. Other programs just seemed like they wanted another applicant. I had a great experience at Drexel with lots of face time with my professors, excellent financial support and great colleagues.

Ryan S. Buchert, BS electrical engineering '99, MS '03

ALUMNI ENTREPRENEUR AWARD RECIPIENT

Essential business philosophy: Find talented people who are ambitious,

be authentically inclusive in forming your team, and empower that team to accomplish remarkable things. A robust team of linchpins has established BuLogics as an industry leader. No individual can create the same change as an elite team.

Best advice you've ever been given: Embrace being a linchpin and lead as one. Through my years of experience I have become a global expert in many technologies and implementations thereof. That experience obligates me not simply to share, but to humbly lead as well, within the company and the community.

Most valuable lesson learned: Be present. I focus on knowing my priorities, knowing where I want to be, knowing where I want to go and knowing why. Once accordingly prioritized, I feel I am being inefficient and doing myself a disservice if not 100 percent focused on where I am and what I am doing.

What you're most proud of: My ability to persist. Technology startups are often expected to be fast turns for investors and it's easy to get discouraged when what you find you have is a real and profitable business instead of merely an investment vehicle. Pushing past the point of discouragement and pivoting where needed is a lesson learned through persistence, 10 years of it sometimes.



Why you attended Drexel: I have always felt that applying knowledge to real-world challenges is the best way to learn to create real-world solutions. I felt that Drexel embraced that philosophy and would best enable me to be that creator. The lessons I learned at Drexel have been invaluable in enabling me as an entrepreneur.

J. Barry Dickinson, PhD business administration '09

SPECIAL DISTINCTION AWARD RECIPIENT

Essential business philosophy: My business philosophy is to simply do everything with the customer in mind. Put yourself in the shoes of your customer. What would he/she think if you made that decision? How would the customer react to the closing of that office or the change in the price of that service? Think of [your best customer] being in the room and you having to break the news to him. You have to personify the decision.



How you measure success: I measure success by the number of lives I touch. In business, it was always the number of individuals I employed. It was always the most important benchmark for success. In my role as an academic dean, it is the number of students we help graduate. The more students we touch, and set off in the right direction, the more successful I feel.

Toughest decision you've ever made: The toughest decision I had to make was deciding to sell my business. It was my baby. I had worked long and hard over an eight-year period to build a business of which I was proud. I employed more than 60 people and I was concerned about their future. But it was time, and I could see the market turning on us. It turned out to be a very well-timed decision. This was followed, very closely, by a second decision when I decided to leave the business (after selling it) and moving into academia. It was a scary time in my life. It turned out to be one of the best decisions I ever made in my life.

Most valuable lesson learned: I have learned that you must be authentic. If you are not true to yourself, you will not be effective. Moreover, others will see through you. You cannot be something you are not. Even if you are not happy with something about yourself, it can be overcome. Just be yourself and make do with the tools you do possess.

What you're most proud of: I am most proud of the education I earned at Drexel. One thing that everyone can accomplish and not have taken away is your education. It seems daunting when you are going through the process but it leaves you with a pure and enduring feeling of accomplishment.

Mary Henningsen, BS marketing '88

SILVER DRAGON SOCIETY AWARD RECIPIENT

Essential business philosophy: I love this post from Seth Godin's blog on marketing, titled "The Certain Shortcut." He wrote: "The shortcut that's sure to work, every time: Take the long way. Do the hard work, consistently and with generosity and transparency. And then you won't waste time doing it over."

Best advice you've ever been given: That came from my mother, a former real estate agent, on the decision to take the plunge and buy my first house, "Mary, quit being so conservative and get in the game!" She was right, and it was a great investment!

Your mentor: My late father, ever truthful, loving, pragmatic and kind.

Share a Drexel memory: As a four-year varsity swimmer at Drexel, my best memories are the times spent in the pool, on the road traveling with and just hanging out with the Drexel women's and men's swimming and diving teams. This was a special group of people (swimmers, divers, coaches and other team supporters) who were my family, biggest supporters, mentors and best of friends during my years at Drexel, and even still today!



Favorite way to spend your free time:

I love to travel! Though lately, I am spending much of my free time volunteering to help organize some local TEDx events in Beirut, Lebanon, where I currently reside. Right now I am involved on planning teams for both the TEDxBeirut 2014 and TEDxYouth@Wellspring 2014. I also attend monthly TEDx Salon events here locally. Besides TEDs, my sister and I spend a lot of time looking after the many street cats that live around our school and flat in Beirut!

C.R. "Chuck" Pennoni, BS civil engineering '63, MS '66, Hon. '92

GOLDEN DRAGON SOCIETY AWARD RECIPIENT

Your very first job: My first full-time job was with the consulting engineering firm Albright and Friel at 3 Penn Center in Philadelphia. My wife Annette and I moved to Philadelphia from the Wilkes-Barre area in January 1960 after being married in October 1959. It was our first experience in "the big city."

Essential business philosophy: Conduct yourself at all times with honesty, integrity and service. By service I mean giving back to the community, not just with charitable contributions, but also with your time and talent in helping others.

Best advice you've ever been given:

The best advice I was given was from my mother: If you are going to do something, do it right. "Be the job great or small, do it right or not at all." This has served me well throughout my entire career.



Most valuable lesson learned:

The most valuable lesson I learned was from my parents and it was to treat others as you would want to be treated. Conduct yourself with honesty and courtesy and be kind and considerate of others at all times. I have learned that you truly get what you give. If you have a problem, first look at yourself.

What you're most proud of: I am very proud that I have had a very extensive, successful and fun-filled professional career founded on the core values of honesty, integrity and service, while at the same time enjoying a loving, fulfilling and exciting family relationship with my wife of 54 years, and four wonderful children who are married and blessed us with 12 fabulous grandchildren. None of this would have been possible without the strong and loving support of my wife.

Vicki Schwartz, MS clinical nutrition '87

SILVER DRAGON SOCIETY AWARD RECIPIENT

Essential philosophy in teaching: There are a few things that I believe are important to teaching at Drexel. Communication, application and constant renovation are essential to my job. First, in communicating to others, I try to put myself in the students' shoes to gain a better understanding of where they are coming from. As I am completing a doctoral degree, I know what it is like to be a student and am sensitive to their needs. In teaching courses, I believe applying didactic learning to a real experience is the optimal way to teach. For example, the dietetic students in my nutrition counseling class experience counseling real patients or actors trained as patients to simulate a real-life experience. In cultural foods, we

not only go through the various cultures, religions and alternative medicines, but we cook and taste the interesting cuisines as well. The students will never forget these experiences of cooking, tasting and smelling the wonderful spices and foods or their experience counseling their first client. Lastly, there are times when things may not go as well as you like in the classroom, so clarifications leading to renovation of a test or a lecture may be necessary. Learning from mistakes and being flexible can lead to a positive teaching experience.

How you measure success: To me, success is the ability to appreciate what life has to offer, to be able to contribute to making life better for others and lastly to handle the problems that inevitably sneak up in our lives. It is so easy to get caught up in the small stuff. The successful person is able to move on quickly and get back on track to make life a better place.

Best advice you've ever been given:

My mother always encouraged me to try new things and take risks. It makes my life exciting. Jumping into the cold ocean water may take some motivation, but once you get in and ride the waves, it is so much fun and so invigorating. I think trying new things is essential to my growth as a person and makes life worth living.



Little-known fact about you:

When I am by myself or with my 22-year-old daughter, I turn on jazz, rock or soundtracks of movies and just dance. The dance is a combination of ballet, jazz and hip hop. The more creative we get, the funnier it is. Laughter almost always results from this experience.

Three words that best describe you:

Fun, adventuresome, happy.

Kathleen M. Spisak, MBA business administration '11

SERVICE TO COMMUNITY AWARD RECIPIENT

Your very first job: My first real job was a paper route for the *Press-Republican* newspaper in Plattsburgh, N.Y., that spun into very lucrative side jobs of pet sitting and babysitting.

CLASS NOTES

Goal yet to be achieved: This is one of those ongoing goals; I strive to be better than the person I was yesterday.

Share a Drexel memory: During March 2010, I opted to join one of the East Coast Drexel Cohorts in a residency program in China where we studied American businesses doing business abroad. It was here that I experienced firsthand the sandstorm drifting from Mongolia off the Gobi desert. The sand was so fine like powder dust that a subtle film coated your tongue. I soon learned that scarves were not just an accessory, but also a necessity!

Favorite quote: "Life isn't about waiting for the storm to pass. It's learning to dance in the rain." — Vivian Greene.

Best advice you've ever been given: The best advice was from my volleyball coach Ms. Maureen Ford. I was 16 at the time. My goal was to be a pro bowler. She helped me plan for the unexpected. She said, "What would happen if you were in

an accident or something happened to your hand?" She encouraged me to have options. She encouraged me to continue with college. I discovered my thirst for knowledge and now see myself as a lifelong learner. I am currently working on learning French and learning about sound and energy frequencies.



James A Bilella II, PE, BS electrical engineering '99

SERVICE TO COMMUNITY AWARD RECIPIENT

Your very first job: My family has an entrepreneurial spirit. I worked at my grandmother's ceramic shop at the age of 10. There, I learned my work ethic.

Essential business philosophy: Empower employees to be successful. Give them the resources, guidance, responsibility and authority to be successful. Their success is my success.



Best advice you've ever been given: Advice from a senior engineer at a company that I co-oped with while at Drexel: "Jimmy, if you're adding more than ones and zeros, you're working too hard." (Work smart, not just hard.)

Your mentor: My father, who was always giving of his time to the community. Through him I learned the importance of service to others.

Little-known fact about you: I'm an award-winning artist. [D]

For more information and to submit a nomination for the 2014 Alumni Association Awards, visit drexel.edu/alumni/honors_awards.asp or contact the Office of Alumni Relations at 1.888.DU.GRADS.

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THE HARRIET WORRELL SOCIETY AWARD

‘An avenue for women to have their voices heard’

The woman after whom the Harriet Worrell Society Award is named was a Drexel Dragon, through and through. Harriet Worrell’s love for Drexel was evident over the years through her commitment to the University, especially to its alumni. Worrell earned two degrees from what was then the Drexel Institute, in 1909 and 1915, and went on to serve as both an employee and a volunteer for the University and for its Alumni Association.

During her time as a student, Worrell served as corresponding secretary of her junior class and vice president of her senior class. She was also an athlete, taking on the role of captain of the hockey team in her junior year.

She graduated and became a secretary with Lansing Co. in Philadelphia in 1915, but it wasn’t long before she returned to her beloved University. In 1924 she took the position of secretary to President Kenneth G. Matheson.



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CERTIFICATIONS, CERTIFICATES AND PROFESSIONAL DEVELOPMENT

Ellen Furchi
M.S. in Higher Education
Class of 2010

Within a year of becoming his secretary, President Matheson approached Worrell and asked her to take on an additional role of alumni secretary for the Alumni Association. Without hesitation, she accepted.

Worrell worked tirelessly as alumni secretary for the next 14 years, even volunteering to give up her \$500 salary after less than one month on the job. Minutes from an Alumni Association meeting held on Feb. 2, 1925, state that Harriet proposed: "In order that the bills for bulletins, postage and student assistance (so very valuable at this time) may be paid promptly, the alumni secretary recommends that her salary be withheld until enough annual dues are received to cover this item."

Shortly after accepting the position of alumni secretary, Worrell hit the ground running and outlined her main objectives for the Alumni Association. Some of those goals included transferring (alumni) records to cards in the new filing system, sending notice of Alumni Day plans to all alumni with a return slip to indicate whether or not they expect to be present, being on the lookout for new addresses, and collecting news items for alumni publications.

Worrell recognized the important role that Drexel alumni played in the life of the University, and she worked to strengthen the connection between Drexel and its graduates. Nearly 90 years later, her commitment to Drexel still embodies the Alumni Association's mission to connect graduates to one another, to the University and to its students.

In honor of her service to Drexel, the Harriet Worrell Society Award was established by the Alumnae Planning Board in 1969. The award is presented each year to an alumna whose professional achievements, contribution to the community, and service to her alma mater embody Worrell's spirit of commitment and integrity. Recipients are selected by the Harriet Worrell Society — a committee of past honorees — and are honored each year at Alumni Weekend.

"The award is very important because it celebrates people who were just like Harriet," said Adeline Kieffer '77, a member of the Harriet Worrell Society and the 1998 award recipient. "When selecting the recipient, the society looks for someone who, like Harriet, is well-rounded and is a community and university leader."

Lynne Bloom '55, a society member and 1987 recipient added, "This award is an avenue for women to have their voices heard."

Lynne explained that some of the nomination criteria for the award includes participation in activities that forward the work of Drexel, involvement in Drexel-sponsored programs, as well as professional achievements, awards and honors.

Past recipients have graduation years ranging from 1921 to 1992 and include remarkable women who are teachers, entrepreneurs, counselors, scientists and so much more.

For more information on the Harriet Worrell Society Award and to learn how to nominate a worthy candidate, visit drexel.edu/alumni/honors_awards.asp. [D]

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April 4 to 12, 2014

Cruise the Waterways and Canals of Holland and Belgium

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August 13 to 21, 2014

Cruise the Baltic Marvels Copenhagen to Stockholm

September 20 to 28, 2014

Flavors of Northern Italy: Wine and Cuisine Tour

November 19 to 30, 2014

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For trip details and to register, visit Drexel.edu/alumni/travel. If you would like an individual trip brochure about the Alumni Association Travel program, or to be added to the mailing list for future trips, call the Office of Alumni Relations at 1.888.DU.GRADS or email alumni@drexel.edu.

ALUMNI TRAVEL DIARY:

National Parks and Lodges of the Old West

In June, two dozen Drexel graduates and guests journeyed to South Dakota and Wyoming to explore national parks and monuments as part of the Drexel University Alumni Travel program. The trip was brimming with scenery, wildlife, outdoor adventures and celebrations of the area's rich and unique history.

Friday, June 14

The group began its journey in the early hours of June 14, leaving Rapid City to travel to the nearby Badlands National Park. The Badlands are a natural wonder with massive buttes, hills and spires shooting from the earth for miles on end. The park's 244,000-acre landscape is also home to the largest mixed-grass prairie in North America where animals such as bison, bighorn sheep and black-footed ferrets roam.

"We witnessed so much wildlife in its natural habitat," said Joyce Otto '94, who came to South Dakota with her husband Mike from their home in East Windsor, N.J.

After spending the first part of the day at the Badlands, the group arrived at the State Game Lodge in Custer State Park. Built in 1920 and listed on the National Register of Historic Places, the lodge served as the "Summer White House" for President Calvin Coolidge in 1927.

In the evening, the whole group piled into jeeps and set off on a safari where they came up close and personal with more pronghorns and hundreds of bison.

"Our tour guide on the safari was a bona fide cowboy named Roger who has spent his entire life living

in South Dakota and working on his family's cattle ranch," said Matt Geragi '09. "It was incredible how much he knew about the land, the wildlife and the history of Custer State Park."

After the safari, everyone gathered in a grassy clearing in the park where they enjoyed a chuck wagon cookout and live music.

"Looking back on the trip, I'd have to say that that was my favorite part of the trip," said Geragi. "It was a great night spent in the company of new friends."

Sunday, June 16

On the schedule this day was a visit to the Mount Rushmore National Memorial in the Black Hills region of South Dakota. The monument, which features 60-foot sculptures of presidents George Washington, Thomas Jefferson, Theodore Roosevelt and Abraham Lincoln, attracts nearly 3 million visitors a year. Tom Harnden, one of the guides accompanying the group for the entire trip, had spent several years working at Mount Rushmore and he educated the group on the story behind the monument and answered questions along the way.

"Tom was one of the highlights of the trip," said Otto. "Drawing on his 37 years as a park ranger, he was an amazing fountain of knowledge. His contributions to the trip definitely enriched our experience. We would follow Tom anywhere!"

After touring the monument, many travelers decided to end their visit to Mount Rushmore





on a sweet note with an order of TJ's vanilla ice cream — Thomas Jefferson's own personal recipe!

That afternoon they settled into Spearfish Canyon, which is known as one of the most breathtaking canyons in the world. Tom took some group members on a short walk to some waterfalls near the lodge before everyone headed to dinner.

Wednesday, June 19

On Wednesday, the group arrived in the country's first national park, Yellowstone.

Late that afternoon, the bus arrived at the Old Faithful Inn, which was built in 1904 and is one of the few remaining log hotels in the United States. One of its biggest attractions is the fact that the world famous geyser, Old Faithful, is located just steps from the lobby of the inn.

"The Old Faithful Inn was breathtaking to see as we drove up to the entrance," said Annette Crotchfelt '66, who was joined on the trip by her husband Fred '65, '66. "It looked like a picture out of a storybook."

That evening, many guests put on their jackets — it was snowing in June! — and trekked the short distance out to Old Faithful to catch its 9:30 p.m. eruption. Right on schedule, they witnessed the amazing eruption of thousands of gallons of boiling water that reached well over 100 feet.

In the morning, the guide took everyone on a walking tour of Fountain Paint Pots Nature Trail, where he pointed out all four types of geothermal features found in the world: geysers, hot springs, mud pots and fumaroles.

"I was really excited to see the geothermal features because that kind of stuff just really interests me," said Geragi. "As we were walking around, it felt like we were on a different planet."

Friday, June 21

Friday was the last day of the trip and it was spent in the quaint town of Jackson, Wyo.

Some travelers, like Crotchfelt, embarked on a two-hour float cruise down the Snake River to take in the scenery and spotted bald

eagles and osprey. Others decided to spend the free morning roaming the galleries, shops and restaurants in Jackson.

"A rafting trip is normally the last thing that I would do, but it was so different than what I expected," said Crotchfelt. "Our guide took us on a tour with beautiful scenery and a lot of bald eagles; it was very relaxing."

That evening, the group was treated to one last dinner together where they talked about their favorite parts of the trip and made plans to share photos and keep in touch.

As Crotchfelt said, in addition to fantastic tour guides, the group really got along thanks to personalities that meshed well and set the tone for a great experience from the beginning.

"The group was just great," added Otto. "We were surrounded by genial people who, like us, were looking forward to new adventures. This was our first trip with Drexel's Alumni Travel Program and would we go again? The answer is yes!" **[D]**

THE BACK PAGE PUZZLE

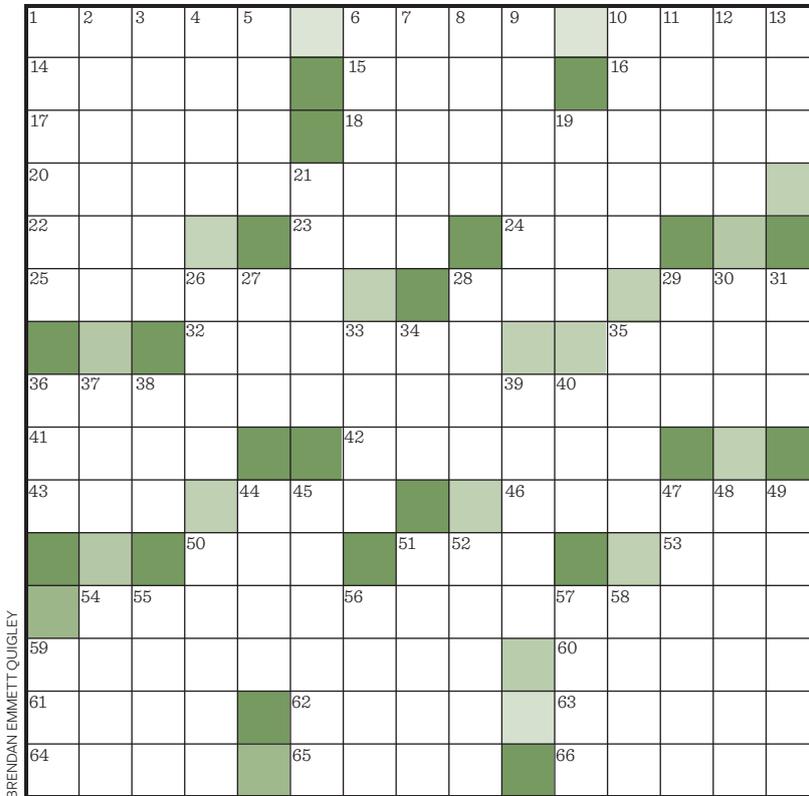
If there's one thing you can say about Philadelphia, this is a town that loves to eat. And we're proud to say that Drexel has played a part in making sure that the dining is fine by training some of the city's well-regarded chefs. See how many you can identify in this issue's crossword.

ACROSS

- 1 Smog relative
- 6 Formal agreement
- 10 Deadly Egyptians
- 14 "To err is ___"
- 15 "Was ___ hard...?"
- 16 It bugs bugs
- 17 World Chess Champion
Viswanathan ___
- 18 Ela, Blackfish, and Mica overseer
(Class of '02)
- 20 Zinc overseer (Class of '11)
- 22 Job ad abbr.
- 23 Covert WWII grp.
- 24 Cold treat (or cold treatment)
- 25 Cash in, as chips
- 28 Soft drink
- 29 Padded place for football players
- 32 Composer Andrew Lloyd ___
- 35 Metric thousand
- 36 Drexel culinary program attendee
who recently left Chifa
- 41 Conestoga drawers, often
- 42 Italian composer Albinoni
- 43 Sleuth creator Stout
- 44 School opening
- 46 The Farm and Fisherman overseer
Josh (class of '01)
- 50 Optional hwy. route
- 51 Chick-___-A (mall eatery)
- 53 "___ tree falls ..."
- 54 Theme of this puzzle
- 59 Amis Trattoria, Osteria, and Alla
Spina overser (class of '90)
- 60 Compaq button
- 61 Jambalaya
- 62 BHO and others
- 63 Jong the writer
- 64 Guilty, for example
- 65 "NYPD Blue" costar Morales
- 66 Customary practices

DOWN

- 1 Salt or pepper, e.g.
- 2 Jill's last name on "Charlie's
Angels"
- 3 Flabbergasted
- 4 Buffoonish
- 5 Some Dragons
- 6 Foes of the Romans



BRENDAN EMMETT QUIGLEY

- 7 Aramis's chum
- 8 Nun's skullcap
- 9 Auction winner
- 10 Feat of clay?
- 11 Final prelim
- 12 Point on a graph
- 13 Stop on the Market-
Frankford Line: Abbr.
- 19 ___ Street Residences
- 21 Horror film "being,"
variantly
- 26 McGregor of movies
- 27 Cooked sushi
- 28 Composer Khachaturian
- 29 Greetings
- 30 Same kind
- 31 Fermented finger food
- 33 Puts money on it
- 34 Alternative rock genre
- 35 More than think
- 36 Scan. nation
- 37 Tool used in a
lumberjack competition
- 38 Jazzman Beneke
- 39 Come-from-behind
attempt
- 40 Barcelona bruin
- 44 Mtn. road stat
- 45 Canonized monk who
introduced the custom
of dating events from
the birth of Christ
- 47 ___ wait (prepares to
ambush)
- 48 Cause's partner
- 49 Members of a Jamaican
religious sect
- 50 Major can maker
- 51 On terra ___
- 52 Response to "Who's
there?"
- 54 Vociferation
- 55 Upstate New York's ___
Canal
- 56 Itinerary info: Abbr.
- 57 Virgin folk?
- 58 One greeted by cheers
- 59 Swabbing tool

Think you've got all the answers?

If so, send your completed puzzle to the address at right to be entered into a drawing to win a great Drexel prize. And congratulations to the winner of our summer edition contest: George Peroutka, '69, of St. Augustine, Fla.

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The establishment of the Close School is a disruptive innovation in higher education and also a key component of Drexel’s holistic entrepreneurship and innovation approach, which includes Drexel’s Innovation Neighborhood and Drexel Ventures.

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Donna DeCarolis
Dean, Charles D. Close
School of Entrepreneurship



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Alumni Holiday Turkey Project

Celebrating 40 Years!

The Alumni Holiday Turkey Project provides turkeys to in-need families within the University's West Philadelphia neighborhood and to those served by Drexel's 11th Street Family Health Services Center in North Philadelphia.

Alumni and friends of the University are invited to be a part of this long-standing tradition by supporting the Turkey Project with a donation or by volunteering for our distribution event in Philadelphia on December 20, 2013. Donations in all amounts are graciously accepted, but in honor of the Turkey Project's 40th anniversary, alumni are encouraged to make a \$40 gift which would provide a turkey dinner to at least two local families. Your generous donation will help make this year's Turkey Project the best one yet!

For more information on the Turkey Project and to make your gift, contact the Office of Alumni Relations at 1.888.DU.GRADS

drexel.edu/alumni

