Chris Ferguson, ’84, talks about our future in SPACE
100

Graduates who received their degrees at Drexel’s Sacramento Center for Graduate Studies in June. It was the first Drexel graduation to be held outside of Philadelphia.
<table>
<thead>
<tr>
<th><strong>THE LEDGER</strong></th>
<th><strong>[ A NUMERICAL ANALYSIS OF LIFE AT DREXEL ]</strong></th>
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</thead>
<tbody>
<tr>
<td>$737,676</td>
<td>Amount raised by faculty and staff during the 2011 “Why I Give Campaign.” A record 54 percent of faculty and staff participated in the campaign.</td>
</tr>
<tr>
<td>156,234</td>
<td>Total combined square footage of 3001, 3003, 3025 and 3051 JFK Boulevard, which Drexel purchased in July for $21.6 million. The properties, currently used as surface parking lots, will be leveraged for future expansion of Drexel's campus. Said President <strong>John A. Fry</strong>: “This acquisition is a major investment in the University’s future.”</td>
</tr>
<tr>
<td>65,000,000</td>
<td>Approximate age of the turtle fossil unearthed by <strong>Ken Lacovara</strong>, director of Drexel's Paleontology and Geology program, during a June dig in Sewell, N.J.</td>
</tr>
<tr>
<td>24</td>
<td>Nursing educational professionals who took part in a clinical simulation—an outbreak of a zombie-creating virus—at the College of Nursing and Health Professions in August. “They were completely confused, they were frustrated, they didn’t know where things were,” organizer <strong>Carol Okupniak</strong> said later. “That is exactly what we wanted to accomplish.”</td>
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<td>5,000</td>
<td>Netbooks to be distributed to Philadelphia Housing Authority residents by the organizers of The Freedom Rings Partnership, which includes Drexel. The program aims to increase digital literacy among the disadvantaged.</td>
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<td>93</td>
<td>Number of points scored by the Drexel women’s basketball team in a big win in early September—a win that took place in Italy, against professional team Pomezia. Two days later, the Dragons knocked off AD Firenze Basket, another professional team, 65-46.</td>
</tr>
<tr>
<td>8/5/2011</td>
<td>The date on which the Earle Mack School of Law received full accreditation from the American Bar Association, a true milestone for the School.</td>
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<tr>
<td>1,891</td>
<td>Patients studied by <strong>Joke Bradt</strong>, an associate professor in Drexel University’s College of Nursing and Health Professions, in her recent research about the benefits of music to cancer patients. Bradt found music can reduce anxiety and pain and improve overall quality of life.</td>
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<tr>
<td>190</td>
<td>Employers who participated in the Drexel Fall Career Fair on Oct. 12. That’s a 20 percent increase from last year, despite a tight labor market. There has also been a 66 percent increase in the number of full-time jobs posted for Drexel graduates.</td>
</tr>
</tbody>
</table>
There’s nothing like a magazine for telling great stories, and the magazine in your hands tells wonderful stories about the people and ideas that animate today’s Drexel University. For Drexel alumni, these are YOUR stories.

You are part of an unbroken timeline that connects yesterday’s achievements and innovations at Drexel with those of today and tomorrow. Your ongoing belief in Drexel is a critical component of our success.

So I’m proud each time we improve how we communicate with alumni, including this redesigned and reimagined alumni magazine—the new Drexel Magazine.

The stories told by new editor Tim Hyland and his group range from alumni astronaut Chris Ferguson’s elegy for the Space Shuttle program, to squash legend and new Drexel coach John White’s thoughts on his sport, to a look at our historic affiliation with the Academy of Natural Sciences through the prism of some of the Academy’s most fascinating scientists.

In truth, the tales we could include about Drexel are nearly endless. That’s why I’m so excited to lead this institution, and to get to know our impressive alumni community.

The new academic year promises more highlights, some of which will impact the story of Drexel going forward. In the coming months we will unveil a new strategic plan that will include an academic plan, a campus master plan, an enrollment plan, a capital campaign prospectus and more. Developed collaboratively among stakeholders across Drexel, the strategic plan will serve as a roadmap as we strengthen the University and position it for continued success in the next decade.

This year will also see the first fruits of the Academy of Natural Sciences affiliation, as well as the announcement of more transformative campus development projects.

I encourage you to keep tabs on your alma mater, and to let us know what’s on your mind. Tell us your stories—after all, they’re a part of the Drexel story.

Sincerely,

John A. Fry
President
EDITOR’S NOTEBOOK

During my first five months here at Drexel, our campus was both slammed by a hurricane and shaken by an earthquake.

The former sent most of Philadelphia scurrying to the stores for batteries and bottled water before dumping buckets of rain on an already sopping-wet city. The latter arrived out of the blue on an otherwise nondescript Tuesday afternoon, rumbled for a good seven seconds or so, and made all of us working here in Main Building wonder, at least for a moment or two, just how earthquake-safe a building from the 1800s could possibly be.

In other words, it’s been an eventful first few months.

But I must admit: Neither the hurricane nor the quake stands out as the most memorable event of the past half-year. In truth, neither is even close. And I suppose that’s a testament to just how exciting things have been here at Drexel of late.

Under the leadership of President John A. Fry, Drexel has continued transforming itself in most every way—launching new partnerships, building beautiful new facilities, and forging new connections both here in Philadelphia and in all corners of the globe. In this new (and, yes, completely redesigned) issue of Drexel Magazine, we take a look at just a few of the amazing initiatives and remarkable people that are reshaping our campus, revitalizing our neighborhood, and changing the way the world looks at Drexel.

• In May, Drexel formally announced its exciting new affiliation with The Academy of Natural Sciences—a venture that joins together two of Philadelphia’s most renowned and respected institutions. In “Perfectly Natural” (Pg. 26), associate editor Katie Clark and photographer Ryan Donnell introduce you to a few of the people that have helped make the Academy a leading light in natural sciences research.

• With the opening of the Papadakis Integrated Sciences Building in September, Drexel made a real statement to the world of higher education—a statement about its ambitions as not only a major research institution, but a home for beautiful design as well. The stunning new facility has brought new life to campus, and in “A Great Leap Forward” (Pg. 34), Richard Quindry offers a photographic tour that will give you a sense of just how dramatic and beautiful this building really is. But take our advice: You really need to come see it for yourself.

• Christopher Ferguson, ’84, will forever hold a unique place in American space history: He served as Commander for the last-ever Space Shuttle mission, guiding the Atlantis up into low-earth orbit and safely back to earth in July, and bringing an end to a program that revolutionized space travel. In our cover story (Pg. 42), Ferguson offers his thoughts on the legacy of the Shuttle, NASA’s new direction, and what he plans to do now that the Shuttle is no more.

We also have coverage of President Fry’s October trip to China, a look ahead to a big season for Drexel basketball, an update on the building project at the LeBow College of Business and more.

We hope you enjoy this issue of Drexel Magazine (including our new look) and hope, too, that you’ll share your thoughts with us. We welcome your letters to the editor via email at magazine@drexel.edu or through traditional mail at the address at right.

Thanks for reading—and thanks in advance for the feedback.

Sincerely,

Tim Hyland / Editor
CONTRIBUTORS

**Kelly Andrews** is a Philadelphia-area freelance writer. She is a former Editor of the Wharton Alumni Magazine and former managing editor of the late, great CDNOW. She holds a humanities degree from Johns Hopkins University and a master of liberal arts degree from the University of Pennsylvania.

**Ryan Donnell** (“Perfectly Natural,” Pg. 26) has covered stories and created portraits for such editorial clients as Fortune, Money, Outside and Time, among many others. He studied photojournalism and documentary photography at the University of Missouri and previously worked as a daily newspaper photographer in both Washington, D.C., and Dallas. He lives in Philadelphia.

**Mike Unger** (“A Smash Hit,” Pg. 20 and “Last Man Standing,” Pg. 25) has been writing since he first started scribbling sports scores as a young kid. He’s been getting paid to do it for the past 12 years, during which time his work has appeared in magazines including Washingtonian, Maryland Life, Blues Revue, and Baltimore Magazine, for which he is a regular contributor. He lives in Baltimore.


**Robert Seale** (“Our Future In Space,” Pg. 44) is an award-winning photographer whose work has appeared in such publications as Sports Illustrated, ESPN The Magazine, Men’s Health, Rolling Stone and Air & Space. His photographs have graced the cover of The Sporting News more than 200 times. He lives in Houston, Texas.

**Steve Boyle** (“A Smash Hit,” Pg. 20) creates photographs for magazines, corporations and advertising agencies. Raised in the suburbs of Philadelphia, he studied photojournalism at the University of Missouri-Columbia. Steve formerly worked as a lighting technician for Sports Illustrated and a photo editor for Runner’s World before beginning his freelance business and working with clients such as ESPN The Magazine, Gatorade and Philadelphia Magazine. He drives a Honda Pilot named George.


**Tommy Leonardi** (“A Suburban Paleo-Adventure,” Pg. 34) discovered photography as a pre-med college student. His unexpected 24-year career has led to his images appearing in hundreds of publications and advertisements for research and educational institutions and corporations. His photographs have also have also appeared in magazines such as Sports Illustrated and Newsweek.
Building Boom

With a series of major building projects, Drexel is transforming the landscape of University City. *By Mark Eggerts*

Few American universities have equaled Drexel’s sustained growth and academic transformation over the past 15 years. And few find themselves remaking their campuses as rapidly.

Bucking the economic trend, Drexel continues to draw up plans, dig foundations and create signature buildings for its University City campus.

With nearly half a million square feet of new academic space on the horizon, keeping tabs on the building boom can be difficult. Here, then, is your primer on three major projects, ranging in status from the drawing board to dedication, that promise to remake the Drexel experience for students and faculty.

**BREAKING GROUND:** The New LeBow College Building

**THE FACTS:** 177,500 square feet at 32nd and Market Streets; designed by Robert A.M. Stern Architects and Voith & Mactavish Architects; scheduled for completion in 2014.

**THE SHOW-STOPPER:** A 12-story tower bringing visibility to LeBow College and Drexel’s campus up and down Market Street.

**THE IMPACT:** Seventy percent of LeBow College faculty have joined the University within the past 10 years, a period in which the College created five centers ranging from entrepreneurship to corporate reputation management and saw its programs enter the ranks of the world’s best, according to numerous sources. Alongside 2003’s Pearlstein Business Learning Center, the new building will create a nexus for the teaching, research, business incubation and executive-level collaboration that is the lifeblood of LeBow College. Thanks to a remarkable $45 million leadership gift from Drexel alumnus and College namesake Bennett S. LeBow, the University is able to undertake perhaps the most ambitious building project in its history.

**THE FINAL WORD:** “This space will strengthen research, learning and collaboration for students and faculty and be a gathering place for the business leaders in the LeBow Network. The result will be an incubator of knowledge and an initiator of real-world solutions for business problems. I think people will be surprised by how much space is dedicated to student use—not just classrooms and auditoriums, but spaces for meetings, collaboration and networking. Archimedes said, ‘Give me somewhere to stand, and I will move the earth.’ This building will give us somewhere to stand that will be the envy of other business schools.”—George Tsetsekos, R. John Chapel Jr. Dean, Bennett S. LeBow College of Business
**THE FACTS:** 156,000 square feet at 3501 Market Street and 3401 Filbert Street; originally designed by Venturi, Scott Brown and Associates and Bower, Lewis & Thrower; comprehensive renovation by Meyer, Scherer & Rockcastle scheduled for completion in 2012

**THE SHOW-STOPPER:** 3501 Market’s iconic mosaic façade marking the 1978 building as the quintessential expression of Pritzker Prize winner Robert Venturi’s “decorated shed” concept, widely lauded as a key break between modern and postmodern architecture

**THE IMPACT:** The Westphal College of Media Arts & Design currently houses its award-winning programs in nine different buildings across campus, but that will change when the URBN Center is complete. Sparked by an anonymous $25 million gift, this “space to create” will offer the latest in creative technology—like 3D printers, digital music labs, a motion capture studio and rapid design prototyping systems, to name a few—distributed across studios, classrooms and common spaces that bring people together and bring light to ideas. Even as the historic exterior of this landmark building continues to inspire, the reimagined interior will see the boundaries of creativity extended in ways that can remake the world.

**THE FINAL WORD:** “The URBN Center will foster casual and formal collaborations across disciplines, providing the interdisciplinary approach that we feel is central to today’s design and media fields. We are enormously pleased to bring all our students and faculty under one roof in one beautifully designed and technologically state-of-the-art-facility. And we welcome the enhanced opportunities we’ll have to display the inspiring creative work created by our students and faculty.”

—Allen Sabinson, Dean, Antoinette Westphal College of Media Arts & Design
The Papadakis Integrated Sciences Building

**THE FACTS:** 150,000 square feet at 33rd and Chestnut Streets; designed by Diamond and Schmitt Architects; dedicated in September 2011

**THE SHOW-STOPPER:** A five-story “biowall” of plants that acts as a living air filter in the spacious atrium—as well as a research subject for faculty and students

**THE IMPACT:** A ripple effect begun by Drexel’s acquisition of the College of Medicine has led to a watershed moment for biological science and the College of Arts and Sciences. With fivefold growth in entering biology students over the past decade and a flourishing of research enterprise, not to mention the University’s new affiliation with the Academy of Natural Sciences, the need for this cutting-edge building was obvious. Its custom labs and classrooms designed by researchers and teachers will incubate new discovery and collaborations, and attract new generations of great students and faculty. The Constantine N. Papadakis Integrated Sciences Building also embodies Drexel’s commitment to sustainability, and is a fitting legacy for its transformative 12th president.

**THE FINAL WORD:** “This building reflects the true value of our current faculty while aiding recruitment of further high-caliber research faculty and opening up more opportunities for student research. The impressive atrium signifies important aspects of the work that will go on in the building: the spiral staircase reminiscent of DNA, the biowall demonstrating the power of a living system to improve the environment and the open space welcoming interactions among faculty and students. This is not simply a step in our upward trajectory, but a catapulting leap.” —Donna Murasko, Dean, College of Arts and Sciences

For more images from the Papadakis Integrated Sciences Building, see “A Great Leap Forward,” pg. 34.
Smart House Project Honored

The Drexel Smart House project, which aims to transform a late-19th century Powelton Village residence into a “living laboratory” for exploring cutting-edge design and technology, received a 2011 NOVA Award during the organization’s third annual symposium in October in Philadelphia.

The awards are presented annually to those who have made outstanding contributions in the area of new and green energy alternatives or sustainable innovations in existing energy technologies.

The Smart House was nominated in the Educational Case Study category for its student-led, multidisciplinary approach to developing a sustainable model for urban residential living and entrepreneurial innovation. Participants in the Smart House program conduct research and develop designs in the areas of environment, energy, interaction, health and lifestyle with the goal of improving quality of life in the urban residential setting.

Founded in 2006, the Smart House project has since procured a 4,900-square-foot, 19th century Victorian twin home in Powelton Village, which it hopes to renovate to redefine urban living through the use of sustainable technologies and dynamic environments. The project has raised more than $300,000 in research funding through grants and awards for student proposed research, including a recent $75,000 Federal EPA P3 Grant. The project has also been awarded a $25,000 NCIIA grant to establish a seed fund in order to disperse micro-grants to students in the prototyping phase.

For more information, visit www.drexelsmarthouse.com.

A Gateway for the Future

Drexel in late June purchased a 3.6-acre lot on John F. Kennedy Boulevard that will one day become a new gateway to campus. The 156,234 square-foot property, purchased for $21.8 million, is currently used as a parking lot, and will give Drexel flexibility as it continues to change the face of University City (“Building Boom,” Pg. 6)

“This acquisition is a major investment in the University’s future,” said President John A. Fry. “The prime location of this site will significantly enhance Drexel’s capacity to be a powerful engine for regional economic growth.”

Plans for the development of the land are still preliminary. Potential uses of the site include the growth and expansion of the University’s academic and student life facilities, the development of commercial spaces for retail and office use and the opportunity to build a major research and technology transfer hub.

The acquisition supports Fry’s vision for Drexel to become one of academia’s most powerful engines for neighborhood improvement and regional economic growth. Neighborhood initiatives include expanding security patrols around campus, sprucing up the city streets, providing financial incentives for employees to buy homes within key neighborhoods in West Philadelphia, adding more housing for students, partnering with neighborhood public schools and developing retail space on major streets to serve Drexel and its surrounding communities.

On June 25, Drexel awarded 108 master’s level diplomas at the first-ever Commencement held at the Center for Graduate Studies in Sacramento.

The Commencement included students who enrolled in Drexel master’s degree programs in 2009. To date, Drexel has enrolled 424 students in its doctoral, master’s and post-baccalaureate programs in Sacramento since opening its Center for Graduate Studies in January 2009.

More than 700 people, including graduating students, their families and friends, Drexel alumni, Sacramento faculty and senior staff members, came together to celebrate the commencement and subsequent reception at Sacramento’s Crocker Art Museum.

“Two and a half years ago, Drexel University embarked on an innovative program to provide high-quality advanced degrees to working professionals in Northern California,” said Carl “Tobey” Oxholm III, former senior vice president of Drexel and the inaugural Dean of the Center for Graduate Studies. “These first graduates joined us, willing to be a part of creating something new for Drexel University, new for this community, and at the cutting edge in higher education.”

Michael Kieschnick, co-founder, president and chief executive officer of CREDO/Working Assets, delivered the keynote address. He was presented with an honorary doctorate of humane letters for his lifetime commitment to civic engagement and social justice.

Sacramento Mayor Kevin Johnson also spoke at the event, and encouraged graduates to not be “satisfied with what you have done.”

“Leave here today knowing that you have the energy and attitude and ambition and the ability to be the kinds of leaders that our community desperately needs,” Johnson said. “I am proud to be an Honorary Member of the Inaugural Class of Drexel University in Sacramento. And we are very proud to welcome 100 Drexel graduates into our community. Go Dragons!”
LOOK! Public Art Project Reimagines Lancaster Avenue  
By Kelly Andrews

First you notice the abstract mosaic in the shop window, the Lancaster Avenue street scene reflecting in the spaces between the bright scales on the glass. Then you realize the oddly shaped tiles are plastic tabs that once closed bread bags. The name of the work is “Celebrating the Uncelebrated,” by Drexel assistant teaching professor Paul Schultz, and it is one of the many intriguing pieces featured during LOOK! On Lancaster Avenue, an innovative public art project, launched earlier this fall, that provoked new ways of seeing the commercial corridor neighboring Drexel’s campus.

The LOOK! On Lancaster Avenue project grew out of the nexus of long-time neighborhood connections and Drexel President John A. Fry’s commitment to community outreach.

When Fry hired Lucy Kerman as Vice Provost of University and Community Partnerships earlier in the year, Blaise Tobia made it a point to introduce himself. An artist and a professor in the Art and Art History Department, Tobia has lived in Powelton Village for 20 years. Until recently, he was one of only three full-time faculty members who called Drexel’s neighborhood home.

“John Fry and Lucy Kerman both believe that the arts are a key way to make cultural and economic improvements to communities,” he said. When Kerman told him she wanted to meet local artists and arts leaders, Tobia put together a contact list and began making calls.

“At first we didn’t have a project in mind—we just wanted to build relationships,” Tobia said.

But when the possibility of a grant from the City of Philadelphia’s ReStore Corridors Through Art program emerged, Tobia made formal plans for collaborative project between Drexel and the neighborhood. LOOK! On Lancaster Avenue was conceived as a series of storefront displays, in keeping with the goal of the grant program—specifically, revitalizing commercial districts through the arts.

Drexel ending up more than matching the city funds, and also lent the talents of its faculty, administrators and students. Other neighborhood institutions, including the University City District (UCD), got involved as well.

“We moved on an accelerated timetable,” said Tobia. “Because I’m an artist and I’ve lived in the neighborhood for 20 years, I know a good portion of the artists. I reached out to them, and I asked them to reach out to people they knew who I didn’t know.”

A group of about 40 artists and leaders began scoping out the avenue—photographing the buildings, contacting the landlords and finally putting out a call for proposals for each wall and window site.

They received more than 200 proposals. A jury of highly respected West Philly artists selected the 12 best.

In keeping with the LOOK! name, many projects inspire double takes, contrasting and harmonizing with the public art and commercial signage along the Lancaster Avenue corridor. A brightly painted security grid offers vibrant contrast to a weathered building. Digital images of horses recall the history of a former stable. Wheat-paste images of chairs and tables in a one-time furniture shop appear to have always been there, almost as familiar as the landmark painted signs at Honest Lou’s Exterminators.

Revitalizing Past and Future
Tobia coordinated a galleries committee that ended up including about eight shows, some of which are in “pop-up galler
2012 marks the Chinese Year of the Dragon, and with more than 135,000 Drexel Dragons of our own, it only seemed fitting for the Alumni Association to join in the festivities and celebrate this special occasion.

Beginning on January 23, 2012, the official start to the Chinese Year of the Dragon, the Alumni Association will kick off an exciting year-long series of signature experiences for Drexel alumni.

Some events will be held in Philadelphia, while others will take place in cities around the world. If you’re unable to attend a Drexel Year of the Dragon event, you will always have the opportunity to participate in some way online or via social media. And alumni who come to or participate in a certain number of Drexel Year of the Dragon events or programs will be rewarded with opportunities to compete in contests and prizes.

Those born in the Year of the Dragon are described by the Chinese Zodiac as innovative, enterprising, self-assured and passionate. Interestingly, we use the same characteristics to describe our alumni. So show your dragon pride and join in this year-long celebration of our favorite fire-breathing friend.

Stay tuned for more details on the Drexel Year of the Dragon in the upcoming months, or visit drexel.edu/alumni/yearofthedragon throughout the year for the latest information. Don’t miss out on the festivities—the Year of the Dragon only comes around once every twelve years!

As part of Drexel’s Year of the Dragon, the Alumni Association is compiling a list of 366 life lessons (2012 is a leap year) that our alumni learned at Drexel. Most people have heard of, “All I Really Need to Know I Learned in Kindergarten.” But we like to think that all you really need to know you actually learned at Drexel. If you agree, send some of your Drexel life lessons, along with your first and last name and class year(s), to alumni@drexel.edu or visit drexel.edu/alumni/yearofthedragon and we’ll consider adding them to our list.

We’ll begin sharing our Drexel life lessons on Facebook, Twitter and our Web site starting on the first day of 2012, and continuing each day until December 31. Join in the fun and follow along with us throughout the Year of the Dragon. You just might learn a thing or two. - Lara Geragi
President John A. Fry has been open about his ambitions to make Drexel a truly global university.

Recently, he delivered on that promise. Fry traveled to China’s Shanghai Advanced Research Institute (SARI) in October to sign a collaboration agreement that will bring together researchers from the two institutions for pioneering work in scientific and technological innovation. He was joined by several other Drexel officials, including Julie Mostov, Vice Provost for Global Initiatives. The new Drexel-SARI Center will be a permanent home for Drexel’s research collaborations and educational partnerships with SARI and other institutes of the Chinese Academy of Sciences, offering Drexel faculty insight into the latest technology and innovation in China.

SARI aims to promote sustainable economic and social development, interdisciplinary exploration and innovation, and advanced platforms for technology development. The Institute was jointly established by the Shanghai municipal government and the Chinese Academy of Sciences, China’s leading national comprehensive research and development center in natural sciences and innovative technologies.

“Drexel is proud to launch this collaboration with the Chinese Academy of Sciences, a driving force in China’s development as a great hub for high-tech innovation,” Fry said during a special ceremony on Oct. 19 in Shanghai. “Together, our institutions can expand opportunities for groundbreaking research, outstanding education and the translation of new technologies to commercial applications.”

Drexel alumnus and Vice President of the Chinese Academy of Sciences and President of the Shanghai Branch Jiang Mianheng, ’91, was instrumental in establishing the research connections that have led to the Drexel-SARI...
Center. Jiang Mianheng received a doctoral degree in electrical and computer engineering from Drexel’s College of Engineering in 1991. His father, Jiang Zemin, former president of the People’s Republic of China, made a major international visit to Drexel during his presidency in 1997.

“Our distinguished alumnus Jiang Mianheng played a key role in establishing this partnership,” Fry said, “and I thank him on behalf of the University.”

The Drexel-SARI Center will serve as a base in Shanghai for other Drexel educational endeavors including internships and co-ops, and provide staging space for a wide range of programs, symposia and executive training for scientists and engineers covering all aspects of technology commercialization strategy.

Located in the Shanghai Pudong Science and Technology Park near SARI, the Drexel-SARI Center will be managed by an advisory board, a steering committee and a lead scientist. Both Drexel and SARI will fund the Center’s operations and research projects.

Among the first research collaborations at the Drexel-SARI Center will be a joint research initiative led by Wei Sun, Albert Soffa Chair Professor in Drexel’s College of Engineering and School of Biomedical Engineering, Science and Health Systems, and scientists from SARI’s Life Science Department to apply 3D cell assembly technology to generate in vitro cellular cancer models used for drug screening testing.

Engineering professor Yury Gogotsi, director of the A.J. Drexel Nanotechnology Institute, has also proposed expanding his study of nanomaterials for biomedical applications with SARI colleagues at the Drexel-SARI Center.

The SARI partnership is not Drexel’s first initiative in China. In May 2011, Fry led a Drexel delegation to Shanghai Jiao Tong University, where he and SJTU Vice President Lin Zhongqin signed an agreement for a dual doctoral program in biomedical engineering, building on Drexel’s already strong partnership with SJTU. Fry also signed agreements with Gu Binglin, president of Tsinghua University in Beijing, promoting student exchanges and faculty collaboration.

**ABOUT THE CHINESE ACADEMY OF SCIENCES**

Founded in Beijing in 1949, Chinese Academy of Sciences (CAS) is a leading academic institution and comprehensive research and development center in natural science, technological science and high-tech innovation in China. CAS strives to build itself into a scientific research base at an advanced international level, a base for fostering and bringing up advanced science and technology talents, and a base for promoting the development of China’s high and new technology industries.

**ABOUT THE SHANGHAI ADVANCED RESEARCH INSTITUTE**

The Shanghai Advanced Research Institute (SARI) is a research institute jointly established by Chinese Academy of Sciences (CAS) and Shanghai Municipal government. SARI is located at CAS Pudong Science and Technology Park, which covers an area of the southwest of Zhangjiang Hi-Tech Park, Pudong New District. SARI is tasked with the planning, organization, implementation and coordination of the development of CAS Pudong Science and Technology Park, as well as the execution of its innovation and R&D activities. SARI’s operation covers five research areas, namely, Frontier Studies and Advanced Materials, Information, Space and Marine, Energy and Environment, and Life Science and Technology, with a technology transfer center and education and training.
Autumn on the Wissahickon

ca. 1863
Thomas Moran (1837–1926)

**OIL ON CANVAS, 36” x 29”**

*The Drexel Collection*

*Autumn on the Wissahickon,* a magnificent landscape of Philadelphia’s woods along the Wissahickon Creek, by Thomas Moran, is one of the most significant paintings in The Drexel Collection.

Moran’s paintings illustrate his interest and skill in capturing the beauty of nature in the forested landscapes of Philadelphia, the mountains and rivers in Yellowstone National Park and the Grand Canyon, and the coasts of East Hampton, Long Island.

Moran (1837–1926) was born in Bolton, Lancashire, England to a family of textile weavers. The Morans emigrated to America in 1844 to escape the hardships of the Industrial Revolution in England and settled in Kensington, a working district in Philadelphia that was a financially dependable location for immigrant textile workers. Thomas, along with his other siblings, showed artistic talent at a young age.

Moran studied in the Philadelphia school system until age 15 and then apprenticed with the engraving firm of Scattergood and Telfer. He found the engraving process tedious and began painting with watercolors and oils. In 1856, Thomas and his brother, Edward, also an aspiring artist, rented a studio in Philadelphia. He had his first exhibition at the Pennsylvania Academy of the Fine Arts in 1856.

Initially, Thomas Moran’s artistic style was influenced by the Philadelphia artists Paul Weaver (1823–1916), a landscapist, and James Hamilton (1819–1878), a student of the works of the British artist James Mallord William Turner (1775–1851). In 1862, Thomas Moran traveled to the British Isles with his brother, Edward, to see Turner’s original works. Turner’s use of intense color influenced Thomas Moran’s landscapes throughout his life.

Thomas Moran painted *Autumn on the Wissahickon* in October and November of 1863. He stated that the painting was “incited by a most glorious Autumn.” The painting was sold by the James S. Earle & Son Gallery to Anthony J. Drexel in May, 1864.

—Jacqueline M. De Groff, Curator

To learn more about The Drexel Collection, visit [drexel.edu/drexelcollection](http://drexel.edu/drexelcollection)
“Basically, all of special relativity would be wrong. I’m fairly skeptical. I expect most people are.”

—Drexel University physics professor Dave Goldberg, reacting to recent supercollider experiments in Switzerland that indicated some particles can travel beyond the speed of light.

“The biowall] is biology in action. What you’re seeing is a biological application in real life, coupled with engineering, that works to do something that we think is going to improve human health.”

—Shivanthi Anandan, associate professor of biology in the College of Arts and Sciences, on the five-story biowall in Drexel’s Papadakis Integrated Sciences Building.

“The modern research university has one additional capacity that helps characterize it, and that is the capacity to transform itself through growth, partnerships and affiliations.”


“We’re the only school in the country that is actually powering a sign. Twenty years from now we’re going to need people to exercise in order to power the building.”

—Dan Simmons, associate athletic director for recreation, about Drexel’s “human power plant,” in which students on elliptical machines light up a sign in the Drexel Recreation Center.

“Our findings continue to unmask the pretense that big-time college sport is about ‘kids’ playing ‘games.’”

—Ellen J. Staurowsky, a sport management professor in Drexel’s Goodwin College, on her recent study that showed college athletes are worth as much as six figures.

“The Drexel of today is not the same Drexel I matriculated at, and that is a great thing.”

—Adam Trosko, president of the Undergraduate Student Government Association, during 2011 Convocation ceremonies.
Greece accounts for just one half of one percent of the world’s $63 trillion economy. Yet economists have been fearing for months that its mounting debt problems could shake the global financial system and help tip the U.S. back into recession.

The question, of course, is simple: Why? Why can such a comparatively small economy have such catastrophic impact on not only its European partners, but the world as a whole as well?

To hear Drexel experts tell it, the answer lies in the very complexities of the global economy itself—an economy that it more integrated, and less constrained by borders, than ever before. “The financial markets across the Atlantic are highly integrated with each other and are highly susceptible to contagion,” says Shawkat Hammoudeh, professor of economics at Drexel’s LeBow College of Business. But, he adds, “What happens in Europe does not stay in Europe.” In the U.S., he notes, the fallout could include higher unemployment, lower housing prices and a stock market crash, he says.

Greece has immense government debt; it owes 1.5 times more than the entire country’s economy produced in 2010, according to figures from the International Monetary Fund. If it defaults on its debt, as many economists expect, it could unleash a cascade of problems that could grow to global proportions—with the fragile U.S. economy in its path.

Such a crisis is almost unthinkable, and that’s one reason that other nations may intervene to prevent it, says Marco Airaudo, assistant professor of economics at LeBow. Speaking by telephone from his hometown of Turin, Italy, Airaudo says, “If Greece were on its own, you could see Greece defaulting. But the perception we have in Italy is that the European Central Bank would do anything possible to avoid a Greek default. For the same reason, I think a default by one of the other European countries is also very unlikely. “There is so much at stake. If one country defaults, it would be a big blow to confidence in the Eurozone. The price of a catastrophe is so large that the possibility of default is very small,” says Airaudo. “There would be political intervention to avoid it.”

Greece alone probably wouldn’t topple the financial system. Rather, it would trigger events that could cause downstream carnage, beginning with large European banks. Many bought Greek bonds, and if Greece defaults, those bonds would become essentially worthless, and the banks would take a financial hit. Even now, the bonds are worth much less than the banks paid for them, according to the International Accounting Standards Board.

There are also fears that Greece’s problems would spread to other debt-ridden nations of Europe—Portugal, Ireland, Spain and Italy—
and if so, the banks would be in even worse shape. Many invested heavily in those nations’ bonds as well. Economists often note that it was the failure of the major New York investment bank Lehman Brothers that plunged the world into financial chaos in 2008.

American banks are interlinked financially with their European counterparts, so they too are expected to suffer from a European banking crisis. “Recently the Federal Reserve underscored the fact that big U.S. banks remain vulnerable to Europe’s financial contagion,” says Hammoudeh. “The U.S. banks that are likely to be exposed to this contagion are J.P. Morgan Chase, Bank of America, Citigroup, Goldman Sachs, and Morgan Stanley.”

If U.S. banks suffer (and they stand to lose billions of dollars) the losses would erode cash reserves that they are required to maintain in order to buffer themselves against insolvency from bad loans, he adds. With lower reserves, banks couldn’t issue as many new loans, a big blow to a U.S. financial system that runs on credit. “That would impact businesses and the consumers—the whole U.S. economy,” says Hammoudeh.

A European crisis would also likely cause the Euro to plunge in value against the dollar. That would make U.S. exports to Europe, our biggest trading partner, more expensive. “The U.S. had two engines of growth,” says Hammoudeh. “One was government spending, the other was exports. Now government spending has declined and so we have one engine left: exports. If Europe slows down, that will weaken that engine of growth.”

In turn, as Europe and the U.S. slowed down, they would buy less from emerging economies such as China, which have been global engines of economic growth, he says. “So if they slow down because of shrinking demand for their products from Europe and the U.S., that would further impact the U.S. and Europe.”

Europe’s troubles have increasingly rattled the U.S. stock market. “In our economy, everything is linked,” says Wes Gray, assistant professor of finance. “If one boat isn’t floating, that’s not helping the other boats.”

But the situation could get much worse, and it would hit at a time when the American economy is struggling to emerge from the Great Recession. “If we had an awesome economy we probably would be able to take that shock,” says Gray. “But we don’t have any extra rabbits to pull out of the hat at this point. We have an unstable housing market with limited prospects to improve anytime soon. We have high joblessness. Credit is available, but it’s not there for people who actually need the money.”

A few parts of the U.S. economy are in better shape than they were before the Lehman Brothers collapse. For instance, corporations have since piled up cash reserves after heavy cost-cutting boosted profitability. In the case of an economic downturn, they will likely fare better than cash-strapped companies did in 2008.

The U.S. could hope to ride out a European downturn, and in fact, there is precedent for that, says Airaudo. “If you look at what has happened in the past, when something goes wrong in the U.S., there will be a negative impact in Europe. But when something goes wrong in Europe, there is not a big impact on the U.S. The current situation is a little bit different, but still, if you look at the data, we cannot say for sure that if something goes wrong in Europe that the U.S. will be severely affected.”

Others think a European crisis would quickly spread. “I think it would come to the U.S.,” says Hammoudeh. “We have a global economy. Everything is related to everything else. And the worst part of what’s happening in Europe is that it’s something that this country cannot control.”
In early June, a team of Drexel researchers and students led by Ken Lacovara, associate professor of biology, made big news with a big find in suburban New Jersey: A 3-foot-wide fossil of an extinct predatory marine turtle known as Taphrosphys. It was the largest specimen of the turtle on record. Here, we offer you a look at the site where the massive turtle was unearthed—and an introduction to the team that found it.

1 /// THE PROFESSOR: Big discoveries are nothing new for Lacovara. During a 2005 expedition to the barren plains of Patagonia, he discovered the remains of one of the largest dinosaurs on record, Paralititan stromeri. His team worked for five years to excavate the 16-ton fossil, which is currently under study in his lab in the Papadakis Intergrated Sciences Building.

2 /// THE SITE: The turtle was unearthed in a mine pit located smack in the middle of the New Jersey suburbs. Indeed, the pit itself is located behind a big-box store shopping center, and is a short ride from always-busy Route 55. Despite its nontraditional location, Lacovara says the site offers the best exposed Cretaceous-age rocks that can be found anywhere between Spain and Montana.

3 /// THE SOIL: Entering the dig site is almost like entering another planet. The soil is not brown here, but rather deep forest green—a color derived from a mineral called glauconite that is used in water-treatment plants and in fertilizers.

4 /// THE WATER: The bottom of the pit is muddy, soupy and soaked through with bright orange water. High iron content is the reason why.

5 /// THE METHOD: It’s pretty simple: To find anything at the site, you have to dig. And dig. And dig. But you have to know where to stop. The narrow layer that produces fossils is only 6 inches wide.

6 /// THE PH.D. CANDIDATE: Elena Schroeter is a National Science Foundation Research Graduate Fellow who came to Drexel after doing her undergrad work at the University of Chicago. A native of the Windy City, Schroeter says the Sewell site offers a unique opportunity for aspiring paleontologists. “One thing about living in the Midwest is that there isn’t any Cretaceous-era rock around you,” she says. “Here, you hop in your car on campus and you’re here in 20 minutes. It kind of blows the mind.”

7 /// THE UNDERGRAD: Nathan Shiff, a biology major, has always been passionate about dinosaurs, and after taking Lacovara’s undergraduate course in paleontology, he says he’s hoping to follow in his professor’s footsteps and someday enjoy a similar career. Oh, and there’s this: He has a tattoo of a dinosaur on his back.
A Smash Hit

When Drexel decided to launch a varsity squash program last year, it hired one of the world’s most accomplished players to run the show. Now, the challenge for John White is simple: Build a program from scratch. And win.

By Mike Unger
If John White builds Drexel’s new squash program as fast as he can smash a ball, the Dragons will be winners in the blink of an eye.

One of the sport’s most popular players, White holds the world record for the fastest recorded squash shot—an astounding 172 miles per hour. As the University’s first head squash coach, he’s attacking the job of assembling varsity men’s and women’s teams with the same ferocity.

“I want the players to realize how much enjoyment they can get out of being on a team,” he said. “Within [a few] years I’d like to reach the top 10. The top teams have some unbelievable athletes. You get to that level and it becomes a different kettle of fish.”

White would know. He reached No. 1 as a professional player, and last year coached Franklin & Marshall College’s men’s team to the No. 8 ranking in the country. That’s the level of success Drexel Athletics Director Eric Zillmer hopes to replicate in Philadelphia, a hotbed for squash.

“I can’t think of a better individual leading our new squash program than John White,” Zillmer said. “He is a charismatic coach, a genuine person, and simply irresistible in his enthusiasm for the sport.”

Like the other boys growing up down under in Queensland, Australia, White competed in soccer, rugby, and cricket. But from the age of 8 he also played squash, a racquet sport contested in a four-walled court using a small, hollow rubber ball.

His earliest opponents were his parents and brother, who soon stood no chance against the emerging star. White shot up the junior rankings, and a year after high school enrolled in an Australian sports academy that readied him for the world tour.

During a 17-year career in the Professional Squash Association, White racked up a dozen titles and earned the No. 1 ranking in March 2004. His most prestigious victories were the 2003 PSA Masters in Qatar, the 2003 Prince English Open and the Scottish National Championship.

Squash brought White even more than trophies, prize money, and a chance to see the world. He met his wife, Susan, in a fitness club where he was playing a tournament. They settled in the U.S. six years ago, and now live in Exton with their four children.

When Drexel elevated squash from a club sport to varsity (there are 30 women’s and 32 men’s varsity teams in the College Squash Association, which governs the sport on the collegiate level), White leapt at the chance to lead the program.

“Leaving [Franklin & Marshall] was one of the hardest decisions I had to make, but I’m in a bigger city where squash is thriving and I’m closer to home,” he said. “The Philadelphia area’s got anywhere from 100 to 200 juniors in every single club and it’s such a developed junior program you can be anywhere from the age of 8 to 17 and play. There are weekend coaching clinics, they have junior camps, there are a lot of junior tournaments. Even when I was traveling in ’94-’95, the clubs we played in the area were as good as any on the tour.”

The eyes of the squash were focused on Philly when Drexel hosted the U.S. Open from Sept. 30 to Oct. 6 at the Daskalakis Athletic Center.

“That was one of the biggest pluses we could have had,” White said. “The kids that came to watch the U.S. Open, they’ll be seeing the team, they’ll know where Drexel is. The buzz is a huge boost for the program and something we can build on. It’s awesome to have.”

Three weeks after the Open, Drexel began its inaugural season when both the men’s and women’s teams visited Haverford. With only one home match scheduled for the season, White knows the road ahead is difficult. Though the women’s roster is comprised of all players on last year’s club team and the men’s features just three new players, the transition to the more competitive varsity level will be pronounced.

“As long as they have a good work ethic and put the work into their training—and have a little bit of fun—I’ll be pleased,” he said.

Squash is more than just one of the fastest sports in the world; it’s one of the fastest growing. With 15 million players in 150 countries and junior participation up 88 percent in the last three years, White will have an ever-expanding pool of talent from which to recruit. He has two scholarships, world-class facilities, one of the sport’s most sterling resumes and its sexiest record at his disposal.

“The speed, the angles, it’s a very catchy sport,” he said. “You learn something new every time you walk onto a court, doesn’t matter what level you are. It’s one of those sports that gets a hold of you and you just want to get out there more and more.”

TO FIND OUT HOW YOU CAN SUPPORT THE DREXEL SQUASH PROGRAM,
CONTACT DOUG WRIGHT AT 215-895-1607 OR DOUGLAS.A.WRIGHT@DREXEL.EDU.
WHEN DID YOU START PLAYING LACROSSE?: "When I was in sixth grade. A family friend signed me up. I fell in love with the game from the start, and it kind of snowballed from there. It’s taught me so much and has continued to teach me so much."

WHAT DO YOU ENJOY ABOUT PLAYING GOALIE?: "It’s kind of like being a quarterback of the defense. There’s a lot of leadership involved. I like being able to help communicate with the defense to put them in the right spots. There’s just something about having a rubber ball shot at you at 90 miles an hour that’s kind of an adrenaline rush for me. I really like everything about it."

WHAT DOES IT FEEL LIKE TO GET HIT BY A SHOT?: "When you were younger it hurt, but you kind of grow used to it. There’s not as much fear as there used to be. It still hurts, it still rattles your cage sometimes, but you push through it. It’s just something that happens naturally now. You get over it pretty quickly."

WHAT’S THE BEST PLACE TO GET HIT, AND WHAT’S THE WORST?: “The best is right in my stick and the worst is in the back of my calf. I have no padding on my legs.”

WHAT PHYSICAL SKILLS ARE MOST IMPORTANT TO BE A SUCCESSFUL GOALIE?: “Footwork and hand-eye coordination.”

HOW DO YOU DEAL WITH THE INEVITABLE FAILURE THAT COMES WITH THE POSITION?: “It’s the nature of the game. You’re going to give up goals. That’s the way the game is played. You have to learn to accept that. ... You give up a goal, you evaluate it then you move on from it. You forget about it and you play the next play.”

WHAT’S BEEN YOUR BEST PERFORMANCE IN A DREXEL UNIFORM?: “Our overtime win against Notre Dame sophomore year. We got the win on a huge stage. It was a team effort more than an individual effort. Our defense played outstanding that game.”

WHAT’S YOUR GOAL THIS YEAR?: “To win the CAA and make it to the NCAA Tournament, and ultimately to that national championship game. We have a very capable team this year with our entire defense returning. We have paved the road for success and I think a lot of guys have been working hard this offseason in order to accomplish all those goals.”

DOES IT FEEL LIKE THE FIRST THREE YEARS FLEW BY?: “Absolutely. It’s gone by so quickly. There’s so much that’s happened in those last three years that I’ll be able to look back on that will bring a smile to my face when I’m old and not able to move around anymore. I’ve had such a great time with my teammates, it’s just an amazing group of guys that I’ve been able to connect with.”

IS THERE A PARTICULAR ATHLETE YOU LOOK UP TO IN TERMS OF THE WAY THEY APPROACH THEIR SPORT?: “My dad when he played football (Tony Manos played linebacker at the University of Pittsburgh). He was a hard-nosed guy, he worked hard for everything he wanted to accomplish. I really admire him for that.”

IS THERE A PROFESSIONAL ATHLETE IN A DIFFERENT SPORT WHO YOU THINK WOULD MAKE A GREAT LACROSSE GOALIE?: “Brian Boucher from the Philadelphia Flyers. Any hockey goalie would make an incredible lacrosse goalie because of the agility they have. It’s a different type of play because you’re standing up, but I think anyone with good hand-eye coordination and quick feet would make a pretty solid goalie.”

EVER WISH YOU COULD SCORE A GOAL?: “Kind of, but I know it’s something that’s probably not going to happen. I think Coach Voelker would call a timeout once I hit midfield before I’d be able to make it all the way down there.”
“There’s just something about having a rubber ball shot at you at 90 miles an hour that’s kind of an adrenaline rush for me.”
‘A Reason to Fight’

Last year, Bruiser Flint’s team was shunned by the NIT selection committee. The Dragons haven’t forgotten that slight—and believe that they’ll be able to prove their doubters wrong in 2011-12. By Tim Hyland

After the Drexel men’s basketball team lost 62-60 to VCU in the Colonial Athletic Association tournament last March, the Dragons returned to Philadelphia … and just kept on practicing. And why not? In their minds, you see, their season was not over.

With a 21-10 record and wins over Old Dominion, VCU and even mighty Louisville on their resume, the Dragons seemed assured of a bid to the postseason NIT. As it turned out, however, the invite never came—and as they prepared for the 2011-12 season this summer, Flint was clear about one thing: The Dragons have not forgotten the slight. “We have a sour taste in our mouths after what happened at the end of last season,” Flint says. “That gives you a reason to fight.”

Flint, who has compiled a record of 170–133 in his 10-year run with the Dragons, sat down with Drexel Magazine in late August for a conversation about the season that was, the season to come, his thoughts on the rising fortunes of the CAA and more.

Is it fair to say the CAA has improved a great deal in recent seasons?

Oh yeah. The players have definitely gotten better. All you’ve got to do is look at the fact that we’ve had five or six NBA players come out of the league in the past few years. That just tells you the level of talent has escalated. I always tell people, when George Mason had their run years ago, that says that. That just tells you the level of talent has escalated.

You guys have a lot of talent, and you’ve been picked to win theCAA this year. Does that change the way you approach the season?

Not necessarily. I’m going to holler and scream just like I always have. That won’t change. Now, if you’ve got a good team and the guys all understand their roles and responsibilities, then I don’t need to holler as much.

Are you the kind of coach who writes up concrete goals every year? If so, what are those goals for this season?

I really believe winning comes from doing the little things. You don’t want to get too far ahead of yourself. That being said, if you don’t come to college with the idea of winning a championship—I mean, I shouldn’t have to tell you that. You should want that. With this team, I think it’s more about what we can improve on. We’ve got to shoot better from the perimeter, which is something I think we addressed in recruiting. We fouled a bit too much last year, and we were a bad foul-shooting team. Those are the things that have to be our goals, and if we can improve on that and also do the things that we did last year, we’ll give ourselves a better opportunity to win a championship.

Finally, care to share any predictions for the season?

I’m not a guy who is a predictor. I don’t make any predictions. But do I think we’ve got a chance to be pretty good? Yeah. Yeah, I do.

THE FAB 4

DREXEL RETURNS FOUR STARTERS FROM LAST YEAR’S 21-10 TEAM. HERE’S WHAT EACH BRINGS TO THE SQUAD.

Samme Givens (Senior, Forward) Averaged 12.2 points and 10.1 rebounds per game last season. “He was the only player in the league to average a triple-double last year,” Flint notes. It’s no surprise, then, that Givens is considered the team’s best all-around player.

Franz Messenat (Sophomore, Point Guard) Impressed onlookers with his breakout freshman campaign. Averaged about 28 minutes, 5.5 points and 3.3 assists per game. Insiders say he might have a future in the NBA. “When you have a good point guard,” Flint jokes, “you’re usually a better coach.”

Derrick Thomas (Junior, Guard) Doesn’t score a lot (averaged just under 7 points per game last season) but does all the little things. A key player in Flint’s team-focused strategy. Says Flint: “As my assistant coach says, Derrick is a ‘glue guy.’”

Daryl McCoy (Junior, Forward) McCoy has embraced his role as Drexel’s defensive stopper. “I thought he was the best defensive player in the league last year,” Flint says. He’s also a key player off the boards, averaging nearly 8 rebounds per game last year.
A Golden Age

After a 19-13 run in 2010, the Denise Dillon’s Dragons are aiming even higher in 2011.

By Britt Faulstick

The Drexel women’s basketball team opened its season on Nov. 11 in hopes of continuing its historic run of success. Pursuing an unprecedented fifth straight winning season and fourth consecutive postseason berth, the 2010-11 Dragons are in the midst of what could be considered a golden age for the program.

Included in this era of success is the team’s first Colonial Athletic Association Championship and NCAA Tournament appearance, the program’s first upset of a nationally ranked opponent (over No. 25 James Madison), the first home sell-out crowd to witness a women’s basketball game at Drexel and the team’s first Postseason Women’s National Invitation Tournament berth. With that success comes the pressure of playing with expectations to maintain it.

“We’ve gone from teaching [the players] how to compete, to teaching them how to win,” said coach Denise Dillon. “Our goals now are to finish in the top three or four in the conference to earn a bye in the conference tournament, give ourselves a good chance to win and play in the postseason.”

The Dragons have three important factors in their favor this year: a deep roster full of experience and talent, an extended preseason that included an exhibition tour of Italy in September. An NCAA provision allowed the team to start practicing earlier in the year than usual in order to prepare for competition on the trip. The team played four games against quality Italian teams and enjoyed some good bonding time while touring the country. “The trip to Italy really helped us in preseason,” Dillon said. “It allowed our new players and two who were injured last season to get back on the court in game-type conditions. And it was four games against good opponents. Really the biggest advantage is just being away from everything with no distractions, it’s a great opportunity for team bonding and to experience some of Italy’s amazing history.”

In addition to the foreign odyssey, the Dragons further front-loaded their schedule with an appearance in the Preseason WNIT. The tournament guarantees the team a chance to play at least three games against a field of quality opponents to open regular-season play. The field includes, among others, national championship runner-up Notre Dame, a Baylor team that went to the Elite Eight, and NCAA qualifiers UCLA, Hartford and McNeese State. Throw in a non-conference meeting with Women’s Basketball Hall-of-Famer Dawn Staley’s South Carolina squad and the Dragons should be well-prepared for the start of conference play in January.

Playing against high-level opponents, Dillon claims, has been an important element to the team’s success because it not only attracts players to the program, but it prepares them to face more physically imposing and talented teams.

“Within the NCAA, the players know the big names and the top teams,” Dillon said. “Having the chance to play against that kind of competition is one of the reasons kids want to play Division I basketball.”

Last season the team saw some significant returns on this investment in scheduling with first-time wins over Penn State and Villanova. The victories helped punch Drexel’s return ticket to the Postseason WNIT and also served as a rallying point throughout the season as Penn State rose to No. 23 in the national polls and lost only two more games at home all season. The Dragons also faced 2011 NCAA Champion Texas A&M in a San Diego holiday tournament.

With a similar performance this season, the Dragons could quickly turn the weight of their expectations into positive momentum by season’s end with their goals well within reach.
May, two of Philadelphia’s institutional giants made a big splash in the history books: The Academy of Natural Sciences, the nation’s oldest natural sciences research institute and museum, sought a science-based university partner to help it reach its full potential. After considering all the possibilities, the Academy’s top choice was clear: Drexel. Negotiations began, papers were signed, and late this spring, the Academy of Natural Sciences of Drexel University became a reality.

The new affiliation will enable Drexel to take a national leadership role in environmental science and environmental policy—two of the Academy’s specialties—and help the University develop new programs and courses in fields ranging from geology to environmental policy, as well as new departments, centers and institutes.

For the Academy, the partnership provides crucial new resources for its scientists and museum—everything from teaching opportunities to tapping into Drexel’s technology and media arts programs for exhibits—and puts the institution in a better position to take advantage of its unique strengths.

In other words, the partnership appears to be a win-win—something that figures to benefit both the Academy and Drexel for decades to come.

But what exactly is the Academy? And why did Drexel jump at the chance to forge this historic partnership?

Founded in 1812, the Academy is a public museum and (more importantly, from Drexel’s point of view) an active research institution. Its collection of 17 million biological specimens offers a remarkably detailed catalog of the diversity of life on earth, from two-week-old plant specimens to 300-million-year-old fossils. In the field and in the laboratory, Academy scientists are busy naming new species, publishing scientific papers and recording environmental change.

In August, we pulled five Academy staff from their intensive, research-filled schedules to ask them about what they do—and why that work matters. What we present here, then, is an eclectic bunch of scientists and collections managers—the bird guy, the shell guy, the bone guy, the wetlands ecologist and the archivist—that offers a small but revealing window into the incredible world of Drexel’s newest partner.
Perfectly Natural

Himalayan Monal
(Lophophorus impejanus)

DEPT. OF ORNITHOLOGY
Nate Rice, Collection Manager
You could say that Tracy Quirk’s “office” is a hostile work environment. As assistant scientist at the Academy’s Patrick Center for Environmental Research, Quirk spends most days of the week aboard a boat, cutting through the marshlands of New Jersey and Pennsylvania, measuring how the wetlands of the Mid-Atlantic are changing. In sweltering heat and soupy humidity, she trudges through knee-deep mud while fighting off hungry mosquitos, occasionally stopping to take cover while a lightning storm passes by.

Despite the harsh conditions, there is no place else she'd rather be.

Quirk came to the Academy in 2010 as the Ruth Patrick Postdoctoral Scientist, a position named for the pioneering ecologist who founded the environmental science branch of the Academy in the 1940s. The Academy didn’t have a wetlands ecologist at the time, so Quirk filled a niche in the environmental science staff. Two to three days out of the week, Quirk climbs into full-body waders and spends the day in a boat monitoring the wetlands around Delaware Bay and Barnegat Bay. It’s a treat for her, she says, to experience the outdoors in this way, especially since she grew up in the “concrete jungle” of New York City. In the field, she measures the accretion of the coastal sediment to see if it’s growing or sinking relative to sea level. She also tests for water and soil quality and she records and analyzes all of this data for eventual publication.

Sharing her findings through publication is quite possibly the most important part of her job; it educates the scientific community and the public at large on the changes in these fragile ecosystems. The health of local wetlands affects everyone, she says. “Wetlands are a critical habitat for fish, crabs, shrimp—anyone who likes to eat these things should care about the existence and health of wetlands,” she says.

The health of wetlands is a major worry today, with coastal populations growing and sea level rise a seemingly imminent threat. “Wetlands,” she says, “can be an indicator of what’s to come.”

Even still, Quirk says, there are a lot of “unknowns” when it comes to these wetlands. She considers it her duty to help change that.
An apparent, almost paternal pride comes over Paul Callomon when he talks about the malacology collection at the Academy. He’ll tell you it’s one of the most historically rich collections in the country—and the third largest in the world. He’ll tell you it includes materials that can’t be found anywhere else. He’ll also tell you that it is among the six collections on Earth that must be seen by the folks in his line of work.

When scientists from the California Academy of Sciences were conducting research into the impact of the 2010 Deepwater Horizon oil spill, they looked to the Academy’s collection of oyster shells from that region, which hold a record of pollution in the Gulf and can be used to show how the oil works its way through the food chain. No other natural history collection matched the depth and breadth of the Academy’s in meeting the scientists’ needs.

In addition to managing the materials the Academy already has, Callomon strategizes with the department’s curator to expand the collection. “We aim in the long term for the collection to grow, so it remains one of the world’s essential collections,” he says.

Over the past 200 years, it has grown significantly, in large part because of the Academy’s field work. And besides, “we’re a museum,” Callomon says, “we don’t throw anything away.” “A collection is like your permanent child,” he adds. “How it grows is up to you.”

The growth shows no signs of slowing, either, as scientists are discovering new species at the same rate now as they were in the 1850s. He and his colleagues manage to keep up, and are currently updating their database with an electronic inventory of the entire collection.

There are roughly six million specimens down, four million to go.
very Wednesday, Nate Rice guts bird specimens. The birds are dead—they’ve either been collected specifically for study or fell victim to “window kill,” a fate often met by migrating birds in a world of skyscrapers. At a workstation in public view, Rice cuts open the birds and removes the soft tissue inside, including the eyeballs and brains. Museum visitors, young and old, watch him without blinking, jaws agape, speechless. When one gathers enough courage to ask him what exactly he’s doing, he tells them: He’s practicing real science.

“I think a lot of people today, their whole world is on a computer screen or a TV screen,” Rice explains. “There’s a disconnect with reality. You can’t get more reality than skinning a bird.”

That unpleasant task, it turns out, is a large part of his job as collection manager for the Academy’s Department of Ornithology. Every bird specimen—whether it was collected 200 years ago or just last week—in the Academy’s 200,000-strong collection must undergo this “study-skin” preparation, which ends with the bird being stuffed with cotton.

“The care and maintenance of specimens can seem routine and mundane,” he says. “But we’re caring for some of the most important and historic material ever collected in the New World.”

Many specimens were collected by the two biggest names of 19th-century natural science: Alexander Wilson, the naturalist and illustrator known as the father of American ornithology; and none other than John James Audubon, the famed artist of American birds and mammals.

“We have historically important, cultural specimens here that are still very useful today to scientists and artists,” Rice says. But because of their age, he adds, they have special treatment requirements. “Without care, some of the world’s most important biological material would be destroyed.”

The Academy actively adds specimens to the collection, about 1,000 a year, including hundreds that have been harvested by Rice himself. His work takes him to locations as far-flung as Vietnam, Australia, Paraguay, Poland and Germany, and often, Rice is doing more than just collecting in these areas. On his most recent research trip to Vietnam, for instance, Rice and his colleagues surveyed birds for emerging diseases, particularly avian influenza, which could be transferable to humans.

Next up for Rice is an expedition to Mexico, where he hopes to collect even more specimens and help train young Mexican scientists in the field. Until then, he’s got a lot of skinning to do.
When you oversee a collection that includes more than one million items, it can be hard to choose a favorite.

But Academy Archivist Clare Flemming has one: It’s the Academy’s original constitution, handwritten at its founding nearly 200 years ago. On it, carefully and elegantly scribed on yellowed linen paper, are the guidelines of what the Academy would and would not be.

This treasured document is just one item in the sea of extraordinarily rare and historic books, journals, art, artifacts, manuscripts, photographs, and the unique papers and documents that comprise the Academy Archives. Flemming is keeper of them all. And as long as they play by a few simple rules, researchers are welcome to enjoy these remarkable materials.

The archives are precious, Flemming says, and while they do require special treatment, they exist to be used. “We are not doing our job,” she says, “unless we make this material available to researchers.”

“Working in the library is like being a waitress,” she adds. “Researchers look at the ‘menu,’ I bring them their order, and then they dive into their research.”

The Archives are a part of the Academy’s Ewell Sale Stewart Library, which holds over 250,000 volumes dating back to the 1500s. Flemming, who is also presently serving as library director, calls on the work of Sigmund Freud to explain the difference between the two.

“The library is like the ego; it’s the published papers, the public record, what scientists present to the world as authors,” she says. “The archives are the id; it’s a lot of emotions, the true, inner feelings and moods of natural history explorers.”

Those emotions are recorded, for example, in the form of field notes and journals from scientific expeditions. These notes present a more colorful experience of the expedition than published papers, which are more scholarly and buttoned-up in nature. Mood swings, run-ins with warlords, colleagues taken hostage, and stories of surviving on cow-tongue sandwiches are just some of the details that can be found in field journals.

In other words, while Archives aid in scientific research and enhance Academy exhibits, they also serve as an extraordinary—and important—record of humankind’s study of the natural world. [D]

Colleagues taken hostage and stories of surviving on cow-tongue sandwiches are just some of the details that can be found in field journals.
A GREAT LEAP FORWARD

The new Constantine N. Papadakis Integrated Sciences Building is all of that and more. The $69 million, 150,000-square-foot facility officially opened its doors in late September, and almost immediately, this remarkable new building—home to Drexel’s Department of Biology, classrooms and lecture halls, public spaces, faculty offices and cutting-edge lab space—brought a new sense of energy and excitement to the corner of 33rd and Chestnut.

The opening of the state-of-the-art learning and research space is nothing short of a great leap forward for Drexel—for its research enterprise, for its national profile, for life on campus itself.

Here, we offer you a photographic tour of this amazing new facility—a facility that stands as a testament to Drexel’s rising ambition and its status as one of the nation’s most forward-thinking universities. —T.H.
At the heart of the PISB stands the biowall—a five-story tall, 20-feet wide wall of plants that is the largest of its kind in the United States. The wall will leverage the plants’ natural respiratory properties to cool the indoor air in the summer and humidify the building in the winter. It will also remove particulates and volatile compounds from the air. The Biowall is one of the features that is expected to help the building achieve LEED certification from the U.S. Green Building Council.

If the biowall isn’t the center of attention, then the building’s four-story spiral staircase most certainly is. The huge stairwell brings some design flair to the atrium and, fittingly, was specifically designed to be reminiscent of the classic “double-helix” shape of DNA.
Construction of the Papadakis Integrated Sciences Building was made possible by a grant from the Commonwealth of Pennsylvania Redevelopment Assistance Capital Program. We thank all those who have provided support to the project, especially the benefactors who contributed generously to name the following spaces within the building:

- Hassman Family Conference Room (Room 103)
- Hassman Family Classroom (Room 105)
- Joel '54 and Peggy Cohen Classroom (Room 106)
- Janice Giannini and Norman M. Hegge, Jr. Classroom (Room 107)
- Joseph M. Walker, Sr. '49, '67 and Gloria J. Walker Center for Instructional Services in Biology (Room 121)
- Wells Fargo Foundation Teaching Laboratory (Room 204)
- Hassman Family Student Lounge (Room 238)
- Christopher '51 and Mary Stratakis Collaboratory (Room 338)
- Dr. Bernard Kurek '69 and Joan Kurek Collaboratory (Room 438)
- Professor Robert O. Hutchins Organic Chemistry Teaching Laboratory (Room 502)
- Richard P. Brown Research Laboratory and Meeting Room (Room 503)
Though the building is indeed beautiful, at the end of the day, it is first and foremost a place of work—a leading-edge research and learning facility. The PISB is home to 44 research and teaching laboratories for biology, organic chemistry and biomedical engineering. Among the labs that call the building home is that of noted paleontologist Ken Lacovara, a specialist in Mesozoic Era environments.

Writing in the *Philadelphia Inquirer* in late August, noted architecture critic Inga Saffron offered gushing praise of the building’s design. Wrote Saffron: “It’s no accident that the exterior of the $69 million building is covered with limestone. It’s an ambitious reference to the pale terra-cotta on Drexel’s original home, the historic, Renaissance-style Main Building, two blocks east. While that building celebrates engineering, the Papadakis is a paean to biology. You see it the moment you step into the atrium—another reference to Main—where a coiled stair evokes DNA’s double helix and an 80-foot-high wall of plants serves as a living air filter. Natural light laps at the space. You could spend a day inside and not feel the least sun-deprived.”
Researchers and students working at the PISB will have access to several advanced technologies, including fluorescent microscopy techniques to visualize cell structure and function, and proteomics and genomics techniques for analyzing extant and ancient biomolecules and their regulation. Researchers will utilize cutting-edge gene delivery approaches for studying the functions of biomolecules, as well as stem cells for modeling human disease and physiology.

The PISB was designed by world-renowned architects Diamond & Schmitt Toronto. In its design, the firm managed to marry the function of the building—a cutting-edge learning and research space—with a truly open, airy, community-enhancing form. The facility is ringed in classrooms and labs, all built around a soaring interior atrium that, in the architects’ words, “serves as both a crossroads and a gathering place for students, faculty and staff within the building, as well as the broader university community.”
The PISB leverages natural light not only in the spacious atrium, but also along its Chestnut Street façade, where a four-story glass cylinder allows natural light to flood into a series of “collaboratories,” open spaces available to faculty and students. ([D])
ON JULY 21, 2011, the Space Shuttle Atlantis touched down at NASA’s Kennedy Space Center after 13 days in orbit. The landing was successful, and routine, and unremarkable in most every way. Except for one.

That particular landing was not just any landing. It was, instead, not only the last landing Atlantis would ever make, but also the very last landing in the long, accomplished, sometimes tragic, and ever-controversial history of the entire Space Shuttle program—a program that, over the course of 30 years, did nothing less than transform both the practice and perception of space travel itself. That last landing, in other words, was nothing less than historic.

And Christopher Ferguson, ’84, was right in the middle of it.

Ferguson, a Philadelphia native and one of three Drexel alums to become an astronaut, capped his accomplished NASA career with perhaps the greatest honor...
Chris Ferguson, ’84, relished the opportunity to serve as commander for the last mission in the history of the Space Shuttle program. But in the weeks after safely guiding Atlantis back to Earth, he was left to wonder what would become of astronauts, of NASA, and of America’s once-grand ambitions in space.
possible: He was asked to serve as commander for the last mission the Shuttle would ever undertake—mission STS-135. It was, in some ways, a dream assignment for Ferguson, an avowed believer in the Shuttle program who said he made sure to take just one moment, the night before re-entry, to reflect on his hugely successful, entirely unexpected space-travel career, and to appreciate his unique role in American space history.

A few weeks after the mission was completed, however, with the media hoopla finally dying down and with his future (and the future of NASA itself) in doubt, Ferguson’s feelings about that last flight, and about the end of the Shuttle program, had changed.

In a nearly hour-long interview with Drexel Magazine, Ferguson admitted to being saddened by the end of the Shuttle program and bothered that its advertised replacement, The Constellation Program, was abruptly cancelled in early 2009. At the same time, Ferguson said he was optimistic for his own future (which, he says, may or may not include NASA) and bullish on America’s chances of maintaining its spot as the global leader in space exploration.

**It’s been about three weeks since the end of STS-135. What have you been up to?**
The way a typical mission works is, after landing you come back to Johnson and there’s usually a three-week debrief period, which is typically intended to review what happened, to make the following mission more effective, to review what lessons were learned and make sure we don’t make the same mistakes twice. But now, given that there is no shuttle mission to make better, our debrief period was cut down to about 10 days.

**So what have you been doing instead?**
We’ve been doing what everyone does after the debrief period is over—taking the show on the road. A lot of people around the country like to hear what the latest Shuttle mission is all about, and this one holds more significance, not only because it’s the last one, but also because there’s the question of, ‘OK, since this is the last one, what’s next?’ We’re trying to help deliver that answer, even though the answer isn’t quite what we want it to be, and isn’t quite clear yet.

Last week we started out at the Texas Legislative Summit, where I got to meet Gov. [Rick] Perry from Texas. I addressed a small audience in the morning and then went to New Orleans, to the company that made the Shuttle’s external tanks for the last 30 years, then up to Mississippi, where they test our rocket engines. Then we were off to Huntsville, where they manage some really large Shuttle projects—everything except the shuttle itself, the tanks and the boosters. Then we were up in New York for two to three days and had the opportunity to go on some national news media outlets, and next week we’ll be in Los Angeles. After that, our names go back in the hopper and we’re just regular people again. It’s a different world now that the Shuttle is gone.

**It’s an obvious question, but one that needs to be asked: What exactly do you do now?**
Well, back in the Shuttle era, there were six to eight flights a year, and six to seven seats each. Now we’re down to the Space Station only, and there are only four slots each year for U.S. astronauts. So the folks who have been flying already are asking themselves what this all means for them. We are all going to be asked, ‘What now?’ And we’re all trying to interpret what the future holds, not only for our future as astronauts, but also globally [regarding space travel] and locally at Johnson Space Center.

**Obviously, the decision has been made to ‘commercialize’ American space travel, to a certain extent—to get NASA out of the business of getting astronauts to and from the Space Station. Is this a good idea?**
It depends who you talk to. The NASA political appointees who were installed under the current administration are very optimistic about [commercial carriers] getting us into low-earth orbit. But the whole ‘commercial’ angle is a bit of a misnomer. There have always been commercial companies that have built the Shuttle hardware in the past. NASA managed the program, but commercial firms handled a lot of the construction. Now commercial firms...
If you remain focused, and do your job well, you never know where you’re going to end up.”

are going to manage and construct the vehicles that are going to carry passengers up to the Space Station. In theory, that frees up a lot of resources and money to once again set our sights beyond just low-earth orbit—to destinations yet to be determined. Maybe the moon, or maybe Mars. But overall, I would say that there are some who are very optimistic about the new focus, and others who are very concerned.

One of the entrepreneurs who is taking over space travel from the private side is Elon Musk, the founder of both Tesla Motors and SpaceX. Musk sounds very confident about his ability to handle this task. Do you think he’s up to it? Well, he’s certainly a very interesting guy, and I have a lot of respect for the businesses he’s run over this lifetime. I hope he succeeds; I really do, because our nation’s access to low-earth orbit depends on him and companies similar to SpaceX. And when it comes to something like this, you need to give it to somebody who has confidence in what they’re doing. That being said, confidence does not get people back and forth to space safely. We learned a lot of extraordinarily difficult lessons over the years, and my concern is that we’re casting aside all of the people who learned those lessons the hard way, in favor of a cheaper and perhaps more efficient way to low-earth effort. Time will tell.

It seems like this change in focus at NASA was rather sudden—that one day we were living with the status quo, and the next we had decided to privatize. But it’s got to be more complicated than that, correct?

Yes, it is slightly more complicated than that. The opinions of NASA have their foundation in the appointees who are installed with the sitting presidential administration. They, in effect, become “NASA.” So when NASA became the Obama administration, this was their plan, and anything that was put out publicly was, ‘NASA supports this,’ or ‘NASA wants this.’ Meanwhile, the guys down at Johnson were beside themselves, wondering if we were going to give up everything we had worked for in order to take a new approach that was,
in theory, faster, better and cheaper. This has always been something of a challenge for us. NASA speaks with one voice—a very small group who says, ‘This is the way we’re going to be.’ But the rest of us, as always, remain very loyal. As for the plan itself, it’s really going to take a while for everyone to absorb it and understand the implications.

**What should America’s goal be in the realm of space exploration? What should we be aiming for?**

Well, if you’re asking what’s feasible—what is technologically possible—then the answer is that it is entirely possible, given today’s technology, to go to Mars. The question is what it would cost. When Apollo was putting a man on the moon, a full 5 percent of the entire federal budget was going to NASA. And 5 percent is a huge number. Today, NASA’s budget is about .5 of 1 percent of the federal budget, and with that kind of money, we can go into low-earth orbit, we can man the Space Station, but we can’t do what they did in the 1960s. But again, if money wasn’t an object, we could go to Mars.

**You really believe that?**

Yes. I think we were on a pretty good track back before the Constellation program was cancelled. We were at that time building a vehicle that could leave low-earth orbit, that could go to the moon, that could land a vehicle on the moon. And it wasn’t just something that could land and stay for a day or two. It could have brought equipment, it could have helped us build places to stay, it could have provided power generation to set up camp on the moon for six months at a time. Now, some would say that we’ve been there and done that, but I believe it’s important to go back. We need to perfect—and I don’t mean ‘make better,’ I mean perfect—a system that will sustain human life in space for a long period of time. We need to figure out air recycling. We need to figure out water recycling, which is a huge technological challenge. Taking water to space is very difficult and very expensive, but if there’s water that exists in the lunar atmosphere and we can get at that water, then you can basically do anything. While you’re there, you can perfect your systems for recycling your elements, and when you head out to Mars, when it’s going to be three years for everyone to get there and get back, you’ll know it will work.

“We learned a lot of extraordinarily difficult lessons over the years, and my concern is that we’re casting aside all of the people who learned those lessons the hard way.”
you’ve perfected the system ahead of time. And the place to do that is the lunar surface.

**You’re saying that all of this is possible. But is the ambition there? Does this nation really want to make the effort?**

In reality, I think when the economy gets better and we have a few extra bucks to spend, we might throw some of that at NASA. But I don’t think we’ll do anything of significance until the Chinese become a significant threat in space. When China sets up camps on the moon, that’s when we’ll say, ‘Oh boy, we need to get going.’ Because when it becomes a national security issue, ears perk up.

**Let’s go back to the Shuttle for a moment. Some have said the program was too expensive, or that it didn’t achieve what it was supposed to achieve—namely, making space flight cheap and easy. What is your response to that? What is the program’s real legacy?**

My answer to that has changed over the months, and believe me, we [astronauts] get that one a lot. So how is history going to view the Shuttle? My canned answer would be that the Shuttle program made low-earth orbit a great deal more accessible. But it also allowed us to build the Space Station. It’s hard for somebody who doesn’t have a background in construction or space exploration to understand this, but the reality is, before we had the Space Shuttle, we were extremely limited as far as what kind of equipment and material we could put on a traditional rocket. With the Space Shuttle, the payload bay was 15 feet wide.

**Why is that important?**

When you look at the American section of the Space Station and then the Russian section, you can see why this matters. The Russian section is filled with narrow little passageways—you can just barely squeeze by each other. The American section is a lot more open, which enables you to work in three dimensions. You can work on the ceiling, on the walls, on the floor. The Russian segment is just a hole. If we didn’t have the Shuttle, we would today have a much smaller and less habitable Space Station. So I would say the size of the Shuttle—the ability to carry large, heavy things into space at will—was a huge advantage. There’s another element here, and it’s so telling: In the most recent book that NASA put out about the Shuttle, *Wings In Orbit*, there’s a point they make that reminds me of another reason why we’ll miss the Shuttle—we’re going to lose the ability to bring home things from space. I would guess that, if you really looked at it, about 98 percent of the total mass returned to earth from space was carried on the Shuttle. On this most recent mission, we had a pump module [from the Space Station] fail, and we wanted to know why it failed. Well, without the Shuttle, we can’t bring it home to find out. Now, that may seem insignificant, but it really is a big deal. The next vehicle is going to be a capsule, and it’s only going to be able to bring people back. So the list goes on and on.

It was a huge program, so you can of course poke holes in it all you want. We built it back in the 1970s and we didn’t really know what it was going to do, and in truth it ended up doing some things we never thought it would do. The folks who put this program together were true visionaries. And the program was a success because we had support for the people who knew how to make these decisions.

**Are there any space exploration visionaries out there today? Can we do something great again?**

Yes. This country is filled with incredibly talented people with tremendous ideas. We’ve come up with a lot of vehicles over the years for a various number of [goals]. We have the ability to do fantastic things. What we suffer from is having far too many people who don’t have either the technological background or understanding of physics meddling in the business of people who actually want to get things done. I may be sounding overly negative on the political process, but we’ve had [great ideas] over the past 10 years or so that would have worked. But we’re caught in this cycle where, whenever a new administration comes in, they feel they need to put their own label on everything. It has happened with Democrats and Republicans. I have been espousing the idea that we need a 10- or 20-year plan which is approved by Congress so that subsequent administrations cannot come in and dither with it. We need to pick a direction and go in that direction. Because we lose a lot of credibility with the public when we cancel these programs.

**Has it always been this way?**

We are focused on achieving political goals more so than when I first got here. In the 1960s, we were building a rocket every three years. Maybe we’ve just forgotten how to be that innovative. We’ve had so many fits and starts lately. We’re just kind of floundering. And again, with every system cancellation, we lose a lot of credibility.

**We’ve spent a lot of time talking about the future of NASA. What about your future? What’s next for you?**

I’ve been there 13 years now. And you know what? I don’t have to stay in the space business. I’ve had a few unique offers come my way. I’ve had people ask me, ‘How about politics?’ And I’ll tell them, ‘Hey guys, one thing at a time.’

**Finally, I’m curious—here you are today, having just served as the last Commander of the last Space Shuttle mission of all time. Was this your plan all along? Did you believe you were going to be an astronaut?**

Heck no. I was raised in a middle-class household in Northeast Philly. I never envisioned this in a million years. You asked me earlier about a moment when I may have realized the significance of that last flight. Well, there was one moment, the night before re-entry. It was a moment when we figured we would be very busy. But we had finished all of our work on time, and so we had some time to just look out the window. And I’ll tell you: Everyone has a moment in his or her life, maybe when you’re looking out over an open ocean, we can just reflect for a bit. And there I was, sitting in the Commander’s post on that spaceship, looking at the Earth down below, and knowing I was there for the last flight of the Shuttle. Now, if you had asked me 15 or 20 years ago if I thought that would be possible, it wouldn’t have even been in the picture. But I guess the lesson is, if you remain focused, and if do your job well, you never know where you’re going to end up. [D]
1940s

Frances Magazu Greene, Nursing '42, celebrated her 90th birthday with her family and friends on July 9, 2011. Her career includes teaching at Hahnemann School of Nursing, nursing at White Plains and St. Agnes Hospital in New York and a twenty-year career at the Brockton Hospital in Massachusetts.

N. Joseph Woodland, Mechanical Engineering '47, Hon. '98, and Bernard Silver, Mechanical Engineering '47 (deceased), were inducted into the 2011 National Inventors Hall of Fame for inventing the first optically scanned barcode.

1950s

Carl A. Baumert, Jr., Civil Engineering '51, was named 2011 Structural Engineer of the Year by the Philadelphia Section of the American Society of Civil Engineers.

Robert A. Erb, MS Chemistry '59, was presented with the Research Award at the annual conference of the International Anaplastology Association.

Herbert Kean, Medicine '56, Former Resident, received the Award of Merit from Thomas Jefferson University and Hospitals at the Jefferson 2010 Awards Gala.

Thomas A. Leonard, Business Administration '68, and William J. Leonard, Accounting '81, were named to the Pennsylvania Super Lawyers® list for 2011.

John Monsul, Retail Management ’53, celebrated the 600th broadcast of his television show Communicating Today on Channel 10, the Fairfax Public Access Cable T.V. station.

1970s

Anita J. Brandolini, Chemistry '79, was named a 2011 Fellow of the American Chemical Society, and recently won the E. Emmett Reid Award in Chemistry Teaching at Small Colleges in the Middle Atlantic Region of the ACS.

Gloria Miglionico Krolak, Home Economics '70, is the host of Good Vibes, a two-hour radio program the first Sunday of every month at WWFM, 89.1 HD2. Her show features the music and musicians of the jazz vibraphone.

Michael A. Levine, Medicine '76, Director of the Division of Endocrinology and Diabetes at The Children's Hospital of Philadelphia, was elected to the Johns Hopkins University Society of Scholars.

Michaelene Loughlin, Urban Management '74, departed for Mexico on March 16, 2011, to begin pre-service training as an English teacher Peace Corps volunteer.

Joseph P. McAtee, Civil Engineering '76, was presented with the Drexel University Construction Management Advisory Council’s Lifetime Achievement Award at the 3rd Annual CMAC Awards Reception.

Roseann B. Termini, Human Behavior and Development ’75, planned the Inaugural Conference in partnership with the Food and Drug Law Institute and the Widener University School of Law Food and Drug Law Association. She was also a featured speaker at the Direct to Consumer Promotion Conference sponsored by the American Conference Institute.

Constance Noll Wallgren, Business Administration ’76, MBA ’80, was promoted by the Federal Reserve Bank of Philadelphia to Vice President and Chief Examinations Officer in the bank’s Supervision, Regulation and Credit Department.

1980s

Larry A. Wittig, Business Administration ’72, MBA ’75, was named chairman of the State Board of Education by Governor Tom Corbett.

Sharon Baillie, MS Home Economics ’82, was named the American Association of Family & Consumer Sciences 2011 National Teacher of the Year.

Gary Beck, Marketing ’86, joined 3Delta Systems in Chantilly, Virginia as Senior Vice President.

Mark T. Celoni, Business Teachers Education ’88, MS Engineering Management ’93, was named the 2011 Person of the Year by Time for Teens, a not for profit organization for teenagers.

Lawrence D’Andrea, Accounting ’84, was named President of Alloy Surfaces, a world leader in the design, development and manufacture of advanced air and naval countermeasures.

Joan Dawson McConnon, MS Taxation ’89, received the University of Notre Dame’s 2011 Laetare Medal, the oldest honor given to American Catholics. She co-founded Philadelphia’s Project H.O.M.E. (Housing, Opportunities for Employment, Medical Care and Education) in 1989.

George J. Dickson, Jr., Finance ’86, was named Executive Vice President at New York Private Bank & Trust in New York City. He manages Emigrant Bank’s $5 billion investment portfolio and recently began advising fixed income managed accounts for the private clients and family office affiliates of NYPB&T.

Stuart Green, Finance ’89, was named General Manager, National Offerings at IMS Health, the world’s largest information solutions provider to the Life Sciences industry.

Phillip S. Hillman, Electrical Engineering ’80, was highlighted in an article on the Boeing Company Web site about the multi-weapon Adaptive Force Protection Solutions system, a new variant of Boeing’s Avenger system.
**Michael T. Imms**, Mgmt. Comp. Info. Systems ‘82, and his West Chester, PA law firm, Ryan, Morton & Imms, LLC, has celebrated more than 30 years of experience in business law, corporate law, civil litigation, estate planning, estate administration, personal injury, tax law and tax litigation.

**Hope Krebs**, Accounting ‘84, was named president of the British American Business Council of Greater Philadelphia and began serving a two-year term on July 1, 2011.

**Michael P. McCurdy**, MBA ’85, was promoted to the select group of International Directors who are recognized for delivering exceptional results for clients and driving growth at Jones Lang LaSalle Incorporated.

**Ronald B. Morris**, Accounting ‘88, was named treasurer of the Philadelphia Affiliate of Susan G. Komen for the Cure® Board of Directors.

**Stephen J. Scherf**, MS Finance ‘86, was elected president of the Greater Philadelphia Chapter of the Pennsylvania Institute of Certified Public Accountants for the 2011-2012 fiscal year.

**1990s**

**Jeff Backal**, MBA ’93, CEO & Co-Founder of Team Builders Plus, was named Delaware Valley HR Consultant of the Year.

**Francisco Castro**, Electrical Engineering ’92, MS ’94, an Andrews, Held & Malloy attorney, was named to the advisory board of Nano-technology Law & Business Journal, a peer-reviewed publication devoted to the legal, business and policy aspects of small-scale technologies.

**George P. Chambers, Jr.**, Medicine ‘98, was listed as one of Las Vegas “Top Doctors” in the Spring 2011 issue of Las Vegas Life magazine. He was previously listed as a “Top Doctor” in 2006 and 2007.

**Ann E. Cockey Norman**, MS Library and Information Science ’98, received her Doctorate in Innovation and Organizational Leadership from Wilmington University as well as the University’s prestigious Audrey K. Doberstein Award for Leadership.

**George Cressman**, Civil Engineering ’90, MS ’92, was promoted to principal of the design firm Stantec Consulting Services Inc. and is practice leader for Urban Land Engineering Group. He is a LtCOL in the U.S. Army and an Iraqi War veteran.

**Donn R. DeBoard**, MS Technical and Science Communication ’91, earned the distinction of Associate Fellow in the Society for Technical Communication.

**Christa Duelberg-Kraftician**, Architecture ’94, was named a principal at Spillman Farmer Architects.

**Bryan Fluke**, Chemical Engineering ’99, joined RPA Engineering firm as Commissioning Manager.

**Pamela Colburn Harland**, MS Library and Information Science ’95, published a book on library management called The Learning Commons: Seven Simple Steps to Transform Your Library.

**Kim Santivasi Huggins**, Human Services Management ’90, recently presented “Communicating Across Generations” to more than 125 financial professionals at the 2011 Pennsylvania Institute of Certified Public Accountants Women’s Conference.

**Peter E. Pisasale**, Electrical Engineering ’99, was named the Rhode Island Young Engineer of the Year for 2011 by the Rhode Island Society of Professional Engineers.

**Gina Furia Rubel**, Corporate Communications ’91, was elected to a three-year term on the Board of Governors of the Philadelphia Bar Association, beginning on January 1, 2011. The Philadelphia Business Journal honored her public relations firm, Furia Rubel, the Top In-Kind Donor Award, Top Volunteer Donor Award and Top Community Impact Award.

**Jennifer J. Wabals**, International Area Studies ’94, was promoted to the rank of Lieutenant Colonel in the U.S. Army on May 1, 2011, and is currently deployed and serving in Operation New Dawn in Baghdad, Iraq.

**Steven B. Wittenberg**, Finance and Marketing ’98, joined the SEI Wealth Network located in Oaks, PA as the Director of Legacy Planning. He will focus on the areas of estate planning, wealth transfer, philanthropy and tax implications for ultra-high new worth and high net worth individuals and families.

**Cindy Cisyk**, Human Resources Management ’85, to Stephen Leesman, on May 21, 2011.

**Cara Doherty**, Nutrition and Food Science ’05, to Matthew Dolin, Mechanical Engineering ’07, on May 21, 2011.

**Matthew Geragi**, MBA ’09, to Lara Cressman, on June 24, 2011.

**Kristine Plourde**, Communications ’05, to Thomas Golden, Chemical Engineering ’05, on February 14, 2011. Their wedding ceremony took place aboard a SEPTA Regional Rail “Love Train.”
2000s

Joanna K. Conmy, Law '09, spoke at the seminar for the Pennsylvania Bar Institute “Family Law Institute–2011” regarding case law updates and recently enacted statutes.

Nancy Bishop Day, Nursing ’08, received the Award for Excellence in Nursing by the Tennessee Public Health Association in September 2010.

Eric Dillalogue, MS Library and Information Science ’09, was promoted to Assistant Director, Learning Resource Center at Florida Keys Community College located in Key West, FL.

Nathan D. Fox, Law ’09, joined the firm Begley Carlin & Mandio, LLP, representing clients in civil litigation, municipal, school, zoning and business law matters.

Randy Gailotto, Architecture ’10, was named an associate at Spillman Farmer Architects.

Josh Lawler, Hotel and Restaurant Management ’02, and his wife, Colleen Kelly Lawler, Culinary Arts ’01, opened their restaurant, The Farm and Fisherman, in March 2011.

Christel G. Lee, Finance ’06, a Navy Seaman, completed U.S. Navy basic training at Recruit Training Command, Great Lakes, Illinois.

Elizabeth Lombardo, PhD ’02, wrote the international bestseller A Happy You: Your Ultimate Prescription for Happiness about how to have less stress and more happiness.

Michael J. Metzger, Architecture ’00, was named an associate at Spillman Farmer Architects.

Elizabeth Rapczynski Archer, Communications ’03, joined Anne Klein Communications Group as a senior account manager in March 2011.

Sorin Roibu, Business Administration ’03, was named global security analyst in the Growth Investments Team at Turner Investments, an employee-owned investment-management firm.

Bryan W. Schmidt, Computer Engineering ’10, a Navy Seaman, completed U.S. Navy basic training at Recruit Training Command in Great Lakes, Illinois.

Michael G. Wagner, MS Civil Engineering ’04, was named 2011 Philadelphia Young Civil Engineer of the Year by the Philadelphia Section of the American Society of Civil Engineers.

NON-ALUMNI TRUSTEES

Charles Pizzi, Trustee, was appointed to the Board of Directors of Allied Security Holdings LLC, the parent company of Allied Barton Security Services, a provider of security personnel.

HONORARY DEGREES

The Honorable Edward G. Rendell, Hon. ’96, received Philadelphia VIP’s Pinnacle Award. The organization provides free legal services to low-income clients.

Sister Mary Scullion, R.S.M., Hon. ’93, received the University of Notre Dame’s 2011 Laetare Medal, the oldest honor given to American Catholics. She co-founded Philadelphia’s Project H.O.M.E. (Housing, Opportunities for Employment, Medical Care and Education) in 1989.

John C. Bogle, Hon. ’03, was honored by the Salvation Army of Greater Philadelphia at its annual benefit luncheon in May 2011.

LaVerne Council, Hon. ’10, was elected chair of the March of Dimes national Board of Trustees.

John Rowe, Hon. ’03, was interviewed in the New York Times in an article, “A Sitting Duck Can’t Catch a Moving Turkey.”

John Brennan, Hon. ’09, was elected to the Board of Directors of Guardian Life Insurance Company of America.

M. Walter D’Alessio, Hon. ’07, was appointed to the Board of the YMCA of Philadelphia and Vicinity.

BABY DRAGONS

Izabelle Silva Gomes, International Area Studies ’04, and her husband Ani Gomes had a daughter, Valeria Beatriz, on March 7, 2011.

Nicole Ziman Ilg, Mechanical Engineering ’03, and her husband Mark Dean Ilg, Electrical Engineering ’03, MS Mechanical Engineering ’05, PhD ’08, had a son, Micah Nicholas, on February 23, 2011.

Jaqckelyn Lannutti Mariani, Business Administration ’08 and her husband Glen Mariani, Business Administration ’08, had a son, Anthony Joseph, on September 18, 2010.

Ryan Mouncey, Film and Video Production ’01, and his wife Sarah Mouncey had a son, Theodore Robert, on September 9, 2010.

Anthony Pingicer, Digital Media ’03, and his wife Diana had a son, Liam Robert on March 3, 2011.

Kate Messersmith Tshudy, MS Library and Information Science ’99, and her husband David had a daughter, Fiona Elaine, on October 15, 2010.

Suzann Carabello Zappolo, Design and Merchandising ’91, and her husband Len Zappolo had a son, Christian Matthew, on August 30, 2010.
FRIENDS WE’LL MISS

1930s
Nancy Harp Brant '32
Katherine Colegrove Butters '38
Eleanor Matthews Cobb '36
Pasquale Dante '38
Geraldine Werkheiser Dixon '37
Barbara Kreamer '38
Joseph Lambert '39
Robert Lore '36
Michael Meholic '36
Daniel Miner '39

1940s
Albert Bagian '43, '54
Paul Baran '49, '97
Ivan Barclay '48
Marvin Barnett '47
Charles Briggs '41
Bettie Brooks '47
Minerva Smith Buerk '46
Walter Dearolf '49, '57
Barbara Morgart Desmond '48
Martin Donze '41
Elizabeth Weiss Gelber '47
Edward Gillespie '40
Dorothy Mather Glasebrook '43
William Grant '42
Alfred Gres '47
Dorothy Scheller Guccini '43
Donald Wolford Hartling '43
Doris Bachman Hastings '42
Eugene Hindin '47, '54
Ruth Trautwein Katz '48
Amelia Tesla Kersting '45
E. Kiehl '43
Leonard Kownurko '47, '54
W. Leech '46
Hilton Kujian Levonian '49
Alfred Liber '41
Marian Struse Louderback '40
Marion Mader '42, '59
John Magiera '44
M. Mancinelli '43
Sara Wilts Monson '42
Esther Seaman Murphy '45
James Nannos '47
Florence Luce Neimeyer '46
Joanna Pecman Pecman '40
A. Perlweig '41
Domenic Piccone '48, '52
Anne Pike '46
Willie Hathaway Rautenberg '43
John Rumpf '43

1950s
Kathleen Sacket '47
R. Neavitt Schick '48
Dorothy Speach Schnitz '51
Charles Bayer '55
Walter Binasiewicz '58
Erwin Breithaupt '52
Philip Buxton '59, '77
George Carey '58
Raymond Cash '59
William Clear '56
Joseph Crown '51
Verlin Christ Curtis '57
Charles Davey '56
Casimir De Cwikey '52, '55
Robert Decker '55
Albrecht Ernst '56
William Franck '54
Ernest Galbreath '52
Mary Cavanaugh Gilles '52
John Glancey '53
Julius Goldhirsh '58
William Hagerty '57
Dale Hawk '51
Shirley King Hespell '54
Vincent Kaitz '51
William Kelley '52
J. Kiefer '50
Joseph Klein '51
Craig Koch '53
Sylvia Grosch Kuch '50
James McClung '53
William McGrath '54
Lowell Mercer '52
William Moni '51
Alice Whitaker Moore '51
Erma Munson '52
Ross Nicholas '59
C. Owen '56
Janet Parker Parker-Popki '58
William Porter '55
John Purcell '54, '55
F. Quay '55

1960s
Herbert Rogers '57, '64
James Roney '55
Sidney Rosenbaum '50
George Ross '55, '99
Michael Sacon '52
George Sanderson '59
Charles Satterthwaite '51, '56
Barbara Dorman Scarmuzzi '50
John Sewak '50
Edgar Shultz '55
James Sleeper '59
Theodore Smith '58
John Steer '52
Lester Steinbrecher '57
William Stewart '53, '50
William Stieffel '54
John Stigle '52
Andrew String '59, '60
Nancy Stubbe '58
Richard Teti '59
Nancy Adams Thomas '56
Francis Vassalluzzo '56
C. Edmund Whelpley '53
Norman Yerusalim '58
Theodore Ziekle '58

1970s
William McClay '62
Frederick McEliece '66
George Melvin '64
Charles Nocifore '64, '70
Allan Norton '69
Jeanne Pamina '68
Emily Ritzman '68
Robert Rozanski '63
Arlene Greenberg Sherer '66
Mary Shrimpton '64
William Silbert '60
Daniel Simpson '64
Aavo Soobert '63
Janis Sube '60
James Thompson '64
Stanford Torchon '64
Michael Wallace '67
Frank Winton '67

1980s
Robert Derr '72
Henry Fallstick '77
Cheryl Farina-Grubb '72
Thomas Keyser '70
Charles Knickerbocker '75
Herbert Rogers '70
James McLaughlin '78
Mary Merit '76
Robert Moore '73
M. Murphy '71
Lorene Backlund Sagotky '72
Charles Spacek '74
David Stirling '74
Kenneth Weller '75

1990s
Peter Bockno '85
Valerie Conroy '86
Evan Council '80
Patricia Middleton Daily '80
Virginia Dick '83
Jacqueline Dugan '87
Andrea Gottfried '80, '95
Andrew Grey '85
Christopher Hammell '88
Joy Janice '84
Joseph Litchman '80
William Lowis '83
Claire McGrorey '85
Douglas McLeod '81, '83, '90
Charles Neal '81
Sandra Rattray-Hahn '80
David Rozinski '87
Amy Schlenker '82
Joseph Smith '84
David Steele '88
Janine LeBlanc Zekonis '88

2000s
Phillip Zinno '83, '92
Joseph Caltabiano '98
Christian Flynn '95
Sam Gully '92
Margaret Hughes '97
Douglas McCune '95
Sharon McLarney '97
Anthony Panichella '96
Maryellen Reilly '91

2000s
Heather Groce '08
Hector Rodriguez '07, '07
John Saviello '01
ALUMNI ASSOCIATION AWARDS

Each year, Alumni Association Awards are presented to individuals who have proven to be successful leaders in their profession or community, or who have demonstrated outstanding service and commitment to Drexel.

The award recipients’ accomplishments are many. But what drives them to work as hard as they do? Read on to learn a little bit about each of our 2011 Alumni Association Award winners, and find out what motivates and inspires them on a daily basis.

John C. Monsul, Retail Management ’53
Special Distinction Award Recipient
In 1990, while still working full-time in business, John created, produced and continues to host a half-hour “talk/variety” program entitled “Communicating Today”, on Channel 10, a local Northern Virginia television station. After 20 years, it recently aired its 600th show.

“I divide the past 50 years into two parts—my professional working years, and for the past year, my retirement. During the working years, my motivation and inspiration came from doing the very best job that my Drexel education, talent and experience enabled me to do. I was determined to be successful and, working for some of the finest companies in America, I was! Twenty years before I retired, I started producing a television program called “Communicating Today” and now continue that into retirement. By featuring deserving guests and organizations on my show, I’m proud to be able to perform a worthy community service. To be able to accomplish this for over 20 years is my inspiration and motivation on a daily basis.”

Walter J. Stevens, PhD, Chemistry ’67
Service to Profession Award Recipient
Dr. Stevens accepted a position at the Department of Energy in 2000, where he soon became Director of the Chemical Sciences, Geosciences, and Biosciences Division, which provides the largest source of funding for physical sciences research in the United States. He retired in 2006 and now enjoys golf, woodworking and reading.

“During my career, I was very fortunate to work for the National Institute of Standards and Technology as a research scientist, and the Department of Energy as the director of one of the Nation’s largest sources of research funding in chemistry. My inspiration came from the excitement of basic research and my desire to make significant and lasting contributions to chemistry.”

Michele Palos-Samsi, PA-C, Physician Assistant Program ’97
Service to Community Award Recipient
In 1999, Michelle and co-founder Sheila Davis, D.O. opened St. Catherine Laboure Medical Clinic, a non-profit family practice clinic in Philadelphia’s Germantown neighborhood, that serves the uninsured. With the belief that poverty does not reduce humanity, they care for the physical, psychological, and spiritual health of those marginalized from the healthcare system.

Walter A. Staniszewski, Business Administration ’03
Young Alumni Achievement Award Recipient
Walter works for the Defense Contract Management Agency and is assigned to the Naval Special Emphasis Program which includes the contract administration, engineering, production, and supply at the Naval Nuclear Principal Suppliers. His position is to ensure quality product and assurance for our nation’s carriers and submarines.

“My daily inspiration is the war fighters that I support with products and services so they can focus on their tasks of ensuring our daily freedoms. This in turn motivates me to profession-
Joseph E. Maenner, Esq., Mechanical Engineering ‘86

Silver Dragon Society Award Recipient

Joe started his career as a patent attorney in 1998 at a patent boutique firm in Philadelphia. During his patent career, he has also worked as a patent attorney in general practice firms as well as in-house counsel to a high technology startup company before starting his own firm, Maenner and Associates, LLC, in February 2011. He presently serves on the Board of the College of Engineering Alumni Association, and is also patent counsel to the Mechanical Engineering and Mechanics Department.

“Being a patent attorney, I have the unique opportunity to be the second or third person (after the inventors) to ever see a new invention. I never know what type of new and potentially game-changing gadget will cross my desk on any given day. Being able to obtain a patent for these inventions provides me with a great sense of accomplishment and satisfaction, particularly if the client is able to use the patent to his financial benefit.”

Patrick S. McGonigal, Finance ‘86

Silver Dragon Society Award Recipient

In 2000, Pat and his partners founded iHealth Technologies, an Atlanta-based medical payment policy management company, where Pat served as Chief Financial Officer until 2009. Today, he serves as Senior VP of Finance; iHT processes more than $30 billion of medical claims each year, generating annual savings of nearly $700 million. In 2006, Pat established the Catherine R. McGonigal Tuition Fund, which has provided more than $840,000 in tuition assistance to students. And in March 2008, he established the Patrick S. McGonigal ’86 Scholarship Fund at Drexel, which annually provides a full one-year scholarship to a deserving graduate of his former high school, Father Judge.

“My professional motivation and inspiration comes from the opportunity to work with highly talented and skilled colleagues who come together to solve complex problems that help to meet important needs of society. In the process, the opportunity to continuously learn from others and to share my experience helps me build skills to improve my effectiveness and to maintain relevant skills for the future.”

For more information including award descriptions and details on how to make a nomination for the 2012 Alumni Association Awards, please visit drexel.edu/alumni/honors_awards.asp.
Drexel Alumni Association Hosts
2nd Annual Global Night of Networking

The Global Night of Networking is an event hosted by the Alumni Association, which brings together alumni from all over the world in one single night of networking and Drexel camaraderie. On Thursday, May 5, 2011, Drexel alumni around the globe got together in person, online, or via social media to celebrate the first-ever Global Night of Networking.

The event was such a success, the Alumni Association is already planning a Global Night of Networking for Thursday, April 19, 2012—so mark your calendars!

Last year, happy hours were held in 38 cities, ranging from Ann Arbor to Athens, Las Vegas to London. More than 300 alumni attended these networking happy hours and more than 500 alumni participated in the Global Night of Networking online throughout the evening by visiting the Alumni Association Web site, viewing the live stream video of the happy hour in Philadelphia, or following along on Twitter or Facebook.

In addition, 47 alumni volunteers worked with the Alumni Association to host these networking happy hours. The success of this world-wide event surely would not have been possible without their help. Here’s what some of our alumni volunteer hosts had to say about the Global Night of Networking:

“I thought it was a great idea and it reminded me of New Years Eve around the world. It was very cool to see all of the photos and know that other cities were doing the same.”—Kathleen Morouse, Nursing ’09, Pittsburgh, Pennsylvania

“It was a great initiative for alumni to continue networking, stay in touch with Drexel and grow together.”—Vinay Gadia, Electrical Engineering ’09, Bangalore, India

“Local attendees enjoyed sharing experiences from Drexel with one another, and talking about how a Drexel education has shaped our lives.”—Debra Gabriel, Design and Merchandising ’85, Phoenix, Arizona

This year the Alumni Association’s goal is to have an even bigger and better Global Night of Networking, bringing out more alumni in more cities, and engaging more alumni volunteers to help us pull it off! Adding to the excitement, this year’s celebration of Global Night of Networking is the April signature experience for the Drexel Year of the Dragon (for more information on Drexel’s Year of the Dragon, see page 11).

More information about the next Global Night of Networking will be available soon. In the meantime, save the date for Thursday, April 19, 2012, and start spreading the word to other alumni in your area. Maybe your city will have the best turn out at this year’s Global Night of Networking! If you’re interested in volunteering as an alumni host for a networking event in your area, contact the Alumni Association at alumni@drexel.edu or call 1-888-DU-GRADS.
# Drexel University

## ALUMNI ASSOCIATION BOARD OF GOVERNORS MEMBERS

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<tr>
<th>Executive Committee Officers 2011-13</th>
<th>Elected Directors 2011-12</th>
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<tr>
<td><strong>Chair</strong> Jeffrey T. Macaluso, Finance ‘82 &lt;br&gt; Maple Glen, Pennsylvania</td>
<td>Ashley Smith Baptiste, Hotel and Restaurant Management ‘92 &lt;br&gt; Broomall, Pennsylvania</td>
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<tr>
<td><strong>Vice Chair</strong> Lawrence P. Lehmann, P.E., Civil Engineering ‘72 &lt;br&gt; Red Bank, New Jersey</td>
<td>Richard D. Blumberg, Marketing ‘84 &lt;br&gt; Lansdale, Pennsylvania</td>
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<tr>
<td><strong>Vice Chair</strong> Ira M. Taffer, Chemistry ‘79, PhD ‘83 &lt;br&gt; Dresher, Pennsylvania</td>
<td>Catherine M. Campbell-Perna, Corporate Communication ‘95, MS Higher Education ‘11 &lt;br&gt; Media, Pennsylvania</td>
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<td><strong>Secretary</strong> Palak N. Raval-Nelson, MPH Public Health ‘02, PhD Environmental Science ‘08 &lt;br&gt; Philadelphia, Pennsylvania</td>
<td>Jonathan S. Corie, Business Administration ‘70 &lt;br&gt; Chester Springs, Pennsylvania</td>
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<td><strong>Treasurer</strong> Robert S. Lazzaro, Commerce and Engineering ‘82, MBA Business Administration ‘96 &lt;br&gt; Oxfordshire, United Kingdom</td>
<td>Francis P. Cymbala, Jr., Accounting ‘82 &lt;br&gt; Lower Gwynedd, Pennsylvania</td>
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<td><strong>Past Chair</strong> James B. Dougherty, Jr., Esq., Accounting ‘78, MS Taxation ‘81 &lt;br&gt; Shamong, New Jersey</td>
<td>Susan B. Daroff, Design and Merchandising ‘70 &lt;br&gt; Berwyn, Pennsylvania</td>
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<td><strong>Executive Director</strong> Cristina A. Geso, Associate Vice President, Office of Alumni Relations</td>
<td>Jeffrey S. Harlow, CPA, Accounting ‘81 &lt;br&gt; Laguna Beach, California</td>
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<th>Governors Emeriti</th>
<th>Alumni Constituent Group Representatives 2011-13</th>
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<td>Joel B. Cohen, Business Administration ‘54</td>
<td>Jason A. Miller, Business Administration ‘07 &lt;br&gt; Bensalem, Pennsylvania</td>
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<td>West Chester, Pennsylvania</td>
<td>Michael D. Andescavage, Information Systems ‘06 &lt;br&gt; Seattle, Washington</td>
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<tr>
<td>Arnold H. Kaplan, Commerce and Engineering ‘62</td>
<td>Governors Emeriti</td>
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<td>Allentown, Pennsylvania</td>
<td>Randolf H. Waterfield, Jr., Business Administration ‘55 &lt;br&gt; High Bar Harbor, New Jersey</td>
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<tr>
<td>Adelina G. Kieffer, J.D., Economics ‘77</td>
<td>Joseph H. Wiseman, Jr., Mechanical Engineering ‘51, MS ‘62 &lt;br&gt; Hatboro, Pennsylvania</td>
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<td>Birdsboro, Pennsylvania</td>
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As you read earlier (“Building Boom,” Pg. 6), Drexel is undergoing a massive facelift, with new building projects sprouting up all across campus. It’s without question an exciting time, but with all of the new buildings popping up, it can be easy to forget about all of the old buildings—the facilities that have been standing here on campus, and serving the Drexel community, for years and years.

Which brings us to the Back Page Puzzle, a Drexel building-themed crossword that will test your knowledge of your alma mater’s campus and its buildings—as well as a bunch of other stuff, too. It figures to be quite a challenge. Good luck.

**ACROSS**

1  Hall for students in the Learning Communities program
6  “Ablevision” station
10  Drexel University Magazine reader, for short
14  Went for
15  Prefix with European
16  Hold sway over
17  Flew through the engineering center?
20  Day that Drexel goes “Trayless” during Earth Month: Abbr.
21  Looks boldly at
22  Closets in the science hall?
29  Poker player’s declaration
30  Almost a dunk
31  Prepared to take off
33  Foyer spread
34  Take a swing
38  Loath to go to the student center?
41  Trumpet man Al
42  Dispose of
43  Opposite of a surplus
44  Church ringers
46  Stones chart topper of 1973
47  Mouse in the theater?
50  Mix thoroughly
52  drexel.edu, e.g.
53  Alumni Center V.I.P.?
61  One of the opposition
62  Memo header
63  Mama Judd
64  Undergrad’s student literary magazine
65  Frat guys
66  A-bomb trial

**DOWN**

1  __ Paul’s seafood
2  Mocking cry
3  Producer for David Bowie and U2
4  One who blabs
5  Legislation
6  Most fearsome
7  Card game with four colors
8  Fall scores by the Dragons: Abbr.
9  Marilyn __ Savant
10  Pitman’s shorthand competition
11  100-kopec unit
12  Plant with spiny leaves
13  Moistens, poetically
18  It can be behind the eightball
19  College ___
22  Get rid of, in slang
23  Japanese porcelain ware
24  Bobby ___
25  Peace’s companion
26  Without oomph
27  Magnum effort
28  Strait-laced
29  Baseball’s Jeter
34  Tripod, e.g.
35  The L of XL
36  Up to such time as
37  Broadway great Merman
39  Get one’s dander up
40  Best Actor of 2003 and 08
44  A-F connection
45  Lays low
47  Significant
48  Original source of calico
49  Heap content
50  Gun sound, in comics
51  Horne who sang “Deed I Do”
54  Barbecue tidbit
55  The Plastic ___ Band
56  Drexel president John Anderson
60  Do-it-yourself buy

Think you’ve got all the answers?

If so, send us your completed puzzle to be entered into a drawing to win a great Drexel prize. Puzzles can be mailed to:

Drexel Magazine
Office of University Communications
Main Building, Suite 309
Philadelphia, PA 19104-2875
It’s simple…

1. Cut out Mario.
2. Place him in the destination you are photographing.
3. Send it to us.

There’s no question: Drexel is going global. Between our rising reputation, our fast-growing urban campus and our new partnerships both at home and abroad, the world is waking up to the dynamism and excitement that is the Drexel of today.

Now, here’s your chance to do your part to spread the word about your alma mater.

No matter where your travels may take you, be sure to bring along this Mario cutout, take a creative shot of our beloved mascot and send it back to us via email, Facebook or Tumblr. Whoever sends in the best photo will win a great Drexel prize.

So get out and spread the word. The world is waiting.

wheresmario@drexel.edu
facebook.com/drexeluniv
wheresmario.tumblr.com

Cut-out instructions...

1. Cut along the black dotted line
2. Fold back the two side flaps and connect slots A and B, thus forming a triangular stand
3. Fold the lower front lip up to act as a font stand
COME BACK TO CAMPUS AND CELEBRATE THE YEAR OF THE DRAGON AT ALUMNI WEEKEND!

**SAVE THE DATE for MAY 4 & 5, 2012**

Reconnect with old friends and make new ones, all while exploring the campus and meeting deans, faculty and students!

Some event highlights include:

- Class of 1962 Golden Dragon Luncheon
- Alumni Family Picnic
- University City 5K Run
- Class of 1987 Silver Dragon Reception
- University Gala