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# DELAWARE

MESSENGER  
VOLUME 22 | NUMBER 2



Director's  
light is bright  
on Broadway

Tony winner Susan Stroman '76  
remains a Blue Hen at heart

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DELAWARE

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## FEATURES

### Shining on stage **6**

Susan Stroman '76, who says people at UD “gave me the strength to pursue my passion,” first went to New York as a dancer and now has won numerous accolades as a Broadway choreographer and director, working with some of the biggest names in entertainment.

### Eclectic enthusiasts **14**

From racehorses to soccer, critical animal-science research to a top-notch venue for the game they love, Stuart and Suzanne Grant have given generously to support facilities and programs at UD.

### Poetry, pottery, dance **24**

A collaboration between two faculty members, which blossomed to include their students and partnerships in art, poetry and dance with the larger community, has yielded a performance that tells the little-known story of a highly accomplished enslaved artisan.

### Science vs. religion **46**

Lawrence Principe '83, an internationally recognized scholar of the history of science, shares his perspective on the so-called war between science and religion—what he calls “a stubborn myth,” as untrue as it is widely believed.

Cover photo copyright Paul Kolnik



Photo by Evan Krape: Deanna Lentini, shown here on the University farm, is one of many animal science students benefiting from the expansion of equine studies at UD (See article on page 14).

## DEPARTMENTS

### On The Green

News from the campus ..... **10**

Research ..... **24**

Athletics ..... **32**

Alumni ..... **36**

Class notes ..... **60**

## WEB EXTRAS



To watch a video of the ceremonies at Commencement 2014, at which Vice President Joe Biden '65 addressed the graduates, visit [www.udel.edu/002242](http://www.udel.edu/002242)



Football season is kicking off. For updates and all UD Athletics news, visit [www.bluehens.com](http://www.bluehens.com)



To travel aloft in a hot air balloon with students in a landscape ecology class, view their video at [www.udel.edu/002243](http://www.udel.edu/002243)



Want to see Alumni Weekend from a social media perspective? Visit our Storify page for lots of photos and fun, [www.udel.edu/002244](http://www.udel.edu/002244)

## Reaping rewards of service

A group of UD students spent spring break working on an urban farming project in Baltimore, described by one as a “wonderful opportunity to give back to the community.” In all, more than 200 students took part in eight service projects through the UD Alternative Breaks program.

Photo by Evan Krape







## FROM OUR PRESIDENT

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Who said being UD president is all hard work?

Last spring, I had a barbecue at my house and invited everyone in the Class of 2014 who contributed to the Senior Class Gift. As you can see in the photo above, we had a great time. As you can also see, I'm pretty terrible at beanbag toss.

Next to me is Brielle Gerry, 2014 recipient of the Emalea P. Warner Award. Not only is Brie the outstanding woman of her class, she's also a lot better at lawn games than I am.

By the time you read this, I'll have already welcomed the Class of 2018 to UD. I look forward to cheering on our newest Blue Hens through many successes to come and witnessing their deepening relationship with each other and with the University they call home.

And, just in case, I'm working on my beanbag-toss skills.

Sincerely,

Patrick T. Harker  
President, University of Delaware

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# CAREER IN LIGHTS WITH A BULLET



PHOTO: BRAD BARRETT/INVISION/AP

**B**efore *USA Today* called her “the American woman who rescued the Broadway musical from mopey foreign interlopers,” before *Harper’s Bazaar* interviewed her as one of Broadway’s most powerful women, before *The New York Times* said she “attracts Tony nominations the way cashmere draws moths,” Susan Stroman was a Blue Hen.

“I loved growing up in Wilmington and being surrounded by family and friends, and I have very good memories of UD,” says the 1976 theatre graduate, who also was awarded an honorary doctorate in 2005. “It is such an idyllic campus, and the people I met there gave me the strength to pursue my passion.”

The five-time Tony Award-winning choreographer and director was a girl with visions of dancers gliding through her head anytime she heard music. Her earliest memories of dancing around the living room as her father played popular tunes are part of her legend. But those dancing visions—combined with the sense of optimism and

“Don’t wait for the phone to ring. Make it happen. Stir it up.”

—Susan Stroman



Susan Stroman with  
*Bullets Over Broadway*  
writer Woody Allen

PHOTO BY PAUL KOLNIK

joy that just seems to bubble out of her, plus an extra dose of chutzpah—have made her what Broadway’s revered producer and director Hal Prince (winner of a record 21 Tony Awards) calls “a shiny person.” Make that a successful person, too.

Her No. 1 piece of advice for those who would like to follow in her famous footsteps?

“Don’t wait for the phone to ring. Make it happen. Stir it up.” That’s what “Stro,” as Broadway insiders call her, has been doing all her life.

The summer before her senior year at UD, Stroman recently told *The New Yorker*, she and a friend drove a Cadillac Eldorado convertible across the country to deliver it

to a local car company and to begin a house-sitting gig in San Francisco. When they started to run out of money, the idea of working at a burger joint never occurred to them. Instead, they approached street performers on Fisherman’s Wharf about adding two blondes to their act and eventually found a one-man band willing to share the streetlight.

Stroman and her friend put together five tap routines to go with just about any song and were soon raking in about \$80 a day dancing as the man played. They were so popular with tourists that sometimes police had to be called in to clear the sidewalks. Fans made up buttons with their pictures on them, and they landed an audience participation bit on *The Tonight Show*.

Not much later, at 22, Stroman was one of 300 dancers who auditioned for three spaces in a revival of the musical *Hit the Deck*. She got the part, moved to New York and never looked back.

Although her true calling was choreography and creating for the theatre, Stroman says, “I came to New York as a song and dance girl. I knew I couldn’t just arrive and try to take over everything.”

While she sang and danced and waited, she made occasional forays into choreography—a showcase at the Equity Library Theatre, industrial shows and, finally, in 1987, an off-Broadway revival of *Flora the Red Menace*, directed by her friend Scott Ellis and written by John Kander and Fred Ebb.

A few years later, drawing on that same optimism and chutzpah, Stroman and Ellis approached the now-famous Kander and Ebb about downsizing *Flora* and staging it as WPA Theatre from the 1930s. Later, the two had the idea of combining Kander and Ebb songs into a revue, a new production called *The World Goes ‘Round*, which ran off-Broadway for more than 400 performances. It was another example of the Stroman approach: “Take a chance, ask the question, ‘What’s the worst thing that could happen?’ and go for it.”

Stroman’s life after *The World Goes ‘Round* took on an upward trajectory that included choreography for Hal Prince’s *Don Giovanni* and Liza Minnelli’s *Stepping Out at Radio City*. After that, Stroman signed on to choreograph *Crazy for You*, a show that brought her her first Tony Award in 1992. It also led to love and her eventual marriage to the show’s director, the late Mike Ockrent.

She won another Tony for choreography for *Show Boat* in 1995 and for *Contact* in 2000, a year in which she was also nominated for directing that show and for choreography and directing in *The Music Man*. In 1996, she was nominated again for choreography in *Steel Pier*.

The years 1998–2000 brought her the best and the worst



Stroman (center), honored by the New Dramatists in May with the group’s Lifetime Achievement Award, poses at the celebration with *Bullets!* (from left) Nick Cordero, Marin Mazzie, Karen Ziemba and Brooks Ashmanskas.

of times. One evening in December 1998, the doorbell rang at the home Stroman and Ockrent shared, and in danced Mel Brooks, leaping up on their sofa—a showman at his best. Before the night was over, Ockrent had agreed to direct and Stroman had agreed to choreograph an adaptation of Brooks’ movie *The Producers* for the Broadway stage. In the next year, the joy of collaborating on

such a funny show was marred by Ockrent’s diagnosis of leukemia. After eight months of remission, the disease came back suddenly with a vengeance in the fall of 1999, and he died in early December.

It took Brooks several months to convince a grieving Stroman to stay with the show as choreographer and to take over Ockrent’s role as director. In 2001, *The Producers* won 12 Tony Awards, two of them Stroman’s for choreography and directing. It was a production that brought her personal healing and helped audiences forget about the tragedy of 9/11 for a few hours each evening, Stroman has said, noting the “life force of the theatre.”

In the years since 2001, Stroman has been nominated for a Tony Award for choreography for *Oklahoma!* and for choreography and directing of *The Scottsboro Boys*. This year she was nominated again for choreography for her most recent project, *Bullets Over Broadway*, which she also directed.

An adaptation of the Woody Allen movie by the same name, the show asked audiences to consider just how far they would go for art, as the show’s male lead, played by Zach Braff of *Scrubs* fame, pondered having his show financed by a gangster, having the gangster’s girlfriend play the lead and having a junior gangster rewrite his lines.

Allen approached Stroman about *Bullets*, and the show opened two years to the day after their initial meeting. She says the project interested her because of its theme as a backstage musical.

“All of Woody’s work is very authentic, and it was important to him that the music come from the 1920s,” she says. It was

their combined ability to name and remember so many old songs that may have sealed the deal for him, she says.

Stroman's next project is the new musical *Little Dancer*, which opens at the Kennedy Center this fall. She will choreograph and direct.

The musical is inspired by the story of Marie von Goethem, a young ballerina who posed for Edgar Degas' statue "Little Dancer Age 14." The Kennedy Center production stars four-time Tony Award winner Boyd Gaines, three-time Tony Award nominee Rebecca Luker and New York City Ballet principal dancer Tiler Peck. The musical is being penned by the Tony Award-winning team of book and lyrics writer Lynn Ahrens and composer Stephen Flaherty (*Ragtime*, *Rocky*).

Again, it was the chance to tell a story that attracted Stroman to this production.

"I love what I do; I'm a storyteller and I love telling stories," she says. "In my business I am lucky because I get to tell a lot of really diverse stories. I never really think of the

hoopla or awards, I just immerse myself in whatever story I am telling. My favorite project is always the one I am working on at the time."

### Keeping the connection

Stroman has remained involved with the University throughout her career, serving as a Winter Commencement speaker, meeting with theatre students during a campus visit and hosting events for alumni and friends of UD in her New York City apartment.

When the Center for the Arts was under construction, she toured the site and made a major gift to support the project.

"My time here as a student was a wonderful time, and I love being here now," she said during that visit.

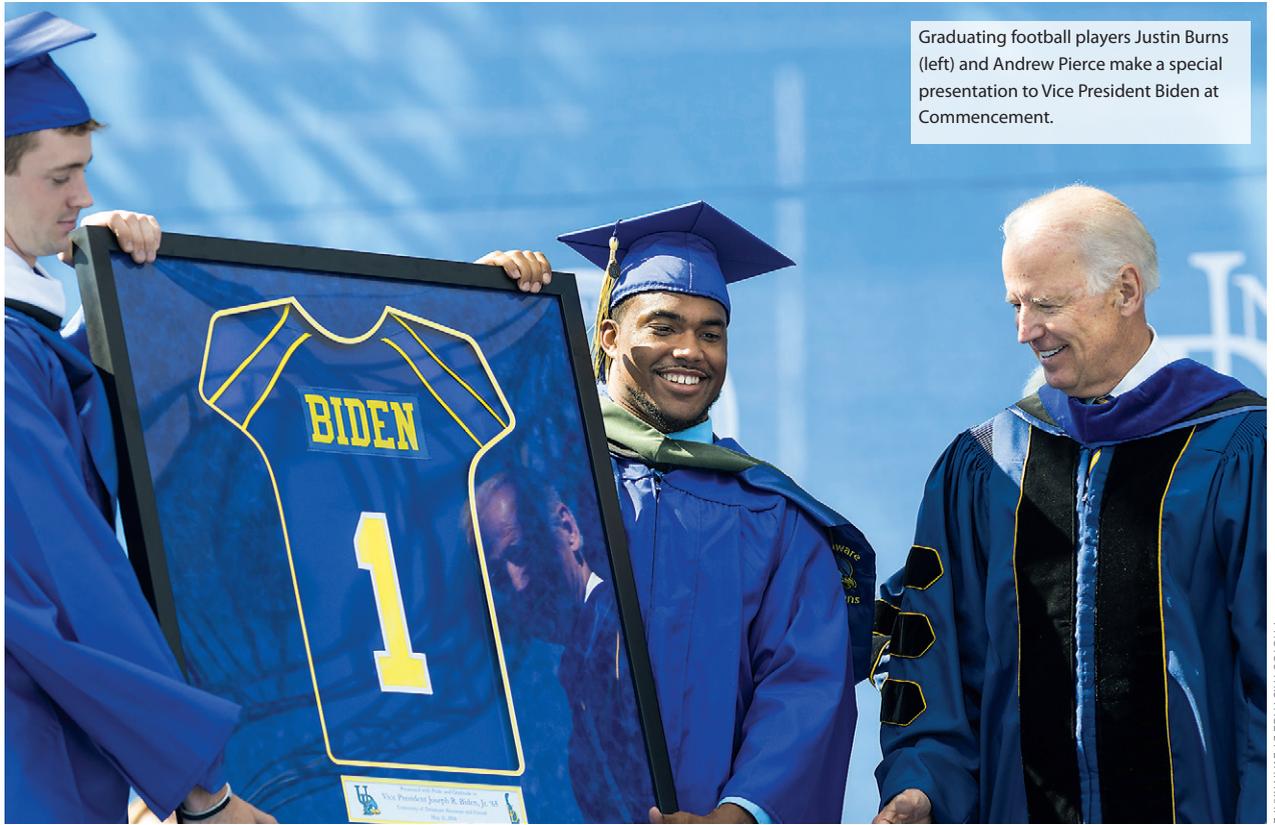
In 2005, UD presented her an honorary doctor of humane letters degree, calling her "one of musical theatre's greatest treasures." ■

—Beth Thomas



Susan Stroman at a rehearsal for the 2013 musical *Big Fish*, with cast members Kate Baldwin and Brad Oscar

PHOTO BY PAUL KOLNIK



Graduating football players Justin Burns (left) and Andrew Pierce make a special presentation to Vice President Biden at Commencement.

PHOTOS THIS PAGE BY EVANKRAME

## Biden celebrates Commencement with fellow Blue Hens

Graced by nearly picture-perfect weather, graduates and their families and friends celebrated the University’s 165th Commencement on May 31, at Delaware Stadium.

Vice President Joe Biden, a 1965 alumnus, asked the new graduates to recognize the support given by their families and to give a round of applause for veterans graduating and for those about to enter into the U.S. armed forces.

Forgoing the offering of advice, Biden noted that no class ever gets to choose the world into which it graduates.

“When every class enters into the history of the nation, that history up to that point has been written by others,” he said. “Once every couple of generations, a graduating class will enter a point in our history where they actually have a chance

to change the trajectory of their country.”

Because it is entering at such an “inflection point,” the Class of 2014 has a chance to “grasp the situation and to bend history just a little bit,” Biden said.

Recalling his own graduation and the “transformative moments” on the UD campus, he described a world characterized by a nuclear arms race with the former Soviet Union, a civil rights movement that was faced by increasing violence, and a generational gulf caused by differences over the Vietnam War.

“On Nov. 22, 1963, on a brilliant sunny day, I stood on the steps of Hullahen Hall and learned that President John F. Kennedy had just been assassinated,” Biden said. “In the spring in which I graduated from law school, the only



*“Don’t listen to the cynics, don’t let them tell you our best days are behind us. We’re just starting, and you are going to change the world for us.”*

heroes I ever had in public life, Dr. [Martin Luther] King and Robert Kennedy, were murdered.”

He also recalled how the war in Southeast Asia was still raging, and how his favorite town of Wilmington, Delaware, was in flames with National Guard troops stationed on every corner. It was at this time, he said, that several professors at UD helped to put the chaos that surrounded him into perspective.

“They not only taught me, they challenged me and helped me understand the change that was happening,” Biden said. “Most importantly, they argued that it was in our power to fix America, because of the incredible foundation upon which this nation was built.”

Biden noted that this perspective reinforced what his parents had taught him: that what Americans value the most is equity, fairness and justice, and that the nation will prevail even in times of turmoil from within and without.

“Now, it’s your chance,” he said. “You’re graduating into a world that is changing just as profoundly. There are different dangers but also incredible possibilities, but you have significantly more tools.”

In describing himself as “the White House optimist,” Biden said this outlook is based on the trajectory of America and the incredible opportunity of the world into which the Class of 2014 is entering.

“Don’t listen to the cynics, don’t let them tell you our best days are behind us,” he said. “We’re just starting, and you are going to change the world for us. God bless all of you.”

Also addressing the crowd, UD President Patrick Harker told the new graduates that the Blue Hen spirit would help keep them connected to their University for years to come.

“You will go on to do great things and you will continue to make us proud,” Harker said. “For the achievements you have already accumulated and those that await you, let’s have another round of applause for today’s graduates.”

He enjoined the graduates who grew up in the digital age to meet the challenge posed by smart machines with the human spirit of creativity and innovation. Rather than taking the machines head-on in areas where they already do things better, Harker recommended doing things that computers don’t, through creative initiative and big-picture planning.

“People are still especially good at coming up with especially good ideas,” he said. “We can recognize large-scale



KATHIE EATKINSON

Commencement was thrice as nice for graduating triplets (from left) Leslie, James and Stephanie Manning. Each has a different major and different career plans.

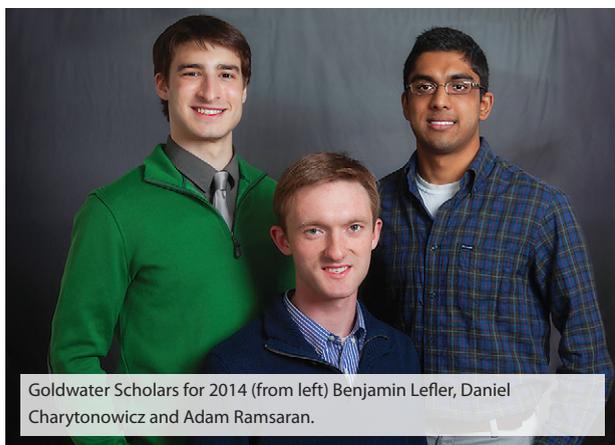
patterns and combine different sets of data in different ways to solve complex and persistent problems. ... We can give back what we take from technology by teaching others the skills that can’t be automated. We can strive to imbue in our colleagues the creativity and ingenuity that sets us apart from machines to propel our growth intellectually, professionally and spiritually.” ■

—Jerry Rhodes, AS04

### More about UD’s 165th Commencement

- The University conferred 4,456 undergraduate and 1,108 graduate degrees.
- Ten graduating students earned their bachelor’s degree with perfect grade point averages.
- The evening before Commencement, a doctoral hooding ceremony on The North Green celebrated the awarding of 195 new academic doctoral degrees.
- The University presented honorary doctoral degrees to Hans-Jörg Bullinger, president of Fraunhofer-Gesellschaft, one of Europe’s largest applied research organizations and a partner with UD’s Delaware Biotechnology Institute; Roberta F. Colman, UD professor of chemistry and biochemistry; Ellen Kullman, CEO of the DuPont Co.; and Myron T. Steele, former chief justice of Delaware, who retired in 2013.

Visit [www.udel.edu/002241](http://www.udel.edu/002241) for more Commencement information and photos.



Goldwater Scholars for 2014 (from left) Benjamin Lefler, Daniel Charytonowicz and Adam Ramsaran.

AMBRÉ ALEXANDER PAVINE

## Goldwater Scholarships honor academic excellence

Three UD students have earned 2014 Goldwater Scholarships, considered the premier undergraduate award of its kind and designed to encourage outstanding students to pursue careers in mathematics, the natural sciences and engineering.

Daniel Charytonowicz, majoring in biomedical engineering and computer science, Benjamin Lefler, a chemistry major, and Adam Ramsaran, who is majoring in neuroscience, are among 283 Goldwater Scholars selected on the basis of academic merit from a field of more than 1,100 applicants nationwide. The Barry M. Goldwater Scholarship and Excellence in Education Foundation was established in 1986 to honor the late senator.

Charytonowicz plans to earn both an M.D. and a Ph.D. in biomedical engineering so that he can conduct research to expand the clinical capabilities of medical diagnostics technology. He has worked with psychology Prof. James Hoffman on research

designed to understand the cognitive mechanisms of visual attention—in other words, how the brain collects, sorts and processes visual information.

Lefler plans to continue his education with a doctoral degree in inorganic chemistry, with goals of conducting research in solar energy conversion and teaching at the university level. Advised by Joel Rosenthal, assistant professor of chemistry and biochemistry, he has conducted research on the photochemistry of a type of molecule that could lead to more efficient solar cells.

Ramsaran plans to earn a Ph.D. in neuroscience and then teach at the university level, with research focusing on the neural mechanisms by which neurodevelopmental disorders affect cognition. Under the advisement of psychology Prof. Mark Stanton, he is conducting research involving spatial learning and memory during embryonic development, with a focus on fetal alcohol disorders. ■

## Students selected for prestigious international programs

Three UD students who graduated in May received competitive awards from U.S. State Department programs to fund international pursuits. Matthew Werth and Alyssa Hull were accepted to the 2014-15 Fulbright U.S. Student Program, the State Department's flagship international exchange, and Mackenzie Tyler was awarded a Critical Language Scholarship to study abroad for the summer.

Werth, who graduated with an honors degree in Chinese studies and a triple language major in French, Spanish and Portuguese, received a Fulbright English Teaching Assistant Program scholarship and will teach English in Yilan, Taiwan, for a year.

His passion for Chinese was first ignited because his two younger sisters were adopted from China. "I think cross-cultural communication is incredibly important, and you can't really understand a culture until you speak their language," he says.

Hull, who earned dual honors degrees with distinction in chemistry and art conservation, received a Fulbright Research Scholarship. She will be studying pigment change, including fading and degradation in master works and how to slow or stop the process, in Norway.

She has deferred enrollment in a chemistry doctoral program at Duke

University until she returns from Norway. "I get really excited looking at data," Hull says. "When I am standing next to a painting I've always wanted to see, I am in awe."

Tyler, who earned a degree in criminal justice with minors in political science and sociology, received the language scholarship to study in Japan for two months after graduation. She has studied Japanese since her freshman year at UD and previously spent a month in Japan, but she says her passion for the language began when she was younger and enjoyed anime and manga.

After returning from Japan, she will pursue a master's degree in criminology at Temple University and hopes to one day work for the Department of State. ■



Mackenzie Tyler (left), Matthew Werth and Alyssa Hull

ELIZABETH ADAMS

## Leading the charge for cleaner vehicles

Charging stations for electric vehicles will be strategically placed at key locations in Delaware to enable long trips in the state by next year, through a new collaborative research agreement between the University and the Delaware Department of Natural Resources and Environmental Control.

UD researchers are in the process of determining the most effective locations for charging stations, and they will assist in equipment installation and analyze station usage when the stations become operational. This new infrastructure will support greater use of electric vehicles, which do not release air pollution or carbon dioxide, unlike their gasoline-fueled counterparts.

“A well-planned electrical highway in Delaware makes it easier for drivers

of electric cars both from Delaware and surrounding states to patronize Delaware tourist destinations—from nightlife on the [Wilmington] Riverfront to popular shopping districts to our beaches,” says Nancy Targett, dean of the College of Earth, Ocean, and Environment. “Of course, environmentally, air pollution and the need for gasoline are reduced.”

Two years ago, the federal government announced a national goal of 1 million electric vehicles on the roads by 2015. It also announced help to install charging stations, but the latter effort has been sporadic. For example, in the Mid-Atlantic region electric chargers are clustered within metropolitan areas like Philadelphia and Baltimore, but these are not well located for



EVAN KRAPE

en-route charging, and most are incapable of fast charging.

Electric vehicle drivers in Delaware have access to only a few public charging stations. That does not pose a problem for a driver on a typical day—on average, Americans travel 30 miles per day and can charge at home in the evening—but longer trips require either battery recharging en route or a large and expensive long-distance battery. ■

—Teresa Messmore

## High honors for top scholar, educator

Abraham Lenhoff, the Allan P. Colburn Professor of Chemical and Biomolecular Engineering whose research involving proteins has important potential applications in the treatment of human disease, has received the University’s highest competitive faculty honor for 2014.

The Francis Alison Faculty Award was established by the Board of Trustees in 1978 to recognize the faculty members who best demonstrate the combination of scholarship and teaching exemplified by the Rev. Francis Alison, founder of the institution that is now UD.

Lenhoff, who joined the faculty in 1984, is internationally recognized for his expertise in applying the principles of thermodynamics, transport phenomena, biophysics and colloid science to protein separations and phase behavior, especially chromatography and crystallization.

He is the principal investigator on a multimillion-dollar Center of Biomedical Research Excellence (COBRE) program funded by the National Institutes of Health since 2000. The research focuses on membrane protein production and characterization, a field of



growing importance in biomolecular engineering research. The project has brought together the efforts of many researchers on campus and is building the core facilities needed for membrane protein production, structural biology and bioimaging research at UD and the Delaware Biotechnology Institute.

“Bramie Lenhoff epitomizes the qualities of an Alison Professor—a world-class scholar, a dedicated teacher and mentor and a model University citizen,” says Donald L. Sparks, S. Hallock du Pont Chair, director of the Delaware Environmental Institute and chair of the Francis Alison Society.

In 2009, Lenhoff received a UD Excellence in Teaching Award. Another measure of his educational impact is that many of his former students have become faculty members at top universities and leading engineers in the biotechnology industry. He is also credited with serving as a teaching and research mentor to many early-career faculty members. ■

# Off to the races



Stuart and Suzanne Grant  
at UD's Webb Farm

## Once Stuart and Suzanne Grant got to know UD, there was no stopping them

It was about midway through his second year of taking classes that Stuart Grant found himself hooked on UD.

He had started the pre-veterinary curriculum back in 2009, taking one course a semester and attending lectures as often as his schedule would allow. And as he chatted with Delaware Gov. Jack Markell in early 2011 about being back in school, he couldn't contain the excitement.

"I love this place—the students, the faculty, the campus, all of it," he said. "I'd love to do more, help out, serve on the Board."

Markell was intrigued. "Would you really have time?"

"I'd make time."

Just two months later, Grant, a founding partner and managing director of one of Delaware's top corporate law firms, was testifying before the state Senate to be confirmed as a member of the Board of Trustees. He is now three years into his term, 10 semesters into his coursework—and as active and as engaged as ever.

“From the very beginning, I felt an obligation to learn more about UD,” says Grant, who met with all of the deans and senior administrators in his first year. “And the more I learned, the more I wanted to do.”

In 2013, he and his wife, Suzanne, made a \$1 million gift to the College of Agriculture and Natural Resources to develop and support an Equine Studies Program, a fitting tribute for a couple who own a 2-year old thoroughbred named Harker. (“He’s a distinguished gray like his namesake,” jokes Grant, referring to UD President Pat Harker).

Since 2001, the couple has operated a horse breeding and racing enterprise that includes a training center in South Carolina and breeding farms in Kentucky and Maryland. When Stuart began taking classes at UD, he had one goal: “I wanted to understand the vets.”

It’s a mission he has accomplished. Boasting a 3.7 GPA, he can now discuss the hormones involved in horse reproduction or read a horse’s mood just by looking at its ears.

“I understand the anatomy and speak the vocab,” he says. “Seeing how immediately applicable this all is has made learning so much more fun.”

The Grants’ gift will create an equine studies minor in the Department of Animal and Food Sciences, providing funding for program development and new faculty hires. In addition to the minor, the Grants have also offered paid internships at their training center to UD students.

“When we believe in something, we commit to it,” Suzanne says.



The Grants visit with equine science students.

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“When we believe  
in something, we  
commit to it.”

—Suzanne Grant

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Indeed, their philanthropy speaks volumes. Even after investing \$1 million to expand academic programming at UD, the Grants committed \$1.5 million earlier this year to renovate the Delaware Mini Stadium. It is the largest single donation by an individual or couple to support a UD Athletics facility.

Improvements to the stadium will include upgrading and expanding the seating capacity to 1,400, as well as replacing the sound system and adding a press box. The facility, home to the men’s and women’s soccer teams and the women’s outdoor track and field program, has been renamed the Stuart and Suzanne Grant Stadium in their honor.

“We love UD, and we’re pretty serious about our soccer,” Stuart Grant says. He refereed the 1982 and 1983 NCAA women’s soccer championship tournaments and spent his 50th

birthday in South Africa, watching the 2010 FIFA World Cup.

And although he “hung up the whistle” after graduating from New York University law school, Grant’s love for soccer has not waned. He began coaching 35 years ago as an undergraduate at Brandeis University. It was there, outside of Boston, that he established the Waltham Girls Youth Soccer Program. Two of his players went on to become All-American in college. Some still coach to this day.

“I wanted to show them that soccer was a path to education and an opportunity to learn life lessons,” Grant says. “And I see that same ethos here at UD.”

He cites soccer coach Ian Hennessy, an All-American and two-time Big East conference MVP who holds a doctorate in molecular biology, as an inspiration for students on and off the field. Grant also commends Athletics Director Eric Ziady and President Harker for placing such strong emphasis on the student-athlete.

“We want students to be proud of where they are 10, 20 years from now,” Grant says. “And when you look at the education and opportunities these kids are getting here at UD, you know they will be.” ■

—Artika Casini, AS05

## Initiative will enhance national cybersecurity

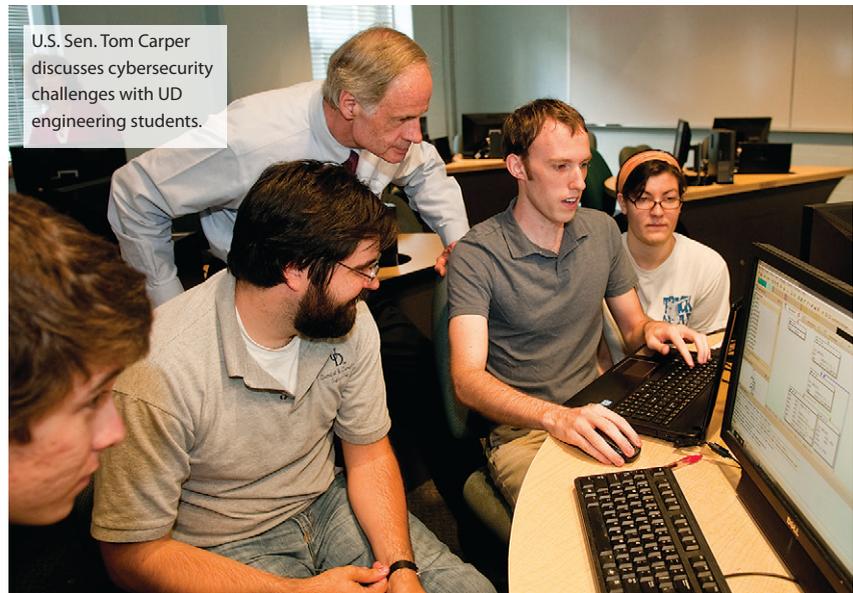
With a leading national expert on board as its founding director, the new UD Cybersecurity Initiative (UDCSI) is moving forward, with a special emphasis on issues facing corporate America.

Starnes E. Walker, a physicist with 35 years of leadership experience in research, development and engineering to enhance national security, took the helm of the initiative in April. Walker has held senior management positions in the federal departments of Defense, Energy and Homeland Security, as well as industry. He has developed critical programs and aligned strategic systems across the U.S. and around the globe.

A key focus of Walker's appointment at UDCSI will be corporate cybersecurity. According to a 2012 survey of more than 9,600 global business executives by PricewaterhouseCoopers, CIO and CSO, more than 41 percent of U.S. respondents had experienced one or more security incidents during the past year, ranging from financial losses to intellectual property theft.

"With Dr. Walker's appointment as founding director of our Cybersecurity Initiative, the University of Delaware gains exceptional expertise in an area of urgent concern," says University Provost Domenico Grasso. "Under Dr. Walker's leadership, UD will develop new partnerships to advance cybersecurity education and research and create prominent academic programs at the undergraduate and graduate levels, as well as certificate programs for corporate and government professionals."

Walker says the initiative will "help prepare the next generation of leaders who will protect the U.S. against cyber attacks," calling it "an all-around 'win'—for the University, for the state of Delaware, for the nation and for all of the businesses incorporated here and beyond,



U.S. Sen. Tom Carper discusses cybersecurity challenges with UD engineering students.

DOUG BAKER

from the financial sector to the energy sector and, absolutely, for the public."

Defending the United States from cyber attacks requires highly trained specialists who can design secure computing systems, write secure computer code and create tools to protect, detect and recover from malicious acts, Walker says.

The United States has a serious cyber workforce shortage, with only 1,000 skilled specialists in the field when the nation needs as many as 30,000, according to James Gosler, founding director of the CIA's Clandestine Information Technology Office.

Cybersecurity is a top priority of the Senate Committee on Homeland

Security and Governmental Affairs, which U.S. Sen. Tom Carper, from Delaware, chairs.

"Now more than ever, we need the best and brightest students to help secure our nation's cyberspace and to protect Americans," Carper says. "I applaud the University of Delaware for its leadership in establishing this new initiative and for appointing Starnes Walker, a national expert, to direct it."

Among his top goals for the initiative, Walker says, will be to develop problem-based and experiential learning programs and to develop cybersecurity activities in partnership with colleges and departments across campus and with corporations and government entities. ■

### Harker named to Homeland Security panel

In related news, UD President Patrick Harker in June was appointed to a two-year term on the U.S. Department of Homeland Security Academic Advisory Council, which is charged with providing assistance to the department on matters related to student and recent graduate recruitment, international students, academic research and faculty exchanges, campus resilience and

preparedness, homeland security academic programs and cybersecurity.

In addition to its new cybersecurity initiative, the University is performing cutting-edge research on many homeland security issues, including world-class avian influenza research, and is home to the Disaster Research Center. ■

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## Teachers, advisers at the head of the class

Seven faculty members have been recognized for noteworthy performance in teaching and advising, with annual awards that are based primarily on student nominations.

The 2014 Excellence in Teaching awards were presented to Dana S. Chatellier, education specialist and instructor in chemistry and biochemistry; Iris Busch, assistant professor of German in the Department of Foreign Languages and Literatures; Dannagal Goldthwaite Young, assistant professor of communication; Robert M. Dyer, associate professor of animal and food sciences; and Debra Gassner Dragone, instructor in accounting and management information systems.

Chatellier, who teaches introductory chemistry classes to non-science majors, says he knows the subject can be intimidating. “My goal is to give my students as positive and enjoyable an experience as I can. ... I want to leave my students hungry to learn more,” he says.

Busch, who says that every student can learn a foreign language, urges teachers to be knowledgeable and passionate about their subject matter. “I want to create a learning community in my classroom where students are challenged and inspired and where their opinions matter,” she says.

For Young, her classroom teaching “is driven by my firm belief that the concepts and theories obtained in my courses ought to help transform these young adults into critical and engaged citizens and leaders.”

Dyer also strives to develop lifelong learners. “My long-term goal is to have students leave the University with a real love to learn and courage to explore,” he says. “The objective is to create an unquenchable thirst for new knowledge within each student.”



AMBRÉ ALEXANDER PAVINE

Excellence in Teaching Award winners (from left) Dana Chatellier, Dannagal Young, Debra Dragone, Robert Dyer and Iris Busch

Dragone describes her teaching philosophy as aiming “to energize each student to want to come to class and enjoy learning the material. There is nothing that says we cannot enjoy the learning experience.”

Recipients of this year’s Excellence in Undergraduate Advising and Mentoring awards were Diane M. Rudolph, instructor in nursing, and Laura Simmering Glass, assistant professor of education.

Rudolph has found her students to be hard-working and dedicated, both academically and in public service. “Being an adviser and mentor requires patience and the ability to assess the student and guide them in a way that gives them the best chance of being successful,” she says. “My goal is to make each one of my students the best nurse possible.”

Glass, who coordinates the Elementary Teacher Education program, says her goal is to provide prospective teachers with the support and experience that will help them grow. “They are motivated and bright students who are eager to make a difference in the lives of children, and I hope that my guidance enables them to achieve their goal,” she says.



KATHY F. ATKINSON

Excellence in Advising and Mentoring Award winners Diane Rudolph (left) and Laura Glass

Also honored at the end of the academic year were two teaching assistants who received Excellence in Teaching awards for graduate students: Yiben Wang, a doctoral student in the Department of Chemistry and Biochemistry, and Nadezda Anatolyevna Stepicheva, a doctoral student in the Department of Biological Sciences. ■

—Jerry Rhodes, AS04



**Michael J. Balick, AG75**, *Rodale's 21st Century Herbal: A Practical Guide for Healthy Living Using Nature's Most Powerful Plants*, Rodale Books.

**Ann V. Bell**, assistant professor of sociology and criminal justice, *Misconception: Social Class and Infertility in America*, Rutgers University Press.

**Joel Best**, professor of sociology and criminal justice, and **Eric Best, BE05, 10M, AS13PhD**, *The Student Loan Mess: How Good Intentions Created a Trillion-Dollar Problem*, University of California Press.

**Hal Bodley, AS59**, *How Baseball Explains America*, Triumph Books.

**William W. Boyer**, Charles Polk Messick Professor Emeritus of Political Science and International Relations, and **Edward C. Ratledge, BE71, 72M**, director of UD's Center for Applied Demography and Survey Research, *Pivotal Policies in Delaware: From Desegregation to Deregulation*, University of Delaware Press.

**Donald Brown, AS89**, *Bob Dylan: American Troubadour*, Rowman and Littlefield.

**David Buehrer, AS87M, 91PhD**, *The Psychology of Social Class in the Fiction of Russell Banks, Denis Johnson and Harry Crews: Neo-Realism, Naturalism and Humanism in Contemporary Fiction*, Edwin Mellen Press.

**Dennis Carey, AS71, 73M**, co-author, *Boards That Lead: When to Take Charge, When to Partner, and When to Stay Out of the Way*, Harvard Business Review Press.

**Donald Lehman**, associate professor of medical laboratory sciences, co-editor, *Textbook of Diagnostic Microbiology*, Elsevier.

**Amy (A.P.) Morris, AS97**, *Unwrapping Me: With Some Help from My Friends*, Synchronistic Books.

**Marian Lief Palley**, professor emerita of political science and international relations, co-author with Howard A. Palley, *The Politics of Women's Health Care in the United States*, Palgrave Macmillan.

**Noelle Sickels, AS68**, *Out of Love*, La Sirena Press.

**Daniel Suarez, AS87**, *Influx*, Dutton.

**Terry Jean Taylor, EH65**, *This Is Your Life: No Apology Needed: The Working Woman's Common Sense Guide to Guilt-Free Joyous Living*, Your Recipe for Living Coach.

**David Teague**, associate professor of literature, UD Associate in Arts program, co-author with Marisa de los Santos, *Saving Lucas Biggs*, HarperCollins.

**Katherine Leonard Turner, AS02M, 08PhD**, *How the Other Half Ate: A History of Working-Class Meals at the Turn of the Century* (the California Studies in Food and Culture series), University of California Press.

## Between the Covers

New books by faculty and alumni

Have you written a new book? Send the information to [TheMessenger@udel.edu](mailto:TheMessenger@udel.edu) and we'll include it in the "Between the Covers" section.

**Dawn M. Drake, E008M**, *A Profile of the Farm Machinery Industry: Helping Farmers Feed the World*, Business Expert Press.

**Robert L. Hampel**, professor of education, *Paul Diederich and the Progressive American High School*, Information Age Publishing.

**McKay Jenkins**, Cornelius Tilghman Professor of English, co-author with E.G. Vallianatos, *Poison Spring: The Secret History of Pollution and the EPA*, Bloomsbury Press.

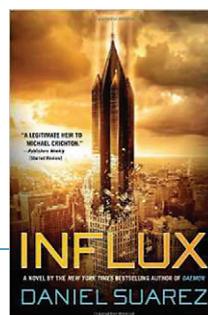
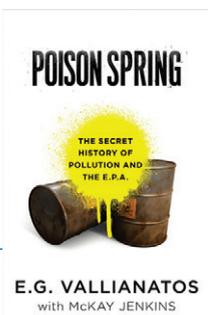
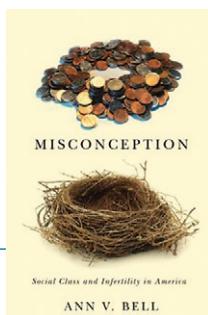
**Jacqueline Jones, AS70, A** *Dreadful Deceit: The Myth of Race from the Colonial Era to Obama's America*, Basic Books.

**Arthur A. Joyce, AS80**, editor, *Polity and Ecology in Formative Period Coastal Oaxaca*, University Press of Colorado.

**Bruce R. Joyce, EH57M**, co-author, *Models of Teaching* (ninth edition), Pearson.

**Faye Kitariev, HS95**, *Choreography of Awakening*, Amazon.

For an extensive listing of books by UD faculty, staff and alumni, visit [www.udel.edu/udauthors](http://www.udel.edu/udauthors). Authors can also post information about their work on that website.



## MONITORING SYSTEM KEEPS AN EYE ON THE SKY



Dan Leathers (left) and Kevin Brinson, director of the monitoring system, inspect a weather station.

KATHY E. ATKINSON

A decade ago, Delaware had only one reliable weather station delivering hourly conditions online. That meant emergency response decisions for the state's entire 2,500 square miles depended on reports from one spot, the New Castle County Airport.

"We really needed to have a better distribution of stations around the state," says Dan Leathers, professor of geography and Delaware's state climatologist.

Leathers and his colleagues set out with state support to build a more comprehensive network—the

Delaware Environmental Observing System (DEOS), housed in UD's College of Earth, Ocean, and Environment—that is now the go-to place online for real-time weather conditions in the state.

This year marks the 10th anniversary of the first DEOS observation on Feb. 24, 2004, and the beginning of what is one of the densest state systems in the country with a total of 51 environmental sensing locations. From road crews to school administrators to news media, DEOS data proved particularly valuable last winter to snow-weary Delawareans.

While emergency management has always been a key function, applications have expanded to benefit the agricultural community and others. Now, Leathers says, the aim is to use DEOS data "to really make a difference in informing decision makers and solving environmental problems." ■

### PROGRAM BRINGS YOUNG AFRICAN LEADERS TO UD

Twenty-five young African leaders selected to participate in a presidential program spent six weeks of their time in the U.S. this summer at the University of Delaware.

President Obama's Washington Fellowship for Young African Leaders is a flagship program of the Young African Leaders Initiative. The fellows who came to UD represented 19 different countries and were among 500 applicants chosen for the program; the others attended similar programs at

19 other U.S. universities.

At UD, the fellows took part in an academic institute on civic leadership with sessions focused on good governance, political organizing and advocacy, diverse roles of the media, civil society-business relations in the U.S., organizational development and more, all within the African context.

"You all have a gift—the capability and leadership ability to make things change," Babatunde Ogunnaike, dean of the College of Engineering and a native of Nigeria, told the fellows.

Among numerous other activities, the group attended an academic session with Wunyabari Maloba, professor of history, titled, "African in America: Walk in My Shoes," and the fellows traveled to Dover, Delaware, one day, where they toured Legislative Hall and met with Gov. Jack Markell. ■

### DELAWARE TEACHERS BRANCH OUT WITH STEM LESSONS

The Interdisciplinary Science and Engineering Laboratory (ISE Lab) was buzzing with activity this

summer, including a program for high school teachers and students. More than 60 students from throughout the state launched foam gliders along the hallways, mopped up miniature oil spills in basins of water and used the learning labs to investigate the effects of acid rain.

The students were learning, but so were their teachers — a dozen teams of science and math teachers from as many high schools, all testing out model lesson plans they had developed over the past several months. The professional development program is supported by a

state Department of Education Mathematics and Science Partnership grant.

In presenting the lessons at ISE Lab, the teachers had the opportunity to assess the hands-on activities they developed and to observe one another's work, says Jon Manon, associate director in the Delaware Center for Teacher Education and co-director for the grant. The other co-director is John Jungck, professor and director of the DuPont Science Learning Laboratories in ISE Lab.

"These teachers all came in with one, 90-minute laboratory-integrated experience for their students, and they all get to go home with 11 more," Manon says.

"We expect that they'll continue to share these lessons with other teachers at their schools." ■

### UP, UP AND AWAY FOR STUDENTS OF LANDSCAPE ECOLOGY

To help them appreciate the full scope of landscapes in the real world, not just through images on their computer screens, Jeff Buler ended spring semester on a high note, taking his landscape ecology students up in a hot air balloon.

The goal was to see firsthand landscape elements, such as habitat patches and corridors, and to be able to delineate how energy flows through ecosystems, such as

water through a watershed. Students saw natural disturbances, geologic features and how humans shape a landscape.

"Nowadays we have all this satellite imagery and things that we work with to quantify the landscape, and we sort of break it down into these simple elements and simple land cover types—things which don't really capture all the complexity of the real world," says Buler, assistant professor of entomology and wildlife ecology.

The group took off at dawn from Pottstown, Pennsylvania, for an hour-long ride over varied terrain.



EVAN KRAPE

"Our interest is in landscape ecology from the perspective of wildlife management," Buler says. "We flew over some state game lands, and [students] could actually see how they were managing the forest and the open areas for wildlife." ■

## CLEAN WATER, HEALTHIER LIVES IN MALAWI

In the Sakata region of Malawi, in southeast Africa, women and girls from five villages walk three hours or more one way to reach a lake. There, they fill buckets with water and journey back to their homes, hoping the precious resource will sustain their communities for another day.

When those involved in the UD student chapter of Engineers Without Borders (EWB-UD) heard about this problem, they decided to get involved, and in June, three students traveled to Malawi to conduct preliminary research for a potable water project. They were accompanied by engineer and mentor Samantha Battle and by Gretchen Bauer, UD professor of political science and international relations.

Nearly half the villages' population is younger than 15, and the majority of residents endure waterborne illness and other health consequences such as high infant mortality rates. The project goal is to improve the quality of life by reducing the prevalence of waterborne illness, leading to increased productivity and school attendance.

"Water is a basic need that we take for granted," says Samantha Meehan, a UD chemical engineering student and Malawi project manager. "So the fact that another country



Senior Alex Lauderback in a Malawi village

is asking us to help provide them with potable water that is easily accessible really makes their needs stand out."

During the first visit, the team built relationships with community leaders and residents, conducted health surveys and gathered baseline data on water quality. More data will be collected during the rainy season in January, when waterborne disease rates are higher.

"EWB-UD had a flawless trip to the Sakata region of southern Malawi," Bauer says. "I believe that most, if not all, of the goals of this first assessment trip were accomplished, and the team now has a very good idea of what more needs to be done during a second assessment trip in January." ■

## HONORS & ACHIEVEMENTS

Three faculty experts were selected to join colleagues from around the world at the Salzburg Global Seminar this year to discuss solutions to global challenges.

**Martha Buell**, professor of human development and family studies and director of the Delaware Institute for Excellence in Early Childhood, participated in “Value(s) for Money? Philanthropy as a Catalyst for Social and Financial Transformation” in March; **Barret Michalec**, assistant professor of sociology and criminal justice, will attend “Realizing the Right to Health: Managing Demand for Health Services Under a Rights-Based Approach” in November; and **Harvey Price**, associate professor of music, participated in “Conflict Transformation Through Culture: Peace Building and the Arts” in April.

**Steven K. Dentel**, professor of civil and environmental engineering and a recognized expert in water processing, who was instrumental in developing UD’s Engineers Without Borders chapter, was honored as the namesake and inaugural recipient of the Association of Environmental Engineering and Science Professors’ Steven K. Dentel Award for Global Outreach.

**Roberta Golinkoff**, Unidel H. Rodney Sharp Chair in the School of Education, has been chosen to receive the Association for Psychological Science’s 2015 James McKeen Cattell Fellow Award, the highest honor conferred by the organization. She shares the award for a lifetime of outstanding contributions with Kathy Hirsh-Pasek, her colleague at Temple University.

**Nayantara Bhatnagar** and **Joel Rosenthal**, assistant professors of

mathematical sciences and of chemistry and biochemistry, respectively, are among 126 scientists and scholars in the U.S. and Canada to receive 2014 Sloan Research Fellowships. Their selection recognizes Bhatnagar’s work in probability theory and Rosenthal’s in renewable energy and identifies them as “rising stars” in the next generation of scientific leaders.

**Arwen P. Mohun**, professor of history, was awarded the 2014 Ralph Gomery Prize from the Business History Conference for her book *Risk: Negotiating Safety in American Society*. The prize, made possible by the Alfred P. Sloan Foundation, recognizes historical work on the effects of business enterprises on the economic conditions of the countries in which they operate.

**Wendy Bellion**, associate professor of art history, was awarded the Smithsonian American Art Museum’s 2014 Charles C. Eldredge Prize for Distinguished Scholarship in American Art for her book *Citizen Spectator: Art, Illusion, and Visual Perception in Early National America*, which the museum calls a “groundbreaking study” that focuses on the Peale family of artists and their Philadelphia Museum.

**Ardeshir Faghri**, professor of civil and environmental engineering and director of the Delaware Center for Transportation Research, was named a 2014 Fellow of the American Society of Civil Engineers, an honor given to only 4 percent of the organization’s members.

**Kelebogile Setiloane**, associate professor of behavioral health and nutrition, was awarded the highly competitive Carnegie African Diaspora Fellowship, an Institute of International

Education initiative to encourage African-born scholars in the U.S. to give back to Africa. She will work on improving the nutritional status of women, children and vulnerable groups in rural areas of Nigeria.

**Linda Gottfredson**, professor of education, has received a Lifetime Achievement Award from the International Society for Intelligence Research, the focal scientific society for the world’s researchers on human intelligence, which reserves its highest award for individuals who have substantially advanced the science of intelligence.

**John F. Rabolt**, the Karl W. and Renate Boër Professor of Materials Science and Engineering, has been named a member of the National Academy of Inventors for the infrared technology developed in his laboratory that has enabled critical breakthroughs in the early detection of such problems as eye diseases and environmental hazards.

**Vijay K. Shanker**, professor of computer and information sciences, has received the Association for Mathematics of Language’s inaugural S.Y. Kuroda Prize for his and his colleagues’ work in natural language processing, focusing on grammar formalisms, which are tools developed by computational linguists to describe the syntax of human language.

Oceanographer **George Luther**, Maxwell P. and Mildred H. Harrington Professor of Marine Studies, has been named a fellow of the Geochemical Society, an honor given to outstanding scientists who have made significant contributions to the field of geochemistry. ■



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# Poetry and Pottery

*Researchers bring an untold story to life*



In the early to mid-1800s, when the man known as David Drake was enslaved in South Carolina, he suffered the loss of family members and friends who were sold at auctions and taken away.

Today, the work that Drake, also known as Dave the Potter, created in clay and in words is sold at high-end auctions to collectors and cultural institutions that appreciate both his artistry and the original poetry he often inscribed on his pots. He is widely considered one of the most accomplished artisans of the antebellum period.

PHOTOS OF PERFORMANCE BY DAN DUNLAP PHOTOGRAPHY

"Dave's creations are considered some of the most masterful pots of the 19th century," says P. Gabrielle Foreman, Ned Allen Professor of English and professor of Black American studies at UD. "They're now in collections at museums and galleries across the United States. ... But this is a story that has gone mostly untold. Many, many people are unaware of Dave the Potter."

Foreman, Lynnette Overby, professor of theatre and then-director of the Undergraduate Research Program at UD, and additional colleagues set out to change that.

This past academic year, the life and accomplishments of Dave the Potter were brought to life in a unique collaboration among University faculty members and students, young people in the area and several noted artists who hail from Drake's South Carolina. The results, shared with scholars, schoolchildren and the general public, involve original poetry, a musical score and paintings, all used in an ambitious performance piece.

It all began a few years ago when Foreman and Overby collaborated on a project involving literature, dance, poetry and music, focused on the autobiographical book *Our Nig: Sketches from the Life of a Free Black* by Harriet E. Wilson.

Foreman had conducted extensive research on Wilson's book, the story of an abused indentured servant in the antebellum North who endures hardships to later find surprising

success as a hair care entrepreneur and religious speaker. Overby worked with performers—including UD students and Glenis Redmond, a Kennedy Center performance poet from South Carolina—to choreograph and present a performance piece based on Foreman's research.

"I've always been interested in interdisciplinary work, and I wanted to do something on slave narratives," Overby says. "That led to the collaboration on Harriet Wilson, and then the Dave the Potter project evolved from there."

Although initially unfamiliar with Dave the Potter's story, "I like projects that demonstrate how the arts can be another way of telling a story and making it accessible to people who might not be reading scholarly work," she says.

After the Wilson project concluded, the team looked for another project, and Foreman suggested one of her current research subjects, David Drake. Drake often adorned his vessels with couplets and other short poems, as well as with his signature—something extremely rare in work by enslaved artisans, who were forbidden by law to read

and write. The College of Arts and Sciences' Interdisciplinary Humanities Research Center supported the professors' proposal, "Dave the Potter's Couplet Pots: Dancing History and Dred Scott," specifically featuring pots created in 1857, the year of the infamous Dred Scott decision by the U.S. Supreme Court.

Redmond continued with the collaboration, writing a suite of poems, and Overby served as





Caitlin Green '14 dances the role of an enslaved woman in "Dream of Freedom," choreographed by Lynnette Overby.

art director, choreographing and directing all aspects of the dance performances. After searching her professional contact list for someone to dance the role of Dave, Overby invited Towson University Prof. Vincent Thomas, who, it turned out, came from the very same community in South Carolina where Dave the Potter had lived and worked.

The end results were performances that also included paintings by Jonathan Green, a renowned South Carolina artist who produced a 1998 series of paintings about the life of David Drake; guest choreography by Teresa Emmons; a score by composer Ralph Russell; a poem by Foreman; a live orchestra directed by UD graduate student violinist Duo Shen and other student musicians; and presentations by performers from the University's dance minor and from Christina Cultural Arts Center and Cab Calloway School of the Arts, both in Wilmington. Undergraduate research scholar Audrey Wright also contributed to the project.

The piece has been performed on the UD campus and in the larger Delaware community as well as at the Council on Undergraduate Research national conference in June. Overby is developing educational materials and a website for students in secondary schools. In



David Drake's poetry on a pot



Lynnette Overby



Gabrielle Foreman

addition to her book *The Art of DisMemory: Historicizing Slavery in Poetry, Performance and Material Culture*, Foreman is editing a collected volume that includes Redmond's poetry and Green's artwork as well as an essay by Overby on the performance collaboration.

Foreman points to one of Drake's 1857 poems as the "emotional core" of the project:

I wonder where is all my relations  
Friendship to all - and every nation

Overby has worked to engage the community in the project at every turn—a goal all the collaborators share.

"The creativity, ingenuity and will to survive and find voice was actively suppressed for millions of captive Africans in the Americas for four centuries," Foreman says. Though the collaborators chose to illuminate Drake's history because it relates unspeakable grief while also inspiring people of all ages and groups, Foreman adds that, "As a Black woman writing about Black subjects, I'm painfully aware that if we don't engage communities outside the academy, too few who share Dave's heritage will ever hear his story." ■

—Ann Manser, AS73

*I stepped out of the rows of cotton  
to master the potter's wheel.*

*I take the wind out of can't.  
with my mark, I make a mark.*

*I sign my name Dave.  
I don't write slave.*

*—From the poem "Praise Dave"  
by Glenis Redmond*



Vincent Thomas and UD student Blair Galiber perform the dance "Pretty Little Girl," choreographed by Thomas, while UD student Rachel Meyner plays a flute solo.

# Security overload may cause employee cyber-stress

**F**rom background checks and airport scanners to alarm systems and network firewalls, our lives are frequently touched by security mechanisms put in place to protect us. But can too much security actually cause us stress?

It's a possibility, says new research by John D'Arcy, an assistant professor in UD's Department of Accounting and Management Information Systems.

In a forthcoming *Journal of Management Information Systems* article, D'Arcy, with coauthors Tejaswini Herath of Brock University in Canada and Mindy K. Shoss of St. Louis University in Missouri, explores "security-related overload" and suggests possible ways to counter its stressful effects.

Here, D'Arcy discusses his research findings and the implications for future information security initiatives.

resources employee divulging salary information to someone outside the organization) is another major security compliance problem.

**In many organizations, there are consequences for ISP violations. Can you explain why, when there are clear policies or procedures in place, employees will engage in such activity?**

We found from the survey we conducted of over 500 employees who use computers on a regular basis that when security requirements are perceived as an overload, complex or uncertain, individuals can rationalize ISP violations. This rationalization process is called moral disengagement.

**What are some examples of moral disengagement?**

There are three general categories that such disengagement can fall into: reconstructing the conduct; obscuring or distorting consequences; and devaluing the target.

Employees may fall into the category of reconstructing the conduct if they

## How can cybersecurity measures cause employees stress?

Employees are often given a variety of cybersecurity requirements in the form of policies, procedures and technical controls, and in particular, stress can result from overload, complexity and uncertainty. The result is that employees may engage in information security policy (ISP) violations. In this way, security requirements can actually backfire.

## What are some of the ways employees engage in ISP violations?

Some examples of ISP violations include:

- Failure to log off when leaving a PC or workstation;
- Writing down a password;
- Sharing a password; or
- Copying confidential or sensitive data to a non-secure USB device.

Data leakage (for example, a human



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employ “palliative comparison,” or considering a harmful act as acceptable by contrasting it with a more reprehensible behavior. Something like password sharing can fall into this category; an employee might argue that this ISP violation isn’t as bad as stealing company information. “Euphemistic labeling” also falls into this category; employees might see certain ISP violations as “no big deal” or an “inevitable reality” in the workplace.

In the distorting consequences category can fall the displacement of responsibility, in which an employee might deny responsibility for a violation due to perceived work overload.

Finally, in devaluing the target, an employee might blame others by attributing the violation to a strict or unreasonable policy.

### So what’s the solution?

It’s important to note that it is the requirements of the policies, and not the security threats themselves, that can lead employees to engage in this behavior. If stressed employees are more likely to engage in these types of rationalizations that lead to noncompliance, then organizations need to rethink how they create information security policies.

Precise and clearly written policies devoid of jargon and technical terms can make security less complex, while periodic security training and education can eliminate uncertainty. Involving employees in the design and implementation of policies can also make efforts feel less intrusive and reduce negative behavior. ■

—Kathryn Meier, AS04, BE06M



## Foods, moods and healthy choices

Emotional eating is something with which we’re all familiar. Maybe you’re a student stressed about a big exam and you’re munching on candy as you study. Or maybe your child’s birthday party is coming up, and you’ve bought an ice cream cake to serve a small army to celebrate.

Recent studies have shown that negative moods and positive moods may actually lead to preferences for different kinds of foods. For example, given the choice between grapes or chocolate candies, someone in a good mood may be more inclined to choose the former while someone in a bad mood may be more likely to choose the latter.

But what if we could make better choices in any emotional state?

A forthcoming article by Meryl Gardner, UD associate professor of business administration, and research colleagues finds that there’s more to stress eating than simply emotion and that, in fact, thinking about the future may help people make better food choices.

“We were interested in the ‘why,’” Gardner says.

The researchers married the theories of affective regulation (how people react to their moods and emotions) and temporal construal (the perspective of time) to explain food choice. They conducted four laboratory experiments.

Gardner and her partners found that individuals in negative moods will still make food choices influenced by temporal construal, which supports the idea that trying to focus on something other than the present can reduce the consumption of indulgent foods.

“If people in a bad mood typically choose to eat foods that have an immediate, indulgent reward, it might be more effective to encourage what we call mood repair motivation, or calling their attention to more innocuous ways to enhance their mood,” she says. “Instead of looking at nutrition and warning labels, try talking to friends or listening to music.”

So the next time you go to grab a snack, think about the future—and you just might make a better food choice. ■

—Kathryn Meier, AS04, BE06M



Researchers (from left)  
Carla Spence, Harsh Bais  
and Nicole Donofrio

EVANKRIFE

## PLANT SCIENTISTS FIGHT A CEREAL KILLER

A fungus that kills an estimated 30 percent of the world's rice crop may finally have met its match, thanks to a research discovery made by scientists at the University of Delaware and the University of California at Davis.

The research team, led by Harsh Bais, associate professor of plant and soil sciences at UD, has identified a naturally occurring microbe that lives right in the soil around rice plants and inhibits the devastating fungus known as rice blast. What's more, the beneficial soil microbe also induces a system-wide defense response in rice plants to battle the fungus.

The research, which involves gene sequencing, is funded by the National Science Foundation's Plant Genome Research Project and has been published in *BMC Plant Biology*. UD authors include Carla Spence, a doctoral student in biological sciences, and Nicole Donofrio, associate professor of plant and soil sciences, as well as Bais and Emily Alff, AG12M.

"We truly are working to disarm a 'cereal killer' and to do so using a natural, organic control," says Bais, in his laboratory at the Delaware Biotechnology Institute. In addition to rice, a distinct population of the rice blast fungus also now threatens wheat production worldwide.

"Rice blast is a relentless killer, a force to be reckoned with, especially as rice is a staple in the daily diet of more than half the world's population; that's over 3 billion people," Bais notes. "As global population continues to grow, biocontrol bacteria may be an important key for farmers to overcome crop losses due to plant disease and to produce more food from the same acre of land." ■



## The power for the bus goes round and round

Electric school buses that also feed the power grid could save school districts millions of dollars, while reducing children's exposure to diesel fumes, based on recent research by the College of Earth, Ocean, and Environment (CEOE).

A new study examines the cost effectiveness of electric school buses that discharge their batteries into the electrical grid when not in use and get paid for the service. The technology, called vehicle-to-grid (V2G), was pioneered at UD and is being tested with electric cars in a pilot project.

Adapting the system for school bus fleets is a logical application, researchers say. School buses generally travel distances within electric vehicles' battery range, and they are not in use for much of the day. Electric school buses also do not release sooty diesel exhaust, which contains pollutants that can cause respiratory irritation, lung cancer and heart disease. Such fumes can be higher inside the cabin of the bus than in the surrounding area.

For the study, researchers analyzed existing diesel school bus routes in a mid-sized suburban school district in Delaware and calculated the costs and benefits of V2G-capable electric bus replacements. Over 14 years, which is the typical lifespan of a bus, a V2G electric bus fleet could save an estimated \$38 million.

"I was surprised," says CEOE doctoral student Lance Noel, lead author of the study that was published in the Aug. 1 issue of *Applied Energy*. "The savings go through the roof." ■

## Bad to the bones: Seeking treatment for osteoporosis

Anja Nohe calls osteoporosis “a significant disease and a silent disease,” afflicting some 10 million Americans and leading to more deaths among women in the U.S. than breast and ovarian cancer combined. The condition weakens the bones and becomes increasingly common, especially in women, with age.

“A person often doesn’t think about osteoporosis until she has a fracture, and a fracture doesn’t even have to come from a fall,” says Nohe, associate professor of biological sciences. “Once you realize that you have it, it’s only somewhat treatable.”

Nohe and her research team are working with a specific peptide—peptides are chains of two or more amino acids—that she developed. In early tests the peptide appears promising for attacking osteoporosis on two fronts, by reducing the loss of bone that occurs with the disease and by simultaneously creating new bone. The National Institutes of Health recently awarded Nohe a five-year, \$1.65 million grant to support her work in conducting further research on the peptide.

Bone is a living tissue that, throughout a person’s life, is continuously being renewed as old tissue is reabsorbed and replaced by new tissue to the extent that, as Nohe says, “Every 10 years or so, you get a new skeleton.” In osteoporosis, bone loss is accelerated, and less of it is replaced.

“You have cells that eat up the bone and cells that build up new bones,” Nohe says, explaining that current osteoporosis treatments target only one or the other of those mechanisms and that they also can have serious side effects. ■



## Spatial skills shape math readiness

A new research project is investigating whether young children who develop spatial-thinking skills have an advantage in learning math as they grow older—much the way mastering the alphabet is a first step in learning to read and write.

Roberta Golinkoff, Unidel H. Rodney Sharp Chair in Human Services, Education and Public Policy, has received a \$1.5 million, four-year grant from the Institute of Education Sciences to explore the effect of developing spatial skills in preschoolers. Working with preschools and Head Start programs in Delaware and Pennsylvania, researchers will ask 3-year-olds to copy flat designs composed of geometric forms and

will then teach them various ways to improve their performance.

Children will be tested over the course of three years, and long-term follow-ups will be conducted to understand what kind of spatial instruction works best for young children and maximizes their school readiness.

“Understanding spatial relationships is crucial for tasks we perform every day in the world, such as packing the trunk of the car to go on vacation or navigating to that special spot,” Golinkoff says. “The link to mathematics, though, is key for children’s success in school. Blocks, puzzles, map reading—all these things feed into your kids’ understanding of space and math.” ■

## SIMPLE FABRIC DEVICE BOOSTS CLEAN WATER

Each year in India, waterborne diseases sicken more than 37 million people, and 1.5 million children die of diarrhea, according to a report by the nonprofit WaterAid.

In the developing world, open pit latrines—as sophisticated as an outhouse or as simple as a trench in the ground—are common, but they pose a significant risk to public health and the environment.

Now, a team at UD has reinvented the common latrine by adding a breathable fabric as a simple way to protect the nearby groundwater and wells from contamination, while also protecting sanitation workers from exposure to pathogens. The work was originally funded through the Bill and Melinda Gates Foundation’s Grand Challenges Explorations Fund.

The researchers, led by environmental engineering Prof. Steve Dentel, are piloting the membrane technology in Kanpur, India, one of the country’s largest industrial cities. They are collaborating with representatives from WaterAid to test the innovative approach, which uses a breathable membrane in a fabric similar to that used in sports and camping gear.

“In first-world countries, we use this type of fabric to keep from getting wet,” says Dentel, a recognized expert on waste processing. “But in the developing world, it could be a key to basic health and sanitation.”

The membrane captures the waste and allows water to evaporate, leaving everything else behind. The waste dries, and clean water is released. ■



The fabric membrane can be used to line drums of waste.



PHOTOS BY MARK CAMPBELL

Bob Hannah greets the team at the new stadium named in his honor.

## Team effort

Hannah's former players go to bat for stadium renovations

He struck out with the bases loaded, stormed up to the nearby water fountain, punched it in the spout and watched as the water sprayed straight in the air.

Coach maintained his composure. "Sit your fanny down," he told the batter. "You do that again, you'll never play another game here."



It was classic Bob Hannah, remembers Jim Sherman, AS82: Cool, calm, collected, making a point without making a scene. “He actually used the word ‘fanny,’” the current head coach says with a chuckle. “You know, to this day, I’ve never heard the man swear.”

One of the most respected and successful coaches in the history of college baseball, Robert M. “Bob” Hannah won more games than any other coach in UD history. During his 36-year career, he led Blue Hen baseball to 1,503 wins, including 12 NCAA regional appearances, 22 conference titles and a trip to the College World Series in 1970.

On a breezy Sunday this April, he threw out the ceremonial first pitch in the new baseball stadium named in his honor.

In the stands were nearly 100 former players, spanning seven decades of Delaware baseball. Together, they raised more than \$1 million to renovate the facility. The entire project—a \$2.5 million, yearlong endeavor that included the addition of new synthetic turf fields, heated dugouts, scoreboard, fencing, batting cages and bullpen—has made Bob Hannah Stadium one of the premier baseball stadiums in the Colonial Athletic Association.

Athletics Director Eric Ziady calls the renovation “another milestone” for the University and UD Athletics, where enhancements in the past year include the opening of the renovated Carpenter Sports Building, the transformation of the Delaware Field House to a first-class indoor practice facility, the resurfacing of the two soccer practice fields and the recent renovation of the Stuart and Suzanne Grant Stadium (see article on page 14).

“The new facility is now on par with the success and reputation of our program,” says Mickey DeMatteis, BE78. The former first baseman remembers practicing indoors on rainy afternoons and devoting hours to raking, dragging and cleaning the field.

Those days are long gone. Current players call the new stadium “stunning,” “beautiful” and “the nicest college field I’ve seen yet.” Former players say the same.

Indeed, the renovation project reconnected scores of alumni from the 1950s to the 2000s. “You got us in a room and we started sharing stories,” says David Yates, BE70, HS76M, who played on the 1970 World Series team and was recently inducted into the Delaware Athletics Hall of Fame. “There’s a mutual respect amongst generations—and the common thread is Coach Hannah.”

Yates and DeMatteis led the fundraising effort to mobilize former players. “We wanted to see the facilities upgraded,” Yates says. “But we also wanted to pay respect to someone who remains the ultimate professional. He cared about his players and he cared about the game.”

In fact, one of DeMatteis’ favorite memories at UD was his first day of practice. Coach Hannah called the starting nine to the top step of the dugout. “Leave your mitts on the bench, sprint to your positions and wait there till I call you back,” he said. With no gloves,

DeMatteis and his teammates sprinted and waited. When they were finally called back to the dugout, they heard this: “That’s the way we play baseball here at Delaware.

Once you step on the field, you hustle and play the game right.”

Years later, when DeMatteis coached Little League and American Legion, knowledgeable fathers would marvel at this Bob Hannah technique. “They’d comment on how well my players respected the game by the hustle they exhibited on the field,” he says.

For his part, Hannah remains as humble as his players would expect. He calls his wife, June, “the engine that made it work,” and former players remember the hand-packed brown bag lunches that sat atop every seat on the away-game bus.

“I was very fortunate to be surrounded by remarkable people,” says Hannah. “I attribute any success I had to the support staff that surrounded me—and the players.”

In a career that spans nearly four decades, Hannah has hundreds of great memories. One of his favorites is of the 1999 baseball team, which started the season 1-11 but won its next eight games on the way to a final record of 35-25, including 19-9 in league play. The team went on to finish second in the league regular season standings, capturing the America East Conference Tournament title and advancing to the NCAA Regionals.

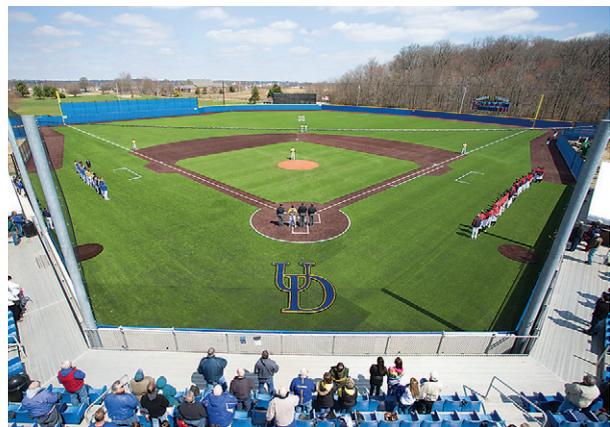
“I love to see kids overcome deficits,” he says. “I love to see them maintain an approach that leads them to success long-term.”

UD’s current head baseball coach can attest to this.

Sherman, who just completed his 14th season at the helm of the Blue Hens, has since refrained from fistfights with water fountains. Still, there are times—like after a bad call from an umpire—that he hears Coach on his shoulder, telling him to calm down, to reason it out.

“There are few people who can change your life,” he says. “But Bob Hannah did that for me—and, I’m guessing, for thousands of others.” ■

—Artika Casini, AS05



## Football home opener features in-state opponent

The Blue Hen football team will play its home opener on Saturday, Sept. 6, with a 6 p.m. kickoff at Delaware Stadium against in-state foe Delaware State University.

The contest follows the Hens' first game of the season, when they are scheduled to take on the University of Pittsburgh at Heinz Field in the first-ever matchup with the Atlantic Coast Conference contender.

In late spring, UD football, led by second-year head coach Dave Brock, was picked No. 23 in the Athlon Sports Pre-season Top 25 poll.

Delaware finished with a record of 7-5 in 2013, losing two games by three points or less and narrowly missing out on the

20-team NCAA Division I Football Championship Subdivision Tournament.

Thirteen starters from last year's squad are returning, including All-CAA selections in wide receiver Michael Johnson, tight end Nick Boyle, linebacker Pat Callaway and All-American punter Eric Enderson. Trent Hurley also returns as quarterback.

Home games at Delaware Stadium take place against Delaware State at 6 p.m., Sept. 6; Colgate at 6 p.m., Sept. 13; Sacred Heart at 3:30 p.m., Oct. 4; Elon at 3:30 p.m., Oct. 11 (Parents and Family Weekend); Towson at 3:30 p.m., Oct. 18 (Homecoming); Rhode Island at noon, Nov. 1; and Villanova at noon, Nov. 22 (Hall of Fame



KEVIN QUINLAN

Student-athletes (from left) Justin Burns, Vince Hollerman and Blaine Woodson escort UD Future Hens Club members onto the field.

Day). The Hens are on the road at: James Madison on Sept. 27; William and Mary on Oct. 25; Albany on Nov. 8; and New Hampshire on Nov. 15. ■

**For the best seats now, call (302) 831-2257 or visit [BlueHens.com](http://BlueHens.com).**

**UD 4F**  
UNIVERSITY OF DELAWARE ATHLETIC FUND  
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Each year, nearly 3,000 Delaware alumni and fans across the nation support Blue Hens coaches and student-athletes by joining the UDAF, the annual fund for UD Athletics. A gift to the UDAF helps provide our teams with the resources needed to compete for championships and allows UD student-athletes to earn their college degree.

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302-831-6276

## Coach Ross wins accolades for successful season

Men's basketball head coach Monté Ross was named the fourth annual Clarence "Big House" Gaines Division I College Basketball Coach of the Year in April as the top minority coach in the nation.

Ross earned the prestigious award from the National Sportscasters

and Sportswriters Association after leading the Blue Hens to 25 victories, the Colonial Athletic Association regular season and tournament titles, and a berth in the NCAA tournament during his eighth season at the helm in 2013-14.

Also named the 2014 CAA Coach of the Year, he guided Delaware to a 25-10 record as the Blue Hens tied for the second most wins in a season in school history.

UD won its first 11 league games, tying for the best start by any team in CAA history, and eventually finished 14-2 in the CAA, tied for the second most conference wins in school history.

The Blue Hens opened the calendar year with 13 consecutive wins, tied for the second longest streak in UD history, and at one point claimed 15 straight regular season CAA victories dating back to last season. Delaware won its



EVAN KRAPE

Monté Ross (standing, left) and team members join Vice President Joe Biden '65 at the White House on May 8.

eighth regular season conference title in school history, before securing its fifth league tournament championship and the first since 1999 with the dramatic 75-74 comeback win over William & Mary in the CAA tournament final.

Delaware then advanced to its fifth NCAA tournament appearance,

battling fourth-seeded and 11th-ranked Michigan State before falling, 93-78, to the Spartans in a second-round game in Spokane, Washington.

Ross has now won 115 games during his Blue Hen career, the second most in Delaware history, behind only Steve Steinwedel, who had 163 victories.

Ross is a 1992 graduate of NCAA Division II Winston-Salem State, where he played for Gaines, a Basketball Hall of Fame member who compiled an 828-447 record during 47 seasons of coaching the Rams from 1946-93.

"It is truly an honor to be recognized for this award," Ross says. "The award holds more significance for me because 'Big House' was such an influential member of my life and provided guidance to me as both a player and a coach." ■

## Top athletes honored at annual awards ceremony

Distance runner Lindsay Prettyman, HS14, and men's basketball guard Devon Saddler, HS14, were named the UD Alumni Association Outstanding Female and Male Athletes of the Year for 2014.

Also at the annual UD Athletics awards banquet in May, two-time football All American Andrew Pierce, HS14, won the Edgar Johnson Award, while Prettyman received the Mary Ann Hitchens Award. Those two awards, the most prestigious given to UD student-athletes,

recognize the qualities of hard work, dedication, leadership, fairness and striving for excellence that were the hallmarks of Johnson's and Hitchens' careers.

In addition, 40 student-athletes were recognized as the newest members of Chi Alpha Sigma, the national college athlete honor society.

Whether she was racing through the woods on the cross country course, running past the competition on the indoor and outdoor oval or putting in long hours toward her

academic endeavors, Prettyman excelled. As a three-sport standout in cross country and indoor and outdoor track and field, she earned 12 letters, served as a team captain, set 10 school records and won 29 meet titles as a Blue Hen.

In men's basketball, UD's rise to the top of the conference began when Saddler arrived on campus. He earned All-CAA honors each of his four seasons, ranking among the nation's leading scorers each of the last three campaigns and becoming Delaware's all-time leading scorer

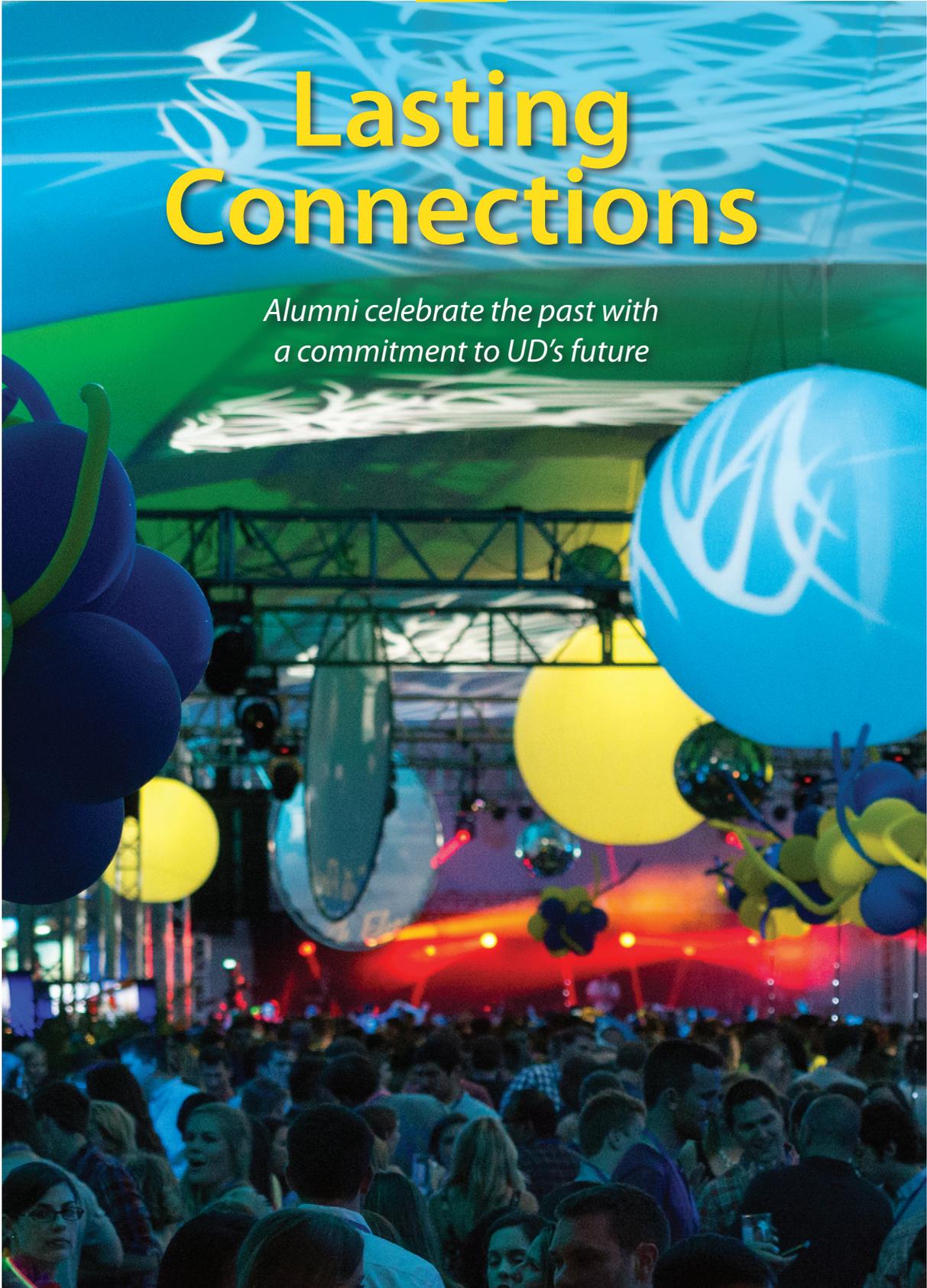
with 2,222 points. A four-year starter and team Most Valuable Player, Saddler played a pivotal role once again in 2013-14.

Pierce enjoyed an exceptional career on the gridiron and also excelled in leadership and in service to the local community. Arriving as a walk-on in 2010, he became one of the finest running backs in school history. A four-year starter who twice served as a team captain, Pierce led the team in rushing four consecutive years and was All-CAA each of those seasons. ■



# Lasting Connections

*Alumni celebrate the past with a commitment to UD's future*



EVAN KRAPE





There were those who hadn't been to campus in decades and those who never left.

There were members of the University of Delaware's newly minted Class of 2014 and "Gold Guard" graduates celebrating their 50-year anniversary—and alumni from every decade in between.

Some made the five-minute walk from their Main Street apartments, while others carpooled or boarded buses—one couple even flew in from Puerto Rico—to come back.

From June 6-8, the University celebrated its sixth annual Alumni Weekend, and as any of the 5,000-plus Blue Hen attendees can attest, Newark was the only place to be.

Tim Dalby, EH99, 11M, and Mary Pinkston, AS91, EH95M, kicked off the weekend at the College of Education and Human Development's alumni reception. Both have received the Presidential Award for Excellence in Math and Science Teaching, the highest honor awarded by the U.S. government to K-12 STEM teachers, and both credit UD with an exceptional education.

"I was prepared as a 'highly qualified teacher' before that was even a term," said Dalby, referring to the federally designated title.

He and Pinkston spent their Friday evening meeting former professors and classmates. "My heart bleeds blue and gold," Pinkston added. "Some of my best memories here are of the people."

Indeed, the weekend was rich in the diversity of UD's people—Blue Hens from different backgrounds, different ages, different experiences but all with one shared bond: time spent at their beloved alma mater.

Alumni Weekend is a tradition for Lance Kaufmann, AS83. From Mug Night on Friday, to the Wall of Fame induction ceremony on Saturday, to the Sunday morning 5K race, the entire weekend serves as an opportunity for him to expand his Blue Hen circle. "Every year, I make new friends and new connections," he said.

Then there are alumni like Avi Amon, AS08, BE08, who comes back to reconnect with classmates and colleagues. "This is my favorite weekend of the year," he said, as he began his festivities at a reception for Honors Program alumni.

"This was my team," said Amon, who attended the University on a DuPont Scholarship and now makes gifts to support the Honors Program. "These were the people rooting for me, and I'm rooting for them, too."

It was a sentiment echoed throughout the weekend—attendees who celebrated the past but remain committed to UD's future.

Bob Parsons, AS64, for instance, is a member of the Delaware Diamonds Society, the University's leadership annual giving society. As a student, he worked for a local laundry, and

today he calls that job his scholarship, allowing him to graduate debt free. "That," he said, "is a debt you pay forward."

As the weekend kicked off, Parsons sat on the side portico of Memorial Hall, waiting to reconnect with a former Kappa Alpha fraternity brother. The last time he had seen Terry Giridon, also AS64, was the night before Giridon flew to Asia to serve in the military. The two reunited for the first time in 50 years at Alumni Weekend.

"It's wonderful to be back," said Giridon, who attended the College of Arts and Sciences reunion and President Patrick Harker's State of the University address. "So much has changed, but the KA house is still there!"

Other alumni with strong ties to Greek life commended the recent cultural shift by UD administrators to strengthen support for fraternities and sororities.

Lyman Chen, BE93, and his wife, Caroline, BE90, were both active in Greek organizations, and Lyman attributes his first job on Wall Street to his strong fraternity ties. Now, he works to partner UD's Lambda Chi Alpha alumni with current students.

It is that palpable gift back to UD—of time and talent and treasure—that helps propel the University forward, Harker said.

"This is a University operating from strength," he told the audience at his State of the University talk. "And with your support, we'll have everything we need, right here, to take UD from great to even greater: the people, the brilliance, the relationships and the will."

He began his presentation by welcoming the six reunion classes to the stage, along with "newly hatched" alumni from this year's class. Together the classes of 2014, 2009, 2004, 1999, 1994, 1989 and the newly inducted Gold Guard members of 1964 donated \$1,082,370 to the University.

"We're good to UD because UD was so good to us," said William Gamgort, BE04, whose class increased total giving from the previous year by more than 51 percent. "Now that we're in positions to give, we want to give back."

Of course, that spirit is not limited to alumni. Jan Seitz calls her nine years as director for Cooperative Extension at UD "the most wonderful time of my life." She had long sought to establish an endowment to support the Extension Scholars Program in her estate plan.

"But then I woke up at 2:30 one morning and thought, 'Why not do it now?'" she said to a colleague at the President's Champagne Brunch (a new Alumni Weekend event to recognize leadership donors and supporters). "It's all about the feeling. And making this gift, supporting UD, being such a strong part of this community—it just feels awesome." ■

—Artika Casini, AS05

For more on Alumni Weekend see next page.



The weekend was rich in the diversity of UD's people. Blue Hens from different backgrounds,



ARRIVAL SURVIVAL • CHECK IN • COLLEGE & SPECIAL RECEPTIONS • MUG NIGHT • R&B LOUNGE • GOLD GUARD



F R I D A Y

S A T U R



As a student in the early 1960s, **J. Robert "Bob" Parsons '64** (at right in photo) worked for a local laundry washing, drying and ironing clothes. "That's when shirts had to be pressed, and boys wore trousers to class," he remembers. Thanks to the job, he says, "I graduated debt free, and that's a debt you pay forward." Today, he's a member of the University's Delaware Diamonds Society. The last time Parsons saw his Kappa Alpha fraternity brother **Terry Girdon '64** was after a UD-Temple basketball game, the night before Girdon—who would spend the next 30 years in the Army—was deployed to Asia. The two friends reunited for the first time in 50 years at Alumni Weekend 2014.

See more about Alumni Weekend on preceding page and at [www.udconnection.com](http://www.udconnection.com)



Blue Hens return to campus on Alumni Weekend for a variety of reasons and types of celebrations and reunions. The UD Honors Program draws a large and loyal following to its annual reception, attended this year by more than 150 former students and their professors and advisers.

**Avi Amon '08** is just one of those proud Honors alumni. As a student, he "switched majors 100 times" before graduating with dual degrees in economics and history. He sang with the Deltones and UD Chorale, was a Blue Hen Ambassador and studied the tango in Madrid with the support of an Alumni Enrichment Award. He calls the faculty and Honors Program advisers his team—and the reason he's made gifts to the program every year since graduation.



**Alan Gilbert '86, Michael Shuller '86, David Wompler '85 and Stephen Esser '85** have stayed in touch since their days as Honors Program students, getting together once a year for UD football. Now, they come to Alumni Weekend on alternate years, when they "live in the dorms, stay up till 5 a.m., and relive the glory days," says Gilbert.



As students, **Keeley Powell '02, '11EdD**, and her husband, **Imani Powell '02, '07M**, used to have breakfast dates at Russell Dining Hall "because Russell had the good pancakes!" This year for Alumni Weekend, they got a babysitter for their 2-year-old son so they could enjoy their alumni reception.

PHOTOS BY: KATHY F. ATKINSON, DOUG BAKER, MARK CAMPBELL, EVAN KRAPE, LANE MCLAUGHLIN, AMBRE ALEXANDER PAYNE & KEVIN QUINLAN

different ages, different experiences, all with one shared bond — time spent at their beloved alma mater.



RECEPTION • PRESIDENT'S CHAMPAGNE BRUNCH • LUNCH WITH YOUDEE • STATE OF THE UNIVERSITY • BLUE HEN 5K



D A Y

S U N D A Y



**Mary Pinkston '91, '95M**, is a nationally recognized math teacher who says, "I came back to UD for grad school because I knew I'd get a good education here." Reminiscing at Alumni Weekend, she says, "My heart bleeds blue and gold."



Friends from **Pi Kappa Phi** stay in a residence hall each year, and their numbers have grown from three years ago, when the group took up a quarter of the rooms on a floor, to this year, when an entire floor was filled. To make sure others found the right location, 15 brothers set up this pyramid in front of the dorm.



**Lyman Chen '93** says he got his first job on Wall Street because of an alumni connection: "I would have never, in a million years, got that job were it not for UD." Now, he works to partner Lambda Chi Alpha alumni with current students in a program that is a model for the national fraternity.



**Kaitlin Hafner '09, '11DPT**, and a large group of family and friends save the first weekend in June every year to reunite. "We all make time for this," she says. "We could meet somewhere else, but coming to UD is special. It's fun to see the campus and visit our favorite spots on Main Street."



**Tony Allen '93, '01PhD**, a member of the UD Board of Trustees, calls Alumni Weekend "just another reason I love the University." Blue Hens work and play hard, especially the first weekend of June, he says, "And for a lot of us, it's a family affair."

## Startup holds promise of sweet success

In 2008, Asmita Atre became the first international student to earn a graduate degree entirely online from UD's College of Engineering, when she completed her master's degree in mechanical engineering from her home in Pune, India.

Today, Atre is a budding entrepreneur working to turn the common Indian cottage industry of jaggery making into a factory franchise, while also helping neighboring farmers improve their standard of living.

Jaggery is a traditional Indian sweetener manufactured by crushing sugarcane and boiling the juice. It is used daily in India, the world's second-largest sugarcane grower, to flavor savory cuisines such as curry as well as in desserts and candies.

"Jaggery making is conventionally a handcraft, where sugarcane juice is boiled in an inefficient open pan process," says Atre, a process engineer with degrees in chemical technology, mechanical engineering and engineering technology management. She says India is home to about 40,000 independent jaggery-making units.

As an engineer for her family's energy efficiency and



KATHY F. ATKINSON

resource conservation company, Atre is always looking for opportunities to conserve energy and better society. She conceived the idea for improving the jaggery manufacturing process with the help of her brother Anand, a food science expert; Anand Teke, a childhood friend who specializes in sustainable energy technology; and Sham Bhor, an expert in energy project management and sugarcane farming.

"Our business model can revolutionize jaggery making into a factory business that will result in higher-quality jaggery with a longer shelf life, bottled drinking water and renewable fuel biomass, which will provide a better bargaining power [for suppliers] in this commodity market and also improve operating margins," Atre says.

Atre's proposed manufacturing process is based on patented technology and has already been recognized with innovation awards from the Indian government's National Resource Defense Council and the World Intellectual Property Organization.

The business model calls for partnering with farmers who produce sugarcane that cannot be processed by their local sugar mill and who have no reliable method to extract the sweetener. With the new process, these local farmers will

## Hens hatch a flock of new businesses



PHOTO BY AMBRE ALEXANDER PAYNE

Students Chris Melillo (left) and Krista Adams design customized snowboards.

From an academic tutoring service to custom-designed snowboards, students, faculty, staff and alumni pitched their entrepreneurial ideas to a panel of expert judges at Hen Hatch 2014, UD's premier business startup funding competition.

Although the annual competition is hosted by the Lerner College of Business and Economics' Horn Program in Entrepreneurship,

participants represented a diverse mix of backgrounds, including entrepreneurship and technology innovation, finance, economics, visual communication and engineering.

After preliminary rounds to prove their entrepreneurial ideas worthy of recognition and funding, three teams in two tracks emerged as the winners of the final competition, held in late April.



Workers in Pune, India, make jaggery in the traditional open-pan method.

grow the sugarcane on their individual farms, harvest it and sell it to the factory. The farmers will also have the opportunity, if they choose, to work in the factory processing the sugarcane, earning additional income while also creating production and labor efficiencies.

“This way, the farmers themselves can take pride in the factory, help run the plant and earn salaries to improve their standard of living,” Atre says.

Her design employs a closed loop system that allows higher-quality jaggery to be produced, while recapturing the water from sugarcane that can be sold as premium drinking water, she says.

Another benefit, she says, is that the process requires up to 36 percent less of the sugarcane biomass to be burned than in traditional processing, allowing the excess to be dried and sold as fuel.

“Instead of one product extracted from the sugarcane, we have created three—jaggery, drinking water and biomass fuel,” says Atre, who credits the process engineering skills she learned while a UD student with helping her to engineer and model the proposed process. “If all the current jaggery plants are replaced with our technology, it has potential to recapture enough drinking water to fulfill the annual drinking water needs of about 47 million people.”

Atre and her partners, whose startup company is called TFT, plan to source their sugarcane from farmers within a 50-kilometer radius of the factory. Because the biomass fuel is derived from the sugarcane itself, the system is sustainable, they say, and includes a gas removal method to protect the local community by rendering any residual exhaust gases free of pollution.

Getting started, however, requires a significant financial investment to build a plant and purchase machinery. About 20 farmers near Pune—which is home to more than 7 million people—have raised some money for the factory, but additional funds are needed to transform the idea into a reality, Atre says. Once the first plant is up and running, she envisions expanding the business model into a franchise with factories in other areas of India where jaggery production exists.

“We don’t need to own the factories,” she says. “We can license the technology to the local people, and sell the plant and machinery so that there can be many more factories set up by farmers in other regions of India.”

Atre returned to the UD campus in May as a finalist in the Horn Program in Entrepreneurship’s 2014 Hen Hatch, the University’s premier business startup funding competition (see sidebar). She and her brother were awarded a \$2,000 second-place prize in the competition’s alumni track to help get the business off the ground.

“Winning Hen Hatch is a substantial step toward winning investor confidence in our business concept,” Atre says. ■

—Karen B. Roberts, AS90

Awards in the student track included \$5,100 to ShopTutors, an online tutor booking platform, led by Nathaniel Matherson, Matt Lenhard and Nathaniel Taylor; \$4,900 to Udwell, a comprehensive website for off-campus housing, led by Yael Bloom and Tali Cohen; and \$3,500 to Board to Death, a company that builds and designs customized snowboards, led by Chris Melillo and Krista Adams.

Awards in the alumni, faculty and staff track included \$8,500 to PenguinAds, an out-of-home advertising medium that uses the everyday commuter, led by Mac Nagaswami, BE13; \$2,000 to Jaggery, an improved process for manufacturing the traditional Indian sweetener of the same name, led by Asmita and Anand Atre (see above article); and \$1,800 to Grasshopper Solutions, an

eHarmony.com for your career, led by Liz Brenner, BE98, Nicole McCabe and Deb Stambaugh.

Udwell also received special recognition and an additional \$1,000 in prize money for being the audience’s choice.

Judges for Hen Hatch were Neil Book, AS99, president and CEO, Jet Support Services; Brian Harvell, EG96, vice president, product engineering, SevOne; Jennie Horn, founder and

chief creative officer, Second Base; John Petterson, AS82, senior vice president, operations, Tiffany & Co.; Mike Phelan, venture partner, Osage Venture Partners; and Mark Parsells, executive chairman and CEO, GDR Acquisitions Co.

The event also featured a keynote address by Phelan, as well as an entrepreneurial exhibition showcasing several student and alumni startups. ■

## Wise investments

Donna Fontana, BE85

*Financial leader gives time and money to support education*

It's a common scenario across the country: An auditorium of anxious families, a lottery machine and the small handful of balls that have the power to determine the future of every child in the room.

Those lucky few who hear their lottery number called out will gain admission to their city's best charter schools. The rest will return home, dreams deferred.

It is this scene—captured so viscerally in *Waiting for Superman*, the 2010 documentary on the shortcomings of the American public school system—that haunts Donna Fontana, BE85.

"The capriciousness of it was both eye-opening and devastating," she says. "And it got me thinking: What could I do to help?"

Fontana is a leader in the financial industry. With over 25 years of experience, she has worked at UBS/PaineWebber and Merrill Lynch and currently serves as senior vice president of sales at National Financial, a Fidelity Investments Company.

But education has long remained one of her greatest passions.

For the past 15 years, she has sponsored promising inner-city students by covering their tuition at a parochial school and mentoring them through graduation. She is also a volunteer for Citizen Schools, an extended-learning-day program, where she teaches financial literacy to middle school students in East Harlem.

"Teaching is a profoundly difficult and extraordinarily important career,"

Fontana says. "And although it is not practical for me to go back to school and become a teacher, I wanted to do more to impact education."

Looking to her alma mater, Fontana saw a chance to make a difference. In 2011, she made a \$100,000 gift to the University of Delaware to establish the Fontana Family Education Scholarship to support undergraduate teacher education majors. In 2013, she pledged \$500,000 to create the Fontana Family Graduate Tuition Scholarship in Education.

When discussing her passion, she speaks like the businesswoman she is, referring to students' futures as "their trajectories" and extolling the long hours teachers spend with their "clients."

She uses similar language when talking about her gift to UD.

"I wasn't exposed to UD's teacher education programs when I was a student," Fontana says. "But preparing students to be excellent teachers is a product I wanted to invest in."

And she has—not simply with her financial gift, but also with her time. Fontana is a member of President's Leadership Council, working with President Patrick Harker to increase public engagement and philanthropic support for the University.

In the past year, she has also hosted a dinner in her Manhattan home for recent UD undergraduates working in New York City schools, meeting alumni and seeing firsthand the quality of a University of Delaware education.

"If we want talent to educate our future, we need to get the best and brightest," she says. "And these kids are."

The Fontana Family Graduate Tuition Scholarship also aims to attract promising students to the School of Education, supporting those whose research aims to improve educational practices in the United States.

"I'm not a teacher; I didn't choose that path," Fontana says. "But if I can't



PHOTO BY KATHY F. ATKINSON

Donna Fontana

do it directly, at least I can take the fruits of my current labor and help those who will." ■

—Artika Casini, AS05

## Travel agent

Shannon O'Neill, BE93

*TV executive shows viewers the world*

When anyone hears about Shannon O'Neill's new job, the first thing they say, of course, is "Congratulations."

Then they always ask him the same question, and O'Neill, BE93, gives them the same answer: No, the president of Travel Channel doesn't spend his days lounging on a Bora Bora beach, exploring Tuscan wineries, eating live octopus from a Seoul street vendor or having any of the other adventures featured on the network.

“You get inspired by working here because you see all these great shows,” he says. “But if you want to travel, you have to do it on your own time.”

Still, O’Neill says he’s thrilled to lead a network that reaches more than 96 million U.S. television households. It is owned by Scripps Networks Interactive, which also runs HGTV, Food Network and others. O’Neill, his wife and their 11-year-old daughter live in Bethesda, Md., near Travel Channel headquarters.

He landed the top spot in February after serving three years as the network’s senior vice president and chief financial officer. Before that, he worked at Golf Channel, where he helped grow digital revenues tenfold.

It’s a great career, O’Neill says, even though it isn’t the one he envisioned when he started in UD’s Honors Program as an engineering major in 1989.

He later switched to accounting and went to work at Ernst & Young after graduating in 1993. He stayed with the firm for six years, returning to UD several times to recruit fellow Blue Hens into the company.

In 1999, he and a high school friend launched a dot-com that compiled and delivered news and information to Wall Street customers. It folded after three years, and O’Neill found an auditing job at Comcast. He soon moved to the programming side of the business, where he helped launch the Sprout, TV One and FEARnet channels.

At Travel Channel, he has big plans.

One new show now in development follows a family moving from Vancouver, Canada, to a tiny, remote village in the Himalayas. In another show, called *Breaking Borders*, a chef and a former journalist travel to places of conflict—the pilot was shot in Israel and the Palestinian territories—to bring people on each side of the dispute together for a dinner made from ingredients common to both cultures.

The conversation “can get a little heated, but at the end of the night,

they realize they care about the same things,” O’Neill says.

Virtually all Travel Channel shows are done by third-party production companies, which is why O’Neill

doesn’t get to participate in the excursions. But, like the viewers, he can see nearly every place on the planet with the help of a knowledgeable and interesting guide.

“The most important thing is that human connection the host has with the people,” O’Neill says. “Even though much of the world focuses on our differences, we have much more in common. And our best shows display that.” ■

—Mike Chalmers

## Fashioning a retail strategy

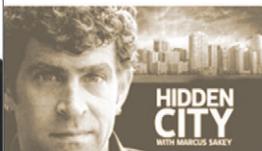
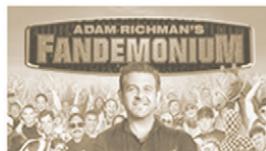
Johanna Murphy, AS92

*Marketing in the digital age brings challenges, opportunities*

Johanna Murphy, AS92, grew up wanting to be a scientist. Today, you won’t find her in a room of chemists dressed in white lab coats and goggles. Instead, she works with some of the fashion industry’s most prolific—and presumably well-dressed—names as chief marketing officer for Ivanka Trump’s apparel and accessories line.

The marketing aficionado has leveraged a combination of creativity and business savvy to propel her career, leaving her mark on companies such as GSI Commerce (now eBay) and Kate Spade. In her newest role, Murphy has been tasked with bringing Ivanka Trump’s wholesale business directly to consumers.

Murphy and her team are in the process of launching Trump’s namesake line globally. With a brand defined, a business plan in place and a retail strategy, the goal is for customers to be able to purchase Trump’s designs with ease.



IMAGES: TRAVEL CHANNEL.COM

Shannon O’Neill and travel channel shows.



PHOTO COURTESY OF JOHANNA MURPHY

Johanna Murphy

If Murphy's track record is any indication, consumers are in for a few surprises.

When she ventured off to the University of Delaware, she was sure that chemistry was her calling. "I always excelled at math and science," she says.

But when she found herself struggling through the chemistry curriculum, one of her professors realized she possessed a secret weapon: She could write. Soon after, she switched to a political science major while simultaneously jumping into UD's journalism program.

After graduation and a few years of working for KYW-TV in Philadelphia, Murphy had another change of heart and began her foray into the marketing world.

"I really wanted to get into the business world," she says. "I realized that marketing allowed me to use both the right and left sides of my brain."

Her time spent at various technology and marketing companies on the East Coast during the dot-com boom equipped Murphy with a wealth of connections and intimate knowledge of marketing in the digital age. It was during her tenure at GSI

Commerce (acquired by eBay in 2011) that she met fashion. She eventually became vice president of e-commerce, working with major fashion clients including Calvin Klein, Burberry, Aéropostale and her future employer, Kate Spade & Company.

As vice president of e-commerce at Kate Spade, Murphy led a team that pioneered the popular brand's renowned online engagement with an overhaul of the websites, social media strategy and email and mobile communications. Digital business nearly doubled.

"I was also on the team that launched the Kate Spade Saturday shopping windows," says Murphy, describing the groundbreaking 24-hour touch screen window-shops in Manhattan, where shoppers virtually order products on the street at the swipe of a finger. "The project got a lot of press, and that's how Ivanka found me."

Murphy's work illustrates an understanding that technology has significantly changed the retail experience.

"We're going to lead with digital, and then we'll have stores where it

makes sense [to locate]," she says of Trump's line. It's a web-based approach designed to suit the lifestyle of the brand's target consumers.

"The brand is very much based around Ivanka," Murphy says. "She has a very big, very important job leading major deals at the Trump Organization. She also has a family and is a very dedicated wife and mother and is very active in the community."

It was during a dinner at Trump's apartment—the leadership team often convenes there for some off-site brainstorming—that Murphy gained some insight into the woman who "seems like she has it all."

Murphy came to a realization about Trump—"She actually works at all those aspects of her life"—and from this realization came the brand inspiration: Women who are working at life.

As marketing continues to evolve with technology, Murphy urges young Blue Hens pursuing marketing careers to grasp the integrated nature of the field.

"I would argue that there's no separation between digital content and marketing; it's all interconnected now," she says. "One of the strongest words of advice I can give is to fundamentally understand business. CMOs of the future will really understand the operation aspects of business and understand the customer."

Throughout her career, Murphy says, she has always taken the time to stop and savor the moments. "You have to take a step back and think of how lucky you are," she says, naming such experiences as getting to know Ivanka Trump on both a personal and professional level, working on a team with smart and talented women and appearing on Donald Trump's show, *The Apprentice*.

And, she says, "Going to the *Game of Thrones* premiere was really cool, too." ■

—Kelley Bregenzer, AS12

## Tapping the ocean

Nick Vrolijk, EO88M,  
92PhD

### *New tools to combat cancer*

Surgery. Chemotherapy. Radiation. These common weapons in the fight against cancer often result in remarkable outcomes—and serious side effects. While targeted therapies are making gains with a more focused approach, another new realm is also showing promise: immunotherapy.

The idea is to leverage the body's own immune system to counteract cancer's progression. Specific proteins stimulate the disease-fighting response, limiting broad-ranging impacts on healthy parts of the body.

"Immunotherapy is a very, very exciting area of pharmaceutical research and development right now," says Nick Vrolijk, EO88M, 92PhD, who serves as vice president of commercial manufacturing at Celldex Therapeutics in Hampton, New Jersey. "This is basically an approach that in theory should be very effective and should have significantly fewer toxic side effects."

Vrolijk, who earned his graduate degrees in marine biosciences from the College of Earth, Ocean, and Environment (CEOE), oversees the production of new medicines at Celldex. His research at UD focused on how fish enzymes metabolize chemicals—seemingly an ocean away from working on cancer drugs—but his interdisciplinary background combining chemistry and biology proved useful in transitioning to the pharmaceutical industry.

In fact, a key component of the cancer vaccine Rindopepimut, which Celldex hopes will gain FDA approval in a few years, comes from the ocean.

Keyhole limpet hemocyanin (KLH), a protein derived from a marine snail, prompts an immune response to combat brain tumors.

"The drug is able to recruit an immune response to those cancer cells directly by means of conjugating a peptide to KLH that targets a mutant receptor protein on the tumor," Vrolijk says.

Tapping the sea for new medicines was part of what initially interested Vrolijk in studying marine biology. During an undergraduate semester at a marine lab in the U.S. Virgin Islands, he met CEOE Dean Nancy Targett, who was a professor at the time, and was intrigued by her work on understanding the chemistry behind marine organisms' ecological cues. Turns out, enzyme systems present in fish are analogous to drug metabolism in humans.

Vrolijk was able to apply chemistry lab techniques he acquired as a graduate student to medical research settings, learning technical operations and regulatory requirements related to drug development along the way. At previous positions, he worked on pharmaceuticals for growth disorders and facilitated the successful development and commercial launch of a non-Hodgkin lymphoma drug.

As he shepherds Celldex's first immunotherapy drug through the manufacturing and approval process, Vrolijk is hopeful about this next generation of cancer therapies. Immunotherapy may not replace chemotherapy, radiation and targeted therapies, he says, but it adds significantly to the arsenal of options.

Celldex has both targeted therapies, which work by zeroing in on a particular cell type or tissue, and immunotherapy products in the pipeline. One targeted therapy shows promise in treating triple negative breast cancer, which 10 to 15 percent of patients have, but for which there is currently no approved therapy. The antibody works by targeting a



PHOTO BY DOUG BAKER

particular cell type that is also present in many other types of cancer, like melanoma and lung cancer.

"So we're looking at a range of different indications that have great potential," Vrolijk says.

### Connections to alma mater remain strong

Transitioning from his marine biology beginnings to a successful career in pharmaceutical manufacturing, Vrolijk says he values the scientific foundation of his graduate education and has remained connected to the College of Earth, Ocean, and Environment in many ways.

His involvement has included serving on the Dean's Advisory Council; generously supporting the creation of a museum-quality exhibit on marine science and CEOE research for tours of the Hugh R. Sharp Campus in Lewes; and contributing to the acquisition of a new research vessel, the *R/V Joanne Daiber*, for use by faculty and students.

"Nick was an outstanding student who ... developed analytical skills that could be transferred to emerging fields," Targett says. "He most deservedly received UD's Presidential Citation for Outstanding Achievement in 2010, and we are proud and pleased that he gives back to the college in so many ways." ■

—Teresa Messmore



# SCIENCE **AT WAR WITH** RELIGION? (not so much)

Lawrence M. Principe, AS83, earned bachelor's degrees in liberal studies and in chemistry at UD and went on to earn two doctorates—in organic chemistry from Indiana University and then at Johns Hopkins, in the history of science. He now is the Drew Professor of the Humanities at Johns Hopkins, where he also directs the Charles S. Singleton Center for the Study of Premodern Europe. In 2004, he was the first recipient of the Francis Bacon Medal for his significant contributions to the history of science.

In May, Principe received an Outstanding Alumni Award from UD's College of Arts and Sciences, but he had also been back to campus in April. At that time, he delivered a public lecture, "The Stubborn Myth of the Warfare of Science and Religion."

Here are several excerpts from his prepared remarks.

My topic for this evening, the conflict between science and religion, is a topic that seems familiar enough. But such familiarity frequently turns out to be deceptive. What I mean is that while virtually everyone has heard about a conflict between science and religion—and can perhaps rattle off a few illustrative examples (Galileo usually being at the top of the list)—there is usually far less appreciation of the origins of the notion or of the validity of the historical claims upon which it is based.

Thus, it still too frequently comes as a surprise that no serious historians of science accept the notion of a longstanding or inherent conflict or warfare between science and religion. In contrast to the frankly silly rantings the popular press loves to report between the two flavors of fundamentalist (the religious and the scientific), the historical interaction between “science” and “religion” has been complex and varied, and often cooperative. Despite unanimous rejection of the conflict model by the very people—historians of science—best qualified to judge it, the model remains strong today.

So let’s explore now both the origins of the conflict model and the causes for its continued survival despite overwhelming evidence against it.

The idea of a more-or-less constant state of warfare between science and religion—and the often accompanying claim that science has a special, or indeed an exclusive, access to truth—arise from the same set of historical sources, some intellectual, some political and some very personal. Some of the intellectual roots lie with the legacy of Comtean positivism, a formulation deriving from the ideas of the early 19th-century philosopher August Comte ... [which] implied that theistic religion belonged to a “primitive” state and science to a “mature” state of humanity.

Comte’s Law of Three Stages was soon both popularized and interwoven with the notion of perpetual struggle between science and religion in John William Draper’s 1874 *History of the Conflict Between Religion and Science*. ... Draper’s “Universal Law of Development” guides the book, but here it is combined with a specifically anti-Catholic rant that often reaches the level of the hysterical:

“Roman Catholicism and Science are recognized by their

respective adherents as being absolutely incompatible; they cannot exist together. ... Mankind must make its choice—it cannot have both.” This statement would imply that a Roman Catholic scientist could not exist, contrary to the evidence of one’s senses, both in 1874 and today.

Draper’s hatred of Catholics is part and parcel of widespread late 19th-century American anti-Catholicism and xenophobia, particularly against newly arriving Catholic immigrants. ...

Draper’s *Conflict* was soon joined by an early version of the second major book to promote the idea of perpetual warfare between science and religion, Andrew Dixon White’s 1876 *Warfare of Science*. White, the founding president of Cornell University, had begun speaking publicly about the “battles” between science and religion in 1869, and his efforts culminated in a massive two-volume *History of the Warfare of Science with Theology*, published in 1896.

White’s work proved less popular than Draper’s, does not show Draper’s rabid anti-Catholicism and was more extensively footnoted, which gave it the patina of scholarly authority. White’s tone is somewhat more placid (although frequently melodramatic), arguing that religion is good in itself, but should stay out of the way of science, for their interaction damages both.

You might well wonder what impact books—in fact, bad books—over a century old could have today. The answer is astonishing: These may be among the most influential books of the past 150 years. Although few people today have actually read either of them, or perhaps even heard of them or their authors, nevertheless the erroneous historical notions they invented or popularized have become naturalized as facts in contemporary culture.

Let me ask you a question. How many of you were taught as schoolchildren (as was I) that before Columbus everyone thought the Earth was flat? It’s a lie. But this lie was popularized by Draper’s and White’s books.

This canard was originally concocted by the fiction writer Washington Irving in his romanticized *Life of Columbus*, but was presented as historical fact by Draper and further embellished by White. Likewise, the assertion that the Catholic Church forbade and/or punished human dissection

was another false claim that both Draper and White popularized, along with countless other falsehoods about the history of science and the history of religion.

Citing the factual errors of these two authors would take all night, so I will pass then to their fundamental methodological error—namely, the assumption of the existence of two distinct groups, religionists and scientists, that simply did not exist as such before the late 19th century. Virtually every contributor to scientific knowledge in Europe before the 19th century was also a believing Christian, many very deeply religious, and many of them clergy.

Historical examples of the inseparability of the supposed camps of scientists and religionists are easy to enumerate to the point of exhaustion:

Robert Boyle, the champion of chemistry and discoverer of the fundamental gas law that bears his name, was called in his eulogy a “lay bishop,” and his books divide fairly evenly between scientific and theological topics. Isaac Newton (1642-1727) devoted at least as much time to theology and Biblical studies as he did to mathematics or physics.

And it is trivially easy to cite a long list of scientific work and achievements from the Middle Ages to the present carried out by ordained priests: St. Albert the Great’s work on mineralogy and embryology, Pierre Gassendi’s revival of atomism, the Jesuit Athanasius Kircher’s descent into the crater of an erupting Vesuvius to make observations, Giovanni Battista Riccioli’s experiments to measure the constant of gravitational acceleration, Niels Steno’s observations of fossils and strata that set the foundations of modern geology, John Ray’s botanical classification system, and, in the 20th century, Georges LeMaitre, the Belgian Catholic priest who held degrees in the sciences from Cambridge, Harvard and MIT and who first proposed Big Bang cosmology.

The topics of magnetism, optics and seismology were, at various times, virtually Jesuit monopolies, and for part of the 18th century, over half of European university chairs in mathematics were occupied by Jesuits.

To say a few words about perhaps the most famous case regarding science and religion, the supporters and detractors of Galileo were evenly distributed among ecclesiastics and laymen, and both criticism and support of his system of the Earth’s motions came from both theological and scientific knowledge. While some churchmen and secular professors criticized him, others praised him; for example, the Jesuits at



Lawrence Principe on campus in April

LANE MCCLUGHLIN

Rome gave him a celebratory feast to mark his telescopic discoveries, and Galileo liked to quote Cardinal Cesare Baronio who quipped, “The intention of the Holy Spirit is to tell us how to go to heaven, not how the heavens go.”

The point is that Draper and White were illegitimately transporting the emerging social stratifications of their own era backwards into earlier times. By constructing the notion that two rival camps—scientists and religionists—had existed throughout history, they set up an inherent and essential rivalry between science and religion that simply did not exist as such.

How does one wean people off of the conflict model? That’s going to be difficult so long as it serves a useful function—for scientists insecure about their social and political position, for fundamentalists insecure about their political clout and the size of their congregations and, most of all recently, for atheists insecure about their choice of religion. But certainly getting the history right is the first step.

In conclusion, not only was the warfare model built—and is perpetuated upon—fabricated history and personal-professional insecurities, but it also serves to obscure the richness of the history of the real interactions of science and religion. ■

—Lawrence Principe (excerpted from a talk at UD)



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# Bon voyages!

## Special trips for Blue Hens

The inaugural spring break 2014 trip to Paris sponsored by UD's Institute for Global Studies brought together alumni, faculty, staff and friends for what participants described as an unforgettable adventure.

And the adventures will continue with more trips in the future.

Due to an overwhelming response in applications for the initial offering, two different trips took place in March, accommodating more than 80 participants, ages 22 to 92.

The excursion commemorated a historic UD trip to Paris in 1923, which transformed international education as the first U.S. study-abroad program. Much like the eight students in that group, who sailed to France to spend their junior year abroad, this year's travelers immersed themselves in French history, culture, language and transportation.

"It was a blast," says Amy Johnson, deputy director of the Institute for Global Studies, who coordinated and led both trips.

Some participants, such as Allen and Karen Bloener, were used to sending their children abroad and decided it was their turn. Others, such as Dorothy Munroe—whose husband, the late John A. Munroe, was a noted authority on Delaware history and a highly regarded educator who spent over 60 years on the UD faculty—participated in the fun with family members.

Jim Flynn, assistant professor in the School of Public Policy and Administration, wrote to Johnson, "[We] thoroughly enjoyed our Paris adventure and are looking forward to other experiences with you and our new friends in the future."



Participants in the 2014 trip to Paris visit the iconic Moulin Rouge.

Johnson, who has traveled to Paris seven times, largely for study abroad programs, says she found interesting similarities. "The purpose for this trip was to share the global view we have at the institute and inspire people," she says.

From the Catacombs beneath the city to the Metro system to the somber beaches at Normandy, participants say that Johnson's extensive knowledge of Paris gave them a much broader understanding of the city. While they engaged in "touristy" sightseeing and shopping, they also were able to visit spots frequented by the locals.

The culminating event of the trip was a farewell dinner at the Eiffel Tower, overlooking the City of Light.

Travelers gave the programs rave reviews and described Johnson as an "enthusiastic, fun, caring and fantastic leader."

One of the participants particularly appreciated the opportunity to engage with other alumni, who made up more than 60 percent of the group: "Thank you for organizing this program for UD folks! In addition to the fun time, it also gave us a chance to meet some other Delawareans, with UD in common, that will likely remain longtime friends." ■

—Elizabeth Adams, AS13

## Alumni travel programs to expand

With the success of this year's spring break trips, more such excursions are being planned, including three trips to Europe during spring 2015. Groups will travel to Rome and Pompeii, Italy; Florence, Italy; and Paris, all in late March. Registration deadline is Oct. 1.

All programs leave from Philadelphia International Airport and include hotel accommodations with full breakfast and Internet access, an exclusive opening

dinner, site-specific excursions, free time to explore on one's own and a celebratory closing dinner with the group.

As the *Messenger* went to press, the spring 2015 programs were filling quickly, but a summer trip to Peru was being planned, and additional programs will be offered in spring 2016.

For more information about itineraries, prices, registration and upcoming trips, visit [www.udel.edu/global](http://www.udel.edu/global).



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POLLY WEIR, DIRECTOR

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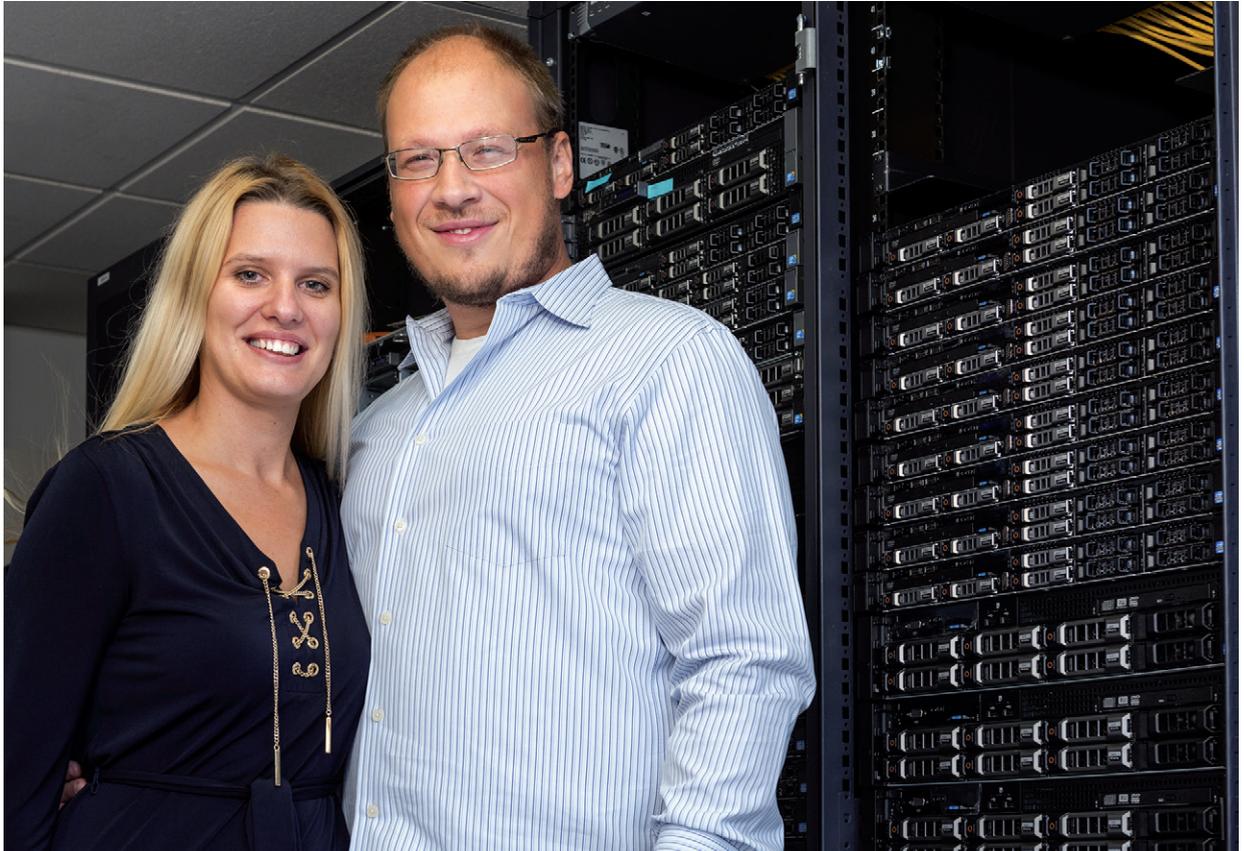


PHOTO BY EVAN KRAPE

## Couple builds a thriving IT enterprise

Vess Bakalov, EG99, and Tanya Bakalov, BE04, both originally from Bulgaria, met at a campus party as UD students, “and the rest is history,” Tanya says with a laugh.

The couple went on to found SevOne, an IT performance management company that has, since its beginnings in 2005, garnered accolades from such sources as Deloitte and *Inc.* magazine. It’s been named one of the nation’s fastest-growing private companies, a model of innovation and agile business solutions and a “Top 10 company to watch.”

In 2013, SevOne raised \$150 million in funding led by Bain Capital Investors, and earlier this year, the company acquired the data analytics firm RapidEngines. With 65 percent year-over-year revenue growth for the past three years, SevOne now has more than 300 employees—many of them UD alumni—and offices in Philadelphia and Boston, as well as in northern Delaware.

The Bakalovs sat down recently to talk with the *UD Messenger* about their lives and careers, how they’ve built and continue to build their business and why they will always maintain a strong connection with the University of Delaware.

**Q: Going back to the beginning, what gave you the idea for starting a business of your own?**

**Vess Bakalov:** After graduating from UD, I was working at a big financial institution. After a while, one thing led to another and I was put in charge of some of the IT management. The problems became immediately obvious to me that the systems—our performance management systems—just did not scale well. They were too slow for a big organization. When there were problems with our data, we weren't getting those reports fast enough. I was working with another UD computer science graduate, Jim Young [EG00, who continues to work with Bakalov at SevOne], and we came up with the idea for the architecture for a new system that could scale up well. We knew this could be big, that it would make our product special.

**Q: Was it hard to take that next step and become an entrepreneur in spite of the financial risks?**

**VB:** Once we decided that's what we were going to do, we moved ahead. Tanya and I got married on July 2, 2005, and as soon as we got back from our honeymoon, I gave my two weeks' notice and left my job. So that's how we started our life together. Then, six months later, I convinced her to quit her job.

**Q: So, Tanya, was your decision to leave your job an even bigger leap of faith?**

**Tanya Bakalov:** My dream was to work in one of the "Big Four" accounting firms, and my dream did come true. Right after I graduated, I started working for Deloitte in one of their fastest-growing units. I had a lot of Fortune 500 clients, I traveled a lot, and I quite enjoyed it. But then Vess's idea became a prototype, and he convinced me to be the first salesperson. So I joined him in December of that first year.

**VB:** Yes, here I was, trying to convince an accountant to quit the only paying job in the household. It was a pretty tough sale. I would say this was the best sale of my life; there was no way we were going to get this off the ground without her joining us.

**Q: What was the business like in the early days?**

**TB:** Vess had opened a tiny office, in a garage-like building, on Main Street in Newark. We used to say, "We're located behind the comic book store," and

people would laugh, but that's really where we were. He hired two UD juniors to start, who are still with us today—one is our director of architecture and the other is our director of product management—and we built the company around them. Neither of us knew anything about sales, we didn't come from a sales background, so it was a steep learning curve to figure out how to build a product, sell it, service the product that we built and build a company at the same time. It was an interesting challenge and an interesting couple of years in the beginning.

**VB:** Our product is extremely appealing for large organizations, but it takes some time to sell to them. It was only in our second year of existence that we were able to win our first large account, which was Comcast. For a young company like us, that was a coup.

It's a very long sales process, six to nine months for most of our customers. We understand that, because this is a very massive decision for a company. For the people making these kinds of decisions, they are very much giving us a vote of confidence with their own careers. If they make a mistake with such an important piece of the infrastructure—if they buy the wrong product from the wrong company—it could cost them their job. So we take our customer satisfaction to the next level because we understand this is a partnership. Many of our competitors are companies that are in the Fortune 100 and for a customer to take a chance, especially in the beginning, and go with a lesser-known name like SevOne, that's something we took very seriously.

**Q: In addition to your emphasis on customer service, what about your product do you think has been key to your success?**

**VB:** We provide continuous, real-time visibility about how every piece of the customer's infrastructure is working—from the servers to the network links to the security firewall, the storage, etc., all across the delivery chain of application. We assure the performance of every single component along the path.

**TB:** Imagine you want to buy a smartphone, so you go to a Verizon store, and within minutes, you want to be able to make and receive calls on your new phone. We want to enable the store to see that all the systems they need are working: Were you able to get

the phone and keep your number? Was the number able to authenticate with the cell towers? Did the store's billing interface with the financial institution to charge your credit card? Is the store network connection good enough that they're able to process your order? Any single piece of the operation that touches anything electronic, we can monitor.

**VB:** All along the path, wherever anything gets slow, people get unhappy very quickly. Our job is to give all the IT people at the company a very timely view of everything that is happening. But we also allow them to predict in advance how things will be happening, including potential problems. That's what we offer them: A way to head off problems and to make good decisions about how to spend their IT budgets. Every minute, we will be collecting data from 200 million different performance indicators. It's all being tracked, so it can be analyzed at any point. And then we store it for up to a year so it can continue to be analyzed.

**Q:** **You've expanded very rapidly. Do you expect that to continue?**

**TB:** We plan to keep growing by adding customers and also expanding into some new areas. We expect that Delaware will continue to be our largest office and that it will continue to grow.

**VB:** I see us continuing to grow. More and more it seems that IT isn't just part of what supports a company; it's what really defines a company.

**Q:** **You have a lot of UD students as interns, and you hire many UD alumni. Is that because of your proximity to Newark, or do you specifically seek them out?**

**TB:** Both, actually. We have a close relationship with UD because we're here in Delaware, but also because of the quality of the students and graduates. We've grown people here from interns to very successful senior executives. We use UD interns in every

department of the company. We're very big believers in internships because both of us worked while we were in school, and those opportunities shaped us and the way we thought. We attribute a lot of the success of this company to hiring smart, talented kids out of college and grooming them.

**VB:** Grooming them, that's very important, grooming them to be the next level of managers in the company. We recently opened an office in Philadelphia, and we hope to take advantage of some of the schools in that area as well, but the University of Delaware remains our primary source. Our turnover is probably one of the lowest in the industry. We've been told that we sort of provide the Silicon Valley experience in Delaware for our employees.

**Q:** **What do you think about UD's increased emphasis on entrepreneurship education?**

**TB:** We stay very involved in the [Lerner College's] Horn Program in Entrepreneurship. We've spoken at a few events for students, and we're always invited to the Venture Development Center when they have events. These programs didn't exist when we were students, and I don't think either of us thought of ourselves as entrepreneurs. It wasn't a modern thing to do at the time, the way it's evolved in the last two to three years.

**VB:** When I first graduated, in the Class of '99, I didn't know of a single venture company in this area. Nothing in my training prepared me directly for any of this.

**TB:** We didn't know what "venture capital" meant until we needed money! And now everybody knows what it is. It's only a few years ago, but things have really changed, and there are so many great resources available now for anyone who wants to be an entrepreneur. ■

—Interviewed by Ann Manser, AS73

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**October 12–18**

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# Wall of Fame

## adds five outstanding alumni

Five University graduates have been inducted into the Alumni Wall of Fame to honor their outstanding professional and public service accomplishments, in an annual ceremony held during Alumni Weekend in June.

This year's inductees are Anne M. Gaffney, AS82PhD, a specialty materials research and development leader at Invista; E. Thomas Harvey III, BE75, president of the commercial redevelopment firm Harvey, Hanna and Associates; Terri Connor Kelly, EG83, president and CEO of W.L. Gore and Associates; Claire M. Renzetti, AS77, 79M, 82PhD, professor of sociology at the University of Kentucky; and Leonard P. Stark, AS91, BE91, AS91M, U.S. District Court judge.

They were recognized at the ceremony by Monica Taylor, vice president for development and alumni relations, who praised the five for their successes and thanked them for their continuing involvement with their alma mater.

**Anne M. Gaffney** earned her doctorate in chemistry and then began a career in industry, taking on numerous roles from bench chemist to vice president of technology. She now leads research and development with specialty materials at Invista in Newark, Delaware, one of the world's largest companies specializing in integrating production of fibers, resin and intermediate materials.

She has received numerous professional honors, and several commercial technologies have resulted from her various inventions, including a new, environmentally favorable route to octane enhancers that received the 2009 American Chemical Society Green Chemistry Award.

**E. Thomas Harvey III**, who has been a leader in both business and philanthropic interests in Delaware for nearly four decades, is president of Harvey, Hanna and Associates, a commercial redevelopment firm that owns and manages more than 3 million square feet of industrial, commercial, retail and hospitality property throughout the Mid-Atlantic region.

After graduation, Harvey built, owned and managed multiple solid waste management and recycling companies for over 25 years. His operations offered the first recycling services in Delaware, thus forging a "green" and sustainable environmental future throughout the region.

**Terri Connor Kelly** received her bachelor's degree in mechanical engineering and soon joined W.L. Gore and Associates, where she now is president and CEO—a title she



PHOTO BY EVAN KRAPE

At the Wall of Fame induction ceremony are (from left) Terri Connor Kelly, Claire M. Renzetti, E. Thomas Harvey III, Leonard P. Stark, Monica Taylor, Anne M. Gaffney and Kenneth Jones, UD Alumni Association president.

earned in 2005 after a peer-driven selection process. The company specializes in fluoropolymer-based materials that are utilized in a wide array of high-value products, including Gore-Tex fabric and medical devices.

Kelly gained her early experience as a product specialist with Gore's military fabrics business. Her leadership abilities have driven her success in a company known for its non-hierarchical "lattice" structure.

**Claire M. Renzetti** is the Judi Conway Patton Endowed Chair for Studies of Violence against Women and professor and chair of sociology at the University of Kentucky. Her teaching and research specialties are the sociology of gender; violence in intimate relationships; sociology of law and criminology; and marriage, families and intimate relationships.

Renzetti is the founding editor of the international, interdisciplinary journal *Violence Against Women* and is editor of the University of California *Gender and Justice* book series and co-editor of the *Interpersonal Violence* book series published by Oxford University Press.

**Leonard P. Stark** earned dual undergraduate degrees in political science and economics, as well as a master's degree in history, all in four years at UD. He is a judge of the U.S. District Court for the District of Delaware, appointed in 2010 by President Obama.

A Rhodes Scholar, Stark earned his doctorate from Oxford University and a law degree from Yale University. He was an assistant U.S. attorney for the District of Delaware and a U.S. magistrate judge for the District of Delaware before being appointed to the U.S. District Court. ■



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## FROM OUR ALUMNI ASSOCIATION

Spring on UD's campus is a time for celebrations, many of which the Alumni Association is pleased to be a part of. Just days before graduation, a luncheon was held in honor of the 2014 recipients of the Emalea Pusey Warner and Alexander J. Taylor Sr. Awards for outstanding seniors, Brielle Gerry and Ryan Leonard. They led the alumni delegate procession at the Commencement ceremony, during which I had the distinct pleasure of leading the Class of 2014 through the annual alumni pinning ceremony.

It was an honor to have Vice President Joe Biden, a fellow Blue Hen, be a part of this year's ceremony celebrating our newest alumni. The Class of 2014 holds special meaning to the UDAA, as they were the guinea pigs for the class programs we initiated in 2010. Their class banner was proudly displayed in the stadium and became the backdrop for many photos after the ceremony.

Five outstanding alumni were honored over Alumni Weekend as the newest inductees of the Alumni Wall of Fame. You can read more about these alumni and their professional accomplishments and service to UD on page 56. This year marked the 30th anniversary of the Alumni Wall of Fame awards and the sixth Alumni Weekend celebration. It was a wonderful weekend of reconnection and fellowship with so many alumni coming back to campus and enthusiastically engaging with our University. We look forward to many more to come.

Since we believe that a Blue Hen's connection to UD is lifelong, we live by the motto "Blue Hens Forever." It's our hope that all alumni feel the same way.

Sincerely,



Kenneth C. Jones, BE80  
 President, UD Alumni Association  
 #BlueHensForever



Ken Jones and his wife, Lisa Jones, BE80, at Alumni Weekend

PHOTO BY EVAN KRAPER

## WHAT CAN YOU CROSS OFF YOUR UD BUCKET LIST?

Do you have a bucket list of amazing things you want to do in your lifetime? Dropping out of a plane at 30,000 feet? Running a marathon? Seeing the Northern Lights? Returning to the University of Delaware for Alumni Weekend?

If you're a proud Blue Hen (current student or alumnus), the UD Bucket List was made especially for you. Created by the University's Student Alumni Ambassadors and Office of Alumni Relations, the UD Bucket List represents what it means to be a true Blue Hen. In honor of the University's founding year, 1743, there are 17 Gold activities (for seniors and alumni) and 43 Blue activities (for students).

The idea is to get as many of the Blue activities as possible completed while a student; the Gold items are specifically for senior year and beyond. Seniors and alumni are encouraged to participate in such campus traditions as attending senior fling or getting a picture outside their old residence hall. Current students can make the dean's list, eat at every dining hall on campus or share a kiss under the Kissing Arches.

"The UD Bucket List is composed of things that mean the most to our community," organizers say. "By creating it, we hope to bring Blue Hens of all ages together in making memories you will never forget." ■



High-five President Harker or the dean of your college



Have a picnic on The Green



Take a picture with YoUDee or Baby Blue



Volunteer with an organization or UDaB (alternative spring break)





### ASSOCIATION HONORS OUTSTANDING NEW GRADUATES

Brielle Gerry and Ryan Leonard received this year's Emalea Pusey Warner and Alexander J. Taylor Sr. awards, respectively, as outstanding members of the 2014 graduating class. The awards are given annually by the UD Alumni Association to recognize the senior woman and man who most exemplify leadership, academic success and community service.

Gerry was an Honors Program student and double major in neuroscience and Spanish studies with a minor in applied music in piano and biological sciences. President of the coed premedical

fraternity Phi Delta Epsilon, Gerry helped rebuild the chapter by fundraising and increased member participation. She plans to attend medical school.

Leonard, a Charles L. Hebner Memorial Scholarship recipient, earned an Honors degree with majors in political science and history and a minor in Islamic studies with Arabic language. He was a Marshall Scholarship finalist, was selected as one of 63 Harry S. Truman Scholars nationwide and helped lead the revival of UD's Mock Trial Chapter. He plans to attend law school. ■

### REGIONAL ALUMNI CLUB EVENTS

#### **Baltimore Alumni Club**

Sept. 13, baseball, Yankees at Orioles

#### **Lancaster Alumni Club**

Sept. 27, historical walking tour  
October, Hershey Pumpkin Glow

#### **Lehigh Valley Alumni Club**

Oct. 18, Homecoming bus trip,  
UD football game and tailgate

#### **New Castle County Alumni Club**

September, golf event at Delcastle Golf Course

#### **Philadelphia Alumni Club**

September, communications networking  
Nov. 15, Dare to Care, Philabundance

#### **Pittsburgh Alumni Club**

Oct. 11, Phipps Conservatory tour and luncheon

#### **Phoenix Blue Hen City**

September, Phoenix Dare to Care

#### **Reading (Pa.) Alumni Club**

Oct. 25, fall hayride and S'mores roast  
Dec. 7, Strasburg holiday train ride

#### **Richmond Alumni Club**

Oct. 25, bus trip to William and Mary football game

#### **San Diego Blue Hen City**

Sept. 17, baseball, Phillies at Padres

#### **South Florida Alumni Club**

Dec. 7, football, Ravens at Dolphins

**For details and to register for any club events,  
please visit [www.UDconnection.com/clubs](http://www.UDconnection.com/clubs).**

### HOMECOMING: CALLING ALL HENS BACK TO THE COOP

The University will celebrate Homecoming 2014 with activities on campus from Oct. 12-18. The Student Homecoming Committee and the Office of Alumni Relations are planning a week filled with events for all Blue Hens to celebrate their UD spirit.

The Amazing Race will return for a second year, along

with daily spirit stations, an alternative tailgate and the All-Alumni Goalpost Party. Affinity group receptions are scheduled throughout the week, and the Presidential Citation for Outstanding Achievement awards ceremony, honoring accomplished alumni who graduated in the last 20 years,

will take place on Friday, Oct. 17.

Also Friday, a Homecoming pep rally will be held in the evening, and on Saturday, Oct. 18, a new Homecoming king and queen will be crowned while fans cheer the Blue Hens to victory in a match against Towson University. Kickoff in Delaware

Stadium is at 3:30 p.m.

Any group planning to hold a Homecoming event should contact Michael Yancey, associate director of Homecoming and reunions, at [myancey@udel.edu](mailto:myancey@udel.edu).

Visit [www.udconnection.com/homecoming](http://www.udconnection.com/homecoming) for more details, including football ticket and tailgating information. ■

## 1960s

**Robert A. Pribush 68AS**, of Greenwood, Ind., a chemistry professor at Butler University, received the 2014 Award for Volunteer Service to the American Chemical Society, in recognition of his many years of contributing to the organization's mission and programs.

## 1970s

**William J. Flanagan 71AG/M**, of Colonial Heights, Va., recently marked 21 years of serving as legislative aide and chief of staff to Virginia House of Representatives Majority Leader Kirk Cox, making him one of the longest-serving aides in the legislature and winning praise from Cox as "instrumental" in his accomplishments.

**Harry Goldberg 71BE, 73EG**, of Kiawah Island, S.C., recently was named president and CEO of the Coalition for College Cost Savings, a nonprofit based on the idea that independent colleges and universities can benefit by

collaborating in the purchasing marketplace.

**Raymond Jacobsen 71AS**, of Alexandria, Va., a partner in the Washington, D.C., office of McDermott Will and Emery, was named "Lawyer of the Year" in the 1,100-lawyer firm, awarded in recognition of his having won a major Justice Department case and having served on the firm's executive and management committees for 15 years.

**Joseph Nacchia 73BE**, of Wilmington, Del., recently joined Artisans' Bank's residential lending division as vice president and residential mortgage lender.

**Patricia Billingsley 74AS**, of Williamsburg, Mass., a communications specialist at Smith College and an independent biographical researcher, lectures and is writing a book about Spanish poet Federico Garcia Lorca and his ties to Vermont.

**Craig W. Henry 74AS**, of Brandon, Miss., an adviser to the federal Department of Homeland

Security's food and agriculture council, has been named vice president of business development for the Americas by Decernis, which provides research to support global product safety compliance.

**Rakesh Jain 74EG/M, 75PhD**, of Wellesley, Mass., director of the Edwin L. Steele Laboratory in the Department of Radiation Oncology at Massachusetts General Hospital, has been honored by the American Association for Cancer Research with its annual Princess Takamatsu Memorial Lectureship.

**Page Talbott 74AS/M**, of Bala Cynwyd, Pa., who has more than 40 years' experience as a consultant to museums, libraries, historic sites and nonprofits, has been appointed president and CEO of the Historical Society of Pennsylvania.

**Patrick Nowakowski 75EG**, of Sewell, N.J., a career railroad professional who previously was executive director of the Dulles Corridor Metrorail Project in Washington, D.C., has been appointed president of New York's Long Island Rail Road.

**Todd Landrum 76HS/M**, of Winona, Minn., a former basketball coach and athletic clinician, has been appointed assistant director of admissions at Davis and Elkins College in Elkins, W.Va.

**Nancy DeLucia 77BE**, of Horsham, Pa., has been appointed executive director of the Hatboro-Horsham Educational Foundation, a nonprofit funding arm for classroom-based projects.

**Paula Maniscalco 77EH**, of Hockessin, Del., recently joined Artisans' Bank's residential lending division as vice president and residential mortgage lender.

**Gary N. Smith 77AS/M**, of Dallas, Texas, who for 18 years has been president and executive director of the Dallas Heritage Village history museum, is now director of strategic projects, coordinating a new initiative focusing on the sustainability of history organizations throughout Texas.

**Patricia Howard 78AS**, of Boalsburg, Pa., an assistant professor of art at Juniata College and a Pennsylvania Artist in Residence for the state Council for the Arts and Galaxy/Arts in Education, recently exhibited her photography exploring themes of family, traditions and stories.

**Mark Jackwood 78AG, 82M**, of Watkinsville, Ga., a professor and head of the Department of Population Health at the University of Georgia, received the 2014 Charles Beard Research Excellence Award from the U.S. Poultry and Egg Association for his work with infectious bronchitis.



Share Your News! 

The *UD Messenger* encourages alumni to send us any news you want to share with your fellow Blue Hens. A new job, a promotion, a personal or professional award ... they're all accomplishments we want to announce.

Email a note or a press release, if available, to **alumnet@udel.edu**

Please include your graduation year and college or major.

Another way to get the word out is to use the online community just for UD alumni. Go to **www.udconnection.com**, register for the password-protected site, and post any news you want to share. It will be posted on the site and will also be considered for inclusion in an upcoming Class Notes section of the *Messenger*.

## COLLEGE LEGEND

- AG—Agriculture and Natural Resources
- AS—Arts and Sciences
- BE—Lerner College of Business and Economics
- EG—Engineering
- EO—Earth, Ocean, and Environment
- EH—Education and Human Development
- HS—Health Sciences
- AA—associate in arts or science degree
- M—master's degree
- PhD/EdD/DPT—doctoral degrees
- H—honorary degree

**Elizabeth Poulliot 78AS, 81M**, of Virginia Beach, Va., director of the Hampton Roads Naval Museum, one of the most-visited naval museums in the country, has been named a 2014 Woman of Distinction by the YWCA of South Hampton Roads.

**Louis Vollmer 78AS**, of Alpharetta, Ga., the former founding executive vice president, sales and marketing, for Endo Pharmaceuticals, has been appointed to the board of directors of Iroko Pharmaceuticals, a global specialty company focusing on the science of analgesia.

**1980s**

**Edward Camelli Jr. 80BE**, of Coatesville, Pa., owns and operates Trail Creek Outfitters in Glen Mills, Pa., which recently expanded its 3-year-old series of trail races to total five cross-country competitions in Delaware and Pennsylvania.

**Paul G. Chaney 80AS**, of Mount Arlington, N.J., president and CEO of PanOptica Inc., has been appointed to the board of directors of Eleven Biotherapeutics, a clinical-stage biopharmaceutical company treating diseases of the eye.

**Rich Robleto 80BE/M**, of Tallahassee, Fla., has been appointed life and health deputy commissioner of the Florida Office of Insurance Regulation.

**Wade Catts 81AS, 88M**, of Newark, Del., a registered professional archaeologist and an associate director of cultural resources with John Milner Associates, a preservation consulting firm in West Chester, Pa., has been named president of the American Cultural Resources Association.

**Debora Hansen 81AS**, of Dover, Del., who as arts education associate for the Delaware Department of Education oversees

**LAUREN CRUZ, AG13**



It's not every day that you get to see a creature that has been around for 110 million years emerge from the ocean and lay its eggs on the beach. Unless, of course, you're Lauren Cruz, who spent her first year after graduation in Costa Rica with the Leatherback Trust studying leatherback sea turtle nesting ecology.

Cruz, whose major was wildlife conservation, tracked the demographics of the turtles that nest at Playa Grande and Parque Nacional de las Baulas—which translates to “Park of Leatherback Sea Turtles”—and spent her nights with a team patrolling the beach looking for nesting turtles.

The team outfitted turtles with tracking tags, counted eggs and monitored nests until the hatchlings were ready to leave. While the leatherbacks that nest on the Caribbean coast have seen a population rebound in recent years, ones that nest on the Pacific coast are still critically endangered, Cruz says.

“What's great is that out here they have a good ecotourism program where the locals—a lot of them who used to be poachers—found that it's more sustainable to take tourists out to see the turtles rather than take their eggs,” she says.

After the nesting season ended, Cruz accepted a position for the summer with the Earthwatch Institute, supervising high school students on research expeditions in the Bahamas and Puerto Rico. The job is exciting, she says, “because it is similar to the UD study abroad program [to Costa Rica] that sparked my interest in this type of research.” ■

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## CLASS NOTES

all programs in dance, music, theatre and visual art for all of the state's school districts and charter schools, received the 2014 Eastern Region Supervision/Administration Art Educator of the Year Award from the National Art Education Association.

**Susan Hughes 81AS**, of Oswego, N.Y., formerly a processing archivist at Syracuse University and a regional archivist at the Central New York Library Resources Council, has joined CXtec, which provides its customers with networking and voice hardware, as an archive manager.

**K.C. Keeler 81HS**, UD's head football coach for 11 seasons, from 2002–2012, has been named the 15th head football coach at Sam Houston State University in Huntsville, Texas.

**Bob Rich 81AG**, of St. Michaels, Md., who has worked for numerous

agricultural firms, has joined Sperry Van Ness Miller Commercial Real Estate in Salisbury, Md., as a land adviser with the firm's new Alder Land Group.

**Cynthia Schwalm 81HS**, of Chapel Hill, N.C., who has spent 30 years working for various pharmaceutical companies in oncology and neurology, has joined the global specialty pharmaceutical company Ipsen as head of its endocrinology/oncology business unit.

**Paul Biser 82BE**, of Baldwin, Md., a certified public accountant with more than 25 years' experience in finance and accounting, has joined Mid-Atlantic Properties as chief financial officer in the accounting department of the investment, development and management firm.

**Michael Lacey 82EO**, of Tempe, Ariz., a business owner and consulting hydrologist for 22

years before joining the Arizona Department of Water Resources as deputy director in 2011, recently was named director of the agency.

**Margaret Del Fabbro 83BE**, of Hockessin, Del., CEO of the industrial construction company M. Davis and Sons, received a 2014 Women's Business Enterprise Star award from the Women's Business Enterprise National Council in recognition of her business acumen and inspiration to other women.

**Alicia Wydro-Thorne 83AS**, of Doylestown, Pa., a member of the tax group in the audit, tax and accounting firm Parente Beard, received the Bucks County Council Boy Scouts' Silver Beaver Award for her outstanding leadership and service to youth.

**Craig Berman 84AS, 90AG/M**, of Ambler, Pa., a science teacher at Belmont Charter School in

Philadelphia, was a guest at a city awards ceremony in which Mayor Michael Nutter presented two of Berman's students with "Make a Splash in Science" awards.

**Andrew Cichocki 84BE**, of Phoenixville, Pa., has been named president of Airgas USA, a leading supplier of industrial, medical and specialty gases, where he will lead all of the company's sales, operational, organizational and financial aspects.

**Krista Pool Harper 84BE**, of Doylestown, Pa., has opened Harper Business Law there, concentrating in business, real estate and succession planning.

**Donna Kimmel 84AS**, of North Attleboro, Mass., has joined GTECH, a commercial operator and provider of technology in the worldwide gaming markets, as senior vice president of human resources.



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**David Meister 84EG**, of Rye, N.Y., a former federal prosecutor and former enforcement director at the U.S. Commodity Futures Trading Commission, has rejoined the law firm Skadden Arps Slate Meagher and Flom as head of its Government Enforcement and White Collar Crime Group in New York.

**Joseph Papili 84BE**, of Wilmington, Del., who had served as U.S. marshal for Delaware since his 2010 retirement from the Delaware State Police, in April became the new athletic director for St. Elizabeth High School in Wilmington.

**Daniel Mongan 85EG**, of Amagansett, N.Y., recently was elected a partner in the New York law firm Leech Tishman, where he is a member of the corporate practice group.

**Peggy Blaze 86AS**, of Northridge, Calif., has been named account director of InGear, a provider of media relations and content creation services for the professional audio/video, custom installation and consumer electronics markets.

**Stefanie Cutillo 86AS**, of Glenmoore, Pa., who has more than 25 years' experience in retail and commercial banking, has joined the management-consulting firm Bank Solutions Group as a partner in its Philadelphia office.

**Stephen Gorski 86EG, 87EO/M**, of Abingdon, Md., who has extensive experience in civil engineering design, management and construction, has joined the engineering consulting firm Duffield Associates as a senior project manager in its Civil Engineering and Water Resources Department.

**Patty Perillo 86AS, 88EH/M**, of Cornelius, N.C., vice president for student affairs at Virginia Tech, received the 2014 Esther Lloyd-Jones Professional Service Award from ACPA-College Student Educators International.

## IN CHUL KIM, AS88PHD



In Chul Kim, who earned a doctorate in political science at UD, has been inaugurated as the 10th president of Hankuk University of Foreign Studies (HUFS) in Seoul, South Korea.

Previously the vice president of external affairs and development at HUFS, Kim succeeds Chul Park, who served as president from 2006–14. Before becoming vice president of external affairs, Kim was dean of academic affairs at the Seoul campus;

dean of the Graduate School of Politics, Government and Communication; and dean of planning and coordination, as well as a professor in the Department of Public Administration.

Founded in 1954, HUFS enrolls more than 17,000 undergraduate and 4,000 graduate students on its Seoul and Yongin campuses, offering studies in 45 languages through 32 departments of foreign studies.

William W. Boyer, Charles Messick Professor Emeritus in the Department of Political Science and International Relations, who was Kim's mentor and dissertation committee chair at Delaware, represented UD President Patrick Harker at the inauguration ceremony and presented a Distinguished Alumni Award to Kim.

"His Ph.D. dissertation was judged the best dissertation in the social sciences, for which he was awarded the Ryden Prize," Boyer says. "Moreover, his dissertation was published as a book in Korea." ■

**Angela Bacarisse 87AS**, of Nacogdoches, Texas, a faculty member at Stephen F. Austin State University, where she specializes in clothing history and design for the stage, has received a Teaching Excellence Award from the university.

**Ruey-Bin Kao 87EG/M**, of Lisle, Ill., has been appointed CEO of Telstra Greater China, responsible for developing integrated service capabilities in the greater China market for the global provider of telecommunications and information services.

**Mary Patterson Clark 88AS**, of Crofton, Md., who joined Syniverse in 2009 as senior vice president, roaming, has been named the company's chief marketing officer.

**Holly Dobrowolski 88AS**, of Highland Park, N.J., and her father, Alex, in October completed their seventh marathon together in seven years with a race in Buenos Aires that also marked the fifth continent on which they ran together.

**William Knopka 88AS**, of Napa, Calif., has been named sales manager in the wine category for Saxco International, which supplies glass bottles and other packaging to hundreds of wineries on the West Coast.

**Lisa Sassaman 88EO**, of Morrisville, Pa., a former environmental consultant who now teaches math at Lawrence Middle School, was named the Lawrence Township (N.J.) Teacher of the Year for 2014.

**Eileen (Guinan) Wallace 88HS**, of West Long Branch, N.J., a health and physical education teacher and a certified athletic trainer, received a 2014 Teachers Who Rock award, given by central New Jersey radio stations and based on nominations from the community to recognize teachers who make a difference in children's lives.

**Theresa Cardinal Brown 89AS**, of Ogdensburg, N.Y., who served in various policy positions at the federal Department of Homeland Security before founding her own firm, has been named the Bipartisan Policy Center's director of immigration policy.

**Melissa Mowry 89AS/M, 93PhD**, of Abingdon, Pa., associate professor of English at St. John's University, has won the prestigious

## HENS OF A FEATHER

### News involving several alumni

The **College of Arts and Sciences** recognized five alumni at its annual Celebrating Achievement and Success event in May. Dean **George Watson 85PhD** presented Alumni Achievement Awards to **Susan L. Buck 91M, 03PhD**, a private art conservator and teacher who specializes in paint and finish analysis; **Kendel Sibiski Ehrlich 83**, a former prosecutor and first lady of Maryland who now teaches criminal law; **Matthew B. Geller 78M**, a sculptor who has received numerous fellowships and commissions to display his art in public spaces, museums and galleries; **Guillermina Gonzalez-Sobrero 09M**, executive director of the Delaware Arts Alliance who holds leadership roles in many other arts and advocacy organizations; and **Lawrence M. Principe 83**, the Drew Professor of the Humanities at Johns Hopkins University and an authority on the history of science.

Four graduates of the **Alfred Lerner College of Business and Economics** received the college's 2014 Alumni Awards of Excellence during Alumni Weekend. The honorees were **Arlene Dresch Hogan 76** (business administration), a chartered property casualty underwriter and senior vice president in charge of auto and fire claims for State Farm; **Vance A. Funk III 65** (business education and marketing), an attorney and former mayor of Newark, Del.; **John Rittenhouse 80** (accounting), chief executive of EDF Trading Group, a leader in the wholesale global energy markets; and **Ping Xu EO94M, BE99M** (business administration), a real estate agent with Re/Max, a certified financial planner, certified court interpreter and law student.

The **College of Health Sciences** has recognized distinguished alumni from each of its units. Honored at a reception during Alumni Weekend were **Nicholas DeBlasio 03AS, 05HS/DPT**, facility director and area manager, and **Nikol**

**Tews 90**, physical therapist (both physical therapy), both with St. Luke's University Health Network; **Sherrie Wilcox 08M** (behavioral health and nutrition), assistant research professor at the University of Southern California School of Social Work; **Marc Portmann 89** (medical laboratory sciences), regional executive director and embryology laboratory director for the Philadelphia metro region of the Shady Grove Fertility Center; **Jean Eckrich 77** (kinesiology and applied physiology), the David H. Winton Endowed Chair of Exercise and Sport Sciences at Colby-Sawyer College; and **Maureen Seckel 94M** (nursing), advanced practice nurse and critical-care clinical nurse specialist with Christiana Care Health System.

The **Department of Electrical and Computer Engineering** honored four of its alumni at its annual Research Day in March. **David Welch 81**, co-founder and president of Infinera Corp., was the keynote speaker at the event and received the department's Distinguished Achievement Award for his career accomplishments; **Mark Melillo 82**, CEO of Melillo Consulting, received the Entrepreneurial Innovation Award; **Kristofer J. Rose 95, 97M, 01PhD**, director of R&D imaging for Smiths Detection, received the Outstanding Service Award; and **James E. Orr IV 01, 04M**, who works for Apple, received the Young Alumni Achievement Award.

Two alumni have earned Presidential Awards for Excellence in Mathematics and Science Teaching, the highest recognition given in the U.S. to K-12 math and science teachers, and administered for the White House by the National Science Foundation. Delaware's 2014 recipients are **Jeanine Moore 91AS, 00BE/M**, a fourth-grade math and science teacher at Long Neck Elementary School in Millsboro, and **Tim Dalby 99EH, 11M**, lower school science specialist and coordinator at Wilmington Friends School. ■

Massachusetts, some 10,000 employees and operations in 66 countries.

**Jayla Boire 91AS**, of Wilmington, Del., a marketing consultant, has been named CEO of the national Association for Accounting Marketing.

**Catherine W. Carter 91AS/M, 99PhD**, of Cullowhee, N.C., a professor and coordinator of the English education program at Western Carolina University, returned to UD in April as the featured speaker in the Gregory Family Celebration of Creative Writing event.

**Mark D. Mitchell 91AG**, of Doswell, Va., who has worked for Dominion Resources in Richmond, Va., for 15 years, recently was promoted to vice president for general construction.

**Tom Sherry 91BE**, of Fairview, N.C., has joined AllCare Clinical Associates as the director of business development, working with hospitals and surgery centers to reduce costs and improve service.

**Eric Jillard 92BE**, of Maplewood, N.J., has been named general manager for marketing services at Mercedes-Benz USA, responsible for the planning and development of the company's digital and traditional marketing programs.

**Michael Rucki 92BE**, of Washington, D.C., has been promoted to director of communications and public affairs at the Pension Benefit Guaranty Corp., a federal agency charged with protecting the retirement income of more than 40 million Americans.

**Kathy S. Schultz 93BE**, of Wilmington, Del., a certified public accountant and director with the accounting and consulting firm Belfint, Lyons and Shuman, has earned certification as an Accredited Estate Planner by the

Clifford Prize for best article of the year in 18th century studies for her article, published in the journal *English Literary History*, "Past Remembrance or History: Aphra Behn's *The Widow Ranter*, or How the Collective Lost Its Honor."

### 1990s

**Timothy Rayne 90BE**, of Kennett Square, Pa., a partner in the law firm MacElree Harvey whose practice includes personal injury, product liability and medical malpractice, has received a "Preeminent" rating with the

Martindale-Hubbell peer review service.

**Udit Batra 91EG**, of Wellesley Hills, Mass., recently was appointed president and CEO of EMD Millipore, the life science division of Merck KGaA of Germany, which has its global headquarters in

National Association of Estate Planners and Councils.

**Lauri Weeks 93AS/M**, of Rehoboth Beach, Del., is the new executive director of the Sussex Family YMCA,

where she has worked for four years.

**Shaun Mumford 94EG**, of Mount Wolf, Pa., an attorney who concentrates his practice in

health care litigation matters, has been named a shareholder of the Reading, Pa., firm Stevens and Lee.

**Laura Gadbois Berger 95AS**, of Springdale, Ark., has joined Reckitt Benckiser as a shopper marketing manager for the company's Walmart team in Bentonville, Ark.

**Tamika A. Crawl-Bey 95EG, 95AS**, of Wilmington, Del., an engineer and registered patent attorney who focuses her law practice on domestic and foreign patent prosecution, patent portfolio management and intellectual property counseling, has joined the Philadelphia, Pa., firm Panitch Schwarze as an associate.

**Warren Hutmacher 95AS**, of Atlanta, Ga., formerly the city manager of Dunwoody, Ga., is the new city manager for Johns Creek, Ga.

**Paul McCarthy 95AS**, of Chapel Hill, N.C., has been promoted to

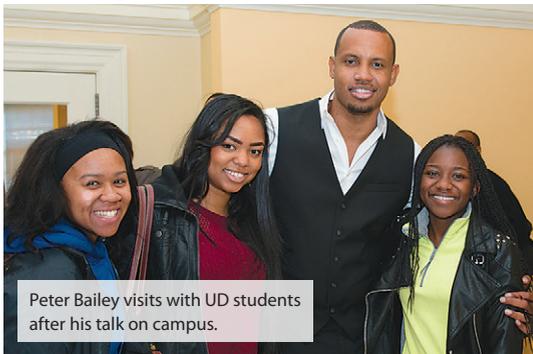
senior vice president for strategy, planning and information services with the Motor and Equipment Manufacturers Association, a 110-year-old organization representing the motor vehicle supplier industry.

**Steven McKnight 95EG/PhD**, of Fairfax, Va., formerly a division director at the National Science Foundation, has been named vice president for Virginia Tech's national capital region and appointed a tenured professor in the Department of Engineering Science and Mechanics in the university's College of Engineering.

**Craig Richmond 95BE**, of Solon, Ohio, was promoted to senior vice president and chief financial officer of MetroHealth, responsible for all of the Cleveland-based health system's financial operations.

**Daniel Schleiniger 95AS, 99BE/M**, of Miami, Fla., who began his

## PETER BAILEY, AS03



Peter Bailey visits with UD students after his talk on campus.

LANE MCCLACHLIN

A native of St. Thomas who came to UD to study journalism, Peter Bailey went on to work as a reporter, most recently at the *Miami Herald*, where he wrote the award-winning series of articles "On the Margins" and "Shackled Education."

Today, he has left print journalism and is busy creating his own independent multimedia enterprise, making use of such platforms as YouTube and Twitter to showcase his skills in interviewing and storytelling. He has created and hosts a documentary interview series, *NiteCap With Peter Bailey*, through NBC's Miami Channel 6.

"I always wanted to be my own self-sufficient media company, and I had a vision for *NiteCap*, where I would interview well-known people and show a different side of them," Bailey says. "At first it was hard, but now when celebrities are coming to the Miami area, they contact me about being on the show. We shoot on location and have very intimate conversations about things like spirituality."

Bailey, who in 2010 co-authored *Magic City: Trials of a Native Son*, the autobiography of Miami rap star Trick Daddy, says he is working on another book and would also like to do more public speaking. In March, he gave a talk at UD and met with journalism students.

He also recently began acting professionally, with a role in the new independent film *The North Star*, which is based on a true story of slavery, abolitionists and the Underground Railroad. ■

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## CLASS NOTES

career as a corporate relationship manager for one of Brazil's largest banks, has joined Arcos Dorados, Latin America's largest restaurant chain and the world's largest McDonald's franchisee, as the corporate director of investor relations.

**William J. Donovan 96AS**, of Fairlawn, Ohio, associate professor of chemistry at the University of Akron, has been appointed to the board of trustees of the American Chemical Society's Exams Institute.

**Megan Christensen 97AS**, of Newtown, Pa., has joined the law firm Stevens and Lee, where she is a member of the labor and employment practice in the Princeton, N.J., office.

**Courtenay Wynne Daum 97AS, 98M**, of Fort Collins, Colo., associate professor of political science at Colorado State University, received a 2014 Best

Teacher Award for her work in teaching, research and engaging her students.

**Kristin Franks 97AS**, of Greensboro, N.C., a counselor at Restoration Place and a private life coach at Kristin's VIP Coaching, recently finished fourth in her division in the Greensboro Marathon, to support JDRF.

**Jaynice Porter-Brathwaite 97AS**, of Greenville, Texas, formerly human resources director for the city of Nacogdoches, Texas, recently was named Greenville's human resources director.

**M. Derek Harris 99AS**, of Boynton Beach, Fla., who is of counsel in the law firm Carlton Fields Jordan Burt, where he is a member of the national trial practice group, has been elected a shareholder in the firm.

**Jennifer Reno 99AS**, of Newark, Del., an attorney who joined the

Philadelphia, Pa., law firm Marshall Dennehey Warner Coleman and Goggin in 2001 as a paralegal and now is a member of the health care department, concentrating on medical malpractice, has been elected a shareholder of the firm.

**John Scali 99AS, 05EH/M, 11EdD**, of Middletown, Del., a teacher at Concord High School near Wilmington, was named the 2013 Delaware High School Teacher of the Year by the American Chemical Society.

### 2000s

**Joe DeRig 00AS**, of Colchester, Conn., a former U.S. Army officer who served in Iraq and Afghanistan and earned the Bronze Star, is the owner of EMPOWER Leadership Sports and Adventure Center, a leadership-development and team-building business that recently celebrated its fifth anniversary.

**Lauren O'Donnell 00AG**, of Pittsburgh, Pa., was named Teacher of the Year at Duquesne University, where she is a faculty member of the Mylan School of Pharmacy.

**Chad Stover 00EG**, of Hockessin, Del., an attorney with the Delaware office of Barnes and Thornburg who works in intellectual property litigation, has been recognized by the Super Lawyers rating service as a Rising Star.

**Suzanne Bart 01AS**, of West Lafayette, Ind., assistant professor of chemistry at Purdue University, has been named one of four national Organometallics Young Investigator Fellows for 2014 and will receive the award at the American Chemical Society annual meeting.

**Joseph Jakubowski 01EG**, of Newark, Del., geotechnical section manager with the engineering firm Duffield Associates, was named the

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2014 Young Engineer of the Year by the Delaware Engineering Society.

**Domenico Montanaro 01AS**, of Silver Spring, Md., formerly the deputy political editor for NBC News in Washington, has been named chief political editor of *PBS NewsHour*, where he made his on-air debut in May and where he writes and edits the daily "Morning Line" political blog.

**Alexander J. Wixted 01AS**, of Princeton, N.J., has been named a partner of the law firm Fox Rothschild, where he represents clients in all aspects of corporate and real estate law.

**Liam Duffy 02AS**, of Lansdale, Pa., an attorney whose practice focuses on family law and landlord/tenant matters, has joined the Lansdale firm Rubin Glickman Steinberg and Gifford as an associate.

**Kevin Imhoff 02BE**, of Westfield, N.J., a chartered financial analyst

with eight years' experience in the private equity industry, has joined Eaton Partners, a leading independent global placement agent, in its new Secondary Advisory Group.

**Kathleen (Ulrich) Martin 02AS**, of Austin, Texas, co-owner of the Organized Joy professional organizing and bookkeeping business, has earned the Certified Professional Organizer designation from the Board of Certification for Professional Organizers.

**Michael Finegan 03AS**, of Wesley Chapel, Fla., who practices personal injury law, has joined the Brandon, Fla., firm Carman and Bevington.

**Erica Luke 03AS**, of Coventry, R.I., recently was named executive director of the Pettaquamscutt Historical Society in South Kingstown, which focuses on the history of southern Rhode Island and is housed in a former jail.

**Jamie Davidson 04BE/M**, of Duluth, Ga., is the new CEO of Language Stars, a national firm that teaches foreign language skills to toddlers, preschoolers and elementary students, specializing in children age 10 and younger.

**Michelle Filling-Brown 04AS/M, 08PhD**, of Royersford, Pa., was awarded tenure and promoted to associate professor of English at Cabrini College, where she also received the 2014 Lindback Award for Distinguished Teaching.

**Damian Finio 04BE/M**, of Wilmington, Del., president of the niche financial consulting firm Mountain Run Advisors, has been appointed to the board of directors of IGI Laboratories, a generic pharmaceutical company, as chair of the board's audit committee.

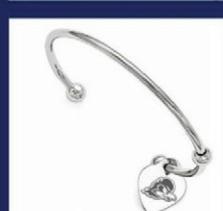
**Laura Johnson 04AS/M, 10PhD**, of Marlborough, Mass., the associate curator of Historic

New England, is working on an exhibition scheduled to open there in 2016 titled "Mementos: Jewelry of Life and Love."

**William Lopez 04AS**, of North Brunswick, N.J., has graduated from the New York College of Podiatric Medicine and will serve his residency at Staten Island University Hospital.

**Thomas "Trey" Mills III 05AS/M**, of Cambridge, Md., a chemistry teacher at Cambridge-South Dorchester High School, was named the Dorchester County (Md.) Teacher of the Year for 2014.

**William Tisdale 05EG**, of Belmont, Mass., assistant professor of chemical engineering at the Massachusetts Institute of Technology who conducts research on quantum dots, received a 2014 3M Non-Tenured Faculty Award, which recognizes excellence in research and academic leadership.

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## WILLIAM L. WASCHER, AS78

William Wascher, an economist with the Board of Governors of the Federal Reserve System since 1983 who is known for his work on minimum wages and aggregate supply, returned to UD this spring to deliver the annual Hutchinson Lecture in macroeconomics.



LANE MCCLAUGHLIN

The lecture, sponsored by the departments of Economics and of Finance, honors the late Harry D. Hutchinson, a professor of economics at UD from 1959–89.

“The collapse of the housing market bubble has led to the biggest drop in GDP and the largest unemployment rate since the Depression,” Wascher told the audience. “Recovery has been very slow.”

Data compiled by the Labor Department, he said, indicates that mortgage finance and real estate employment has not recovered. “Some companies are not rehiring lost workers. Some are closing permanently. Research on these displaced workers indicates there are longer downtimes between jobs than ever before,” Wascher said.

He identified problems that the unemployed face today, including a decrease in skill levels, lost relationships with colleagues who previously would have helped them and the stigma associated with being unemployed for a long time. Wascher added that many long-term unemployed people are finding that employers are more reluctant to rehire them, a phenomenon that did not occur after the 1982 recession.

“We feel that we may have lost a generation of new firms and also a generation of people who have given up on getting a job,” he said, arguing that more aggressive monetary and fiscal responses to the initial crisis might have further mitigated the damage. ■

**Amber Hikes 06AS**, of Philadelphia, Pa., an advocate for LGBT issues who was honored by that community by being named grand marshal of last year’s Philly Pride parade, works in a program at the University of Pennsylvania to help underrepresented teens finish high school and enroll in college.

**Alia Sommerville 06HS**, of Gaithersburg, Md., a fourth-year student at Touro College of Osteopathic Medicine who plans to specialize in maternal-fetal medicine, was awarded a scholarship from National Medical Fellowships, an organization that works to increase the number of underrepresented physicians in the U.S., which supported her travel to Ghana this spring to work in women’s clinics there.

**Adam Freedenberg 07BE**, of Bethesda, Md., a certified public accountant and a certified fraud examiner, has joined Santos, Postal

and Company as a manager of the Rockville, Md., accounting and consulting firm.

**Dan Kolko 07AS**, of Silver Spring, Md., a sportswriter for MASNsports.com for the past three years, is now the sideline broadcast reporter for Washington Nationals baseball games on the MASN network. “Like all great reporters, he attended the University of Delaware,” wrote **Dan Steinberg 98AS**, in his *Washington Post* sports blog.

**Sam Mackenzie 07HS/M**, of Syracuse, N.Y., a third-year medical student at Upstate Medical University, where he also earned a Ph.D. in neuroscience last year, has been elected to the board of trustees of the American Medical Association.

**Bryan Shupe 07AS**, of Milford, Del., a former member of the city council there, has taken office as Milford’s mayor—the youngest in the city’s history.

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**Brian Boutin 08EO/PhD**, of Lewes, Del., who formerly worked with the Nature Conservancy in North Carolina, recently was named the conservancy's director of conservation programs in Delaware.

**Jennifer Fabryka 08AG**, of Felton, Del., who earned her doctoral degree in veterinary medicine at the University of Missouri, has joined the staff of Savannah Animal Hospital in Lewes, Del.

**Cassie Gonc 09EH**, of Wilmington, Del., director of volunteers for the pet therapy organization PAWS for People, has been granted approval to conduct a research study on the impact of pet therapy on patients receiving chemotherapy treatment for cancer.

**Nitika Gupta 09EG, 09AS**, of Wilmington, Del., an attorney who is admitted to the Delaware bar and is registered to practice before the U.S. Patent and Trademark Office, has joined the Wilmington firm Fish and Richardson as an associate focused on patent litigation.

**Andrea Malkowski 09AS**, of Boston, Mass., has released her first album of original songs, *Words to Live By*, which was produced with professional musicians in Philadelphia and has a theme of living for your passion.

**Melissa Tracy 09EH/M**, of Wilmington, Del., a social studies teacher at Conrad Schools of Science there, is one of 13 educators nationwide selected to receive a yearlong National Teacher Fellowship from the Hope Street Group, a nonprofit that works to expand economic opportunity and prosperity for all Americans.

## 2010s

**Jordan L. Fischer 10BE**, of Downingtown, Pa., who earned her law degree from the Earle Mack School of Law at Drexel University and then completed a clerkship

for the vice president of the Court of Justice of the European Union in Luxembourg, has joined the law firm Archer and Greiner as an associate in the estate and trust litigation group.

**William Burnham 11AS**, of Colts Neck, N.J., has received a Cali Award from Roger Williams University School of Law.

**Katie Falcone 11AS**, of Short Hills, N.J., has joined Ash Lawn-Highland, the home of President James Monroe, as the historic site's first marketing, communications and events manager.

**Zachary Goldstein 11AS**, of Cherry Hill, N.J., a Peace Corps volunteer serving in Armenia, works with the Talin Women's

Resource Center there, assisting an organization whose members make and sell crocheted goods.

**Kammas Murphy 12AS**, of Wilmington, Del., a chemistry teacher at St. Elizabeth High School there, has been named a 2013–14 Dow-National Science Teachers Association fellow, one of 200 new fellows selected nationwide from more than 1,000 applicants.

**Kurt Anderson 13AG/M**, of Arlington, Va., previously the land project coordinator for Maine Farmland Trust, has been named to a new position as development officer and grants writer at Unity (Maine) College.

**Brian Gross 13EH/M**, of Wilmington, Del., a biology teacher

at Delcastle Technical High School there, was selected as the 2014 High School BioScience Educator of the Year by the Delaware BioScience Association.

**Clay Strickland 13AS**, of New Castle, Del., has joined the Delaware office of GSF Mortgage as a loan officer.

**Justin Teesdale 13AS**, of Stratford, N.J., a graduate student in chemistry at the University of Chicago, won the 2014 American Chemical Society Division of Inorganic Chemistry Award for Undergraduate Research, recognizing the work he did at UD with Joel Rosenthal, assistant professor of chemistry. ■

## SEEING DOUBLE (DELS)

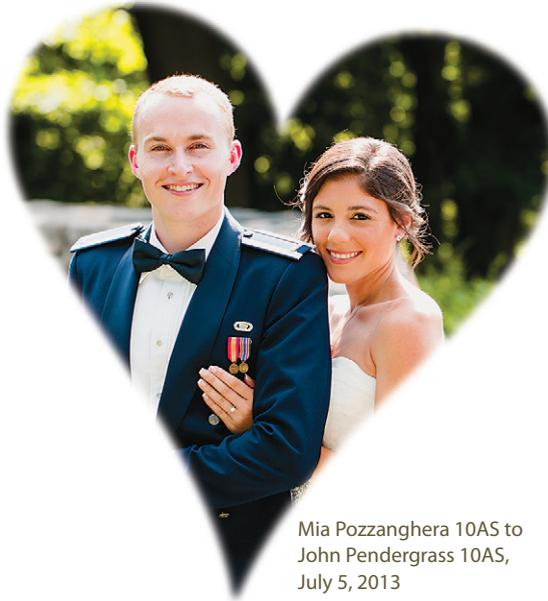


At last count, 455 Blue Hens make New Hampshire their home. Among them are (from left) Greg Pollard, BE89, and Barb Wolffe Pollard, HS90, who got together recently with Karlyn Wesley Supple, HS89, 91M, and Jim Supple, AS90, in Exeter. The four have been friends since their days at UD, where Barb and Karlyn were teammates on the field hockey and lacrosse teams. The Pollards have had their specialty license plate since first moving to the Granite State some 12 years ago. ■

# Commitments



Ariel Adams 02EH to Sean McKean 10AS, April 13, 2013



Mia Pozzanghera 10AS to John Pendergrass 10AS, July 5, 2013



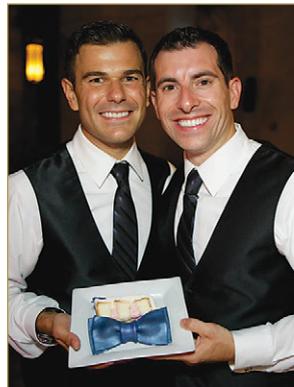
Dina DiEleuterio 07AS to Jason Staley 06EG, July 13, 2013



Erin Johnson 13EH to Sam Sampson, June 27, 2013



Melissa Finger 10BE to Alex Koutek 10AS, BE, Sept. 1, 2013



Michael Pingitore 05EG (right) to Michael Falzarano, July 20, 2013



Christina McKnight 05BE to Steven Crossley 05BE, April 19, 2013



Rayna Horsey 07BE to Willie Mobley 07EH, April 4, 2014



Amanda Fields 09BE to Matthew Axe 07BE, June 6, 2014



Jessica Kelly 09HS to David Christopher 09BE, Sept. 21, 2013



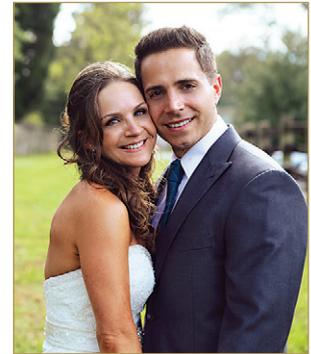
Carmen Emerson 12AG to Chase Lockard, May 17, 2013



Kimberly Neilsen 07EH to Daniel Paladino, Aug. 3, 2013



Margaret Sites 08EH/M to Joseph P. Kite IV, April 4, 2013



Sarah Brumbley 01BE to Jason Czubachowski, Sept. 21, 2013



Nicole Friedman 06EH to Joshua Kramer 03EG, 07PhD, Aug. 11, 2013



Kristyn Noren 08EH to Christopher Dolan, July 6, 2013



Arvind Sabesan 07AS to Richa Shah 07AS, Aug. 2, 2013



Jenna Hurley 09EH to Josh Sauer, Oct. 6, 2013

Lisa Budinic 10HS  
to  
Thomas Sheridan 10HS,  
May 26, 2013

Christina Tarrant 08EH, 11M  
to  
Conrad Pflumm,  
May 13, 2013

Melany Stanford 97AS  
to  
Derek Quinn,  
April 27, 2013

### Attention, newlyweds

Wedding announcements and photos for the *UD Messenger* should be submitted to the Office of Alumni Relations, [alumnet@udel.edu](mailto:alumnet@udel.edu), within one year. Please include the date of the ceremony and the full names and graduation year(s) and college(s) of the bride and groom.

We can accept only digital photos in which the original image is a high-quality jpeg, at least 300 dpi and at least 2-by-2.5 inches, preferably in color.

The *Messenger* will publish as many photos of wedding couples as possible, but due to space limitations and reproduction-quality requirements, we are not able to publish every photo that is submitted. Even if we are not able to use a photo, we will announce the marriage. As part of the University's ongoing sustainability efforts, we will publish only one group photo per issue; every member of the group must be an alumnus, identified by name, college and class year.

We invite you to continue to share such photos, and others, with your fellow alumni at our online community, [www.UDconnection.com](http://www.UDconnection.com).

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Crystal Buck 06AS, 08M married Benjamin Nielsen 09EG, Sept. 28, 2013. Among those attending were, from left, seated, Megan McCue 09AS, Emily (Carpenter) Shick 11AS, Keegan Maguigan 07AG and Brent Shick 09AS; second row, Jessica Washington 06AS, Andrew Piotti 11BE, Rachel Waylett 11EG, Charles Hunt 11EG, Gregory Winter 10AS, Khadir Griffith 06EG, Elizabeth (O'Shea) Griffith 06EH, Max Aaron 07BE, Steven Hill 08AS, Sarah (Allen) Sams 04EH, Cedric Jacob 09EG, Joel Reiner 06BE, Shannon Michelinie 06AS, Ray McCauley 09EG and Nathaniel Measley 06HS, 08AS/M; and back row, Summer Brown 09AS, Crystal, Benjamin and David Drowos 07AS.

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# New Additions



Camryn Elise, born Oct. 14, 2013, to Brittney Hartman Ehrenzeller 06AS and Ken Ehrenzeller 05EG, of Glen Mills, Pa.



Jordan Bryce, born March 24, 2013, to Roberta Honig Jacobs 00EH and Matthew Jacobs, of New Castle, Del.



Timothy Owen, born June 17, 2013, to Leia Hall Nichols 01AS, 03BE and Timothy Nichols 01AG, of Wilmington, Del.



Katie Alexis, born July 30, 2013, to Brandy Bennett Nauman 07AS and Mark Nauman 07EG, of Milton, Del.



Micayla, born June 1, 2013, to Erin Abramowicz 06EH and Ziv Abramowicz 06BE, of White Plains, N.Y.



Luca Thomas, born Aug. 7, 2013, to Lauren Tate 08BE and Tom Tate 07AS, of Langhorne, Pa.



Paige Attallah, born Dec. 30, 2013, to Susan Wolf Eryan 06BE and Pierre Eryan 02BE, of Clifton, N.J.



Janindu Sankalpa, born May 19, 2014, to Lushanti Ariyananda 10AS/PhD and Piyal Ariyananda 10AS/PhD, of Katunayake, Sri Lanka



Jameson Heath, born Sept. 4, 2013, to Stacy Kotch-Jester 03EH, 09/M and Steff Kotch-Jester 00EH/M, of Barrington, N.J.



Steven Matthew III, born Dec. 31, 2013, to Katherine Royce Banaszak 08EH and Steve Banaszak Jr. 08HS, of New Castle, Del.



Alexis Marie and Olivia Grace, born April 2, 2013, to Diane Shepherd Ciccone 00EH and Gregory Ciccone 99EH, of Townsend, Del., with big sister Isabella.

**NEW ADDITIONS**



Owen, born Dec. 2, 2013, to Erin McCarry Callaway 99EH and Joseph Callaway Jr., of Robbinsville, N.J., with big brothers Benjamin and Sean.



Dalton, born March 21, 2013, to Christine Sammaciccia Meers 00EJ and Ryan Meers, of West Chester, Pa., with big sister Stella and big brother Tyler.



Hayes Michael, born Aug. 22, 2013, to Kristin Morgan Conway 01EG and Bill Conway 97EG, of Milford, Del., with big brothers Pierce and Grant.



Frank James IV, born April 29, 2013, to Donna Karos Yesalavich and Frank James Yesalavich III 05AS, of Union, N.J.



Benjamin Charles, born Sept. 17, 2013, to Sara Benjamin Cover and Gregory Cover 98AS, of Toluca Lake, Calif.



Layla Joan, born Oct. 24, 2013, to Meghan Vitale and Stephen Vitale 05BE, of Pearl River, N.Y.



Hudson Ward, born Oct. 9, 2013, to Katilyn Hartstein 09EH and Andy Hartstein, of Salisbury, Md.



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Violet Virginia, born Sept. 27, 2013, to Amy Wieller and David Wieller 02EG, of Easton, Pa., with big brother Vaughn.



Cecily Maryn, born Jan. 3, 2014, to Kerri LaClair 04AS and Jeremy LaClair, of Green Brook, N.J., with big brother Cadden.



Jacoby Charles, born Sept. 26, 2013, to Jill Mermelstein Frendo 01BE and Anthony Frendo 99BE, of Rockaway, N.J., with big brothers Jeremy and Samuel and big sister Amelia.



Holden Michael, born Oct. 7, 2013, to Lara Hughes 02AG and Conor Hughes 02AS, of Dana Point, Calif., with big brother Hendrix.



Andrew James, born Feb. 25, 2014, to Sarah Beebe 09HS and Matthew Beebe 07AS, of Hockessin, Del.



Ethan Brady, born March 20, 2013, to Lindsey Zimmerman 05BE and Thomas Evaristo, of Newark, Del.



Oliver, born Jan. 10, 2014, to Gina Hastings 05AS and Turner Hastings 05BE, of Lewes, Del., with big brother Miles.

.....  
Miles Albert, born Aug. 22, 2013, to Jessie Kaye 05AS and Marco Kaye 02AS, of Hoboken, N.J.  
.....

### Attention, parents

Birth announcements and photos for the *UD Messenger* should be submitted to the Office of Alumni Relations, [alumnet@udel.edu](mailto:alumnet@udel.edu), within one year. Please include the birth date and the parents' graduation year(s) and college(s).

The *Messenger* will publish as many baby photos as possible, but due to space limitations and reproduction-quality requirements, we are not able to publish every photo that is submitted. To have your photo considered for publication, it must meet these minimum requirements:

- Photos must be in color.
- Photos must feature babies wearing UD or Blue Hen attire.
- We can accept only digital photos. The original image file must be a high-quality jpeg, at least 300 dpi and at least 2-by-2.5 inches. If a larger file is available, please send that and we will reduce it as necessary.

Even if we are unable to use a photo we receive, we will announce the new arrival in the "New Additions" section of Class Notes.

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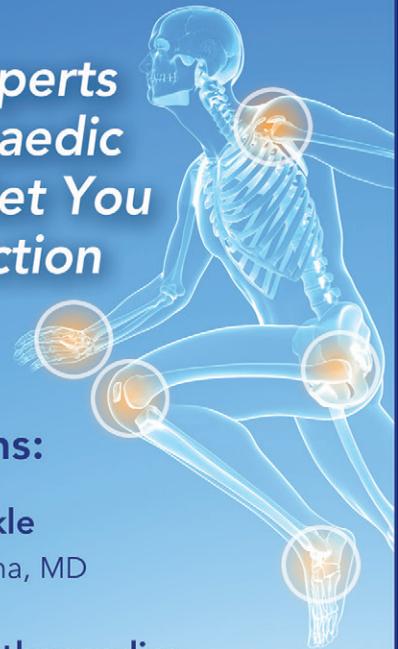
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David K. Solacoff, MD

#### Hand, Wrist & Elbow

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J. Douglas Patterson, MD

Peter F. Townsend, MD, FACS

#### Sports Medicine

Damian M. Andrisani, MD

Bradley C. Bley, DO, CSCS

Brian J. Galinat, MD

Joseph J. Mesa, MD

Douglas A. Palma, MD

Matthew K. Voltz, DO, ATC

#### Total Joints

Steven M. Dellose, MD

James R. Rubano, MD

#### Trauma

Michael J. Principe, DO

# In Memoriam



**Esther Pearson Hynson 30AS**, of Dover, Del., May 18, 2014

**Dorothy Baughman Cooté 35AS**, of Wilmington, Del., July 11, 2014

**Barbara Manser French 35EH**, of Lancaster, Pa., April 20, 2014

**Eleanor Murray Scott 36AS**, of Wilmington, Del., April 8, 2014

**Jeanne Davis Lee 38AS**, of Boynton Beach, Fla., April 11, 2014

**Ruth Kohlbecker Loveless 39AS**, of Placerville, Calif., March 29, 2014

**Dorothy Jones Sapp 39AS**, of Seaford, Del., April 23, 2014

**Blanche Lee Berry 40AS**, of Newark, Del., Jan. 2, 2014

**Genesha Faber Brawer 40AS**, of Riverside, Calif., March 9, 2014

**Mary G. White 40EH**, of Westminster, Md., July 30, 2012

**Lillian Marshall Burris 41AS**, of Milford, Del., April 8, 2014

**Mary Booth Kelly 41AS**, of Camden, N.C., Feb. 12, 2014

**Jane Stephens Dutcher 42AS**, of Cordova, Tenn., March 28, 2014

**H. Raymond McKendrick 42AS**, of Aiken, S.C., Feb. 13, 2014

**Demetra Jones Berger 43EH**, of Fishkill, N.Y., Jan. 29, 2014

**Estelle Edmondson Smith 43AS**, of Lewes, Del., April 29, 2014

**Donald L. Ewing 44AS**, of Seaford, Del., Feb. 16, 2014

**John R. Schabinger 44AG**, of Buckhannon, W.V., Oct. 13, 2013

**R. J. Walton III 44EG**, of Pompano Beach, Fla., March 26, 2014

**Henry M. Winchester Jr. 44AS**, of Wilmington, Del., Dec. 22, 2013

**W. B. Zolper Jr. 44AS**, of Wilmington, Del., March 3, 2014

**C. Gray Friedel 45AS**, of Salisbury, Md., Jan. 6, 2014

**Donald F. Stauffer 45AS**, of Kennett Square, Pa., March 4, 2014

**Stanley Goleburn 46AS**, of Lake Worth, Fla., Jan. 29, 2014

**Richard P. Reed 47AG**, of Wilmington, Del., May 9, 2014

**Daniel J. Bloch 48AS**, of Chester, Conn., Jan. 10, 2013

**Robert J. Gamble Jr. 48EG**, of Poughkeepsie, N.Y., Jan. 8, 2014

**Lewis L. Reign Jr. 48EG**, of Alexandria, Va., Jan. 19, 2014

**Inge Jahn Solomon 48AS**, of Winston Salem, N.C., Feb. 14, 2014

**Reginald N. Gonzalez 49AS/M, 57PhD**, of Olathe, Kan., Feb. 6, 2014

**Joseph G. Hearn 49BE**, of Lutz, Fla., Sept. 22, 2013

**H. Chrzanowski Korup 49AS**, of Wilmington, Del., March 27, 2014

**Richard M. Lagergren 49BE**, of Greenville, Del., May 17, 2014

**Henry L. Maxwell 49AS**, of Glen Mills, Pa., Dec. 23, 2013

**Helen V. McGarry 49AS**, of Alexandria, Va., April 20, 2014

**Charles S. Rowe 49AS**, of Williamsburg, Va., Dec. 18, 2013

**Thomas M. Walsh 49EG**, of Worcester, Pa., May 27, 2014

**Callista McKelvey Barwick 50HS**, of Newark, Del., Dec. 2, 2013

**William E. Bonnet 48EG/M, 50PhD**, of Sautee, Ga., Nov. 29, 2013

**Henry J. du Pont 50AS/M**, of Blairsville, Ga., Feb. 7, 2014

**Doris Dowie Gaertner 50AS**, of Franklin, N.C., April 14, 2014

**Philip C. Genthner 50AS**, of Port Saint Lucie, Fla., March 20, 2014

**Carl W. Hall 50EG/M**, of Arlington, Va., April 18, 2014

**Robert W. Johnson 50BE**, of Glen Mills, Pa., Dec. 31, 2013

**James F. Kearns 50EG**, of Greenville, Del., March 8, 2014

**Louis E. Mattison 50AS/M, 52PhD**, of Bristol, Tenn., April 10, 2014

**Robert A. Stevenson Jr. 50AG, 58AS/M**, of Vancouver, Wash., Nov. 23, 2013

**Albert A. Thorp 50EG**, of Everett, Wash., Dec. 22, 2013

**Marjorie Nuding Vaklyes 50AS**, of Ormond Beach, Fla., Feb. 6, 2013

**Paul F. Berry Jr. 51EG**, of Wilmington, Del., Dec. 10, 2013

**George B. Conner 51AG**, of Sebring, Ohio, April 25, 2014

**Harry T. Decker Jr. 51BE**, of Easton, Pa., Nov. 15, 2010

**Mary Roser Higgins 51HS**, of Seaford, Del., Dec. 29, 2013

**James A. Mearns 51AG**, of Wilmington, Del., Jan. 12, 2014

**Eleanor Rowland Dougherty 52AS**, of Pennsauken, N.J., Nov. 13, 2013

**J. David Jeandell 52BE**, of Claymont, Del., April 9, 2014

**David R. Kirkby 52EG**, of Lakeland, Fla., May 6, 2014

**Ruth Gwynne Dullien 53AS**, of Ithaca, N.Y., March 3, 2014

**Alfred M. Isaacs 53AS**, of Glen Mills, Pa., Feb. 2, 2014

**Mary Bull Livingston 53AS**, of Charlotte, N.C., Jan. 12, 2014

**Joseph P. Massari 53EG**, of Mount Laurel, N.J., May 6, 2014

**Hirsh S. Segal 53AS/M**, of Philadelphia, Pa., Nov. 23, 2013

**Carolyn Dickerson Burton 54EH**, of West Grove, Pa., Feb. 5, 2014

**Don H. Lewis 54AG**, of Milford, Del., Feb. 26, 2014

**Jo Anne Yerkes Nagel 54EH**, of Federalsburg, Md., April 24, 2014

**John D. Pugh 54AG**, of Dover, Del., May 16, 2014

**Arthur R. Vande Poele 54AG**, of Fenwick Island, Del., May 7, 2014

**Anthony J. Candeloro 55AS**, of Newark, Del., March 25, 2014

**Francis L. McCarthy 56AS/M**, of Philadelphia, Pa., Feb. 16, 2014

**William W. Metzger 56EH/M**, of Wyomissing, Pa., April 14, 2014

**Thelma Ross Sandish 56EH**, of Oregon, Ohio, April 29, 2014

**Ann Barrowclough Steinouer 56AS**, of Pittsburgh, Pa., June 19, 2014

**Ferdinand C. Susi 56BE**, of Darien, Ill., April 30, 2014

**Richard J. Williams 56EH/M**, of Harrisonburg, Va., Jan. 21, 2014

**Bruce F. Dietrich 57AS/M, 60PhD**, of Lancaster, Pa., Jan. 9, 2014

**Thomas P. Murphy 57EG**, of West Chester, Pa., March 10, 2014

**Judith Oliver Thompson 57AS**, of Oxford, Pa., March 28, 2014

**George Y. Tice 57EG**, of Gold Beach, Ore., March 4, 2014

**Harry C. Veale 57BE**, of Lawrenceville, N.J., Jan. 7, 2014

**John W. Watjen 57EG/M**, of Wilmington, Del., Jan. 9, 2014

**Audrey Mitchell Williams 57EH**, of Newark, Del., Jan. 16, 2014

**Mary A. Dennis 58AS, 58EH/M**, of Wilmington, Del., April 2, 2014

**George S. Howard 58EG/M**, of Charlottesville, Va., March 5, 2014

**Natalie Rand McFadden 58AS**, of Santa Barbara, Calif., Dec. 15, 2013

**William R. Stubbs 58AS, 72M**, of Elkton, Md., May 1, 2014

**Marlene Griffith Auen 59AS**, of Dover, Del., Dec. 6, 2013

**Margaret Gandy Dorsey 59AS**, of Levittown, Pa., Dec. 31, 2013

**Correction:** The April edition of the *Messenger* erroneously reported the death of Barbara Pomeranke James 82HS, of Richmond, Va., based on incorrect information UD received from the Postal Service. We regret the error.

**Update:** The April edition contained an alumni news item about Robert and Ruth (Kohlbecker) Loveless, both Class of 1939, who were the University's oldest "Double Del" couple. Shortly after the magazine went to press, we received the sad news that Mrs. Loveless died on March 29 in Placerville, Calif. ■

**Robert W. Hamilton 59AS**, of Kernersville, N.C., April 27, 2014

**Kemper Stone Jr. 59AS**, of Newark, Del., March 22, 2014

**Thomas R. Elsmar 60BE/M**, of Kennett Square, Pa., Feb. 20, 2014

**Neal F. Warrington 60AG, 67M**, of Dover, Del., Jan. 31, 2014

**Maryjo Haverbeck 61EH**, of State College, Pa., Jan. 6, 2014

**Arthur W. McDaniel 61EH/M**, of Jackson, Maine, Dec. 23, 2013

**Robert C. Faison 62EG**, of Ridley Park, Pa., Dec. 20, 2013

**Walter J. Hoey Jr. 62AG**, of Milford, Del., March 31, 2014

**Harvey L.W. Pierson 62EG**, of Newark, Del., Jan. 27, 2013

**Constance Raymond Plunkett 62EH/M**, of Middlebury, Vt., May 20, 2014

**Robert A. Rosengren 62AG**, of North Palm Beach, Fla., April 2, 2014

**Thomas D. Schonauer 62AS**, of York, Pa., Jan. 3, 2014

**Cynthia Kinahan Dustin 63EH/M**, of Virginia Beach, Va., April 9, 2014

**Claire Plunguian Gilbert 63AS/M**, of Bethesda, Md., Nov. 6, 2013

**Robert S. Marianelli 63AS**, of Columbia, Md., Dec. 22, 2013

**Florence Helfrecht Williams 63AS**, of West Chester, Pa., May 7, 2014

**J. Richards Wood 63AG, 69EH/M**, of Millsboro, Del., March 30, 2014

**Paul H. Chesmore 64AS**, of Dallas, Texas, May 4, 2014

**Carroll V. Cline 64EH/M**, of Berlin, Md., April 8, 2014

**Phyllis Berger Schweidel 64AS/M**, of Wilmington, Del., Dec. 24, 2013

**Mary Growney White 64AS**, of Glen Mills, Pa., Feb. 27, 2014

**James N. Christini 65EG/M**, of Towanda, Pa., March 2, 2014

**Corey W. Ericson 65AS/PhD**, of Waynesboro, Va., March 23, 2014

**John H. Knox 65EH/M**, of Wilmington, Del., March 1, 2014

**Ernest D. Lamborn Jr. 65EH/M**, of Newark, Del., Nov. 23, 2013

**Charles F. Moyer 65BE**, of Laurel, Del., May 11, 2014

**Edward A. Rohrbaugh 65AS**, of Newark, Del., March 11, 2014

**Rita Ucciferro Claricurzio 66EH, 86M**, of Hockessin, Del., May 29, 2014

**J. Thomas Donohue III 66AS**, of Asheville, N.C., May 4, 2014

**Jeanne Pastorino Gardner 66EH/M**, of North Branford, Conn., March 1, 2014

**Donald W. Helmuth 66AG, 78PhD**, of Needham, Mass., Jan. 10, 2014

**Jane G. Anderson 67AS**, of Wilmington, Del., Feb. 17, 2014

**Mary Millman Argo 67EH**, of Milford, Del., Jan. 27, 2014

**John E. Gardner Jr. 67AS/PhD**, of Lancaster, Pa., Dec. 19, 2013

**Marvin H. Hummel 67AS/M**, of Newark, Del., May 23, 2014

**W. Scott Peavler 67AS/M, 69PhD**, of San Jose, Calif., Jan. 8, 2014

**Alfred T. Saleh 67BE**, of Macungie, Pa., March 21, 2014

**David J. Schafer 67BE/M**, of Fair Oaks Ranch, Texas, Dec. 16, 2013

**Michael J. Swierczewski 67AS, 68M**, of Severn, Md., March 25, 2014

**Gary W. Ver Strate 67AS/PhD**, of Port Saint Lucie, Fla., March 16, 2014

**Orin W. Marks 68AS/M**, of Wilmington, Del., April 26, 2014

**Lesley Hall Reach 68EH**, of Newark, Del., Feb. 21, 2014

**Richard W. Small 68AG**, of Baltimore, Md., April 4, 2014

**Jerry L. Webb 68AG/M**, of Elkton, Md., March 6, 2014

**Nancy Ayers Hopkins 69EH/M**, of Newark, Del., March 25, 2014

**Diane Kosek McNevech 69HS, 78M**, of Bolivia, N.C., Feb. 9, 2014

**Leroy W. Scarborough 69BE**, of Wilmington, Del., April 14, 2014

**Norman H. Wallace 69BE**, of Hockessin, Del., Feb. 11, 2014

**James W. Brown 70AS**, of New Castle, Del., April 24, 2014

**Ellen Devine Goodell 70AS**, of Wilmington, N.C., Oct. 2, 2013

**Michael M. Sinclair 70AS/PhD**, of Louisville, Ky., March 14, 2014

**Susan Smith Arpad 71AS/M, 75PhD**, of Wadsworth, Ohio, April 7, 2014

**Margarita Fonts Butler 71AS**, of Key Biscayne, Fla., April 2, 2014

**Gregory E. Spey 71BE, 75BE**, of Youngstown, Ohio, March 4, 2014

**Clifton W. Cooke Jr. 72EG/M**, of Lincoln, Maine, Dec. 21, 2013

**Priscilla Swartley Glenn 72AS/M**, of New Castle, Del., April 26, 2014

**Rene C. Pauley 72AS**, of Wilmington, Del., Jan. 9, 2014

**John E. Blyskal 73BE, 76M**, of Newark, Del., April 26, 2014

**Denzil T. Clifton 73AS/PhD**, of Windsor, Colo., Dec. 3, 2013

**Steven M. Galaton 73EG**, of Doylestown, Pa., May 7, 2014

**Lillian Kennedy Haase 73AS**, of Wilmington, Del., April 8, 2014

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## Faculty

**John E. Dohms**, a professor of animal and food sciences for 32 years until his 2009 retirement with the rank of professor of microbiology of infectious diseases, whose research focused on the pathology of avian disease. Missing from his home since Sept. 13, 2012, his death was confirmed on Feb. 28, 2014.

**Thomas Albert Lathrop**, professor emeritus of Spanish, who was a member of the UD faculty from 1980 until his retirement in 2006, led and initiated study abroad programs in Spain, Paris and Brazil, authored 19 books and edited a number of editions of Spanish and French classics for English-speaking readers, Feb. 17, 2014.

**Chuck Stone**, professor of English at UD from 1984–91; a writer and editor for the *Philadelphia Daily News*, where his columns denouncing racism, police brutality and political corruption earned him a national reputation; and recipient in 2000 of the University of Delaware Medal of Distinction, April 6, 2014. ■

**Robert F. Jaep 73AS**, of Sicklerville, N.J., Jan. 9, 2014

**Robert D. Athey Jr. 74AS/PhD**, of El Cerrito, Calif., Feb. 5, 2013

**Joanne Foy DiBiase 74EH/M**, of Kennett Square, Pa., Feb. 11, 2014

**Christopher P. Fortugno 74BE**, of Hockessin, Del., Feb. 9, 2014

**Fred M. Macon 74AS/PhD**, of Rochester, N.Y., Jan. 1, 2014

**Mark E. Rogers 74AS**, of Newark, Del., Feb. 2, 2014

**William M. Mahoney 75AS**, of Buckhannon, W.V., Dec. 16, 2013

**Michael J. McCabe Sr. 76BE**, of Wilmington, Del., March 13, 2014

**Samuel B. Miller 76AS**, of Chadds Ford, Pa., May 19, 2014

**John J. Snyder Jr. 76AS/M**, of Washington Boro, Pa., Dec. 28, 2013

**Betty Hill Wharton 76AS**, of Willow Street, Pa., Oct. 3, 2013

**Jean Reddin Baca 77HS**, of Ivyland, Pa., May 6, 2014

**Steven J. Hanson 78BE**, of North East, Md., March 27, 2014

**Carolyn Cap Kozma 78AS/PhD**, of Wilmington, Del., Jan. 22, 2014

**Vivian Kendall 79AS**, of Olympia, Wash., Dec. 9, 2013

**Thomas D. Mitchell 79AS, 79EG**, of Greenville, N.H., Dec. 20, 2013

**Frances Flamer Unthank 79AS**, of Wilmington, Del., March 31, 2014

**Jan Luttrell Hyatt 81EO**, of Lancaster, Pa., April 15, 2014

**Catherine Vaeth Young 81HS**, of Beverly, N.J., April 23, 2014

**Mary C. Allen 82AS**, of Gorham, Maine, April 29, 2014

**Suzanne McNally Flockhart 82HS**, of New Bern, N.C., March 8, 2014

**Barbara Krinsky Lee 82HS**, of Dayton, Md., Feb. 11, 2014

**Pax T. Williams 82AS, 85AS**, of Kennett Square, Pa., May 24, 2014

**Gregory J. DiLiello 83AS**, of Farmingdale, N.Y., March 2, 2014

**Christian Knaak 83AS**, of Ladson, S.C., Jan. 26, 2014

**Scott W. Grimm 84AS**, of Holliston, Mass., June 1, 2014

**Jonathan W. Kamen 84AS**, of Wilmington, Del., Dec. 20, 2013

**Anthony J. Burton 85BE/M**, of Wilmington, Del., Feb. 9, 2014

**Susan A. Maros 86BE**, of Bronxville, N.Y., May 22, 2014

**Frederick P. Moran 86EH/M**, of Islip, N.Y., March 27, 2014

**James H. Beatson Jr. 87AG**, of Wilmington, Del., March 24, 2014

**Jane Blumgarten Miller 87BE/M**, of New Castle, Del., March 19, 2014

**Nancy E. Packer 89AS/M**, of New Bern, N.C., Dec. 25, 2013

**Robert E. Frankfurt 91AS**, of Georgetown, Del., Jan. 26, 2014

**Edward J. Quigley III 91EG, 94HS/M, 99PhD**, of San Marcos, Calif., Nov. 18, 2013

**Louise Jeffress Shaw 91EO**, of Greenville, S.C., Feb. 21, 2014

**Amy Furman Ames 93BE**, of Lake Mary, Fla., Feb. 28, 2014

**John M. Scharp 96AG**, of Hockessin, Del., April 13, 2014

**Tricia Garrow Martin 97AS**, of Camden Wyoming, Del., April 12, 2014

**Evan D. Jones 98EG**, of Springtown, Pa., March 8, 2014

**Emily L. Jarvis 99AS**, of Woburn, Mass., July 8, 2013

**Jose M. Barotti Jr. 00AS**, of Lititz, Pa., March 20, 2014

**Maria Rybarczyk Williams 00BE/M**, of Avondale, Pa., April 23, 2014

**Kristal Collins Olowolafe 01AS**, of Greenville, Del., May 19, 2014

**Jennifer Horenburger Mauk 02AS**, of Wilmington, Del., Feb. 27, 2014

**Ann E. Luquette 05EH/M**, of Elkton, Md., March 14, 2014

**Jyoti S. Kulkarni 07AS/PhD**, of Saint Joseph, Mich., March 11, 2014

**Michael P. Diglio 08AG**, of Glen Ridge, N.J., May 1, 2014

**Alexandra Cremer Sees 09HS/M**, of Seattle, Wash., Jan. 3, 2014

**Jo A. Tobin 09EO**, of Chestertown, Md., Feb. 26, 2013

**Justin Griffiths 12BE**, of Hoboken, N.J., March 16, 2014

**Peter A. Layton 12AG**, of Ellendale, Del., Dec. 25, 2013 ■



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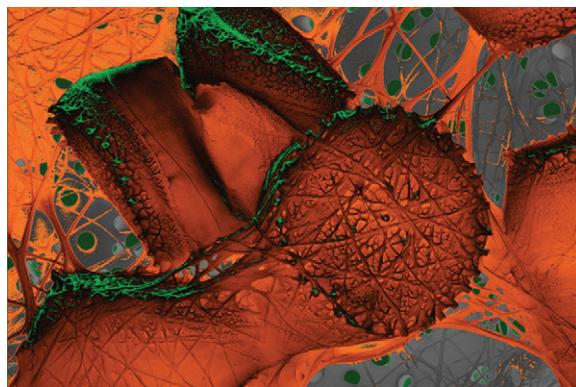
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**Merging art and science**



GERALD POIRIER

The University of Delaware is now an affiliate member of Leonardo/The International Society for the Arts, Sciences and Technology.

Inspired by the late Frank Malina, co-founder of the Jet Propulsion Laboratory and an active participant in rocket science development during World War II, Leonardo serves a virtual community of artists, scientists, researchers and thinkers from top universities and nonprofit museums and research centers around the world through its programs focusing on interdisciplinary work, creative output and innovation.

UD Deputy Provost Nancy Brickhouse says the University's participation in Leonardo is an outgrowth of the first "Art and Science: Connections and Intersections" symposium held last April in the Interdisciplinary Science and Engineering Laboratory (ISE Lab) on campus.

"To address 21st-century challenges, University faculty increasingly are working where disciplines intersect," Brickhouse says. "Leonardo offers a new avenue for networking and sharing research, best practices and events in art, science and technology, building interdisciplinary connections."

Gerald Poirier, who recently joined UD as manager of the Advanced Materials Characterization Laboratory in ISE Lab, says Leonardo motivated him to help support and grow "Art of Science," an annual exhibition at Princeton, where he previously worked. He's thinking about organizing a similar event at UD.

"It merges the mathematics of visually imaging things to the aesthetics of art," Poirier says of the event, which began in 2005 and continues today. "It fosters this conversation that normally wouldn't be held and is a neat way to involve undergraduate and graduate students from different fields."

In the photo above, Poirier used a Quanta 200F Environmental Scanning Electron Microscope to capture a microscopic phytoplankton called a diatom. The instrument allows users to see nanostructures in their native state with extraordinary three-dimensional clarity. Colors were added to the original black-and-white image. ■



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