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MESSENGER
VOLUME 22 | NUMBER 3



Presidential perspective

A profile of Patrick Harker

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University President Patrick Harker shares his views on the future of higher education in general, and of UD in particular, and also offers some personal and professional insights into the challenges and rewards of leadership.

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The University’s signature art conservation programs and expert faculty have an international reputation for preparing the next generation of professionals who will play key roles in preserving our cultural heritage.

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Alumna Lolita Lopez has been at the helm of Westside Family Healthcare for nearly 25 years, leading the nonprofit as it provides comprehensive care throughout Delaware and working tirelessly as an advocate for underserved families and communities.

Cover photo by Kathy F. Atkinson



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WEB EXTRAS



Catch up on Blue Hen football and other fall sports, look ahead to Blue Hen basketball, and follow all varsity sports news at www.bluehens.com



To see an interactive diagram of how researchers developed your smartphone, visit www.udel.edu/002373 and pay particular attention to UD’s contribution to the touch-screen technology.



As 2014 marks the 100th anniversary of the founding of the Women’s College of Delaware, UD students have created a series of blogs looking at women’s education, then and now, at <http://sites.udel.edu/women100yrs/>



CENTER FOR POLITICAL COMMUNICATION

Looking for some political humor? Watch a video of Frank Lesser of *The Colbert Report* speaking on campus as part of the National Agenda series at www.udel.edu/002363



Delaware will shine!

Memorial Hall glows on The Green after the Twilight Induction Ceremony for new students in late August. The banners adorning the front of the building display the words to the Fight Song, including: "When the sun goes down, and the moon comes up, Delaware will shine."

Photo by Evan Krape



FROM OUR VICE PRESIDENT OF DEVELOPMENT AND ALUMNI RELATIONS

Alumni engagement is paramount to the success of a university and its advancement. UD is no different. Your participation in the life of this institution is one of our top priorities. We want to know you. We want to welcome you back to campus. We want you invested in the future of your alma mater. *Messenger* magazine is an integral part of this mission. Through this publication, we share with you not only stories about your fellow alumni, but also daily strides the University is taking in the areas of education, research and teaching.

I've had the opportunity to work with President Harker for the last seven years, and in that time I've learned that his vision for UD is big and it is inspirational. You can't walk around campus without noticing some of his vision actualized—in state-of-the-art buildings, in new residence halls, in an entire campus devoted to hands-on, collaborative learning. Within those spaces are classrooms, technologies, students, professors—individuals—who are defining what these areas mean and, in the process, redefining the entire University.

In his own words, in our collection of photos and in a Q&A with UD's very own best-selling author and professor Mark Bowden, we share with you his perspective on higher education, the University of Delaware and his role as president.

It's an exciting time for UD, and we're thrilled to share some of that excitement with you in this issue of *Messenger*.

We feature our 40-year-old graduate program in art conservation that teaches students the techniques for preserving some of the most iconic markers of our cultural heritage—from original works of Picasso



to Dorothy's ruby slippers. You'll also read about our student-operated gourmet restaurant, Vita Nova, which is newly renovated thanks to a generous gift in honor of a recent alumna of the Hotel, Restaurant and Institutional Management program. And, of course, you'll read updates on your fellow Blue Hens, including career successes, marriages and baby Hens!

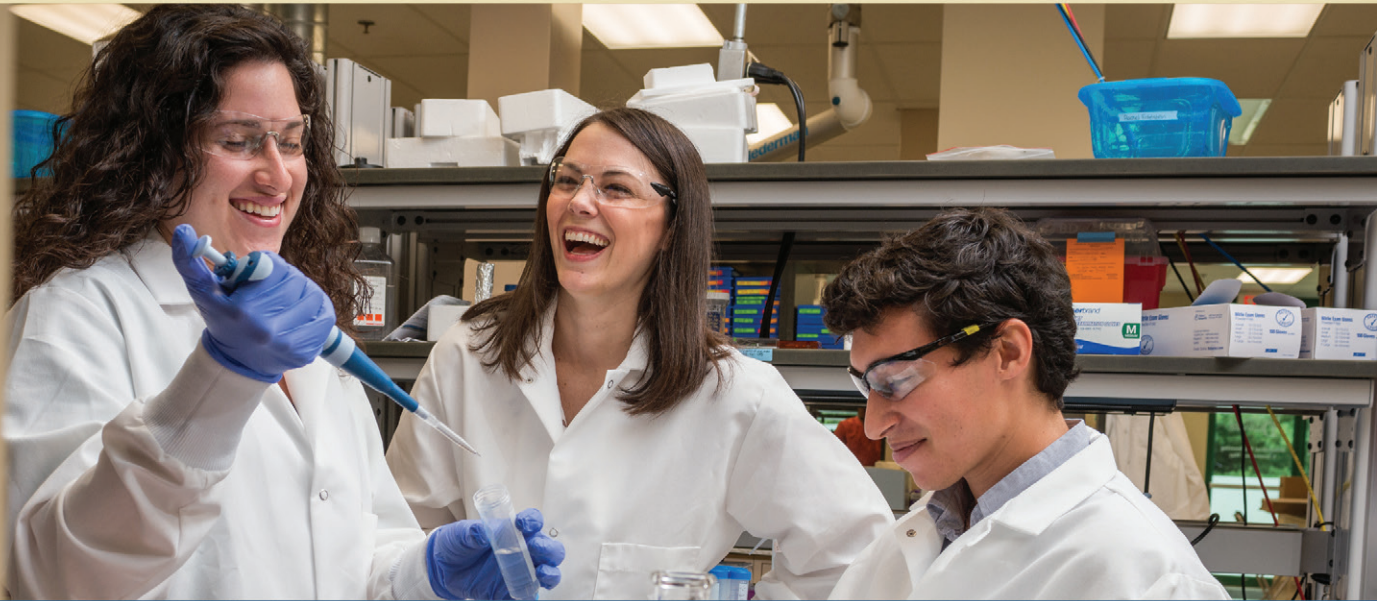
This magazine is all about keeping you connected, from our class notes to our alumni profiles. We want to keep you informed, but even more, we want to keep you excited. And above all, we want to keep you engaged. As we look ahead, we know that our greatest strength is in our people, in this incredible community. Together, we do incredible things!

Monica M. Taylor

Vice President, Development and Alumni Relations

THANK YOU

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KATHY F. ATKINSON

Making Sense of Higher Education's Future

An excerpt from Patrick Harker's upcoming essay published in *Service Science*

This year, the University of Delaware attracted one of the largest, most diverse and most academically talented applicant pools in our history, evidence that top-notch students and their families recognize the value of a UD education. Our research enterprise is world-class and growing, and our partnerships give students vital hands-on experience to help them succeed in their careers. Fundamental challenges, however, lie ahead for UD and all universities. In this condensed excerpt from a forthcoming journal article, Harker explores the forces confronting universities and lays out a likely path of change.

The cost of higher education is being criticized from all quarters. Enrollment is declining, government help is headed in the same direction, and an increasing number of applicants need financial aid. Some commentators feel that moderate reforms over time would address the problem, while others, and I include myself in this group, feel that the modern university needs significant change. We need to rethink both our mission and our methods.

Why does this debate matter? The university has historically played a crucial role in shaping our society, preserving our culture and, increasingly, driving innovation in all disciplines. Despite its current problems, the university remains the critical rung on the ladder to the middle class in this country and is increasingly so in developing countries all over the world. Even as the number of college-age students in America declines, worldwide demand for a university education grows and grows.

All colleges and universities are pitching the promise of critical skills to learn how to learn for a lifetime; this is their value proposition. So how are we doing on designing the university to deliver it?

Consider the typical college campus. Classes are scheduled three days a week for an hour each day, twice a week for one and a half hours, or once a week in three-hour blocks. Room assignments are optimized to fit these scheduled slots. In sum, the entire system on a college campus is designed to optimize teaching.

Instead of engineering teaching-efficient factories, we need to engineer learning-efficient ones.

Before we dive into the daunting task of becoming learner-centric by re-engineering processes, let's first ask the question of what we want the students to know.

To answer this question, consider the recent book by Erik Brynjolfsson and Andrew McAfee entitled *The Second Machine Age*. In a provocative chapter, they ask the question that we as humans are often afraid to ask: Namely, what do humans do better than computers today and in the foreseeable future?

They refer to the ability of humans to come up with truly new and useful ideas, "out of the box ideas" as it were. Recognizing the interaction of the complex technical, cultural, economic, social and political aspects of a situation (i.e., seeing the "big picture") is what they mean by large-frame pattern recognition, and computers are simply not very good at putting all these pieces together. Lastly, machines still have a long way to go before they can understand all of the nuanced verbal and nonverbal communications that humans conduct effortlessly.

First, the curriculum, at least the core and possibly more, will need to be designed and not left to either the political wheeling and dealing of the faculty or historical inertia. It will need to focus more than ever on the critical skills outlined by Brynjolfsson and McAfee.

And scale is the second key aspect of the curriculum. In order to get costs under control, we need to achieve economies of scale and not deliver the entire curriculum via a series of boutique courses.

Presidents, provosts and deans come and go; the faculty need to own and drive this change, and need to be convinced that the forces of change discussed herein are, in fact, real.

Universities are vital to our societies, and we need to act decisively to assure their long-term sustainability. We are well past the need to define the problem, and we simply do not need any more heated rhetoric pointing out the issues that universities face today and in the future. What we need is a plan of action and the will and resources to make these changes a reality. ■



KATHY F. ATKINSON

10 Questions *with* President Patrick Harker

Patrick Harker arrived at the University of Delaware in July 2007 and hit the ground running. From a strategic plan that led the University on a *Path to Prominence* to a campus expansion that is changing the face of UD, Harker is focused and energized about elevating both the image and the trajectory of the University.

Best-selling author and Distinguished Writer in Residence Mark Bowden recently sat down with Harker to learn more about the man behind the University and his outlook on all things UD.

1 | Your History

MB: Tell me about your childhood. What did your folks do when you were growing up?

PH: I grew up in Gloucester City, New Jersey, a town at the end of the Walt Whitman Bridge. I was the youngest of three. My father was a pipefitter. My whole family was pipefitters—welders and pipefitters. I can still sweat a pipe, and I can still do a little welding, if I need to! Anyway, my father was ill for several years. When I was 9, he passed away. My mother, who was a stay-at-home mom at the time, got a job in the city tax

office. She was there for many years. I think she chose that because it was a nice stable job, plus it was close to our school, so if something happened she was always there. She still lives in the house I was born in.

2 | Outside of the Office

MB: What is your favorite hobby?

PH: An old neighbor of mine got me into woodworking. I've always liked working with my hands. It's a way that I can

relax, and I like building things. So I guess I'm an engineer at heart, right? I've made everything from our bedroom set—the whole bed and nightstand—down to little gifts for people. I made our Adirondack chairs and customized lamps that look like the lifeguard stands in Ocean City, New Jersey.

3 | Our Past

MB: You have been president for over seven years now. How has the University—and the perception of it—changed since then?

PH: The University's reputation was rising before I arrived. In my time here, we've been working to enhance our visibility externally so more people know about us and the achievements of our faculty and students. Just as we're dedicated to improving the quality of what we do, we're also looking for every opportunity to tell people what we're doing—including getting our alumni more engaged and active. Also, we are now known as a real value in higher education. When families ask, "Where can I get a high-quality education at a reasonable cost?" Bam! University of Delaware.

4 | Our Present

MB: Are you happy with where we are right now at the University?

PH: I'm happy but not complacent. Author Tom Friedman has this interesting line that rattles around in my head. He said to "act like an immigrant." He meant that most immigrants who come to this country are paranoid optimists. I love that. They are paranoid because they don't know if it's all going to work out, but they are optimistic because that's why they came here. I think that's exactly how you have to manage a university. You have to be optimistic about what we're doing with this next generation flowing through our halls. They're an incredible group. But you have to be a little paranoid, too, about those changes, those forces that are upon us and how we adapt to them.

5 | Our Future

MB: What does the future look like for UD?

PH: I see that as being a big part of my role. The day-to-day keeping the trains running—there is a great team of people here to do that. My role is about looking further ahead and making sure the University is well positioned for our future. That includes building a system that is flexible and adaptive. You're not going to be able to perfectly predict the future. So you need to have agility in order to seize those opportunities when they come. We need to make sure the education we're providing to this next generation of students is going to serve them throughout their lifetimes. There are changes underway in technology that are impacting all facets of life. Are our students ready for that? Are we spending enough time making sure students are true critical thinkers? Are they adaptable? Are they resilient? Are they agile—mentally, intellectually, emotionally agile—so they can adapt to these things?

“My role is about looking further ahead and making sure the University is well positioned for our future.”

6 | Philanthropy

MB: I know you're in the early stages of a major fundraising effort. What is the goal of the campaign?

PH: The goal is really threefold. One is to actively re-engage the alumni in the life of the institution. We need them not only for philanthropic support but also to open doors, whether it's for faculty research or internships or jobs for students. It's thinking about how they can connect and give back. Second, this campaign will set the University up for a different future. The goal is not just to raise money; it's to create a culture of support that will maintain and build momentum long after this campaign is over. The third piece is that we have some critical needs for student scholarships, endowed professorships, facilities, new programs and more.



EVAN KRAPE

7 | Faculty Research

MB: Faculty research is a big priority for UD. What are the big strides we've made in this area in the last few years?

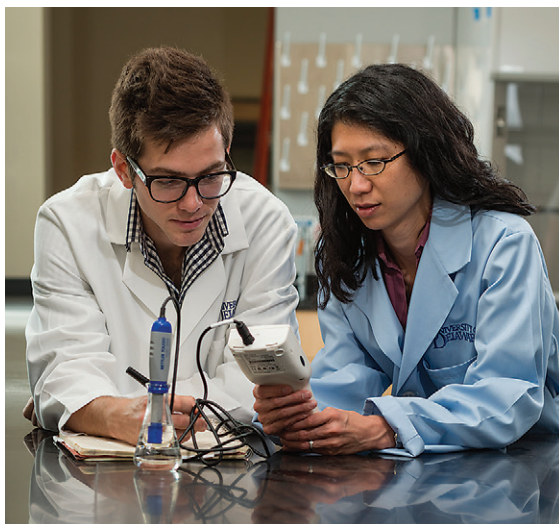
PH: Our sponsored research dollars have jumped dramatically. I give the faculty tremendous credit. In an era of declining federal support for research, we're growing. Faculty are great at what they do, but there is a lot of "great" out there. You have to have more. What that is is hustle—being really willing to work hard and to compete. Today, we are at about \$138 million in sponsored research at UD, up 33 percent since 2008. Acquiring the STAR Campus site was a game-changer. It allows for University research and development to spin off into entrepreneurial and business

efforts. It also gives our students real-world opportunities to do internships without going very far. Increasingly, employers want to know students can get something done. But really the only way you can prove you can get something done is to have done something. Students are getting a great educational experience that's not in a traditional classroom.

8 | New Development

MB: The ISE Lab is such a big showcase for the integration of research and teaching. Why was it important to build?

PH: The Interdisciplinary Science and Engineering Laboratory is important for several reasons. It's the first new science building here in over 20 years. It gave us an opportunity to really highlight what the University has been doing and has led for decades now—which is problem-based learning. Dean George Watson and his colleagues in the College of Arts and Sciences have not only been doing it; they've been studying it. We know it works. So this gave us an opportunity to create a really different environment to teach not just the sciences but all classes, including humanities and social sciences. It's truly interdisciplinary. On the research side, if we're going to maintain the University's strength in the STEM disciplines—and as a result the state's strength in these disciplines—we needed to add that research capability.



KATHY ATKINSON

9 | Government Relations

MB: Congratulations on your new position with the Department of Homeland Security! What is your role?

PH: It is a two-year appointment to the Homeland Security Academic Advisory Council. We are there to give advice to the secretary on a variety of issues. One of the committees I'm on is cybersecurity. And again not only in terms of cybersecurity for universities, but how universities are developing programs and so forth to meet the growing need for cyber professionals in the country. This is a natural for us. We launched the UD Cybersecurity Initiative to become a significant hub for bringing together the government and the private sector in solving not only the technical issues, but the policy issues as well. We want to make a major push in this area, so we might as well be involved in setting the priorities.



10 | Being President

MB: This is your first university presidency ... maybe your last. [laughter] What is something that you would not have anticipated?

PH: The pace. Beyond policy and projects, it's just the pace. It's a very public, 24/7 kind of job. I remember walking into the Acme on Elkton Road during my first month here. As I turned the corner with my cart, a woman was standing there and dropped a glass bottle when she saw me. She started stammering, "What are you doing here?" I said I was shopping. "You shop?!" That is when I realized how public I was! In Delaware, given the prominence of the University, you're very recognizable.

One Last Thing...

MB: So if it comes down to Biden and Christie, who are you voting for?

PH: [laughter] That's a good question. Well, from the moment I walked into this state and registered to vote at the DMV, I have been a registered independent. So you'll just have to wait and see. ■

Look for more 10 Questions features in upcoming issues of the *Messenger*.



Mark Bowden is a best-selling author and journalist, best known for his 1999 book *Black Hawk Down*. He is the author of nine other books, and writes for *Vanity Fair* and *The Atlantic*, frequently about national security issues, international affairs, science

and pro football. He is at work on a pilot script for an AMC-TV series about his early years as a reporter for *The Philadelphia Inquirer*, where he worked for 30 years. He is now Distinguished Writer in Residence at UD. Mark and his wife, Gail, have five grown children and two granddaughters. ■



Presidential Perspective

The day-to-day duties of a university president are often a mystery to alumni, students, parents and friends. Here, we lift the curtain with a snapshot of the everyday responsibilities of President Patrick Harker as he runs the University and creates a vision for the future of higher education.



A. *"I always will consider myself a faculty member before anything else."*

Talking with an engineering professor in the lobby of the Interdisciplinary Science and Engineering Laboratory.



B. *"We need to make sure that we're providing this next generation of students with an education that is going to serve them throughout their lifetime."*

Attending Executive Committee meeting with University leadership.



C. *"At every football game, I try to go into the student section for a quarter and hang out with the students."*

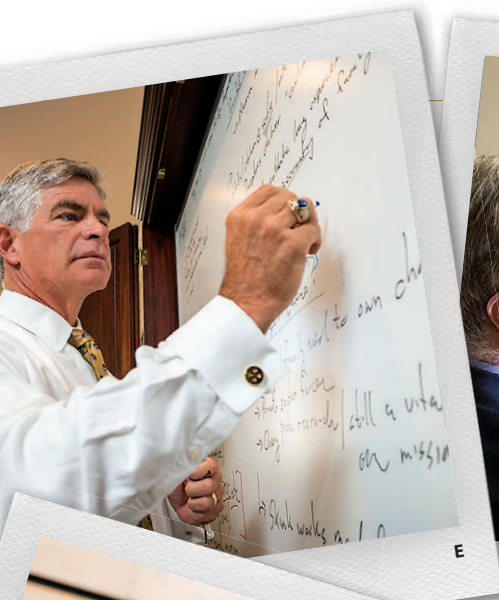
Cheering with fellow UD fans at a home football game.

D. *"We need our alumni and friends not only for philanthropic support – we need them to open doors."*

Talking with friends at the R&B Lounge during Alumni Weekend 2014.

E. *"My role is about looking further ahead and making sure the University is well positioned for our future."*

Working at his office white board on a new paper about the future of higher education.



E



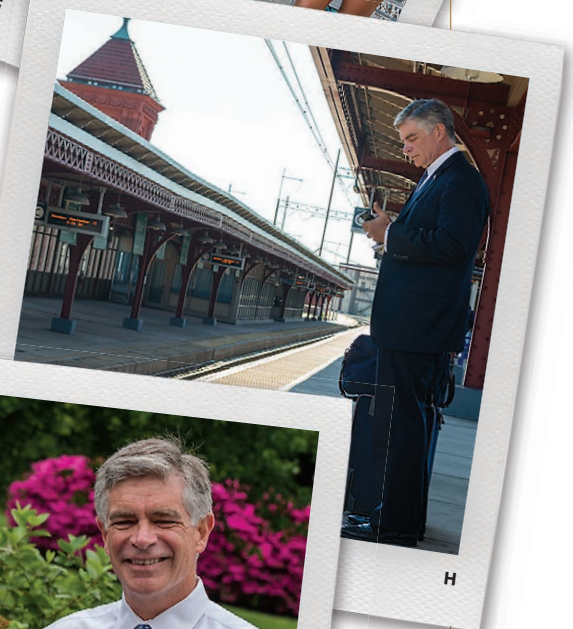
F



G



D



H



J



I

F. "It's not just about improving the quality of what we do, but telling people about it."

Sitting for a press interview with a radio station in southern Delaware.

G. "This is a generation unlike any other. They are going to be extremely adaptable because the world they're inheriting is far from certain."

Dropping in on a freshman experience class gathered outside during a fall day on campus.

H. "Universities are playing an increasing role in the economic health of our country."

Waiting for the Amtrak train to Washington, D.C., at Wilmington Train Station. Harker makes frequent trips up and down the East Coast on behalf of UD.

I. "Students are getting a great educational experience at UD that's not always in a traditional classroom."

With a UD undergraduate, posing for the "high-five" challenge with the president.

J. "You just have to get ready for the pace. Beyond policy and projects, it's just the pace. It's a 24/7 kind of job."

Retiring to his residence on campus at the end of the day.

PHOTOS BY KATHY E. ATKINSON, MARK CAMPBELL, EVAN GRAPE AND KEVIN QUINLAN



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KATHY E. ATKINSON

New students join the
Twilight Induction
Ceremony.

Newest students bring talent, diversity to campus

Members of the Class of 2018—more than 4,000 students selected for admission from a near-record number of applicants—arrived on the UD campus in late August to begin their academic careers and Blue Hen experiences.

“Our fall recruitment efforts produced the second-largest applicant pool in UD history, at 26,461, a 2 percent increase over last year,” Jose Aviles, director of admissions, told the University’s Board of Trustees in a May report on the Class of 2018. Applicants came from 48 states and 82 countries, including over 3,000 applicants from Delaware, he said.

“Our story this year is one of extraordinary change,” Aviles said. “I believe our new direction has set the foundation for us to continue our journey in the interest of achieving greatness.”

Globe-spanning efforts included first-time recruiting visits to India and Pakistan, with continuing efforts in the Middle East, Latin America and Canada. The result was a 43 percent increase in domestic applications and a 61 percent rise in international applications.

Diversity efforts included reaching out to low-income, first generation students, as well as the most talented international applicants, Aviles said.

Of the 4,179 freshmen on campus this fall, 26 percent are members of minority groups. The class includes 1,264 Delaware residents; 92 percent of in-state applicants were offered admission to UD, 70 percent to the Newark campus.

When this year’s new Blue Hens arrived on campus, they found students, faculty, staff and administrators on hand to help them and their families move

their belongings into the residence halls. Complimentary refreshments at several dining halls and outdoor grills and beverage stations were among the amenities offered during move-in weekend.

Students also were able to take part in a full range of activities during the weekend, including a reception for incoming commuter students and the annual Campus Breakout hosted by the University Student Centers. Students could visit an “open gym” at Carpenter Sports Building and check out more than 300 registered student organizations at Activities Night.

The evening before fall classes began, new students participated in a Twilight Induction Ceremony welcoming them to campus. The event was followed by an ice cream social and a pep rally. ■

Commemorating 100 years of innovation

As the renowned chemical and biomolecular engineering program at UD marks its 100th anniversary this year, the department has received a gift endowing a faculty chair in honor of the centennial.

Bob Gore, a 1959 graduate and 2010 honorary doctor of science recipient, and his wife, Jane, have contributed \$3 million to establish the Bob and Jane Gore Centennial Chair of Chemical and Biomolecular Engineering. The gift addresses a need that is a top priority for the department and the entire University.

“Students coming to UD to study chemical or biomolecular engineering expect to learn from the best,” says Babatunde A. Ogunnaike, dean of the College of Engineering and William L. Friend Chaired Professor. “It is a reputation we have earned over the last century, through the actions and teaching of chemical engineering legends such as Allan Colburn and Robert Pigford.

“Funding to attract and retain top faculty talent is critical to maintaining the College of Engineering’s reputation for excellence. I am grateful to the Gores for recognizing the ways in which supporting faculty enhances and improves student success. Their decision to honor the department’s centennial by endowing a



Bob and Jane Gore have endowed a faculty chair to mark the centennial.



PHOTOS BY KATHIE E. ATKINSON

new faculty chair will have a lasting and positive impact on our students for the next 100 years and beyond.”

In the late 1950s, Bob Gore was an undergraduate student in what was then the Department of Chemical Engineering. Today, he is among the department’s most notable alumni.

As the former president and current chairman of the board at W.L. Gore & Associates, Gore used his talents as an inventor and entrepreneur to transform his family’s company into a global industry leader.

He has also been a consistent and strong supporter of both his alma mater and his former department. In addition to donating millions of dollars in financial support—including a \$10 million gift in 2013 to establish the Bob and Jane Gore Research Laboratories in the new Interdisciplinary Science and Engineering Lab—Gore has given freely of his time, talent and expertise.

He serves as a member of the department advisory council, and is an emeritus member of the University’s Board of Trustees. Most recently, he served as one of three alumni volunteer co-chairs for the department’s Centennial Campaign and was one of the alumni guests who took part in the Centennial Celebrations.

“The department is such a wonderful investment,” Gore says. “It’s doing great and important things and is already recognized as being one of the very top departments in the country. So I am very

pleased that I can encourage them to build on the excellence they have already established. It’s a great way to continue a partnership with the department.

“I am hoping that some of my classmates, from way back in my era, have had successful careers and can now find a way to contribute to this campaign.”

Anniversary events recognize teaching, research

The Department of Chemical and Biomedical Engineering is holding numerous events this academic year to mark the anniversary. Alumni reunited on campus for a weekend gathering in September, and a book, *100 Years of Innovation: A Legacy of Pedagogy and Research*, describing the department’s history is available for purchase.

Current students say they welcome the chance to mark the anniversary and to meet returning alumni.

“Within chemical engineering specifically, there’s a strong sense of family that you get that you won’t find in other majors,” says junior Jonathan Galarraga, vice president of UD’s student chapter of the American Institute of Chemical Engineers. “We have close interpersonal relationships with graduate students, faculty members and peers.”

For more about the department and its centennial, visit www.che.udel.edu. ■



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For chemists, no limits on career potential

Chemists with disabilities are working in food and drug safety, conducting chemical education research, tutoring math and science, and teaching at universities across the country.

But Karl Booksh, professor of chemistry and biochemistry at UD, knows that more needs to be done to prepare students with disabilities to become leaders in science, technology, engineering and mathematics (STEM).

That's why he created the Chemical Sciences Leadership Initiative, which brings eight to 10 undergraduates with disabilities from across the country to campus to gain practical experience as research assistants working with UD professors. The program is supported by the National Science Foundation through its REU (Research Experiences for Undergraduates) program.

"STEM graduate students with disabilities are a significantly underrepresented minority," says Booksh, who navigates the halls of Brown Lab in a wheelchair. "Graduate school has become a critical juncture where STEM students with disabilities disproportionately abandon educational advancement."

REU projects seek to broaden participation in science and engineering, particularly among underrepresented minorities.

Last summer, eight students with disabilities ranging from autism and visual impairments to deafness and developmental disorders joined Booksh, co-principal investigator Sharon Rozovsky and six other faculty members for an eight-week intensive research and education experience in various fields of chemistry.

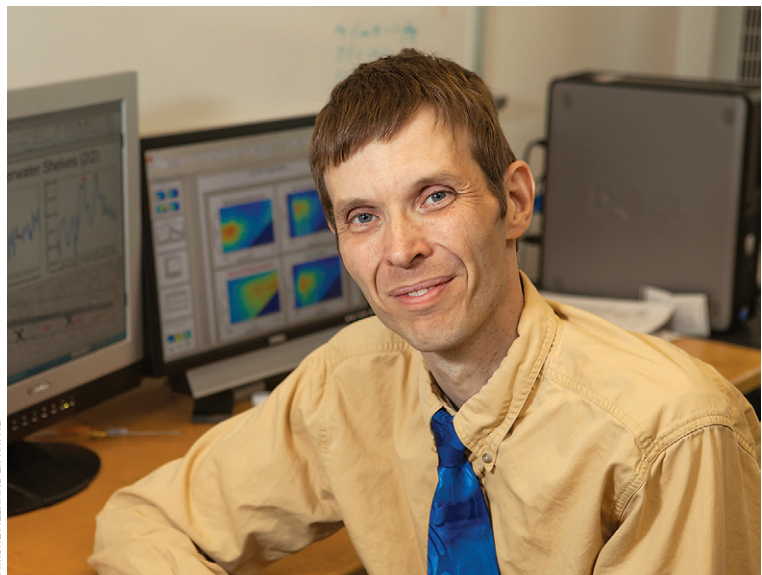
The program included not only science but also practical advice on dealing with disabilities, requesting accommodations and completing grad school applications.

Josh McNeely, a junior at the University of Missouri, gained valuable experience using an array of high-tech chemical characterization equipment.

"This was an amazing opportunity for me," says McNeely, who is blind in one eye and has Type I diabetes. "Because of my experience here at Delaware, I learned a variety of experimental techniques, and I've been offered a research appointment in bioengineering at my home institution."

All the REU participants, along with scholars from a variety of other programs, presented their work at UD's Undergraduate Research and Service Celebratory Symposium on campus in August.

For Nicole Tucker, who came all the way to Delaware from Oklahoma State University with her service dog, Ally, the symposium environment was challenging. Tucker, who has a



AMBER ALEXANDER PAYNE

"Even mild disabilities can have a significant impact... But if these students are given the opportunity and supported by role models, mentors and physical accommodations when needed, they can succeed."

—Karl Booksh

form of autism, had to tune out the crowd and focus on presenting her work to interested attendees. But she says she welcomed the experience because she knows there will be other, similar situations in graduate school.

"We tend to focus so much on physical and sensory disabilities that we don't think a lot about the range of other 'hidden' disabilities that can affect a person's ability to be a chemist," says Booksh, who is chair of the American Chemical Society's Chemists with Disabilities group.

"Even mild disabilities can have a significant impact. Small hindrances can build over time to non-degree attainment. But if these students are given the opportunity and supported by role models, mentors and physical accommodations when needed, they can succeed."

Graduate student Joe Smith, who served as teaching assistant for the program and mentored three student research projects, found himself deeply invested in how all the students' work turned out.

"The whole progression for these students over the course of the summer is a beautiful thing to see," Smith says. "We were able to show them that research really isn't all that scary, and in turn they brought new energy to all of us here at UD." ■

—Diane Kukich, AS73, 84M



Alison (Bibbins) Burris, BE85
(writing as Alleigh Burrows), *Dare to Love*, Kensington Publishing/Lyrical Press.

George Carlisle, AS60, *Whiskey, Sun and Fish: The Early Years of Fortescue, a Fishing Village on the Delaware Bay*, Exit Zero Press of Cape May, N.J.

Eugene Castellano, AS05M, *Wilmington: Preservation and Progress*, Cedar Tree Books.

Lawrence A. Cunningham, BE85, *Berkshire Beyond Buffett: The Enduring Value of Values*, Columbia University Press.

Zoubeida Dagher, professor of education, co-author with Sibel Erduran, *Reconceptualizing the Nature of Science for Science Education: Scientific Knowledge, Practices and Other Family Categories* (Contemporary Trends and Issues in Science Education series), Springer.

Rick Darke, AG77, and **Doug Tallamy, professor of entomology and wildlife ecology**, *The Living Landscape: Designing for Beauty and Biodiversity in the Home Garden*, Timber Press.

Joshua M. Duke, professor of applied economics and statistics, co-editor with JunJie Wu, *The Oxford Handbook of Land Economics*, Oxford University Press.

Between the Covers

New books by faculty and alumni

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

Steph Fink, AS95, *Building Bridges: Made on Purpose for a Purpose*, Xulon Press.

Stanley D. Gale, AS75, EH78M, *A Vine-Ripened Life: Spiritual Fruitfulness Through Abiding in Christ*, Reformation Heritage Books.

Robert L. Hilliard, AS48, *Writing for Television, Radio and New Media (11th edition)*, Cengage Learning.

Kathryn Kneessi, BE91 (writing as Kathryn Knight), *Divine Fall*, Wildflowers Books, a division of The Wild Rose Press.

Sally Lerman, HS97, 00M, *Lobster Rolls of New England: Seeking Sweet Summer Delight*, The History Press.

Matt Manochio, AS97, *The Dark Servant*, Samhain Publishing.

Shana Maier, AS04PhD, *Rape, Victims and Investigations: Experiences and Perceptions of Law Enforcement Officers Responding to Reported Rapes*, Routledge (Studies in Crime and Society).

George M. Naimark, AS51PhD, *The Leadership Disaster: A Matter of Choice*, Dog Ear Publishing.

Douglas (D.W.) Raleigh, AS93, *Shiloh's True Nature*, Hobbes End Publishing.

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

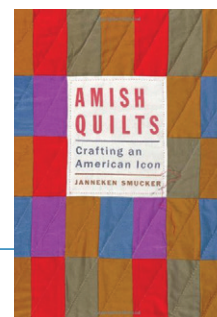
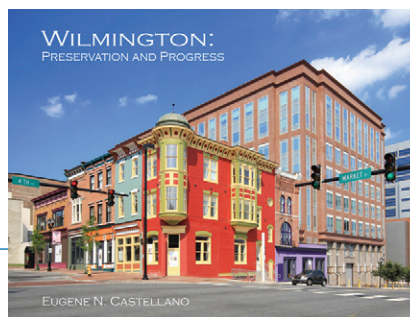
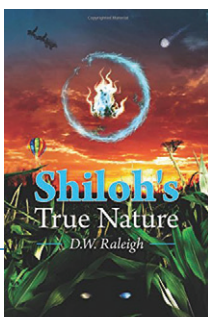
Ryan K. Smith, AS02PhD, *Robert Morris's Folly: The Architectural and Financial Failures of an American Founder* (The Lewis Walpole Series in 18th-Century Culture and History), Yale University Press.

Janneken Smucker, AS06M, 10PhD, *Amish Quilts: Crafting an American Icon* (Young Center Books in Anabaptist and Pietist Studies), Johns Hopkins University Press.

Justin Steele, AS08, co-editor, *The Children of Old Leech: A Tribute to the Carnivorous Cosmos of Laird Barron*, Word Horde.

Billie Travalini, AS83, *Blood Sisters: A Memoir*, Doll's Eye Press.

Judith Zilczer, AS75PhD, *A Way of Living: The Art of Willem de Kooning*, Phaidon Press. ■





Restaurant renovations benefit students, customers

Vita Nova, the University's student-operated gourmet restaurant, reopened at the start of fall semester, following an extensive summer renovation that included a complete remodeling of the dining area.

"The old space was well cared for and well loved, but we needed to bring it into the 21st century," says Sheryl Kline, professor and chairperson of the Department of Hotel, Restaurant and Institutional Management (HRIM).

Indeed, the newly renovated Vita Nova now boasts a show kitchen, private dining room, pizza oven and state-of-the-art technology, such as LED mood lighting, sustainable bamboo tabletops and induction cooking technology, in which students warm up buffet meals without an open flame.

The facility, which first opened in 1996, is the restaurant management classroom for all HRIM major students, giving them firsthand experience in all aspects of running a fine-dining operation. Students rotate daily through 17 different positions that range from handling social media to cooking in the show kitchen to managing the entire restaurant.

It is the strong emphasis on management and leadership development that helps the department boast a 92 percent job placement rate even before graduation, according to Kline. "This is an unparalleled education," she says.

In fact, the Harcourt M. and Virginia W. Sylvester Foundation provided the lead gift to renovate Vita Nova in honor of 2014 HRIM graduate Clare M. Malfitano. The renovations exceeded \$500,000

and were supported by other generous donors.

Malfitano's mother, Jayne, is president of the foundation, and the gift is a result of Clare's experience in the program.

"We felt compelled to do something meaningful for the department that has done so much for our daughter and other HRIM students," says Jayne Malfitano, who, along with her husband, Chris, served as past members of UD's Parents Fund Council.

Kline says the renovations have helped inspire other changes at Vita Nova as well.

"We are so proud to work and teach in this space, and I can already see more creative energy in our approach to trying new things," she says. Among them are new menu items, including



Students learn the restaurant business at Vita Nova, working in the kitchen, preparing the dining room and greeting customers.



PHOTOS BY EVAN KRAPE

fresh and seasonal items from the College of Agriculture and Natural Resources, and a greater emphasis on sustainability.

Students say they've been inspired by the improvements.

"When I walked in there, my jaw dropped," says Rosemarie Pagano, a senior majoring in HRIM. "The renovations are beautiful, and there's now so much more space to work."

Junior Oliver Emsallem praises the efficiency of the space as well as its attractive appearance for diners.

"We have more doors, more area to move," he says. "It's a more practical learning environment—and it's stunning. Customers come in and ask, 'Is this still Vita Nova?' We are all so ecstatic with the renovations."

Sarah Drobnock, a senior in the HRIM program, says all the students working in Vita Nova greatly appreciate the upgraded facilities. "I love the new modern look and feel," she says. "It's contemporary, very 21st century, Napa Valley chic."

More about the restaurant and HRIM

Vita Nova offers a "Best of Delaware" Award-winning lunch buffet, fine dining for dinner, the Darden Bistro and the Copeland Vinotek, a redwood-paneled wine cellar. The restaurant is open to students and the public.

It is a key part of HRIM's focus on experience-driven learning and the business of hospitality. Along with the Marriott Courtyard Newark hotel, Vita Nova prepares students to distinguish themselves as successful leaders and entrepreneurs in the hospitality industry.

The HRIM program offers numerous opportunities for international study and requires undergraduates to complete both paid work and community service in the field.



About the Parents Program

The Parents Program creates a community of parents actively engaged in their students' college experience and provides the primary vehicle for them to philanthropically support the campus. ■

—Artika Casini, AS05

PUBLIC ALLIES HONORED FOR COMMUNITY IMPACT



Tina Morrow accepts the National Impact Award from Paul Schmitz, then-CEO of the national Public Allies organization.

DOUG BAKER

Public Allies Delaware, a program of UD's Center for Community Research and Service, has won the National Impact Award, the highest honor awarded among the 23 regional networks.

The Delaware chapter, which also celebrated its 20th anniversary this spring, was recognized for its ongoing and consistent effort to help program participants turn their 10-month apprenticeship experiences into long-term community contributions.

"These young leaders are highly self-motivated," says Tina Morrow, director of Public Allies Delaware. "Our job is to hold them accountable to their dreams and aspirations and support their creativity, energy and passion."

The state organization also was presented the Alumni Engagement Award for model programming in communications and professional development support.

Public Allies Delaware began its

journey when founders Suzanne Sysko, M.D., and Tony Allen, who holds a bachelor's degree and doctorate from UD and is a member of the University Board of Trustees, set out to have an impact in the world and decided to start with their own community.

Allen and Sysko say they "were a part of a burgeoning national movement called the Corporation for National Service," also known as AmeriCorps, a bipartisan concept that has produced a variety of programs. Delaware was one of five original Public Allies sites including one in Chicago, which was founded by Michelle Obama.

Since its founding, the nearly 400 alumni of Public Allies Delaware have completed more than 750,000 hours of service to communities in the state and beyond. The program provides young leaders with training and professional apprenticeships at local nonprofits.

Many Public Allies alumni are also UD graduates, and many have gone on to lead nonprofits in Delaware and around the nation. ■

ONLINE PROGRAM DEVELOPS TEACHERS WHO LEAD

School-based teacher leadership, a growing trend in today's schools, enables educators to extend their sphere of influence beyond the walls of their own classrooms.

To develop those leaders, the School of Education is offering an online master's degree program in teacher leadership to current

PK-12 teachers.

Through highly interactive virtual learning, students will learn how to engage in collaborative professional development, plan for and enact school-wide change and share classroom wisdom with a wider audience.

Courses are offered in seven-week sessions. The 30-credit (10-course) program can be completed in two years.

Each week's lesson module provides students the opportunity to engage in discussion with classmates, watch videos, complete activities, ask questions and respond to professors' queries.

"Because our students are teachers currently working in the classroom, we build activities into their curriculum that they can apply to their daily teaching activities," says Elizabeth Soslau, professor and

program coordinator. "By incorporating real-time activities, we reinforce their learning."

Candidates can apply for the program at any time during the year, with applications accepted for five start dates—two in fall, two in spring and one in the summer.

For more information, visit www.education.udel.edu/teacherleadership or email Soslau at esoslau@udel.edu. ■



STUDENTS URGED TO PUT SAFETY FIRST

The University has launched a new public awareness campaign focusing on campus safety and well-being.

With the theme, “A safe UD starts with me,” the campaign stresses the importance of community, watching out for one another and reporting suspicious activity to UD Police. Posters displayed around campus feature bold colors and eye-catching typography to spread a simple and direct message, encouraging everyone to:

- Look up. Take your eyes off your phone and notice

what’s going on around you.

- Watch out. Be aware of your own safety and keep an eye out for your friends and colleagues.
- Speak up. If you see something that is suspicious or makes you uneasy, call 911, use UD’s new LiveSafe smartphone app or pick up the nearest blue light phone.

A new webpage, www.udel.edu/safeud, links to a variety of resources.

Simultaneous with the campaign, UD Police have released a new, free smartphone application. The LiveSafe app lets users submit a quick tip to police via text with picture and video attachments (including the option to stay anonymous), live-chat with UD Police, and get quick access to emergency phone numbers that initiate location tracking when dialed and more.

Throughout this academic year, the campaign will be expanded to address other campus safety issues, such as responsible use of alcohol, sexual assault awareness and prevention, lab safety and Internet security. ■

ENVIRONMENTAL FOCUS LEADS TO PARTNERSHIP

The University of Delaware and the Vermont Law School, which have strengths in environmental studies, have announced an articulation agreement to smooth the transition for UD graduates seeking to enroll at Vermont Law.

Vermont Law is a private, independent institution that has the top-ranked environmental law program and one of the top-ranked clinical training programs in

the nation, according to *U.S. News and World Report*.

The new agreement provides that UD graduates who meet the Vermont Law entrance requirements will be guaranteed admission into its juris doctor, master’s or joint juris doctor/master’s programs.

“The University of Delaware is a leader in environmental education and research. Our agreement creates an exciting and unique pathway for our students to pursue their passion for environmental issues and policies,” says UD Provost Domenico Grasso.

Vermont Law President Marc B. Mihaly, who visited Delaware to meet with administrators, faculty members and students, says the partnership is a good fit because of UD’s strong programs in environmental science.

“It aligns our mutual strengths,” he says. ■

CREAMERY EXPERIENCE RISES TO THE TOP

Two UDairy Creamery representatives were honored as 2014 White House Champions of Change for their work providing hands-on learning experiences for young people in agriculture.

Melinda Litvinas, manager of the creamery, and Jake Hunt, AG12, who as a student was an assistant manager intern there, were among 15 individuals from across the country receiving the award.

With the average American farmer 58 years old, the U.S. Department of Agriculture is looking for ways to inspire and motivate the next generation. Honorees spent two days in Washington, D.C., participating in a variety of educational programs and tours.



The UDairy Creamery, established in 2008, produces premium ice cream made with milk from the cows on the farm at the College of Agriculture and Natural Resources. Founded on science, sustainability and entrepreneurship, the creamery encourages discovery learning, with students involved in every aspect of making and selling ice cream.

Some students work directly with the dairy farm. But, Litvinas says, “Most UDairy Creamery students are involved in the food science, food safety, product development and entrepreneurship aspects of the creamery.”

Hunt is now the managing partner at Windy Brow Farms and the Cow’s Brow Creamery in Newton, New Jersey. ■

HONORS & ACHIEVEMENTS

Eric M. Furst, professor of chemical and biomolecular engineering and director of UD's Center for Molecular and Engineering Thermodynamics, and **Kristi L. Kiick**, deputy dean of engineering and professor of materials science and engineering and of biomedical engineering, have been named to the 2014 Class of Fellows of the American Chemical Society, the world's largest scientific society. Fellows are nominated by their peers for outstanding accomplishments in scientific research, education and public service.

Tom Kaminski, professor of kinesiology and applied physiology and director of UD's Athletic Training Education Program, has received the National Athletic Trainers' Association's 2014 Most Distinguished Athletic Trainer award.

James Hiebert, Robert J. Barkley Professor of Education, has been selected to receive the Senior Scholar Award from the American Educational Research Association's Special Interest Group for Research in Mathematics Education, in recognition of programmatic work that has been essential in mathematics education.

Anna Klintsova, associate professor of psychological and brain sciences, has been elected an officer of the Fetal Alcohol Spectrum Disorder Study Group, a position that will transition over the next four years from secretary to president of the organization.

Babatunde A. Ogunnaike, dean of the College of Engineering and William L. Friend Chair of Chemical Engineering, has received the 2014 MAC Eminent Chemical Engineers Award from the American Institute of Chemical Engineers'

Minority Affairs Committee, recognizing outstanding chemical engineers for their role in fostering a diverse pool of talent in engineering and related disciplines.

Stephanie L. Kerschbaum, assistant professor of English, has received a 2014-15 American Association of University Women Postdoctoral Research Leave Fellowship, which recognizes and facilitates the impact of her work as a rising star in the field of disabilities studies, composition and rhetoric.

Three faculty members—**Pamela Green**, Unidel Crawford H. Greenewalt Endowed Chair in Plant Molecular Biology and a professor of marine science and policy; **Blake Meyers**, Edward F. and Elizabeth Goodman Rosenberg Professor of Plant and Soil Sciences; and **Cathy Wu**, Unidel Edward G. Jefferson Chair of Bioinformatics and Computational Biology—are among the world's top scientists, according to the recently launched Thomson Reuters Highly Cited Researchers list, a compilation of influential names in science that spotlights some of the "standout researchers of the last decade." The researchers on the list earned the distinction by writing the greatest number of reports officially designated by Essential Science Indicators as Highly Cited Papers.

Burton Abrams, professor of economics, was honored with a silver Independent Publisher Book Award for his 2013 book, *The Terrible 10: A Century of Economic Folly*, published by The Independent Institute.

Cathy Ciolek, assistant professor of physical therapy and director of clinical education at UD, who is a specialist in geriatric physical therapy with an emphasis

on balance, falls prevention and Parkinson's disease, has received the Lucy Blair Service Award from the American Physical Therapy Association.

C.P. Huang, Donald C. Phillips Professor of Civil and Environmental Engineering, who is known worldwide for his work in environmental physical chemistry, was honored through a special symposium held in August by the American Chemical Society.

Lawrence Nees, professor of art history, was elected a 2014 fellow of the Medieval Academy of America, an interdisciplinary organization—the largest and oldest in the world dedicated to medieval studies—that limits the number of fellows to 125, recognizing those members who have made notable contributions to scholarship and professional service.

Adam Rome, the Unidel Helen Gouldner Chair for the Environment who holds joint appointments in English and history, has received a three-year appointment to the Organization of American Historians Distinguished Lectureship Program, a speakers bureau that promotes leading historians to various audiences across the country.

Dominic Di Toro, the Edward C. Davis Professor of Civil and Environmental Engineering with a joint appointment in oceanography, who is known for his expertise in developing water quality standards and mathematical models of chemicals in water, has been appointed a member of the National Research Council's Board on Environmental Studies and Toxicology, the principal study unit on pollution problems affecting human health and the environment. ■



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Preserving the priceless

Conservationists protect our cultural heritage

The U.S. Constitution, Gandhi's cotton shawl, the original R2D2 from *Star Wars*, Elvis Presley's 81 gold records and Picasso's "Demoiselles d'Avignon" have a common link—the Winterthur/University of Delaware Program in Art Conservation.

All were preserved and restored by graduates of the esteemed program known as WUDPAC, which for 40 years has enabled students and alumni to salvage some of the most important markers of global cultural and artistic heritage.

WUDPAC, a three-year program whose students earn a master's degree, is one of only five graduate programs in art conservation in North America and one of only two jointly sponsored between a university and a museum.

Each year, the University receives nearly 100 applications for the program's 10 positions. Prerequisites include extensive coursework in chemistry, studio art, art history and anthropology and at least 400

hours of conservation experience.

"In return, we give them the practical experience, critical-thinking skills and experience in public and global engagement they'll need to be successful in the field, now and in the future," says Debra Hess Norris, AS77, 80M, Unidel Henry Francis du Pont Chair in Fine Arts and chairperson of the art conservation department.

Norris is herself a graduate of the program and an internationally recognized expert in the conservation of photographs.

UD offers preservation degrees at the undergraduate and doctoral levels, in addition to the WUDPAC master's degree program.

As a field, art conservation is dedicated to preserving cultural property for future generations. Such property is threatened by repeated exposure to a variety of detrimental factors, including excessive light, temperature and humidity extremes, pests, pollutants, poor handling practices, natural disasters and accidental damage.



Graduate students in UD's art conservation programs conduct much of their hands-on classwork in the laboratories and studios at Winterthur Museum. These future professional conservators specialize in such areas as paintings, objects, paper, textiles and furniture, analyzing and repairing damage and sometimes totally reconstructing broken items.



"The survival of this heritage depends on the availability of educated and trained conservation professionals," Norris says.

The WUDPAC curriculum is designed to educate and train conservation professionals who can carry out the examination, analysis, stabilization and treatment of art and artifacts, speak to general principles of collection care and have a broad academic background in science and the humanities. Students learn from 17 conservators and conservation scientists and receive extensive hands-on experience through national and international internships.

With specialties in areas such as paintings, furniture or textiles, WUDPAC students have taken part in summer and third-year internship experiences around the world, working recently with objects ranging from a Tyrannosaurus rex skeleton being shipped from Montana to Washington, D.C., to an 18th-century illuminated Persian manuscript exhibited at the Library of Congress.

"The survival of this heritage depends on the availability of educated and trained conservation professionals."

A global impact

Art conservation programs at UD involve not only the education of students and future professionals but also outreach across the United States and around the world.

Undergraduate students, for example, have participated in a study abroad program at the Universite de Tarapacá in Arica, Chile, where they helped prepare pre-Inca textiles for a traveling exhibit. Graduate students regularly share their experiences with the public through blogs and other outreach activities.

The Department of Art Conservation is partnering with colleagues from Tsinghua University in Beijing to conduct a survey, analysis and assessment of 10th-century temple murals.

At the invitation of the U.S. State Department, UD has been a leading partner in the Iraqi Institute for the Conservation of Antiquities and Heritage in Erbil, where museum professionals from throughout Iraq have learned new ways to preserve their nation's history and archaeology.

Workshops led by art conservation faculty members are held across the globe, from South Africa to Lebanon, and on the UD campus for specialized groups of professionals and students from other institutions. And once a month, students and faculty members hold a clinic in which they offer advice to the public about conservation issues.

Preserving the world's photos

The University is continuing an initiative that seeks to improve the awareness and preservation of the Middle East region's rich photographic heritage.

The Middle East Photograph Preservation Initiative (MEPPI), which was launched in 2011 after a successful pilot in 2009, is led by the Arab Image Foundation in



Debra Hess Norris (left) leads a photo preservation workshop in Jordan.

PHOTO BY TRAM VO

Lebanon and by UD, the Getty Conservation Institute and the Metropolitan Museum of Art in the United States. The strategic initiative works to identify significant photograph collections, provide basic preservation training and build a strong network of conservation professionals.

Since it began, the project has provided training for 54 institutions and collections in 16 countries and territories, helping to preserve more than 15 million photographs, says Debra Hess Norris, AS77, 81M, Unidel Henry Francis du Pont Chair in Fine Arts and chairperson of the Department of Art Conservation, who teaches MEPPI sessions.

A new Andrew W. Mellon Foundation grant will extend the program through June 2017.

"At a time when many countries in the region are subject to political crises and extreme economic challenges, this training and advocacy are urgent," Norris says. "Our work in



Support for future conservators

Students applying to the graduate Winterthur/University of Delaware Program in Art Conservation often have amassed 2,000 hours or more of experience in the field and have taken additional coursework, beyond their undergraduate degree requirements, to qualify.

"It is a highly competitive program, and we ask a lot from our applicants," says Debra Hess Norris, chairperson of UD's Department of Art Conservation.

Now, thanks to a \$1 million challenge grant from the Andrew W. Mellon

Foundation, the University has something else to offer prospective students and future conservators—increased stipends, averaging \$20,500.

The Mellon gift challenges the University to match \$1 million by Aug. 1, 2017. An additional \$275,000 was

photograph preservation engages communities, builds cultural identity and promotes reconciliation.”

Participants in the program have included professionals who are responsible for the care of photographic holdings in national archives and libraries, ministries, universities, museums and private repositories.

From 2011-14, MEPPI workshops were held in Lebanon, Morocco, the United Arab Emirates, Turkey and Jordan, covering such topics as storage of photographs, best practices for digitization, and emergency preparedness and response. Workshops were followed by distance mentoring and then by a follow-up meeting for participants to discuss their experiences, problems and progress.

Not-so-Old Masters

In an art conservation lab in Old College last August, they were painting like it was 1399.

Hard at work was a select group of art educators, curators and scholars from throughout the United States who took part in an intensive, weeklong workshop sponsored by the Samuel H. Kress Foundation and organized and taught by UD’s Department of Art Conservation.

The program was designed to give today’s professionals hands-on experience in using the same types of materials and techniques as traditional Italian painters of the late 14th and early 15th centuries. In addition to an appreciation for how such artists worked, the participants left the workshop with a piece they created and will use in educating others about traditional painting methods.

The 12 professionals invited to attend the workshop spent some long days in one of the campus conservation laboratories, involved in the painstaking process of creating a replica of a piece of art, titled “St. Romuald,” by Lorenzo Monaco (1372-1424).

“I definitely have more appreciation for this process than I did before,” said Elizabeth Gallerani, of the Williams College Museum of Art, as she experimented with different mixes of pigment and egg yolk to get the precise color she needed for her egg tempera painting. “I won’t ever look at this [kind of art] the same way again.”

The process included preparing a wood panel to create a white base and applying fragile gold leaf.

Workshop draws students from across U.S.

For students from 10 historically black colleges and universities who took part in a seven-day preservation workshop at the University of Delaware two summers ago, a picture might really seem to be worth a thousand words of history.

The hands-on program, led by art conservation faculty members Norris and Jae Gutierrez, gave the students training and practice in preservation techniques. All returned to their institutions to assist with work on photo collections there.

“Their colleges and universities have very important collections of significant historical value,” says Norris. “And, like all smaller institutions, they can benefit from preservation assistance. The students in the workshop gained not just knowledge and skills but also awareness of how important it is to preserve these materials.”

A similar workshop is scheduled for June 2015.

Students in the workshop learn to examine old photos from a new point of view and an eye to how each item should be stored to prevent damage to the paper or finish. They learn the different types of photos that preceded today’s digital imagery—daguerreotypes, tintypes and Cyanotypes, for example—and create some of their own images using traditional processes on photographic paper.

Participants come from a variety of majors. Only some are considering careers in conservation or museum work, although the program can lead some to new paths.

An alumna of a similar UD summer program, for example, is pursuing a career in the conservation field. Shannon Brogdon-Grantham was an undergraduate art history major at Spelman College when she attended two Arts and Humanities Summer Institutes at UD. She now is a third-year student in WUDPAC.

“In the summer of 2008, I had a casual conversation with Jae [Gutierrez] about the job of conservator, and that turned out to be a defining moment for me,” Brogdon-Grantham says. “I thought: This sounds like a career for me.” ■

awarded in spendable funds for more immediate stipend support.

“We are grateful to the Mellon Foundation for their longstanding commitment to art conservation and for helping us attract the best, brightest and most diverse students while

minimizing student loan debt,” says UD Provost Domenico Grasso.

Before applying to the program, Michelle Sullivan enrolled in evening chemistry courses and took an unpaid internship to gain conservation experience, all while working full time. Now a third-year

student, she is interning at the National Gallery of Art in Washington, D.C.

“I would not have been able to pursue a career in art conservation without the stipend support,” Sullivan says. “This is an unparalleled education, and I am so grateful to enter a profession

that I am passionate about without having to incur additional debt.”

Gifts to support the art conservation program can be made online at www.udel.edu/002349 or by contacting Nekita Nesmith at nnesmith@udel.edu or (302) 831-0612. ■

Land and sea



UD students examine a skate aboard the R/V *Joanne Daiber* before they return it safely to the water.

EVAN GRAPE

Joanne Currier Daiber gave up a career in marine science for love, but she never gave up her love of marine science.

Now, a new ship to support coastal research and education at UD has been named for Daiber, who was the first female marine scientist hired by the University—in an era when few women entered scientific fields.

With the new ship providing unique educational and research opportunities, and a new lab dedicated to robotics, the College of Earth, Ocean, and Environment is moving full speed ahead in marine science discoveries.

Daiber's career began in 1951 and ended just two years later, when she married a colleague, Franklin Daiber, in the fledgling program. University policy at the time prohibited married couples from working together, but Joanne Daiber continued to support the program as a volunteer by coordinating graduate housing, editing books and manuscripts and assisting in research.

More than six decades later, some 100 people turned out in August for a ceremony to celebrate the dedication of the 46-foot Research Vessel *Joanne Daiber* and the opening of the new Robotic Discovery Laboratories at UD's Hugh R. Sharp Campus in Lewes. Participants included civic leaders, federal agency representatives, private citizens, industrial partners and University trustees, administrators, faculty, staff and students.

Nancy Targett, dean of the College of Earth, Ocean, and Environment (CEOE), welcomed the audience to the celebration.

"Our goals in CEOE are simple," Targett said. "We want to inspire and transform our students, conduct research that helps us enhance our understanding of the environment and that develops solutions for the environmental challenges we face, and partner with people at the local, state, regional, national and global levels across public and private sectors.

"When we do those things well, it comes back around because we inspire and transform our students, we inspire and transform ourselves, and we benefit society through our engagement and the impact of our work."

Assets like the ship and the lab are critical to CEOE's efforts to build capacity in environmental technology and underwater robotics. That capacity will enhance coastal and ocean exploration and impact national security, port and harbor operations, environmental response and understanding of global climate change.

Charles Riordan, deputy provost for research and scholarship, pointed to the educational benefits of facilities like the ship and the robotics discovery lab.

"Providing hands-on, real-world learning opportunities is a hallmark of the rich academic climate at UD," he

said at the dedication ceremony. “Whether those experiences happen behind a lab bench or on board a ship, in a lecture hall or in the salt marsh, we know that through these experiences, alongside productive faculty members, our students are truly immersed in the science that they hope to pursue beyond UD.”

He described CEOE as positioned to answer the environmental challenges of the 21st century, including environmental quality, climate change and green energy solutions. Finally, Riordan alluded to the gender issues that prevented Joanne Daiber from formally continuing a career in science but failed to stem her passion for the work.

“As we continue to encourage more women to enter the STEM [science, technology, engineering and math] fields, may the leadership of Dean Targett and the naming of the research vessel after UD’s first female marine scientist be inspiring to young women who look to careers in science and technology,” Riordan said.

Robots, robots everywhere, even in the drink

With its cross-cutting nature, robotics is a rich area for collaboration across the University, not only in underwater systems but also in such areas as child development, disaster response and cybersecurity.

While the R/V *Joanne Daiber* serves as a platform to deploy underwater robotic systems, the new Robotic Discovery Laboratories consolidate CEOE’s environmental robotics capabilities by fostering collaboration, coordinating operational logistics and facilitating the management of large datasets.

The lab, which houses seven unmanned underwater vehicles (UUVs), connects the research of multiple faculty members under one umbrella to carry out a broad range

of missions. The UUVs can map and measure, record video, and capture photos and side-scan sonar images.

Research projects include quantifying dredge impacts on scallop harvesting in the mid-Atlantic, searching for downed American aircraft from World War II in the Pacific Ocean, assessing the impact of physical processes on penguins in Antarctica and managing environmental resources at Maryland’s Assateague Island National Seashore.

“It’s easy to appreciate the synergy between the lab and the ship in terms of facilitating the use of these robotic tools in the local environment,” says Mark Moline, director of UD’s School of Marine Science and Policy. ■

—Diane Kukich, AS73, 84M

MORE ABOUT THE DAIBERS

After Franklin Daiber retired, he and Joanne Daiber co-authored a two-book set, *Salty Memoirs: Adventures in Marine Science*.

The Daibers painted a vivid picture of what it was like to use the University’s first research vessel, the 40-foot *Acartia*, which had “a cabin, a faulty compass, a car engine, and little else,” according to Franklin. They also remember the program’s first improvised lab in an old restaurant at Bunting’s Landing in Lewes.

The book was written in two volumes so that the Daibers could each present their individual perceptions and recollections. The books are illustrated with pen-and-ink drawings by their oldest son, Steven, AS78, an artist and naturalist. They also include numerous black-and-white photographs, many taken by Franklin Daiber. ■



Scientific leaders of tomorrow earn kudos today

From sluggish search engines to polluted oceans, dangerous bacteria to greenhouse gases, UD researchers are working to solve problems that affect us all.

Recently, six young faculty members received highly competitive national awards recognizing and supporting their work in key areas of research.

The National Science Foundation gave Faculty Early Career Development Awards to Assistant Profs. Ioannis Poulakakis, mechanical engineering; Joel Rosenthal, chemistry and biochemistry; Tobias Kukulka, physical ocean science and engineering; and Feng Jiao, chemical and biomolecular engineering; and Associate Prof. Ben Carterette, computer and information sciences. The awards are given to junior-faculty scientists and engineers considered most likely to become the academic leaders of the 21st century.

In addition, Catherine Leimkuhler Grimes, assistant professor of chemistry and biochemistry, is one of 22 outstanding early-career researchers selected nationwide as a Pew Scholar in the Biomedical Sciences by the Pew Charitable Trusts.

"Researchers at the University of Delaware, including our newest faculty members, are consistently singled out for recognition with prestigious awards and grants, and this year is no exception," says Charles Riordan, deputy provost for research and scholarship. "These six recent recipients demonstrate the quality of research conducted at UD, as well as the diversity of areas in which we are taking on some of the biggest challenges of our time."



Animal-inspired robots

Ioannis Poulakakis is investigating ways to regulate the cyclic motion of legged robots so that they can perform tasks previously reserved for wheeled systems.

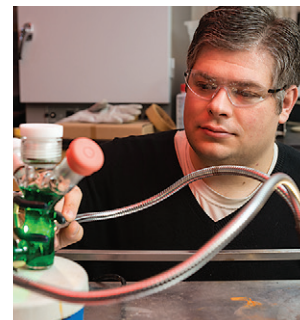
"Planning a robot's movements to achieve real-life tasks, such as exploration or search-and-rescue missions, is a key problem in robotics," he says.

"When it comes to legged robots, we know what controls can generate reliable locomotion, but how these controls are linked with higher-level mission objectives is not well-explored."

When searching for inspiration, Poulakakis looked to nature.

"Animals move purposefully," he says, in such activities as foraging for food or pursuing prey.

He is particularly interested in the way an animal's limbs move during locomotion: a choreographed, cyclic motion that combines complex muscular planning, momentum and agility.



Renewable energy

Joel Rosenthal has won widespread attention for his work seeking new catalyst platforms that use electricity generated from solar energy to convert carbon dioxide into synthetic liquid fuels for powering cars, homes and businesses.

When that type of conversion is successful, carbon dioxide, or CO₂, a major greenhouse gas, can provide a feedstock for the production of synthetic petroleum, offering a potential route to the replacement of fossil fuels.

The NSF award funds research "with similar goals involving energy catalysis," Rosenthal says, but focuses on his work with a class of molecules called porphyrinoids, which intensely absorb light.

"Porphyrin derivatives are used in nature for light-harvesting" and are found in the photosynthetic architecture of plants, Rosenthal says. With the NSF support, his research team will continue to synthesize and study molecules that can be used as catalysts.

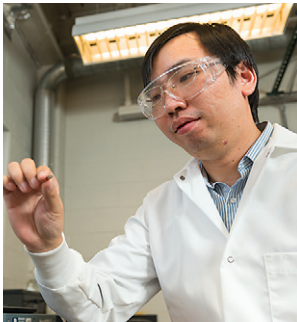


Ocean turbulence

Picture pouring milk into coffee: Don't stir, and the milk and coffee combine slowly. Swirl with a spoon, and suddenly the two mix together quickly.

"It's the same thing with the upper ocean, but wind, waves and currents do the mixing," Tobias Kukulka says. His research into upper ocean turbulence and particle transport has implications on the motion of pollutants, plankton, nutrients and air bubbles as they work their way through the seas.

Waves and currents churn water into a series of long, whirling masses, noticeable as bands of bubbles on the sea surface and aligned with the wind. Kukulka studies those complex processes with sophisticated mathematics and computer models, using a new method that follows the motion of particles. Then, he will apply his analysis to understanding the "great ocean garbage patch," made up of millimeter-sized bits of plastic litter.



CO2 conversion

Earlier this year, Feng Jiao developed a highly selective silver catalyst capable of electrochemically converting the greenhouse gas carbon dioxide (CO₂) to carbon monoxide (CO) with 92 percent efficiency.

Now, with the new NSF funding, his research group is exploring the use of bimetallic catalysts for this conversion.

"It's not just about how we can reduce greenhouse gas emissions, but also about how we can use advanced technology to convert something with a negative impact into something positive that can improve how society generates and consumes energy," Jiao says.

Bimetallics are materials composed of two separate metals that, when joined together, interact to produce properties not achievable with a single metal.

Jiao will use computational modeling to pinpoint combinations of metals useful for electrochemically reducing CO₂ to CO.



Better search engines

Search engines have come a long way since the first one, known as "Archie," was launched almost 25 years ago, when people had to know the exact wording of a website's title to find it.

However, there's still a long way to go in brokering the perfect marriage between what a user is looking for and what a search engine finds. Ben Carterette believes the key is a better understanding of how the user and the system interact.

"We use search engines for a wide range of tasks today, from planning a vacation to finding a good day care center," Carterette says. "Some of those tasks, like looking for a weather forecast, are relatively simple, while others, such as finding accurate medical information, are far more complex."

He plans to simulate the process a user goes through in conducting a search in an effort to improve the system.



Understanding bacteria

Catherine Grimes is working to better understand how human cells recognize and respond to the presence of bacteria—both normal bacteria and those that cause disease.

"Did you know that your body is composed mostly of bacteria? They beat us 10 to one," Grimes says. "For every one human cell, we have 10 bacterial cells."

Each of these bacterial cells has a cell wall that Grimes compares to a coat. Besides figuring out how this coat is created and what it's made of, Grimes and her team want to know how the coat starts falling apart in the case of infectious, disease-causing bacteria. In those cases, fragments of bacterial cell wall are sloughed and then are recognized by the human immune system, which produces molecules to attack the invaders.

The research could help advance antibiotic development and also shed light on how "autoimmunity" develops.



Families encouraged to SNAP up healthy foods

Imagine that you have a monthly food budget of \$133—less than \$40 a week. When trying to feed your family, you might decide to purchase a 2-liter bottle of fruity punch for 99 cents instead of a gallon of milk for \$3.50.

That's hardly a healthy alternative, but it is the choice that 47 million Americans participating in the Supplemental Nutrition Assistance Program (SNAP, formerly known as food stamps) make just to ensure they have enough food on their table.

Allison Karpyn, formerly of The Food Trust and now associate director of UD's Center for Research in Education and Social Policy, is a co-author of a recent U.S. Department of Agriculture report that explores incentives designed to encourage SNAP participants to make healthier food choices.

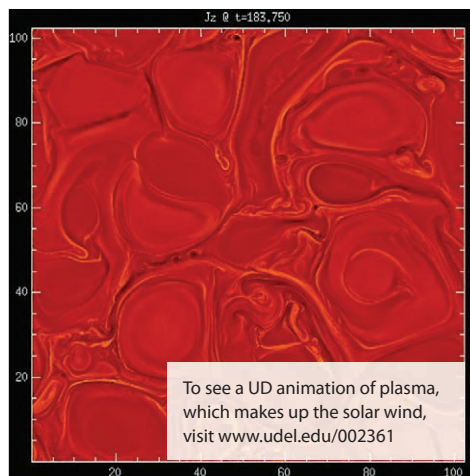
"People know it's better to eat healthy, but many SNAP participants are working families who need quick and cheap alternatives," Karpyn says. "They often grab the first thing they see on the shelf that's on sale."

Unfortunately, these alternatives are typically higher in fat, sugar and salt, making them filling but not nutritious.

Two possible solutions to the problem are now under review for pilot testing. One calls for grocery stores to highlight healthier foods in more prominent locations. The other approach would encourage manufacturers to offer discount coupons to SNAP participants who purchase healthy foods, earning themselves credits to buy more food at the end of the month. ■

SOLAR ENERGY HAS NEW MEANING FOR NASA

We couldn't survive on Earth without our shining star—the sun—93 million miles away. Yet we have much to learn about the environment called the heliosphere that surrounds the sun and planets like a giant teardrop, extending to the edge of the solar system. It's a place where the solar wind and storms send out billions of volts of energy.



Knowing more about the heliosphere matters, says UD physicist William Matthaeus, if we ever want to build a space station on the moon, send astronauts to Mars, continuously protect satellites and electrical systems on Earth and even factor in the effects of space weather on our changing climate.

Matthaeus and co-investigator Michael Shay, associate professor of physics and astronomy, have been awarded a \$1.2 million grant from NASA to explore how energy from the sun is transported across the heliosphere.

The UD team will draw on its expertise in theoretical physics and reconnection physics to develop simulation models of solar energy transport from macro- to micro-scales, ranging from the global solar wind to microscopic movement of space plasma.

"We're working to explain something in nature that has never been explained before," Matthaeus says. "We really want to understand the place our planet has in the universe." ■

Researchers seek disease-fighting molecules

A new five-year, \$11.2 million federal grant will help UD scientists build a network of biomedical researchers in the region as they work to discover new ways to study cancer, Crohn's, Huntington's and other serious diseases.

The grant, from the National Institutes of Health's Centers of Biomedical Research Excellence (COBRE) program, supports

five related projects.

"Through this center, we will be discovering new molecules that can be used to study, and ultimately to treat, human disease," says principal investigator Joseph Fox, professor of chemistry and biochemistry.

Because COBRE is designed not only to support specific projects but also to help institutions build new research areas and develop regional collaborations, the UD scientists will be working with partners, including the National Cancer Institute and the Nemours Center for Childhood Cancer Research. ■



All the news that fits your mobile device

As tablets and other mobile devices become an increasingly common part of everyday life, researchers in political communication are focusing more of their attention on how people use that technology to access news and other information.

The limitation of those studies, according to UD's Lindsay Hoffman, is that they have relied on the users' own reports about their behavior.

"These devices have become such an entrenched part of our lives that who can really accurately gauge their own media use?" says Hoffman, associate professor of communication. She set out to conduct a more objective analysis of mobile device use, providing 20 participants with state-of-the-art tablets for four months during the 2012 presidential campaign season.

Each tablet, with its user's knowledge, tracked every website visited and the time spent on each. Researchers then categorized each site by type and political leaning, from conservative to liberal, and the results were coded for computer analysis. UD computer scientist Hui Fang conducted the data mining.

Among the findings: Users spent more time with online aggregators (such as Google), recreational sites (playing games, for example) and social networking sites than with news or political sites; they tended to overestimate the time they spent with online news; and they showed what Hoffman calls "selective exposure," meaning that they were much more likely to visit sites that shared their liberal or conservative point of view rather than seeking out opposing ideologies. ■

'Lie detector' pinpoints accounting fraud

Nerissa Brown, associate professor of accounting and management information systems, has devised a new and more effective approach to identifying accounting fraud than traditional methods.

"There have been quite a few studies developing measures to help us predict which firms are fudging the numbers or trying to look better than they really are financially," Brown says. These studies examine various measurements in the hopes that they will help predict if a firm is manipulating its accounting.

But Brown's research uses a new variable to identify fraud: the number of topics that a firm discusses in its annual financial reports.

"You know how sometimes when people are lying they tend to talk a whole lot?" asks Brown. "In some ways, we're trying to pick up instances like that. Firms who are engaging in fraud tend to talk about issues that are not important when compared to other firms in the industry. They also underreport important risk factors."

Brown and colleagues at the University of Illinois found that an algorithm they developed and used in their model was highly successful, performing 2,083 percent better than traditional financial measurements at predicting accounting fraud between 2008 and 2012. ■

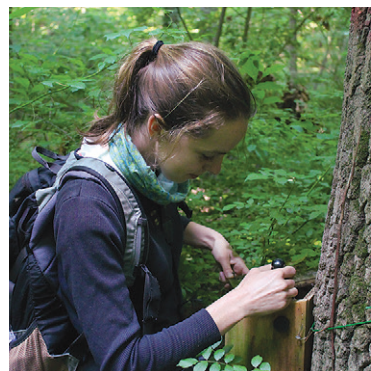
DOES INVASIVE PLANT RAISE RISK OF LYME?

A doctoral student in entomology and wildlife ecology is working to identify important ecological factors that contribute to Lyme disease infections in Delaware, which has one of the nation's highest per-capita rates of the disease.

Solny Adalsteinsson is conducting her research in a group of forest fragments around New Castle County, Delaware, sampling ticks, mice and birds to determine factors in those areas that influence tick-borne disease transmission and human disease risk.

When it comes to mice and the rate at which they transmit tick-borne diseases, Adalsteinsson points to a possible culprit—the invasive multiflora rose plant, which takes over an area and covers it in a dense thicket. Ticks are sensitive to drying out, and such a cover provides them with high humidity and stable temperatures. It's an attractive environment for mice, as well, she says, providing them with good cover from predators.

Adalsteinsson is also looking at birds, particularly how the influx of migratory birds during each breeding season affects the disease transmission cycle. To do this, she is netting birds across the forest fragments "to see if we can identify movement patterns that might explain how ticks are being moved across this type of landscape," she says. ■



Solny Adalsteinsson looks for ecological factors in Lyme disease.



KATHY E. ATKINSON

Handling it all

from field to classroom

Keith Handling, HS70, 81, remembers when many of the offensive linemen on the Delaware football team were just over 6 feet tall and weighed only about 220 pounds.

“Now, our running backs are that size,” says the new member of the UD Athletics Hall of Fame. “The players are bigger, stronger and faster than when I started as an athletic trainer. They’re in the weight room year round.”

Handling has had a front-row seat to that evolution. Between 1972 and 2007, he served as athletic trainer at every home and away Blue Hen football game—a streak of 438 consecutive games. He has also taught every student in UD’s Athletic Training Education Program since it was launched in 1973.

For the past six years, Handling has worked only in the classroom and not on the field, a career shift that has left him with mixed feelings.

“When I leave the office in the afternoon, and the football team is just going out for practice in the rain, I don’t miss that,” he says. “What I miss is teaching athletic training students in the classroom in the morning and then working side by side with them in the training room and on the field in the afternoon. It’s very rewarding to watch them apply what I’ve taught them.”

Handling started out as a student trainer himself under Hall of Famer Roy Rylander in 1967. He became assistant athletic trainer in 1972 and was promoted to head athletic trainer in 1988 when Rylander retired.

He has also been a faculty member since 1972, and his role as a teacher sparked his lifelong involvement with Delaware Special Olympics (DSO).

“I was teaching an adapted [physical education] class

in the early 1970s, and I realized that our students needed hands-on experience with special-needs kids,” Handling says. He began taking his students on field trips to local schools, and his interest in this work grew after he attended one of the first DSO summer games.

A DSO board member since 1975, Handling has seen the program grow from fewer than 100 athletes in a basketball tournament to thousands participating in sports ranging from soccer and swimming to cross country and skating. He was also instrumental in working with the University to obtain dedicated space for the program on UD land.

Handling has since received a number of honors for his work with the organization, including DSO Volunteer of the Year in 1995, induction into the DSO Hall of Fame in 1997, and recipient of the Governor’s Outstanding Volunteer Award in 1999.

The changes he has seen over the past four decades in the athletic training field include not only the size and skills of the players but also the face of the profession itself.

He recalls a few female students back in the 1970s, when they were the exception rather than the rule. Their numbers grew over time, however, and their presence changed things up in the training room, he says.

The profession has also become much more rigorous and scientific. “Most people don’t realize the clinical commitment our students make,” Handling says. “Way back when, trainers did things the way they did because that was how it had always been done. Now, we have scientific rationales for what we do, and our students need to know why they should follow a particular treatment protocol before they do it.”

As both an athletic trainer and a physical therapist, Handling has worked with a broad range of populations, including not only student athletes but also trauma victims and people recovering from strokes and traumatic brain injuries.

“Lots of physical therapy students want to work with kids, but some of my most rewarding experiences as a physical therapist in the summer have come from working with geriatric patients,” Handling says. “They have so many stories to share, and they’re willing to work very hard to maintain their independence.”

Handling is a dedicated Blue Hen. He earned two degrees from UD, in physical education in 1970 and physical therapy in 1981. His wife, Linda, is also a two-time UD alum, and their two sons, Matt and Tom, and their spouses are also Delaware graduates. ■

—Diane Kukich, AS73, 84M

New inductees represent 10 sports, 6 decades

Athletes from 10 different sports, five All-Americans, five conference champions, the first three-sport captain in school history and a nationally recognized athletic trainer highlight the newest induction class of the UD Athletics Hall of Fame.

The 18th induction class was honored in a private ceremony and reception for family and friends Nov. 21 and was introduced on the field at halftime of the Delaware vs. Villanova football game the next day. The Class of 2014 features representatives from every decade since the 1950s and the sports of football, men’s basketball, baseball, men’s cross country, men’s indoor and outdoor track and field, women’s basketball, women’s lacrosse, women’s swimming and diving, and softball.

“The contributions that this group has made to the legacy of Blue Hens athletics are truly remarkable,” says Eric Ziady, director of athletics and recreation services.

In addition to **Keith Handling** (see adjacent story), here are the new inductees:

Bill Armstrong, one of the top running backs in UD football history, played for three seasons in 1969-71 as part of the vaunted Wing-T offense.

Taurence Chisholm, perhaps the finest true point guard in the history of men’s basketball at UD, was a four-year starter in 1984-88 and set 12 school records, including several that still stand.

Karen Conlin was one of the top student-athletes in the early days of the women’s basketball program in 1974-78, directing the offense from her point guard spot and leading the team to four winning seasons.

Jamin Elliott, one of the most outstanding two-sport athletes in UD history, was a two-time all-conference wide receiver in football and a champion triple jumper in track and field during 1998-2002.

Clyde Louth, the only UD student-athlete to serve as team captain for three sports, earned nine varsity letters as a standout in basketball, cross country and track and field during 1953-57.

Herb Orensky was a two-sport standout—a power-hitting catcher in baseball and a hard-hitting safety in football—for the Blue Hens in 1975-79, playing on six winning teams.

Sarah Pepper (now Bozeman), in just two seasons at UD after transferring from Nebraska, dominated the action in the pool as a member of the swimming and diving teams in 2002-04.

Joe Purzycki, a top defensive back, earned All-American honors in 1967-69 while leading the Hens to consecutive conference titles. He was a defensive backfield coach when the team won the 1979 national title.

Jennifer Rinnander (now DiValerio) was one of the most prolific scorers in the history of Delaware women’s lacrosse, leading the Hens in scoring four straight years, from 1991-94. ■

Hens to face top teams in future seasons



MARK CAMPBELL

Atlantic Coast Conference opponents will be familiar names on the football squad's schedule in the coming years, UD Director of Athletics and Recreation Services Eric Ziady announced recently.

Delaware has finalized deals with five ACC schools to play road games against

teams from that powerful NCAA Division I Football Bowl Subdivision conference over the next six seasons.

The Blue Hens will travel to the University of North Carolina (Sept. 26, 2015), Wake Forest (Sept. 17, 2016), Virginia Tech (Sept. 2, 2017), Pittsburgh (Aug. 31, 2019) and

North Carolina State (Sept. 5, 2020). Pittsburgh, Virginia Tech and North Carolina all played in bowl games following the 2013 season, while Virginia Tech, North Carolina State and Pittsburgh appeared in bowl games during the 2012 campaign.

"It is exciting for us to have the opportunity to play some of the nation's top football programs on our schedule year in and year out," Ziady says. "Playing schools from the ACC gives our student-athletes the chance to compete against some of the top teams in the country, and I know our fans will be excited to see these opponents on the schedule and to visit

some outstanding venues to cheer on the Blue Hens."

Head coach Dave Brock also calls the schedule "a great opportunity" for players.

"We look forward to the opportunity to compete annually against some of the nation's best," Brock says. "This will create great excitement for our football team and for all the people who love Delaware football."

Since the 2003 season, the Blue Hens have played eight games against FBS opponents, including Navy and Maryland. ■

In October, well into their 12-game season, the Blue Hens had a 4-4 record. For updates, visit BlueHens.com.

THE BLUE HENS CLUB



Each year, over 3,000 Delaware alumni and fans across the nation support Blue Hens coaches and student-athletes by joining the Blue Hens Club. Annual gifts to the UDAF help provide our 21 varsity programs with the resources needed to compete for championships. Support our 600+ student-athletes by joining the Blue Hens Club today!

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Conference games tip off early in the new year

The men's and women's basketball teams begin conference play at home in early January, with each squad scheduled for 18 Colonial Athletic Association matchups this season.

The men's team, coming off the CAA championship last year, opens its league slate vs. Northeastern at the Bob Carpenter Center on Saturday, Jan. 3. The Blue Hen women open their 2015 CAA campaign at home on Jan. 4 against league newcomer Elon.

Both teams began 2014-15 in non-conference, away games—the women on Nov. 14 at Lafayette and the men

on Nov. 17 at Liberty.

The schedules as initially announced were preliminary, with all CAA dates and times subject to change based on television schedules. For updates on both teams' schedules and game results, visit www.bluehens.com.

The Delaware men are looking to defend their CAA title after finishing 25-10 overall last year, claiming the league's regular season title with a 14-2 mark and capturing the first CAA championship in school history by winning the league tournament in Baltimore. One highlight of this season

is expected when the squad heads to William and Mary on Feb. 14 for a game that will be televised by NBC Sports Network. Delaware closes its regular season on the road at Towson on Feb. 28.

The men's CAA Tournament will be March 6-9 at Baltimore Arena in Maryland.

The Delaware women ended last season with a 20-11 record overall, 10-6 in conference play. In their final home game at The Bob this season, they take on James Madison on March 1. The team will travel to North Carolina to close



the season with a contest at Elon on March 4.

The CAA Women's Basketball Championship returns to The Show Place Arena in Upper Marlboro, Maryland, March 12-15. ■

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Getting up to speed for a Mars landing

Moments after the saucer-shaped test vehicle begins its rocket-powered flight, its camera photographs the balloon that carried it aloft. Below, Tom Frey on the launch pad

NASA/JPL-CALTECH

Editor's note: Tom Frey, EG84, 90M, is a mechanical engineer at ATK Missile Defense and Controls in Elkton, Maryland. The business is part of ATK, an aerospace, defense and outdoor sports and recreation products company. Frey was lead engineer on a recent aerospace project designed to help NASA prepare for future missions to Mars. Here, he gives his account of the project.

If you've seen reports or videos about a flying saucer in Hawaii, don't panic. It was just NASA getting us one step closer to landing humans on another planet.

On June 28, NASA successfully conducted a flight test of a low-density supersonic decelerator (LDSD) system from the Pacific Missile Range Facility on the Hawaiian island of Kauai.

The test program's purpose is to evaluate and demonstrate the effectiveness of two key elements—a supersonic parachute and an aerodrag device called a supersonic inflatable

aerodynamic decelerator (SIAD)—in a new system for landing bigger payloads on another planet. The new system provides the capability of landing heavier payloads in preparation for NASA's future Mars missions, which may eventually include humans.

The flight vehicle was launched, or lifted, using a huge balloon, roughly the size of the Houston Astrodome, to achieve an altitude of about 120,000 feet. This altitude was necessary to perform the test in a thin atmosphere resembling that of Mars.

The vehicle was "dropped" from the balloon, and a rocket motor was fired to accelerate the vehicle to a high velocity (Mach 4) to simulate Mars entry conditions. After motor burnout, the vehicle was allowed to coast until its velocity decreased to a predetermined value before inflating the SIAD. Once the SIAD slowed the vehicle to the proper velocity (approximately Mach 2.5), the parachute was deployed, allowing the vehicle



to splash down in the Pacific Ocean, where it was recovered for posttest examination.

ATK Missile Defense and Controls designed and manufactured the STAR™ 48B axial propulsion solid rocket motor that accelerated the test vehicle. The motor design is a variation of the Delta II third stage, which had more than 100 successful flights.

“This project once again demonstrates the high performance, reliability and versatility of ATK’s STAR motor product line and also ATK’s continuing commitment to supporting NASA missions,” said program manager Jeff Bemis, who earned his master’s degree in business administration from UD in 2001. “It was the culmination of two years of good teamwork.”

From my point of view, as lead engineer for the project, this was probably the most unexciting “countdown” ever. Instead of a typical “3, 2, 1 liftoff!” rapid acceleration event, it was “3, 2, 1,” followed by a two-hour slow-balloon-ascent phase.

Once it got to the desired altitude, however, the excitement started. The ATK motor, which was custom-designed to meet this mission’s requirements, performed flawlessly to propel the system to the proper velocity. Basically, ATK got NASA’s LDSD system up to speed.

It made me think about Jack Vinson [H. Fletcher Brown Professor Emeritus of Mechanical Engineering], who supervised my master’s degree research at UD. I remembered Dr. Vinson telling me about one of his early pioneering projects studying composite materials—before they were even called composite materials—for Earth re-entry heat shields. In a way, this project is a continuation of that work. But this time, NASA is focused on Mars.

ATK MDC employs many UD alumni, including Mike Lara, vice president of strategy and business development, who



earned his bachelor’s degree in mechanical engineering in 1982 and a master’s degree in business administration in 1984.

“ATK has long supported NASA with propulsion for space exploration initiatives, dating back to the Mercury, Gemini and Lunar Surveyor programs in the 1960s that paved the way for the Apollo missions, and more recently has supported science missions to the moon and Mars,” said Mike.

“One of the more interesting aspects of this project is that our motors are being recovered and returned to us. This allows us the rare opportunity to evaluate a motor that has been flown in a space environment. Typically,

our spent motors remain in space or are lost during re-entry.”

The ATK Space Components division also supported the program by providing the composite core structure assembly that connected the motor to the vehicle. ILC Dover, in nearby Dover, Delaware, also played an important role in this project, providing the SIAD device that helped slow the vehicle to subsonic speeds.

Next, NASA’s Jet Propulsion Laboratory will take time to fully evaluate and understand the data obtained from this first flight test and make any adjustments necessary. Additional flights are planned, scheduled to begin in the summer of 2015. NASA is targeting the next mission to Mars for 2020. ■

“ATK has long supported NASA with propulsion for space exploration initiatives, dating back to the Mercury, Gemini and Lunar Surveyor programs in the 1960s that paved the way for the Apollo missions, and more recently has supported science missions to the moon and Mars.”

—Mike Lara, EG82, BE84M



ROBERTO GONZALEZ

Frozen assets

Florida learns to love a Philly favorite

Jeremy Litwack, BE93, was 18 years old when he began selling water ice as a street peddler in Philadelphia. Today, he is the founder and CEO of Jeremiah's Italian Ice, a thriving enterprise with 150 employees and eight stores throughout Florida.

When Litwack opened his first store in Orlando in 1996, he says most people in the area had never heard of water ice. But now, with a menu of more than 40 water ice flavors, soft serve and gelati, the business has a strong customer following both in stores and online.

Some 60,000 Facebook fans and email subscribers (called J-List members) stay updated on events, store openings and Litwack's rotating lineups of creative flavors and names. As he continues to experiment with flavors, recent menu items have included Key West Tropical and Pumpkin Pie. One customer favorite is a mint-chocolate-chip concoction called Scoop Froggy Frogg.

"The real gold comes in the moments when I am able to personally engage with a customer who shares a story or two about how much Jeremiah's has meant to their life," Litwack says. "Be it as their favorite high school hangout, the site of their first date or even wedding engagement, these stories and interactions are what truly drive me."

Litwack credits his time at the University of Delaware for teaching him lessons that were crucial to the ongoing success of his company, such as strategic market analysis. Careful market analysis aids him in everything from site selection to product development to promotional campaign planning as Jeremiah's Ice continues to grow, he says.

"My experience at UD in the marketing program was the initial spark that lit my curiosity and my passion to venture out and create my own future built upon my Italian ice street peddling roots," Litwack says. "The principles learned in the program have continued to guide me to this day."

He says he also learned valuable skills outside of the classroom during his student years—coincidentally, another connection to ice—as a member of UD's hockey team.

"My experiences on the ice nurtured my competitive spirit and built a strong appreciation for teamwork and camaraderie," he says. "The Fightin' Blue Hens instilled in me the value of determination and grit."

To students who hope to become entrepreneurs themselves, Litwack says that loving what you do is crucial to overcoming adversity. "There is absolutely no substitute for passion," he says.

Jeremiah's Ice is poised to double in size within the next year, and Litwack plans to continue to expand with the goal of becoming a nationally respected frozen dessert brand.

"Owning my own business is rewarding on so many levels," he says. "Jeremiah's Italian Ice has afforded me the creative freedom to mold my own professional destiny. I am in direct control of how my future evolves and have had the great fortune of watching my initial vision grow and mature into the fun, robust and vibrant brand it is today." ■

—Sunny Rosen, AS15

NFL injuries all in a day's work

The first few weeks of the 2014 NFL season saw stars like Robert Griffin III, Ryan Mathews and Dennis Pitta go down with play-stopping injuries.

Athletic trainers are usually the first professionals on the scene when players are hurt on the field, and a number of UD

athletic training alumni are among their ranks.

Many students in the program, through internships and employment, also have had a front-row seat to the treatment of injuries in the NFL.

"We've developed such a good relationship with NFL teams over the past decade that we're sending eight to 10 students out every year," says Tom Kaminski, professor and director of the Athletic Training Education Program. "Some of them have been invited back all three years by the same teams."

One of the two alumni currently working as full-time NFL athletic trainers is Steve Feldman, an assistant trainer with the Philadelphia Eagles, who graduated in 2010 and then went on to complete a doctor of physical therapy degree at UD as well.

"The Athletic Training Education Program provides its students with the highest level of fundamental background knowledge and skills required at the professional level," says Feldman, who joined the Eagles in 2013. "As a freshman, I saw three students participate in NFL training camp internships, and I knew immediately that I wanted to do that too. The summer before my junior and senior years, I spent in training camp with the Seattle Seahawks, where I sharpened my skills and made lasting friendships."

Other alumni working with the NFL are Jon Hernandez, HS10, full-time assistant trainer with the Buffalo Bills, and full-time seasonal interns Harrison Grube, HS12, Seattle Seahawks; Corey Lopez, HS11, Chicago Bears; and Uriah Myrie, HS11, Buffalo Bills. ■



Steve Feldman HS10, 12DPT

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Student-athletes won't miss a beat

Greer Firestone, AS69

Foundation offers free screenings

When it comes to matters of the heart, Greer Firestone, AS69, knows that detection is key. Firestone is dedicated to detecting medical heart conditions in a demographic of the population with which they are not conventionally associated.

"Sudden cardiac arrest is the No. 1 cause of death of student-athletes during sports participation," he says.

In June 2011, his teenage daughter, a lifelong athlete, suddenly collapsed and her heart stopped beating. Thanks to immediate medical attention, she survived and is currently a thriving senior at UD.

But many who suffer from sudden cardiac arrest are not so lucky. The condition results in a ceased heartbeat that prevents blood flow to the vital organs. If not treated immediately, death is likely to occur in a matter of minutes, according to the National Institutes of Health website.

"What can I do so that this doesn't happen to other families?" Firestone says about his efforts to spare Delawareans from the terror of sudden cardiac arrest.

Heart in The Game is a foundation Firestone established to generate awareness of sudden cardiac arrest. Through it, he hopes to provide resources and education to schools throughout the state, ultimately providing free electrocardiogram, or EKG, screenings to every middle and high school student in Delaware.

Since its founding, several Heart in The Game events have been held.

"Initially, each event had two legs," Firestone says. "We provide a free EKG screening to every student in

attendance, while also offering basic [resuscitation] training."

An EKG is a relatively simple test that measures heart activity, but it is not routinely performed. "EKGs are not part of a physical exam and can cost \$100 in a pediatrician's office, if not more," Firestone says.

Preventive testing is crucial in detecting heart abnormalities that could lead to sudden cardiac arrest, especially since the condition can strike with no warning signs.

For Brandywine High School student Joseph Till, Heart in The Game has been life-saving. In January 2014, Till and his family attended the inaugural Heart in The Game event and took advantage of the free EKG screenings. Pediatric cardiologists on hand for the event noticed some abnormalities in Till's results and suggested follow-up tests.

Till was diagnosed with a heart condition known as Wolff-Parkinson-White syndrome and underwent a nine-hour surgery. After a speedy recovery, he is now healthy and has resumed his athletic passions, says Firestone.

In addition to the free screenings, both parents and students can receive basic CPR and automated external defibrillator (AED) training at each Heart in The Game event. After calling for immediate medical help, knowledge of CPR and AED can play a major role in the survival of someone suffering from sudden cardiac arrest, according to Firestone.

"I asked New Castle County Executive Tom Gordon if he would offer his paramedics for this training," he says. "Immediately, he said yes."

The community has played a major role in efforts to thwart sudden cardiac arrest, including a freshly enacted piece of legislation designed to protect and educate student-athletes.

Firestone leveraged his relationships with state politicians, the Delaware Interscholastic Athletic Association (DIAA), nurses and teachers to draft a



PHOTOS BY TYLER JACOBSEN

At a recent screening at Christiana High School, a student (top) has an EKG, while Greer Firestone speaks with a paramedic.

resolution and rally support for the Grace Firestone Act. State Sens. Cathy Cloutier and Bethany Hall-Long (also a professor in UD's School of Nursing) co-sponsored the bill.

On Aug. 25, 2014, Gov. Jack Markell signed the bill. The legislation requires the DIAA to create regulations to better identify at-risk student-athletes and educate coaches and officials on sudden cardiac arrest.

"Things are rocking and rolling now, and we have the support of the community," says Firestone. "I've been thrilled that we've made such progress with Heart in The Game in this short amount of time."

Today, the foundation is expanding its statewide mission. Westside Family

Healthcare, a nonprofit equal-access healthcare center, is a new partner. At a September event open to all students at Christiana High School, attendees received free blood pressure and body mass index readings in addition to the initial offerings.

“Now, we’ve gone from two legs to four,” Firestone says. “At future screenings, AAA will have a station to speak about their important ‘Drink, Drive, Disaster’ campaign.”

“I think it’s important to expand our mission so that we can go throughout the state and really make a difference in people’s health.”

For more information, visit heartinthegame.org. ■

—Kelley Bregenzer, AS12

Buffett and Berkshire

Lawrence Cunningham,
BE85

Law professor lectures on corporate culture

Lawrence Cunningham, BE85, a professor of business law at George Washington University and the author of the bestseller *The Essays of Warren Buffett: Lessons for Corporate America*, returned to UD this fall to speak with students and faculty.

A leading authority on corporate governance and culture, Cunningham earned his bachelor’s degree in economics at UD in 1985 and his law degree at Yeshiva University. His lecture, part of the Lerner College’s Chaplin Tyler Executive Leadership Series, was also his first stop on a 15-campus tour for his new book, *Berkshire Beyond Buffett: The Enduring Value of Values*.

“It’s a great honor to return to my alma mater,” he said during his talk in Purnell Hall. “I studied across the street at Morris Library, enjoyed the



Lawrence Cunningham speaks at UD.

great dorm life at UD and, of course, engaged in many erudite debates over beers at the Deer Park Tavern.”

The University, Cunningham said, is in an ideal location because of Delaware’s status as the corporate capital of the United States.

“From an early age, that corporate life got into my blood,” he said. “This led to many fascinating studies, including that of Berkshire Hathaway.”

Cunningham has become a leading authority on Berkshire, the fifth largest corporation in the nation, as well as its CEO, Warren Buffett. He calls the company a microcosm of corporate America, providing an opportunity to examine topics in business, from accounting and investing to management and leadership.

Many observers believe that Berkshire is so associated with Buffett that the company won’t survive without him, Cunningham said, but his own research has led him to a different conclusion.

“Buffett’s most important achievement, beyond vast fortune and generous philanthropy, is building an organization that is larger than himself,” he said. “It’s true that Buffett epitomizes Berkshire, but it’s far from a one-man show.” ■

—Sunny Rosen, AS15

Letters, reunions keep memories alive

Laurie Bliss Krebs, EH59

Celebrating 55 years of friendship

In June 1959, a group of about 20 new UD alumnae—most of them with degrees in education or home economics, traditional fields of study for women in the 1950s—resolved to keep in touch after graduation.

One of the group, Laurie Bliss Krebs, EH59, recalls that they knew marriage, jobs and children would make getting together difficult, so they began a “round robin” letter that traveled wherever the women lived.

“There were no emails, iPhones or social media to hasten the letter’s 12-month journey,” Krebs says, “but the connections remained strong and gradually lengthened into lifelong friendships.”

As women’s roles changed, many of the alumnae earned graduate degrees or pursued new careers in a variety of fields.

In later years, the women began having reunions, meeting regularly in locations including New York City, Vermont and Bethany Beach, Delaware. And their tradition continues: This June, 55 years after graduation, 18 of the women gathered in Wilmington, some traveling from as far as Texas, Florida and Colorado.

“It was a time to share memories and photographs, conversation and laughter, but especially, it was a time to remember with gratitude the lifelong friendships” they had formed, Krebs says.

WEB EXTRA: To read a longer account and see a photo and a list of attendees from the group’s 2014 reunion, visit www.udel.edu/udmessenger. ■



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A prescription for better health care

When Lolita Lopez, EH76, 81M, signed on in 1990 to head Westside Family Healthcare, the nonprofit had a budget of \$340,000—enough to get it through the next 18 months.

“They were about to run out of money,” says Lopez, who stepped in as the fledgling group’s fourth executive director in two years. “My personality is: Take on a problem, find a solution, and help it grow.”

Today, Westside provides comprehensive health services to underserved communities at six sites in Delaware, with a budget of \$17 million and 230 employees, up from the 3.5 original positions. Among those employees are four former interns from UD’s School of Public Policy and Administration. The organization also provides training for UD nursing students.

The centers field 100,000 visits each year from 27,000 patients, Lopez says. It’s a far cry from the 1,300 annual visits

to Westside’s tiny first clinic in the Adams Four Shopping Center, just blocks away from today’s flagship building on West Fourth Street in Wilmington. To put that into perspective, consider that Westside physicians and nurses help deliver 600 babies each year, according to Lopez.

From head cheerleader at Dover High School to CEO today, Lopez always has taken the lead.

“Every job I took, I kind of ended up being in charge,” she says. “I guess it’s my personality.”

When she enrolled at UD in 1971, Lopez planned to become a teacher. Upon graduation in 1976, she found jobs to be scarce and accepted a position as a teacher’s aide with Head Start. “My father screamed,” she recalls with a laugh. “I’ve always been attracted to nonprofits in underserved communities.”

But Lopez was disturbed to see the program’s hard work with its students erode over the weekend. “The parents

weren't continuing the discipline," says Lopez, the youngest of four children born to Spanish immigrants.

So she got involved with Home Start, undergoing training in the hills of West Virginia. She learned how to bring the classroom into the homes of parents with preschoolers, and show them how to teach their children.

"We'd sit there at the kitchen table, and I'd show them how to teach shapes to their children," she says. "We worked on nutrition, and lots of social services. I became very interested in social work."

Lopez returned to UD, where she enrolled in a graduate counseling program that allowed her to work full time while earning her degree in 18 months.

Following leadership positions at Children's Beach House—a residential program in Lewes, Del., for children with special needs—and the Boys and Girls Clubs of Delaware, Lopez set her sights on an executive director position.

"I got very interested in policy. How do you effect change? Through policy," she says.

She looked around for a small organization that would allow her to learn and develop the management and financial skills she needed to round out her resumé.

At the time, she'd never heard of Westside. Now, "I hope to retire with Westside—though they may have to push me out," says Lopez, 61, who lives with her husband, Donald Jesse, in Middletown, Delaware.

These days, much of her job is political, and she works closely with Delaware's congressional delegation. "I've been called during a vote on The Hill: 'Lolita, what do you think?'" she says.

Her work hasn't gone unnoticed.

In 2006, she became the first Hispanic honoree in the Delaware Women's Hall of Fame. In March, Lopez was inducted into the Grassroots Hall of Fame for the National Association of Community Health Centers.

She is proud of one recognition in particular: On the 20th anniversary of her employment, she was honored with the creation of the Lolita Lopez-Jesse Endowment for Westside Healthcare through the Delaware Community Foundation, with initial funding of \$100,000.

The endowment will serve as a safety net to support operating costs, which are the trickiest funds to raise, she says.

"Hopefully, that will grow, and people will remember me," Lopez says. "That's pretty special." ■

—Suzanne Sczubelek Herel, AS89



Parents dedicate efforts to 'Saving Eliza'

Glenn, BE98, and Cara, AS97, O'Neill have received widespread attention this year, setting a record for crowdfunding to support a foundation they established and appearing in national media including an interview on NBC's *Today Show* in June. It's all part of their efforts to find a cure for a rare, deadly genetic disease affecting their 4-year-old daughter.

"We didn't expect all this attention, but as a parent, when your child's life is at stake, you just have to keep pushing ahead," Glenn O'Neill said recently. "I had never heard of Sanfilippo Syndrome—no one I talk to has ever heard of it—but when Eliza was diagnosed, my wife and I jumped right into learning about it and trying to do something."

The O'Neills are racing the clock to raise the money to fund a gene therapy trial, originally scheduled for late 2014. Using Gofundme.com, they showed a three-minute video, "Saving Eliza," they had recorded and asked for help, eventually raising some \$1.5 million to support the manufacture of medications for the clinical trial. They are continuing to raise funds for their Cure Sanfilippo Foundation so that the trial can go forward. Approvals from the U.S. Food and Drug Administration also are needed.

"We don't know if Eliza will be able to be part of the trial [which will focus on children whose disease has progressed only to a certain point], but we're in this for the long haul to help all kids," Glenn O'Neill said in a September interview.

Cara O'Neill is a pediatrician for special needs children, and Glenn works in procurement. They live in South Carolina. ■

Resilience and reconciliation in Rwanda

“This is a homecoming for me,” said Louise Mushikiwabo, AS88M, minister of foreign affairs and cooperation for the Republic of Rwanda, when she gave a talk on campus in October.

Accompanied by Mathilde Mukantabana, Rwanda’s ambassador to the United States, Mushikiwabo spoke about social cohesion, resilience, reconciliation and moving forward in her nation.

Twenty years since Rwandan genocide, the country has taken great strides politically and socially to rebuild, she said, adding that learning to live together as human beings has been the best approach to conflict.

“I am very proud of my country,” she said. “The people of Rwanda have made serious sacrifices so we can get back together as a people and a country.”

Rwanda, which is slightly smaller than the state of Maryland, is a landlocked country in East Africa whose main exports include coffee and tea. It has recently begun investing in infrastructure and energy.

“We are working to provide economic opportunity mixed with our own home-grown solutions based out of our own communities,” Mushikiwabo said.

Rwanda has a collaborative tourist zone with Kenya and Uganda, and plans to be a middle-income country by the year 2020 through its Vision 2020 plan. Sixty-four percent of Rwandan parliamentarians are women, the highest proportion of any parliament in the world, and the country is a part of the U.N. Security Council.

“We want to contribute to a peaceful world in a meaningful

way,” Mushikiwabo said. “Social cohesion is key.”

She told her audience at UD that a combination of parliamentary and modern law has contributed to a reconciled nation. In December, an annual meeting provides an opportunity for the government and the people to talk to one another, figure out where they stand as a nation and allow people, not just politicians, to become a part of the discussion.

“One way to keep people with a sense of belonging is to give an opportunity to everyone in the

same way,” Mushikiwabo said.

Creating a culture of efficiency and openness, government reforms, social cohesion and an appreciation for cultural values, she said, have helped transform and rebuild Rwanda since the 1990s. She said a sense of community has been restored throughout the country, which has created opportunities and contributed to the successful transformation of the country. ■

—Elizabeth Adams, AS13

From Rwanda to Delaware and back

Mushikiwabo immigrated to the United States in 1986. Two years later, at UD, she received a master’s degree in languages and interpretation, with a focus in French.

Theodore Braun, a retired professor of French and comparative literature who attended Mushikiwabo’s talk on campus, remembered her as an excellent student.

“It was a rich experience knowing her, and having her in class was wonderful,” he said.

Braun said the nature of her talk was surprising, because he was well aware of how she had been affected by the genocide, which is mentioned in the socio-historical memoir, *Rwanda Means the Universe*, that she co-authored in 2006.

“I was absolutely amazed by her talk; she never once spoke of the horrible things that happened in her own family,” Braun said. “She was personally affected, but you wouldn’t know it. It is one thing to talk about getting along with people and another thing to live it. She is an inspiration.”

He spoke fondly of Mushikiwabo as a student and with utmost respect as a senior official in her country.

“She has the remarkable ability to see a final goal and know where to put the building blocks,” Braun said. “Imagination and intelligence—that is rare.” ■



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FROM OUR ALUMNI ASSOCIATION

I love the opportunity to talk to other alumni, students and friends of the University about the many ways one can give back to UD.

Volunteering is a great example of how alumni can give back and stay involved after graduation. Serving on a regional alumni club board, coordinating events for Blue Hen

Cities, volunteering with the UD Alumni Association (UDAA), serving on a reunion committee or college advisory council, assisting at student events and mentoring students are just some of the ways Blue Hens can lend a hand.

UD alumni flock together all over the U.S. and the world. From sporting events to career networking get-togethers to cooking demonstrations, a wide variety of activities are planned to attract all Blue Hens. UD Regional Alumni Clubs have a formal volunteer leadership structure and are charged with planning events and engaging Blue Hens in their area. Blue Hen Cities represent areas and regions with a more casual structure, usually with a smaller alumni population.

The UDAA is managed by a volunteer board of directors, which consists of three officers, 24 directors, members at large and the immediate past president. The UDAA works to ensure that all current and future alumni have a fulfilling, lifelong relationship with our great University. The full board meets on campus quarterly, and the various committees meet periodically to carry out their work, often via conference calls.

The relationships built through serving your alma mater will last a lifetime, and I encourage all Blue Hens to look into which area of service fits your particular passion. To learn more about the many volunteer opportunities available, visit UDconnection.com or email alumni-association@udel.edu.

Sincerely,



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



The UDAA board at its September meeting

PLAN NOW FOR LOVEBIRDS CONTEST

This Valentine's Day, the Office of Development and Alumni Relations wants to once again meet and celebrate Double Dels—married and civil union couples where both partners are UD graduates—through its Lovebirds Contest.

All Double Dels are encouraged to start planning now for a chance to be named the official 2015 UD Lovebirds. First-, second- and third-place prizes will be awarded.

Keep an eye on the UD alumni Facebook page for details on how and when to enter and to vote for a winner: www.facebook.com/UDAlumni. Couples will be asked to post a photo of themselves directly on the page in early February, and all Blue Hens will vote for their favorites.

Participants can share a throwback picture, a recent picture, or a compilation of the two. Creativity and UD spirit are strongly encouraged. The photo that receives the most "likes" will be the winner of the top title.

Photos posted before the contest officially opens will be removed without notification.

"We look forward to seeing your submissions and hearing your stories," says Tricia Fitzgerald, director of alumni engagement.

The UD Office of Development and Alumni Relations creates a culture of connection within the Blue Hen community, fostering lifelong, mutually rewarding relationships. For more, and to find and connect with fellow alumni, visit www.UDconnection.com. ■

REMINISCE, REFLECT WITH ONLINE YEARBOOKS

The University of Delaware Library has announced the completion of the digitization of UD yearbooks, all of which are now accessible online.

The yearbooks, published under varied names, were scanned at a high resolution and are full-text searchable. A user can search online for a specific name, word or topic in each yearbook.

From 1834-1859 and 1870-1921, the institution was named Delaware College. In 1921 it was renamed as the University of Delaware—an all-male institution. A separate Women's College of Delaware was founded in 1914, and the two merged to become a coeducational institution in 1945.

The two digital collections contain an electronic reproduction of every yearbook published for both Delaware College and the Women's College, as well as the University of Delaware.

Visit www.lib.udel.edu/digital and click on "Blue and Gold Yearbooks" for 17

volumes from the Women's College or "Blue Hen Yearbooks" for the collection encompassing 75 publications from Delaware College and UD.

The oldest yearbook, titled *Aurora*, dates to 1899 and was produced by Delaware College. The second yearbook was published four years later in 1903 with the title *The Derelict*. The University of Delaware yearbook was named the *Blue Hen* with its 1912 publication, and that title was retained until 1999, when it ceased publication. The yearbook of the Women's College was *Blue and Gold*, with the exception of the first yearbook in 1918, which was published under the title *The Chronicle*.

"I think that alumni of the University of Delaware will greatly appreciate the ability to view the online version of the yearbooks to identify wonderful memories and warm reflections of their time at the University," says Susan Brynteson, vice provost and May Morris Director of Libraries. ■



REGIONAL ALUMNI CLUB EVENTS

Baltimore Alumni Club

December, Symphony of Lights
January, Maryland Science Center

Lancaster Alumni Club

March 12 (with Philadelphia Alumni Club), Philadelphia Orchestra

Lehigh Valley Alumni Club

Jan. 14, Lehigh Valley Phantoms hockey game and social

New Castle County Alumni Club

Jan. 10, family bowling fun
Jan. 21, open board meeting
Feb. 14, Valentine's Day ice skating at Fred Rust Arena

New York City Alumni Club

December, Off-Broadway show
Dec. 10, open board meeting
January, bocce ball
February, New York Public Library tour
March, "An Evening of Conversations and Connections with New York Alumni"
Spring, New York Botanical Gardens tour and reception
Spring, river cruise

Philadelphia Alumni Club

February, communications networking event
February, Philadelphia Flyers reception and game
March 12 (with Lancaster Alumni Club), Philadelphia Orchestra

Pittsburgh Alumni Club

Dec. 7, Wigle Distillery tour

San Diego Blue Hen City

Jan. 13, all-alumni event with UD President Patrick Harker and College of Earth, Ocean, and Environment Dean Nancy Targett

South Florida Alumni Club

Dec. 7, Ravens at Dolphins, tailgate and game

Washington, D.C., Alumni Club

Dec. 11, annual holiday party

General alumni events at UD

Dec. 6, Breakfast with Santa
March 14, Easter Egg-Stravaganza
All alumni and their families are welcome to attend.

For details and to register for any club events, please visit www.UDconnection.com/clubs.

1950s

John Farnandez 57EH, of Lynchburg, Va., is a member of the board of governors of the Lynchburg College chapter of the Phi Kappa Tau fraternity, which he helped found there in 2012-13.

1960s

Henry F. Russell 63AS, 65M, of Charlotte, N.C., a faculty member of Johnson C. Smith University there since 1979, has retired as professor emeritus of chemistry.

Henry P. Wilson 63AG, 65M, of Belle Haven, Va., professor of weed science in the College of Agriculture and Life Sciences at Virginia Tech, where he joined the faculty in 1985, has been conferred the title of professor emeritus.

Terry A. Girdon 64AS, of Williamsport, Pa., professor of business administration and management at Pennsylvania College of Technology, has been elected to a three-year term on the International Assembly for

Collegiate Business Education's Board of Commissioners.

Linda Millstone 69AS, of Austin, Texas, associate vice president of the University of Texas at Austin's Division of Diversity and Community Engagement, has been appointed by Texas Gov. Rick Perry to the Governor's Committee on People with Disabilities.

1970s

Sharon Baker 71AA, 73AS, of Wilmington, Del., an award-winning documentary filmmaker whose films, television programs and screenplays have aired on networks including PBS, National Geographic and the History Channel and have been recognized at numerous festivals, won a 2014 Delaware Governor's Award for the Arts.

Bangalore T. Lakshman 71EG/M, of Hockessin, Del., has been awarded an honorary doctoral degree from Bangalore University, in recognition of his professional and philanthropic service in the fields of education and health care.

Dr. David W. Willis 72AS, of Chevy Chase, Md., who for 35 years had a developmental-behavioral pediatric practice in Portland, Oregon, is now director of the Division of Home Visiting and Early Childhood Systems for the U.S. Department of Health and Human Services' Maternal Child Health Bureau.

Joseph Fehrenbach 74EO, of Hampton Cove, Ala., has been appointed president and CEO of Intergraph Government Solutions, which serves the U.S. federal market with enterprise engineering software and solutions.

William A. Kolbe 74AG, of Denville, N.J., a retired lieutenant colonel with 28 years of service in the U.S. Army Reserves, is technical director for Viking Termite and Pest Control, where he recently marked 40 years in the urban entomology/structural pest control industry.

Ferris W. Wharton 74AS, of Wilmington, Del., a veteran state and federal prosecutor in Delaware and most recently an assistant public defender, was appointed by Gov. Jack Markell and unanimously confirmed by the state Senate as a judge in the Superior Court of New Castle County, Del.

Kevin F. Brady 75AS, of Greenville, Del., an attorney who has published numerous articles on subjects involving e-discovery,

records and information management, data privacy and data security, has joined Redgrave LLP in Washington, D.C., as of counsel to the law firm that focuses exclusively on information law.

Bernie Murphy 75AG, of Perrysburg, Ohio, president of the chemical business Jones-Hamilton, where he has worked internationally in the development and marketing of animal health products, recently served as the first executive in residence at the University of Arkansas Dale Bumpers College of Agricultural, Food and Life Sciences.

Ronald Notvest 76AS, of Lederach, Pa., has joined Tonix Pharmaceuticals, a clinical-stage pharmaceutical company focused on common disorders of the central nervous system, as senior vice president for commercial planning and development.

Daryl Sharp 76HS, of Rochester, N.Y., professor of clinical nursing, founding director of the Doctor of Nursing Practice program and director of care management at the University of Rochester Medical Center, has been selected as a fellow of the American Academy of Nursing.

Mauro Panzera 78AS, of Wilmington, Del., who has more than 35 years of international business experience, has joined



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

Olympusat as chief operating officer of the company that is the leading owner and distributor of independent Spanish-language TV networks.

Gerald L. Reeves 78BE, of Cape May, N.J., president and CEO of Sturdy Savings Bank and a member of the Federal Reserve Bank of Philadelphia's Community Depository Institutions Advisory Council, has been named chairman of the New Jersey Bankers Association.

JoAnn B. Coleman 79EG, of Gaithersburg, Md., a registered professional engineer with more than 30 years' experience in design, construction and dispute resolution, has joined the construction claims group of Hill International as vice president.

Beverly Stewart 79EH, 84M, of Avondale, Pa., founder and president of Back to Basics

Learning Dynamics in Wilmington, Del., has been recognized by *SmartCEO* magazine as one of the top female CEOs in the greater Philadelphia region.

1980s

Brint Spencer 80AS, of Caldwell, N.J., has been named director of the Turtle Back Zoo in West Orange, N.J., where he was the general curator for five years.

Vicky Titcomb 80AS/M, of Marion, Mass., after a career as a museum professional, now manages her family's business, Titcomb's Bookshop in East Sandwich, Mass., where four generations have worked.

Beth Casey Halley 81HS, of Leesburg, Va., an expert in nursing informatics and a principal at the Center for Transforming Health research and development center, has been named one of the 26

"smartest people in health IT" by *Becker's Hospital CIO*.

Andrea E. Martin 81AS/PhD, of Avondale, Pa., associate professor of chemistry at Widener University, has received the 2014 Ronald T. Pflaum Outstanding Chapter Advisor Award from Alpha Chi Sigma, the only national professional chemistry fraternity in the United States.

Cynthia Schwalm 81HS, of Chapel Hill, N.C., has been named president and CEO of Ipsen North America, a global pharmaceutical company targeting debilitating diseases in the areas of neurology, endocrinology and urology-oncology.

James Tilton 81EG, 82M, of Landenberg, Pa., a DuPont employee who has taught classes in UD's Department of Chemical and Biomolecular Engineering for nearly three decades, has

been named a DuPont Fellow, the highest technical professional level in the company.

Donald C. Burke 82BE, of Langhorne, Pa., an independent director of Avista Corp. and a former trustee for the Goldman Sachs mutual fund complex, has been elected as independent director of the Duff and Phelps closed-end funds.

Michael Borodinsky 83BE, of Livingston, N.J., has joined Caliber Home Loans as vice president of retail lending for the firm's east region.

James R. Doherty 83BE, of Wilmington, Del., has been named president and CEO of Farmers Mutual Fire Insurance Co. of Salem County, N.J.

Stephanie Mapes 83BE, of Burlington, Vt., has been named the first female president of the law firm Paul Frank and Collins, where

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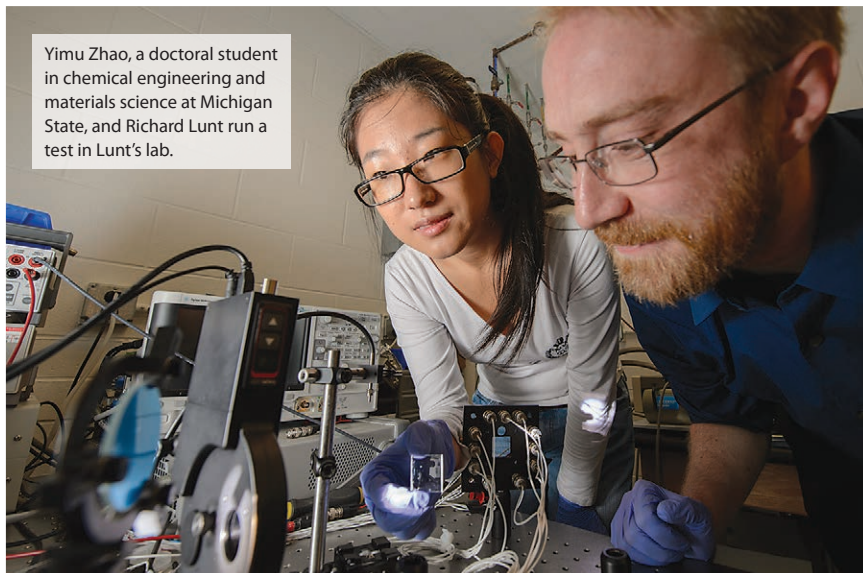
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RICHARD R. LUNT, EG04

Yimu Zhao, a doctoral student in chemical engineering and materials science at Michigan State, and Richard Lunt run a test in Lunt's lab.



G.L. KOHUTH, MICHIGAN STATE UNIVERSITY

Researchers led by Richard Lunt, EG04, who earned his bachelor's degree with honors in chemical engineering, are working on a solar energy project they hope is easy for others to see right through.

The team at Michigan State University, where Lunt is an assistant professor of chemical engineering and materials science, has developed a new type of solar concentrator. When placed over a window, the concentrator creates solar energy while allowing a clear view through that window.

Called a transparent luminescent solar concentrator, it can be used on buildings, cell phones and any other device that has a clear surface. Research in the production of energy from solar cells placed around luminescent plastic-like materials is

not new, but past efforts have yielded poor results—the energy production was inefficient, and the materials were highly colored.

“No one wants to sit behind colored glass,” Lunt says. “It makes for a very colorful environment, like working in a disco.”

The solar harvesting system uses small organic molecules developed by his team to absorb specific nonvisible wavelengths of sunlight. The research was featured on the cover of a recent issue of the journal *Advanced Optical Materials*.

The technology is at an early stage, Lunt says, and more work is needed to improve its energy-producing efficiency. Ultimately, he says, “We want to make solar harvesting surfaces that you do not even know are there.” ■

Billie Travalini 83AS, of Wilmington, Del., an award-winning writer and educator who has coordinated and founded several writing conferences and has produced two anthologies of Delaware poetry and prose, won a 2014 Delaware Governor's Award for the Arts.

Steven Bomberger 84AS, of Hockessin, Del., president of Benchmark Builders, has been named chairman of the National Association of Home Builders' 50-Plus Housing Council.

Sandra Sawicki 84AS, of Glen Arm, Md., has been promoted to associate vice president for interior design at Rubeling and Associates, a regional architecture and interior design firm in Baltimore.

James A. Gise 85BE, of Wilmington, Del., has been promoted to senior vice president and team leader in the middle market commercial lending division of WSFS Financial Corp.

Kathleen Mangione 85HS, of Doylestown, Pa., professor of physical therapy at Arcadia University and a certified geriatric clinical specialist, received the American Physical Therapy Association's Catherine Worthingham Fellow Award, which honors individuals whose leadership, influence and achievements advance the physical therapy profession.

Kimberlee M. Orth 85BE, of Wilmington, Del., a private wealth adviser with Ameriprise Financial there, was honored as one of the top 100 women financial advisers in the U.S. by *Barron's* magazine in June 2014.

Arlene Thayer 85AS, of Cocksessville, Md., chief operating officer at KatzAbosch, has been promoted to executive vice president at the accounting and business-consulting firm.

she has been an attorney for 26 years and leads the firm's captive insurance practice.

Phillip Savage 83EG/M, 86PhD, of Ann Arbor, Mich., most recently the Arthur F. Thurnau Professor of chemical engineering at the

University of Michigan, has joined the faculty of Penn State University as head of the Department of Chemical Engineering.

HENS OF A FEATHER

News involving several alumni

A UD alumnus has joined Pennoni Associates as a senior engineer, and three others have been promoted at the engineering, design and consulting firm with headquarters in Philadelphia, Pa. **Terry Foester 96EG**, of Wilmington, Del., who has 15 years of experience in highway projects, has joined the transportation division of Pennoni's Newark, Del., office. The firm recently promoted **Ted Januszka 93EG, 94M**, of Newark, Del., to vice president and **Daniel Barbato 93EG**, of Wilmington, Del., to associate vice president, both in the Newark, Del., office, and **Alan Lloyd 98EO**, of Swedesboro, N.J., to associate vice president in the Haddon Heights, N.J., office.

Two alumni joined a UD faculty member and two current students in August as competitors in the Maryland Governor's Cup Yacht Race, a 70-mile overnight course from Annapolis to St. Mary's City on the Chesapeake Bay. **Rachel Gregor 11AS**, of Milltown, N.J., vice president of UD's Alumni Sailing Association, and Steven Stanhope, associate vice provost of research and UD Sailing Club adviser, were on the crew of the *Rosalita*, which won its class and the overall race. **Phillip Clarke 10AS**, of Alexandria, Va., and undergraduates Ian Berke and Tyler Frees were crew members on other yachts in the race.

Steve Ritchie 81BE, of Middletown, Del., a certified public accountant and director at the accounting and consulting firm Belfint Lyons and Shuman, has been recognized as a 2014 Delaware Five Star Accounting Professional, a designation based on evaluation criteria set by Five Star Professional and *Delaware Today* magazine. The firm, with offices in Wilmington, Del., and West Chester, Pa., also recently hired **Madison Gerdtz 11BE**, of Wilmington, and **Dan Ryan 14BE** and **Lee Sausen 13BE, 14M**, both of Newark, Del. ■

Stephen Gorski 86EG, 87EO, 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.

Liz Ann Sonders 86AS, of Darien, Conn., chief investment strategist for Charles Schwab, has been

appointed chair of the investment committee for Windhaven Investment Management, a subsidiary of Charles Schwab Corp.

Derek Eisele 87BE, of San Diego, Calif., has been promoted to president of Silvergate Bank, a leading San Diego community bank specializing in small business.

Christine Gillam 87AS, of Lewes, Del., has been appointed director of communication and planning

at Delaware Technical Community College's Owens Campus in Georgetown, Del.

Neal Gulkis 87BE, of Strongsville, Ohio, formerly vice president of media relations for the National Football League's Cleveland Browns, has been named director of media relations for Homestead-Miami Speedway in Florida.

Dave Metzbower 87BE, of Devon, Pa., a standout lacrosse attackman while a UD student and a veteran lacrosse coach, has been named offensive coordinator for the men's lacrosse program at the University of North Carolina.

Victoria August 88BE, of Baltimore, Md., an attorney with more than 10 years' experience in the property and casualty insurance industry, has been appointed associate commissioner for compliance and enforcement at the Maryland Insurance Administration.

Thomas Graney 88BE, of Morristown, N.J., has been appointed chief financial officer and senior vice president of finance and corporate strategy for Ironwood Pharmaceuticals, which focuses on creating medicines for gastrointestinal disorders.

Tim Pearson 89BE, of Glenwood, Md., a certified public accountant, has joined Tesaro as chief financial officer of the oncology-focused biopharmaceutical company.

1990s

Leticha Hill Hawkins 90AS/M, of Union City, Calif., who has worked for NASA since 1990, received a 2014 NASA Ames Research Center Honor Award for her professional administrative work as a human resources specialist.

Thomas D. Keehan 90AS, of Wilmington, Del., has been promoted to vice president

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KRISTEN LEWIS-WALDRON, AG98



DANIELLE QUIGLEY

As a UD animal science student in the 1990s, Kristen Lewis-Waldron, AG98, was offered an internship at the Philadelphia Zoo that turned out to be a perfect fit. Eighteen years later, she's still combining her love of animals and education to create innovative programs there.

Now the zoo's director of conservation education and integration, Lewis-Waldron works with all departments, from the marketing and development team to the social media unit, and directs conservation messaging at the exhibits in the education area.

She recently helped to create KidZooU, a children's zoo that provides an engaging experience for youngsters and their families while promoting a lifetime of conservation action through hands-on learning activities.

"We're trying to achieve a lot through the experience. It's highly interactive and creates a year-round destination for kids," Lewis-Waldron says. "It obviously allows for that up-close and personal interaction, which is so important, and it's a place where kids can practice how to care for animals, make the world a better place for animals and practice conservation behavior."

She is especially proud of the fact that KidZooU was created using a technique known as universal design.

"We designed the facility so that regardless of your age, your ability, your background, you can access KidZooU," she says. "We kept in mind

things like not just physical accessibility—which is certainly extremely important—but we also thought about other things like cognitive and behavioral accessibility."

Every animal in KidZooU is identified using braille and American Sign Language and with QR codes that are accessible in 14 different languages.

The designers also looked at how to reach children with autism, creating picture-oriented preplanning systems for the kids. "They can go on our website, look at a map of KidZooU and create a schedule for themselves," Lewis-Waldron says. "They can decide 'I'm going to go see the goats first, then I'm going to go see the chickens, and then I'm going to go see the mini-horses,' and then bring that with them and find those same symbols on the universally designed graphics."

KidZooU was a multi-year effort in which the Philadelphia Zoo got valuable help from many organizations in the special needs communities across the region, she says.

Lewis-Waldron's career has encompassed a variety of positions since that initial nutrition internship that focused on the Micronesian kingfisher, a bird that is now extinct in the wild. After graduation, she worked with the zoo's public relations team for two years before realizing how much she missed interacting with animals and children and that her real passion was in education.

"I started volunteering on my weekends in the education department for the zoo and shifted over to that in the year 2000, and I've been in education ever since," she says, adding that one of her favorite parts of the job is teaching children about the need for animal conservation.

Another favorite responsibility is one that has brought her career full circle—directing the zoo's internship program, where staff members recruit 100 interns annually.

"I feel like I'm kind of giving back to the college students like I once was in recruiting people to help share our message," Lewis-Waldron says. ■

—Adam Thomas

and group sales manager in the residential mortgage division of Artisans' Bank.

David Perrington 90EH/M, of Rehoboth Beach, Del., formerly assistant superintendent of the Caesar Rodney School District, began serving in July as superintendent of the Seaford (Del.) School District.

Timothy Rayne 90BE, of Kennett Square, Pa., a partner in the law firm MacElree Harvey, has been recognized as one of the "Top 100" lawyers in Pennsylvania by the 2014 Super Lawyers list, compiled by the Thomson Reuters rating service.

Lee Richardson 91AG, of Willards, Md., a grain and poultry farmer and advocate for the agriculture industry, has been cited for distinguished service by the Maryland Association of County Agricultural Agents.

Susan Coulby 92AS, 03M, of Newark, Del., is serving as 2014-15 president of the Junior League of Wilmington, where she previously was a member of the board of directors as vice president of communications and administration.

Michael Kammarman 93AS, of Laurel, Md., a press officer for U.S. Soccer, was in Brazil for this year's World Cup, where he was part of a communications team of about 10 people working with the American squad.

Aaron Marshall 93BE, of Ellicott City, Md., corporate counsel at Northrop Grumman, has been chosen to serve as board president of The Hearing and Speech Agency, a Baltimore nonprofit that serves some 4,000 children and adults each year.

Arlene Benton 94AS, of Dover, Del., has joined the law firm Baird

Mandalas Brockstedt as an equity partner, focusing her practice on real estate and estate planning.

John Gallagher III 94BE, of Irvine, Calif., has joined Milacron as one of two chief operating officers for the global supplier of plastics-processing technologies and industrial fluids.

Matt Rosewag 94HS, of Marriottsville, Md., a physical therapist and licensed nursing home administrator in Maryland, has joined Erickson Living in the new position of director of operations for continuing care and project management.

Susan Mazo 95AS, of Montclair, N.J., has joined Universal Music Group as senior vice president of global communications, responsible for such areas as media relations, major internal and external events and the company's philanthropic efforts.

Eric Benson 96AG, of Baltimore, Md., was recently promoted to professor in UD's Department of Animal and Food Sciences, where his research includes emergency animal management and alternative lighting technologies.

Mark C. Green 96AG, of Red Bank, N.J., who has spent nearly two decades in the real estate development industry, has been named senior vice president of construction for the Lightstone Group, a privately held real estate company.

Jane McKee Smith 96EG/PhD, of Vicksburg, Miss., an engineer with the U.S. Army Engineer Research and Development Center, has been named a distinguished member of the American Society of Civil Engineers, in recognition of her pioneering work developing the Steady State Spectral WAVE model, which is used worldwide in protecting coastal communities.

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RUSSELL SNYDER, AS84



COURTESY OF VOLUNTEERS OF AMERICA CHESAPEAKE

The nonprofit Volunteers of America Chesapeake has been assisting those in need since it was founded in Baltimore, Md., well over a century ago and is a branch of one of the nation's largest and most comprehensive human services organizations.

But since January 2009, supporters say, the agency has greatly expanded its programs and visibility under the leadership of Russell Snyder, AS84, who earned his UD degree in economics. He previously was senior vice president of client management for Smith Bucklin Corp., the world's largest association management company, where he oversaw business trade and healthcare associations.

As president and CEO of Volunteers of America Chesapeake, the organization says, Snyder "has led the successful turnaround and growth of a \$23 million, 650-employee human services nonprofit serving over 9,000 vulnerable men, women and children in Maryland, Virginia and the District of Columbia."

The organization, founded in 1896, today operates 31 programs that focus on such groups as the homeless, those with mental illness or intellectual disabilities and individuals recovering from addiction. Among other projects, it recently opened a 52,000-square-foot Residential Re-Entry Center that offers services to federal ex-offenders and provided school supplies to thousands of children and access to a new computer lab for students in the organization's supportive housing program.

"Russ has done great things here," says staffer Alfonso Cole, AS78. "He's one of those people who makes me even prouder to be a Blue Hen." ■

Jennifer L. Bevan 97AS, 99M, of La Mirada, Calif., an associate professor of communication studies at Chapman University, has received two prestigious awards for her book *The Communication of Jealousy*—the 2014 National Communication Association's Diamond Anniversary Book Award and the 2014 Gerald R. Miller Outstanding Book Award from the association's Interpersonal Communication Division.

Shekhar Garde 97EG/PhD, of Schenectady, N.Y., a professor whose research focuses on the role of water in biological structure and function, has been named dean of the School of Engineering at Rensselaer Polytechnic Institute.

Marcia Jedry 97BE, of Boise, Idaho, director of finance for the Idaho Association of Commerce and Industry, has obtained her Certified Association Executive credential, recognizing significant experience and education in nonprofit management.

Alison Houck 98BE, of Lewes, Del., has been promoted to partner in the accounting and business-consulting firm Faw Casson, where she is in charge of the Rehoboth Beach office.

Lisa Prueter 98AS/M, of Newark, Del., a teacher at Newark Charter High School, was selected to take part in the 2014 Federal Trials and Great Debates Summer Institute, sponsored by the American Bar Association and the Federal Judicial Center, at which 21 teachers from across the U.S. worked with leading historians and federal judges to get an inside view of significant legal cases that never made it to the Supreme Court.

Rebecca (Raczynski) Deeley 99HS, of Utica, N.Y., a medical doctor who is board certified in neonatology and general pediatrics, has joined the Special Care Nursery in The Birthplace at Faxon St. Luke's Healthcare there.

Michael Roche 99BE, of Somers, N.Y., formerly a music and media specialist with Fuse and MuchMedia, has joined Revolt as senior vice president of advertising sales for the music-oriented cable TV network.

Wayne Westerman 99EG/PhD, of Hillsborough, Calif., and John Elias, adjunct professor of electrical and computer engineering at UD, have been named fellows of the National Academy of Inventors for their creation of the touch imaging interface architecture that is used in many touch screen devices.

2000s

Michael Coraggio 00BE, of Hoboken, N.J., has joined Janney Montgomery Scott's New York City Whitehall branch office as executive vice president for investments.

Meghan Gill Roy 00BE, of Cockeysville, Md., formerly a senior real estate adviser with MacKenzie Commercial Real Estate Services, where she has brokered lease transactions involving large medical firms and developers, has been promoted to vice president.

Denise E. Elliott 02AS, of Lancaster, Pa., has joined the law firm McNees Wallace and Nurick as an attorney in the labor and employment group, focusing her practice on defending self-insured employers in workers compensation matters and representing clients in employment discrimination litigation and related issues.

Chad Meredith 02AS, of Seaford, Del., has joined the law firm Hudson, Jones, Jaywork and Fisher as an associate, focusing his practice on residential real estate transactions and administrative law matters.

MICHELE WALFRED, AA04, AS07, 14M



Michele Walfred, a communications specialist in the College of Agriculture and Natural Resources, became a proud third-time UD graduate last spring when she earned a master of arts in liberal studies (MALS) degree.

But Walfred's Blue Hen story began much earlier.

As an English major in the 1970s, circumstances forced a break in her studies long before she could complete her degree. When both of her parents became ill, she turned to family responsibilities full time.

"Then I got engaged and married, and life just happened," Walfred says. In 2001 she began working for UD Cooperative Extension in Georgetown, Del., as a receptionist. When her daughter started taking courses in the Associate in Arts program, Walfred decided to join her.

"I think working in a college environment had a lot to do with it," she says. "I saw this terrific opportunity to accomplish something I had left behind, and I went for it. One course at a time, it fell into place."

In 2004, she earned her associate in arts degree, and a few years later, both she and her daughter, Kathleen Mack, graduated with bachelor's degrees. This May, Walfred completed the MALS program, which emphasizes a multidisciplinary approach to broad questions about culture, ethics and human experience.

"MALS is a diverse, challenging program that has changed the way I perceive and approach everything," says Walfred, who was advised by English Prof. Jean Pfaelzer on a thesis project delving into the social and political significance of Thomas Nast cartoons depicting Chinese Americans. ■

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DAN WESSEL, BE12, AND EVAN WESSEL, BE12



RICHARD A. BLOOM

Dan and Evan Wessel—encouraged by their parents—always strived to develop and maintain separate activities and their own individuality, but the identical twins couldn't get away from their shared interests, which led them both to UD and to majors in economics.

"We try to be as different as we can, but we just happen to be involved in the same stuff," Dan told the *National Journal*, which published a story about the Wessels last spring. "They [our parents] tried their hardest, but look where we are."

Where they are is living in the Washington, D.C., area and working in politics. And not just politics, but for political organizations—two different ones—both raising money for a potential presidential campaign by Hillary Clinton. Dan works as a press assistant for Correct the Record, while Evan works on digital communications at Ready for Hillary.

The two super PACS are separate, and the Wessels work in offices a few miles apart, but that doesn't stop other staff members and even politicians from occasionally confusing one twin for the other when they encounter them around Washington.

Their father was a longtime political aide, but the Wessels first got involved in a campaign while at UD, when they both volunteered for the Delaware Democratic Party in the 2010 races. When they graduated and looked for congressional jobs, they say, Dan applied only to the House of Representatives and Evan only to the Senate so that they wouldn't be competing with each other.

And, Evan says, their separate career moves to pro-Clinton groups were not something either of them planned. ■

Sean Greene 03AS, of Newark, Del., a former member of campus radio station WVUD's broadcasting team who now works for Delmarva Broadcasting, was honored by the National Sportscasters and Sportswriters Association as Delaware's 2014 sports caster of the year.

Christina Kramer 03BE, of Bel Air, Md., was recently promoted to operations analyst at the Social Security Administration office in Woodlawn, Md.

Vanessa Robinson 03AS, of Cherry Hill, N.J., an actuarial analyst at The Philadelphia Contributionship, has been named an associate of the Casualty Actuarial Society.

Angela Caswell-Monack 04AS, of Millsboro, Del., a doctor of osteopathic medicine, has begun her practice as an obstetrician and gynecologist at Bayside Health Association in Lewes, Del.

Lindsay Jennings 04BE, of Hockessin, Del., a certified public accountant, has been promoted to manager at the accounting firm Gunnip and Company.

Jackie Palmer 04EG, of Philadelphia, Pa., an architectural designer for Urban Space Development there, created the blog "Oh, Hello Window Cat," with photos of felines she spots behind glass—a blog whose followers list jumped from 30 to 9,000 when Tumblr promoted it as "trending" and *Philadelphia* magazine declared it "awesome."

Jennifer Lee Moses 05AS/M, 12PhD, of Park Forest, Ill., has been selected as one of 20 American Council of Learned Societies Public Fellows, with a two-year appointment as a program developer at the National Constitution Center in Philadelphia.

LaChantee Webb 05BE, of Clementon, N.J., senior

accountant and member of the tax team at the Philadelphia firm ParenteBeard, has been named to the Pennsylvania Institute of Certified Public Accountants' distinguished list of young leaders for her community work and commitment to the accounting profession.

Michael Savino 06BE, of Hillsdale, N.J., has joined Outdoor Channel as an advertising sales executive serving clients in the southeastern United States.

Janneken Smucker 06AS/M, 10PhD, of Philadelphia, Pa., a fifth-generation quilt-maker and a widely recognized authority on Amish quilts, is an assistant professor of history at West Chester University, where she specializes in digital history, public history and American material culture.

Bonnie Mills 07HS, of Wilmington, Del., who was a goalkeeper on UD's soccer team and a four-year letter winner as a student and who has coached and taught at area schools since graduation, is the new athletic director for St. Georges (Del.) Technical High School.

John Visconi 07AS, of Union Beach, N.J., an attorney who has remained involved with the Pi Kappa Phi fraternity since graduation, was awarded one of the organization's "30 Under 30" awards for 2014.

Katherine Childers 08EG, of Philadelphia, Pa., a land-development engineer with the firm Pennoni Associates, has been named the 2014 Outstanding Young Professional Engineer of the Year by the New Jersey Society of Professional Engineers.

2010s

Christian L. Kervick 10AS, of Millville, Del., who has worked for the Delaware Criminal Justice Council for more than 16 years, has

been named executive director of the organization, an independent agency that works collaboratively with all components of the criminal justice system and the community.

Susan Chinnery 11HS, of Wilmington, Del., a fourth-year osteopathic medical student at Des Moines University, has been honored with induction into the Arnold P. Gold Foundation's Gold Humanism Honor Society, which recognizes student leaders for their compassion in interactions with patients, colleagues and mentors.

Lauren Bond 12HS, of Houston, Texas, a pediatric registered nurse, has joined the intermediate care unit at Texas Medical Center in Houston, where she also is a member of the medical center's orchestra.

Sara Laskowski 13AG, of Aberdeen, Md., who served with the Peace Corps in Guinea until all volunteers were evacuated during the summer because of the Ebola virus, was one of nine bloggers to win the 2014 Peace Corps "Blog It Home" competition for their reports from their assigned countries. The nine, selected from 350 entrants for their blogs' focus on increasing cross-cultural understanding, participated in a week of educational activities in Washington, D.C., in September.

Michael Tsarouhas 13AS, of Titusville, N.J., a voice actor who as a UD student worked at campus radio station WVUD, has written the dialogue and recorded all the voices for the New World Interactive video game *Insurgency*.

Kelly McGuire 14HS/M, of Sparta, N.J., a member of the National Athletic Trainers Association, has joined the athletic training staff of High Point University, where she will work primarily with the women's soccer and women's lacrosse teams. ■



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Commitments



Maria N. Locuniak 03AS, 05M, 08EH/M, 10PhD to Joshua J. Schwartz 02EG, 13M, Sept. 14, 2013



Beth Berger 08AS to Chris Krallis 08BE, April 26, 2014



Alison Hayes 09AS, 13EO/M to Sebastian Carisio 09AS, 13EOE/M, Nov. 9, 2013



Kim Wareheim 09BE to William Anderson 09BE, April 26, 2014



Laurie Collins 06BE to Michael Rosen 09AS, May 17, 2014



Lauren Lavorerio 09BE to James Picarro 08BE, Sept. 14, 2013



Heather Shultz 10AS to Pasquale Paoli 06BE, Aug. 9, 2014



Nicole Baronek 05AS to Peter John Ford, March 29, 2014



Michael Pistory 14BE to Brian Bandy, June 21, 2014



Meghan Galamb to Brent Rogers 06BE, June 21, 2014

COMMITMENTS

Stacy Newman 04AS married Travis Crumley 00AS, March 21, 2014. Among those attending were, from left, first row: Stacy and Travis; second row, Anna (Fogel) Eanes 01BE, Anthony Michaud 00AS, Brittany (Dempsey) Newman 09HS, Leighann (Newman) Hinkle 03BE, Michele Prandi 04AS, Katie Daniels 04BE, Kristin (Daly) Coby 04BE and Sarah (Stone) Oberle; third row, Jeffrey Eanes 01AS, Ann (Shepard) Visalli 87BE, 90M, J'Aime (Walker) Streavel 02AS, Lauren Jester 04AS, Lizette (Torres) Kennedy, Grete (Geier) Brisbin 01BE and Troy Bockius 99EO; fourth row, Ryan German 00BE, Suhail Malik 00AS, Betsy (Fish) Tootell 75EH, Kyle Post 06HS, 10EH/M and Ryan Kennedy; fifth row, Robert Ashby 77BE, Sandy (Keene) Ashby 77EH, Roger Post 74EH, Gary Camp 99AS, and Melissa (Post) Clare 05HS.

Emily Gomes 09BE
to
Ryan Ebner 08BE,
July 13, 2013



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COMMITMENTS



Jenna Beatty 10AS to Steve Feldman 10HS, 12DPT, March 15, 2014



Sara Linton 06AS to Tim Strickland 07EG, Aug. 23, 2014



KerriLynn Miller 05AS to Jake Sobin, Sept. 1, 2013



Jennifer Heine 09AS to Robert Lehman III, July 4, 2014

Attention, newlyweds

Wedding announcements and photos for the *UD Messenger* should be submitted to the Office of Alumni Relations, 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.

To be considered for publication, please note that 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 in the "Commitments" section of Class Notes. As part of the University's ongoing sustainability efforts, we will publish only one group photo per issue.

We invite you to continue to share such photos, and others, with your fellow alumni at our online community, www.UDconnection.com.



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New Additions



Gianna Grace, born Sept. 9, 2013, to Allison Brown 10HS and Brian Brown 09HS, 13BE/M, of Royersford, Pa.



George-Angelo Waylon, born Aug. 14, 2013, to Carmeline Panico Morris 09AS and Matthew Morris, of Vicenza, Italy



Audrey Katherine, born Sept. 13, 2013, to Angela Kates Shields, 03AS and Frederick Shields 01AS, 06BE/M, of West Chester, Pa.



Olivia Grace, born Aug. 26, 2014, to Alyssa Schweizer 99EH and Craig Schweizer, of Wilmington, Del.



Gabriel Thomas, born Dec. 29, 2013, to Stacey Smith and Tom Smith 06AS, of Newark, Del.



Jason, born Feb. 25, 2014, to Anne Wyszomierski Lackner 07AS and Robert Lackner, of Manhasset, N.Y.



Carter James, born June 24, 2014, to Jillian Bonsall George 03HS, and Christopher George, of Newark, Del.



Natalie Demetra, born July 31, 2013, to Vassia Tegoulia 00EG/PhD and Costas Dimitropoulos 99EG/PhD, of Redwood City, Calif., with big sister Nicole Fotini.



Camryn Lynn, born Feb. 21, 2014, to Kimberly Mitchell Anderson 01BE and Brent Anderson 01BE, of Downingtown, Pa., with big brother Mitch.



Garrett Webb, born Sept. 8, 2013, to Tara Morgan Hoopes 99BE and Matt Hoopes 98AS, of Wilmington, Del., with big brother Matthew.

NEW ADDITIONS



Rocco John, born April 7, 2014, to Jenna (Mullen) Pollicino 04BE and Steve Pollicino 05BE, of Monmouth Beach, N.J., with big brother Nick.



Brayden, born June 12, 2014, to Alicia Young Romig 06EH and Brian Romig 06BE, of Ambler, Pa.



Brayden Hoyet, born Sept. 10, 2013, to Latisha Stillwell Whitworth 98BE and Brian Whitworth 97BE, of Edgewood, Md., with big sister Brielle.



Noah Douglas, born Oct. 15, 2013, to Sherry Fagin 05EO and Mike Fagin, of Falls Church, Va.

Attention, parents

Birth announcements and photos for the *UD Messenger* should be submitted to the Office of Alumni Relations, 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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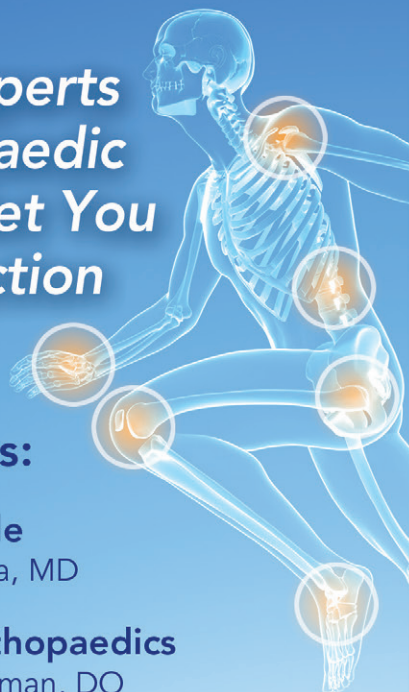
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Peter F. Townsend, MD, FACS

Spine

Mark S. Eskander, MD

Sports Medicine

Damian M. Andrisani, MD – UD '95*

Bradley C. Bley, DO, CSCS

Brian J. Galinat, MD

Joseph J. Mesa, MD

Douglas A. Palma, MD – UD '91*

Matthew K. Voltz, DO, ATC – UD '00

Total Joints

Steven M. Dellose, MD – UD '91

James J. Rubano, MD

Trauma

Michael J. Principe, DO

Nicholas F. Quercetti, DO

* Orthopaedic Surgeon for the University of
Delaware Athletic Department

In Memoriam



Dorothy Hudson Elliott 32EH, 36EH, of Lewes, Del., June 22, 2014

Dorothy Baughman Coote 35AS, of Wilmington, Del., July 11, 2014

Jeanne Brulatour Mason 41AS, of Sandwich, Ill., Aug. 25, 2014

William Plummer III 42AS, of West Chester, Pa., June 15, 2014

Mary Pearce Allen 43BE, of Groton, Mass., June 14, 2014

Bruce G. Frazier 43AG, of Magnolia, Del., July 16, 2014

Anne Richards Munyan 44EH, of Newark, Del., June 16, 2014

John D. Henry 45AS, of Chagrin Falls, Ohio, July 24, 2014

Donald L. McLellan 48EG, of Jupiter, Fla., July 1, 2014

Florence Medd Morris 48AS, of Valrico, Fla., Aug. 8, 2014

Domenick Cannatelli 49EG, of Wilmington, Del., Aug. 27, 2014

John M. Conover 49AG, of Buhl, Idaho, June 1, 2014

A. Louis Keil 49EG, of Columbus, Ohio, May 26, 2014

Merwyn W. Merhige 50AS, of San Jose, Calif., Aug. 26, 2014

Charlotte Whaley Alexander 51AS, of Hockessin, Del., July 16, 2014

Maida E. Frye 51AS, of Charlotte, N.C., Dec. 9, 2013

C. Leslie Ridings Jr. 51BE, of Wilmington, Del., Aug. 18, 2014

Richard A. Smith 51AS, of Townsend, Del., March 3, 2012

Charles L. Van Meter Jr. 51EG, of King, N.C., Aug. 21, 2014

W. Stanley Alexander 52AS, of Hockessin, Del., July 21, 2014

Edwin L. Stein Sr. 52AS, of Wilmington, Del., June 18, 2014

John A. Kelleher Jr. 53AS, of Elkton, Md., June 28, 2014

John W. Holston Jr. 54AS, of Ft. Lauderdale, Fla., Aug. 31, 2014

Salvatore V. Rubini 54EG, of Wilmington, Del., June 7, 2014

Patricia Meade Hawthorne 55AS, of Damascus, Va., July 9, 2014

Joseph A. Saints 56EG/M, of Wilmington, Del., June 14, 2014

Raymond Kushida 57EG/PhD, of La Canada Flintridge, Calif., March 17, 2014

Harold W. Muir Jr. 57AS, of Bogart, Ga., Aug. 6, 2014

Charles W. Patterson 57AG, of Lake Villa, Ill., May 21, 2014

Paul V. Posten 57AS/M, of Clermont, Fla., July 24, 2014

Betty Ardary Westover 57EH/M, of Clayton, Calif., June 20, 2014

Jane Walton Bailey 58EH, 65EH/M, of Mechanicsville, Md., July 22, 2014

A. Harris Mosher 58AS, of Telford, Pa., Aug. 27, 2014

Rhoda Weintraub Meizell 59EH, of Wilmington, Del., June 2, 2014

Marie Rehak Olichney 59AS, of Ninde, Va., July 16, 2014

Anne Berk Sutherland 59EH, of Greenbelt, Md., Oct. 30, 2013

Jean Hastings Genster 60HS, of Schaumburg, Ill., June 3, 2014

Otis P. Jefferson Jr. 60EH/M, of Alpharetta, Ga., July 18, 2014

Floyd E. Hudson 61AS/M, 65AS/PhD, of Lebanon, N.J., Aug. 24, 2014

Carol Hines Morris 64AS, of Salisbury, Md., July 5, 2014

John P. Mulrine 65EH, of Riverview, Fla., July 17, 2014

Roy L. Williams 65AS/PhD, of Carrollton, Va., July 28, 2014

Frances Frazer Evans 66AS, 72EH/M, of Rehoboth Beach, Del., June 12, 2014

Joseph M. Bernstein 67AS, of Bonita Springs, Fla., June 14, 2014

Henry M. Johnson III 67EG, of Edenton, N.C., May 4, 2013

Frances Montgomery Joseph 68EH/M, of Richmond, Va., Aug. 14, 2014

John V. Parker 68BE, of Lake Wales, Fla., July 6, 2014

Florence A. George 69EH, of Wilmington, Del., Aug. 22, 2014

Alan A. Dennison 70AS, of Wilmington, Del., July 16, 2014

Marilyn L. Nord 70EH, of Fayetteville, N.Y., Aug. 3, 2014

Martin H. Smith 70AS, of Lake Geneva, Wisc., Aug. 17, 2014

Michael L. Szymanski 70AS, of Kingston, Wash., July 28, 2014

Joseph F. Vaccarino 70HS, of Wilmington, Del., June 29, 2014

Joseph B. Brabson Jr. 71EG, of Wilmington, Del., July 26, 2014

Mark R. Harrison 71AS, of Newark, Del., Aug. 2, 2014

Lawrence D. Losie 71EG, of Newark, Del., May 29, 2014

Fred Manders 71AS/M, of Cherry Hill, N.J., Oct. 24, 2013

Mark J. Manno 71AG, 88AS/M, of Newark, Del., Sept. 13, 2014

James E. Marshall 71BE, of Wilmington, Del., July 7, 2014

George P. Williams 71AG, of Waynesboro, Va., June 23, 2014

Frank J. Cates 72AS, of Panorama City, Calif., April 1, 2012

John D. Martone Jr. 72BE, of Ocean City, Md., Aug. 1, 2014

William A. Ciconte Jr. 73BE, of Wilmington, Del., July 11, 2014

John W. Douts 73AG, 75AG/M, of Fairfax, Va., June 13, 2014

Kenneth L. Eaby 73EG, of Middletown, Del., June 8, 2014

Thomas D. Ellis 73BE/M, of Wilmington, Del., Aug. 31, 2014

Paul D. Grabowski 73BE, of Houston, Texas, June 5, 2014

Robert W. Riley Jr. 73BE, of Wilmington, Del., May 28, 2014

Sandra MacAulay Melvin 74EH, of Newark, Del., Aug. 5, 2014

Roslyn Woodard Smith 74AS, of Hockessin, Del., June 1, 2014

Michael J. Gallagher 75EG, of Ephrata, Pa., July 28, 2014

Judith Niggl Glass 75AS, of Middletown, Del., March 29, 2014

Robert D. Kralovec 75BE, 78BE, 82BE/M, of Wilmington, Del., June 1, 2014

Lawrence D. Miles 75EG, of Rockwall, Texas, May 9, 2012

Leigh Dunlap Ivison 76AS, of Landenberg, Pa., Aug. 10, 2014

Mary Dolan Leonard 76EH, of Staten Island, N.Y., Aug. 16, 2014

Richard J. O'Brien 76AG, 80BE, of Wilmington, Del., July 5, 2014

Stephen Jenney 78AS, of Newark, Del., Aug. 4, 2014

Pamela Hause Scales 79AS, of Golden, Colo., Aug. 18, 2014

Deborah P. Heintz 80HS, of Hartly, Del., Dec. 14, 2010

Mark W. Skinner 80EG, of Huntington Beach, Calif., April 26, 2014

Ruth Irwin Weidner 80AS/M, 88AS/PhD, of Malvern, Pa., June 4, 2014

Philip M. Jardine 81AG, 83AG/M, of Knoxville, Tenn., July 9, 2014

Correction: The September edition of the *UD Messenger* erroneously reported the death of Gregory J. DiLiello 83AS, of Wantagh, N.Y., based on incorrect information supplied to the University. We regret this error. ■

Donald L. Mullett 81AS/PhD, of Pearland, Texas, April 19, 2013

Sean P. O'Neil 81EG, 82BE/M, of Media, Pa., Aug. 10, 2014

Susan Ward Panchak 81AS, of Wilmington, Del., July 25, 2014

Ann Marie Halloran Borghese 82AS, of Cutchogue, N.Y., June 20, 2014

Alden F. Hutchins 82AS, of Pauline, S.C., Dec. 22, 2013

Stephen A. Crosby 83AS, of Wilmington, Del., June 9, 2014

Dale A. Dallabrida 83AS, of Wilmington, Del., Aug. 5, 2014

Michele LaVecchia 83HS, of Belmont, N.C., July 10, 2014

Mary McKay Trumbauer 83EH/M, of Chestertown, Md., July 12, 2014

Michael R. Piascik Jr. 85BE, of New Castle, Del., March 4, 2014

Karen Carey-Wilkerson 86EH/M, of Milford, Del., Aug. 28, 2014

Jeffrey M. Coles 87BE, of Bridgeport, N.J., Aug. 1, 2014

Steven J. Hydock 89BE, of Seaford, Del., Dec. 7, 2013

Glenn W. Brengel 90AS, of Annapolis, Md., June 16, 2014

Kathleen O'Dean Moen 90EH, of Middletown, Del., July 28, 2014

Melvin J. Wachowiak Jr. 90AS/M, of Davidsonville, Md., May 28, 2014

Jeffrey C. Burnham 91AS, of Milton, Del., June 21, 2014

Edward A. Mechling III 92AS, of Glenwood Springs, Colo., July 8, 2014

Conrad R. Pope 93AG/M, of Bel Air, Md., July 25, 2014

R. S. Artz III 96BE, of Landisville, Pa., July 24, 2014

Michele Pray Griffiths 96AS, of Wilmington, Del., July 28, 2014

Jessica J. Johnston 10EH, of Newark, Del., Aug. 2, 2014

Emily Schuetz 13AS/M, of Baltimore, Md., Feb. 11, 2014 ■

Faculty

Allen M. Granda, a professor of biological sciences until his retirement in 1999, a neuroscientist whose research and teaching focused on vision and ophthalmology and a research pioneer in the study of turtle vision, July 7, 2014.

Conrad R. Pope, professor of animal and food sciences from 1986 until his retirement in 2011, who was known for his service to the poultry industry, his many research contributions and his work with students in the classroom and in numerous one-on-one research and independent studies, July 25, 2014.

Merle R. Teel, a highly respected agronomist, teacher and mentor who was the first chairperson of what is now the Department of Plant and Soil Sciences, from the time he joined the UD faculty in 1968 until his retirement as a full professor in 1989, May 6, 2014.

W. David Teter, assistant professor of civil and environmental engineering from 1968–99, who was known as a local computer-aided design (CAD) pioneer who introduced the software's capabilities to many at UD and who developed his own 3-D software for early engineering design courses, July 12, 2014.

Richard M. Weiss, who joined UD's Department of Business Administration in 1980 and taught courses in management, organization design and organizational behavior until he became ill last spring, July 16, 2014. ■

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Happy and they know it



KEVIN QUINLAN

The University's Early Learning Center, which opened on campus in 2004, held a celebration in September to mark its 10th anniversary. More than 300 children, family, staff, friends and public officials attended. At the center, the College of Education and Human Development provides high-quality child care for families of diverse backgrounds, while giving students from five of UD's colleges the opportunity to observe and work with children. In addition, researchers have conducted more than 130 projects at the center.

To see a video of children at the celebration singing "If You're Happy and You Know It," visit www.udel.edu/002358.

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