PURDUE ALUMNUS
SPRING 2020

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"I enjoy taking nature walks with my friends and neighbors. The Celery Bog is right next door!" - Resident, University Place -

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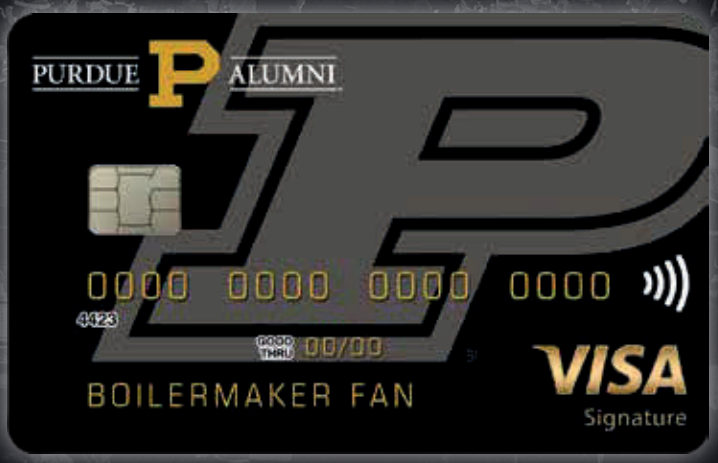

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OWING TO A *combination of factors that include occupational stress, depression, and burnout, veterinarians are dying by suicide at rates well above the national average.*

ON THE COVER: JOE BARRY CARROLL (M'80); THIS PAGE: CHARLES JISCHKE (MBA'08)

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Saddled with stress, debt, and death, veterinarians commit suicide at twice the rate of the general population.

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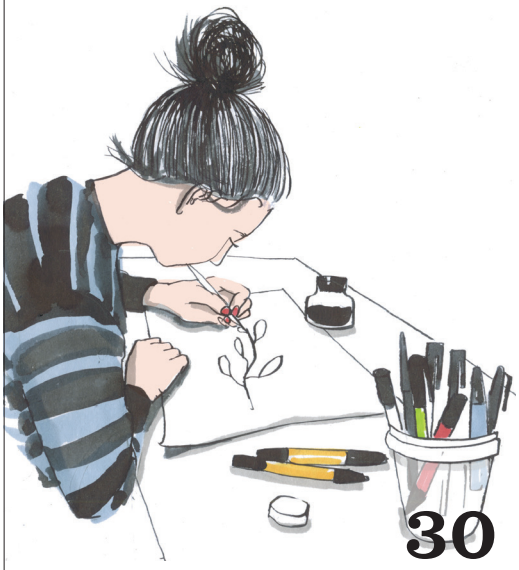
ON THE COVER: *"You may give them your love, but not your thoughts. For they have their own thoughts." — Kahlil Gibran. // Gibran offered that our children come through us, but they are not ours — many times, those adorable creatures that we formerly knew do not resemble themselves as they grow up. Theirs is a world that my generation will never know, just as it was for the generation before us. — excerpt from* My View from Seven Feet *by Joe Barry Carroll (M'80)*

IT TAKES A VILLAGE

Jen Whiting is a writer, professor, coxswain, and coach. She's a little bit spunky, a little bit redhead, and a lot enthusiastic. In her interviewing and writing, Whiting seeks the inside of the story — the part of the person that wants to be told, wants to be known, but isn't often revealed. While interviewing, she likes to dig in and get to the heart of the person. That's what she likes to write about: the heart of the person.



Clare Mallison is an illustrator based in Surrey, UK, who is known for her free-flowing ink line-drawing style. She attended Kingston University, where she earned a bachelor's degree in illustration. Mallison has been working commercially for over 15 years; her editorial illustrations have been featured in newspapers and magazines worldwide, including the *Wall Street Journal*, the *Guardian*, *Financial Times*, and the *Times*. When she's not drawing, she is running around after her three-year-old daughter!

Kenda Resler Friend (LA'90, MS A'91) loves helping people tell their stories, a passion that started while interning at *Purdue Alumnus*. Her first career decade was spent in public relations, the second two were dedicated to sharing about modern agriculture for a leading global agribusiness, and her third storytelling adventure is as president and founder of KRF Public Relations in Indianapolis.

CLOCKWISE FROM LEFT: CHINEL DUKE; CLARE MALLISON; COURTESY OF KENDA RESLER FRIEND

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WHAT YOU HAD TO SAY

BIRCH BAYH JR.
January 1928–March 2019

The Fall issue of *Purdue Alumnus* on page 89 included a four-line mention of the passing of alumnus Birch Evans Bayh Jr. (A'51, HDR A'65). That is all that can be written about a former three-term United States senator who made his alma mater proud and served his country with honor and distinction?

As great an achievement as it is to be elected three times to the United States Senate, Birch Bayh was no ordinary senator. He was responsible for passing not one but two amendments to the United States Constitution. His 25th Amendment has particular relevance in today's political environment because it deals with orderly succession of a president or vice president in the event that either person can no longer serve in office. It also provides for the removal of a sitting president if that person becomes seriously disabled. Senator Bayh also won enactment of the 26th Amendment, which gave 18-year-olds the right to vote in state and federal elections.

Other causes he championed as a senator included passage of the Equal Rights Amendment and abolishment of the Electoral College system, both of which ultimately failed. The achievement he was most proud of, though, was authoring Title IX, unquestionably landmark legislation which barred sex discrimination at schools and colleges and greatly expanded sports programs for women. Where would women's sports be today without Title IX?

In addition, Birch Bayh Jr.'s son, Evan Bayh (HDR M'03), was a US senator and served two terms as Indiana's governor. Birch Bayh Jr. graduated from Purdue with a degree in agriculture and was also awarded an honorary doctorate in agriculture. He never forgot his roots in Indiana and the people he served so ably.

—John Shirey (IE'71), life member
Sacramento, California

Send your letters to
alumnus@purdue.edu

It was great to see the picture of the Salty Dogs Jazz Band in the Fall *Purdue Alumnus* magazine. I was the cornet player and still the leader of this world-renowned group. The Salty Dogs have been Purdue ambassadors for over 70 years, and it's not over yet. Here's a photo of the band in Clear Lake, Iowa, taken in July 2019.

—Lewis Green (LA'61), life member
Norwalk, Connecticut

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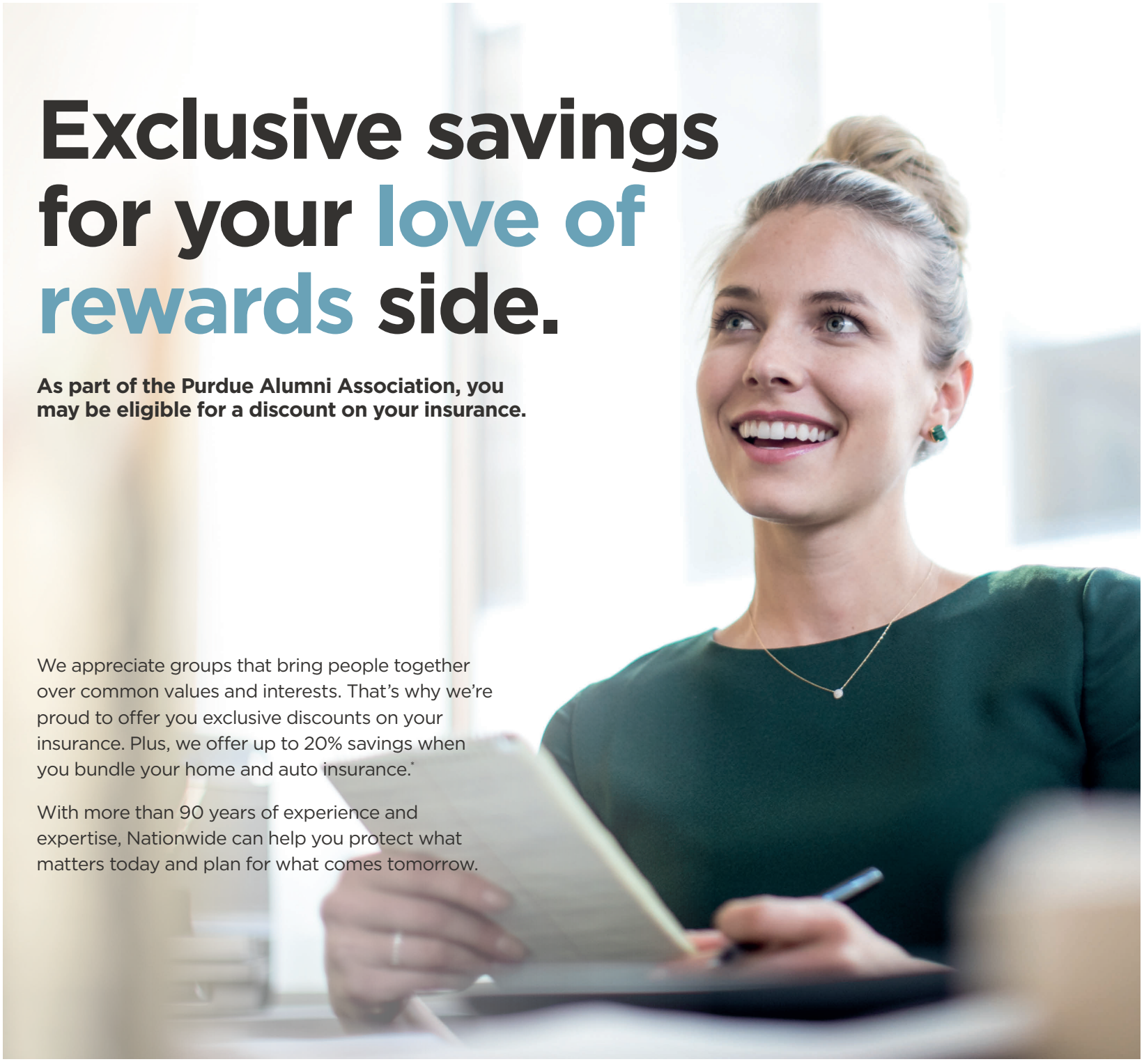

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Red Brick

REBECCA MCELHOE (LA16)

THE BIG PICTURE

DISTRICT LEADERSHIP

Sophomore pulls double duty as West Lafayette councilwoman

BY JOEL MEREDITH

Most students spend time worrying about grades and coursework on top of their involvement with student activities. Shannon Kang, a sophomore from Alpharetta, Georgia, has the added responsibilities of city councilwoman for West Lafayette. The 19-year-old political science major is the youngest leader ever to serve the city. Kang's been balancing homework with city council meetings since she assumed office in January.

Why run for office now? As a student?

Running for office is something I wanted to do in the future, but I'm glad I got to get a head start on it now. I was just very motivated to do it.

I was excited to get involved serving the community — that's what I've always done. I realized that a lot of young people don't run for office. I hope that my running for office will help other people realize that this is a possibility — that once they learn about the politics in their college town, they'll go home and try to get involved locally.

↑ **SOPHOMORE SHANNON KANG** *is majoring in political science and pursuing a double minor in statistics and Spanish.*

What was the reception you felt with voters, with the local press as a student?
The first questions were, "How old are you?" or, "Wait, city council?" They would have to process it, which is funny because even I didn't have that reaction. I was just very ambitious, and it seemed like a cool opportunity. In hindsight, I see that it's something not a lot of people consider doing. It kept me motivated, though. It encouraged me to keep going because people would say, "Oh, it's great that you're so young getting started this early."

Talk about the effort required to run for office as a full-time student. What did your semester look like?
I had to go to a lot of places after a long day of school; luckily I had a car this semester, so I could get to City Hall or meetings if I needed.

But the hardest thing for me was just juggling everything with all these classes. They were very different from one another. I'm a poli-sci major with Spanish and statistics minors. I had history, statistics, Spanish, political science, philosophy, and a small elective called Citizens Academy, so my coursework was all over the place. It was a constant cycle of calls and interviews, trying to figure out how to reach out to voters, complete math homework and Spanish essays, take part in tabling, and knock on doors around campus.

What did it mean for you to win this seat?
It meant everything to me. All my hard work paid off. This campus is so diverse, and people are so open; it was hard not to fall in love with the University and the city. The politicians who were running were so supportive of one another. It was a really exciting election because three women were running, and two of us ended up winning, which put more diversity on the council. I felt that a student should be representing the student district. I feel like it gives students a voice having a student on the council.

How did your mom react to your victory?
She was freaking out. She was actually at church — I think she was in Mass. I FaceTimed her, but I didn't have a big reaction on my face, so she asked what happened, and I told her I won. She's so proud of how far I have come. My parents don't know much English, so they couldn't help me with a lot of things when I was a kid. I never expected them to help me, but I had to do a lot on my own. They were really proud that I could do this myself.

How important is it that a city council member is reflective of its constituents, given that the city is very diverse in terms of age, ethnicity, background, religion, etc.?
Having someone who is similar to their constituents in the way they look, how they talk, what era that they're more in tune with is really important. Yes, someone that doesn't look like their constituents can still be a good leader, but I think the reason I was elected is that students see me as relatable. My problems are their problems, too.

Traditionally people think about engaging constituents through town halls and the like. How do you approach engagement in a district with a heavy student population?
Doing personal things like town halls would be great, but to target my audience, I need to make it as easy for them as possible to learn about West Lafayette's politics. I have people follow my Instagram; it's a personal page, but I post about politics and have a lot people who will direct message me because they want to bring something to my attention. My Facebook is a great resource, but I'm also a walking resource since I'm on campus pretty much 24/7. Being at community events for Purdue and West Lafayette is a great way to meet the people who give back to the community as well.

To read our full interview with Shannon Kang, visit purduealumnus.org.

REBECCA MCELHOE (LA16)

CRAZY THINGS PROFESSORS SAY

"We might be reviewing the second half of class or maybe you'll just be throwing things at me. I don't know."

—Daniel Kelleher, visiting assistant professor of mathematics. Submitted by **Tegan Steenburgh (CE'18), West Lafayette**

Do you have a crazy quote to share? Tell us at alumnus@purdue.edu

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[RESEARCH]

DISCOVERIES

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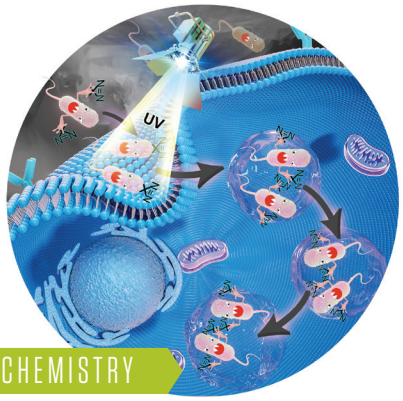


BIOCHEMISTRY

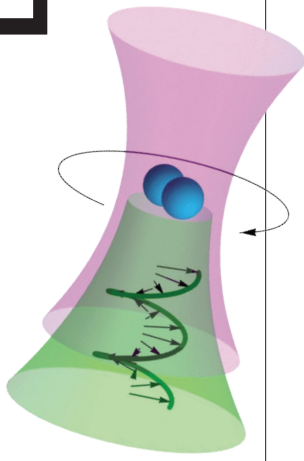
Scientists develop way to track salmonella infection in real time

When bacteria like salmonella infect and sicken people, they hijack a person's cell proteins to develop a defense against an immune response. Understanding how that works and developing methods for defending against these bacteria is difficult because scientists haven't been able to track the hundreds of proteins involved in real time. A recently developed chemical method — host and pathogen temporal interaction profiling, or HAPTIP — for labeling a living bacterium and tracking it as it invades a host cell may help improve understanding of bacterial infections and lead to the development of new drugs.

NANOTECHNOLOGY

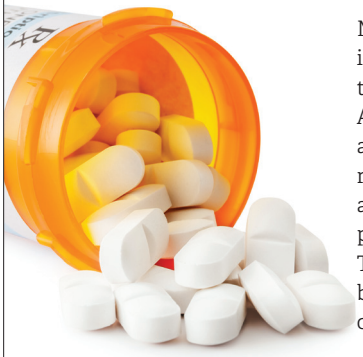
Light powers world's fastest-spinning object

A dumbbell-shaped nanoparticle powered just by the force and torque of light has become the world's fastest-spinning object. Purdue scientists created the object, which revolves at 300 billion revolutions per minute — or, put another way, half a million times faster than a dentist's drill. In addition, the silica nanoparticle can serve as the world's most sensitive torque detector, which researchers hope will be used to measure the friction created by quantum effects.



PHARMACEUTICALS

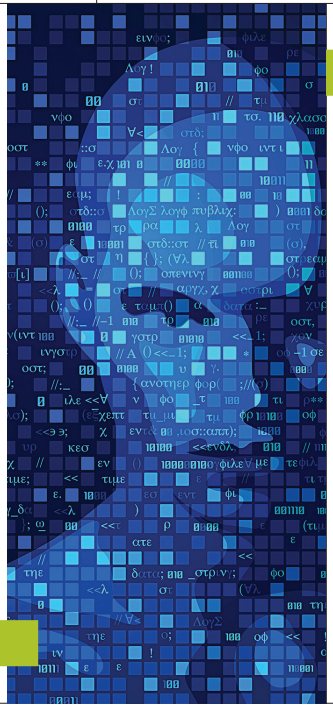
Edible 'security tag' to protect drugs from counterfeiting



Manufacturing prescription drugs with distinct markings, colors, shapes, or packaging isn't enough to protect them from counterfeiting, US Drug Enforcement Administration reports have shown. Researchers are aiming to stump counterfeiters with an edible "security tag" embedded into medicine. To imitate the drug, a counterfeiter would have to uncrack a complicated puzzle of patterns not fully visible to the naked eye. Tagging drugs would not only guard against fakery, but also help pharmacies better verify the legitimacy of a drug before selling it to consumers.

Intrusion alert: System uses machine learning to stop cyberattackers

In recent months, the FBI issued a high-impact cybersecurity warning in response to increasing attacks on government targets. Government officials have warned major cities that such hacks are a disturbing trend that is likely to continue. A Purdue team created a new detection tool to alert organizations to cyberattacks. The system is called LIDAR – which stands for lifelong, intelligent, diverse, agile, and robust. The system is made up of three main parts: supervised machine learning, unsupervised machine learning, and rule-based learning.

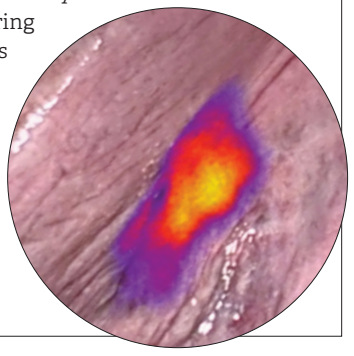


CYBERSECURITY

CANCER RESEARCH

'Fluorescent markers' to illuminate cancer receive FDA fast track

Intraoperative molecular imaging used to illuminate and target non-small-cell lung cancer showed improved outcomes for 26% of patients in a multi-institutional phase 2 clinical trial. The "fluorescent markers," a Purdue discovery being developed by On Target Laboratories Inc., help medical professionals identify and remove cancer cells during surgery. Phase 3 clinical trials for lung and ovarian cancer indications are now in development under a special protocol agreement with the US Food and Drug Administration.



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SIYA KULKARNI

Senior, Krannert School of Management || PUNE, INDIA

Best thing about Purdue?
A campus culture determined to help everyone go one brick higher. We are anything but complacent.

How'd you get involved in Mortar Board?
I was nominated by mentors from previous involvements and was extraordinarily humbled on being tapped as part of the 2020 class. Desiring to contribute more, I took on the role of president.

Proudest Purdue accomplishment?
Starting Sangathan, a club for Indian international students, with my friends and meeting our enrollment goal in three years.

Embarrassing moment?
I once fell asleep listening to a podcast about serial killers, only to open my laptop in class to subject everyone to the gory details about murders in Utah at 7:30 a.m. on a Monday. Fun!

Hardest class?
ENGL 232: Dragons. It was extremely challenging to not believe that dragons (amongst other creatures) undeniably existed from that point onward.

Cool projects?
Developing a physical space dedicated to mindfulness and self-care for the residents of Windsor using research surrounding healthy student lifestyles. We have bean bags!

DID YOU KNOW?

Tuition for the 2020–21 academic year will remain frozen at 2012 levels, marking the ninth straight year of no tuition increase.

ELIOTT REYNA

A NEW STUDY *looking at parent-adolescent relationships and substance use shows traditional parenting techniques might not be the best way to address issues.*

FAMILY STUDIES

PARENTING ADOLESCENTS

Traditional techniques may not be best method to address substance abuse

STRICTER CURFEWS, MONITORING FRIENDS and whereabouts, restrictions on smartphone and social media are traditional parental responses for misbehaving adolescents. But a new study exploring parent-adolescent relationships and substance use shows traditional techniques could backfire when used too much.

Researchers found many aspects about child disclosure — where the child willingly provides information to parents — in line with other research, but that too much consistency over time in the ways parents and adolescents communicate was associated with worse substance use outcomes. The findings were published in *Prevention Science.*

"Consistent, high levels of parental solicitation — gathering information from their child — and parental control may be less effective because the adolescent could view parents as too restrictive and not respecting their changing autonomy," says Kristine Marceau, assistant professor in the Department of Human Development and Family Studies.

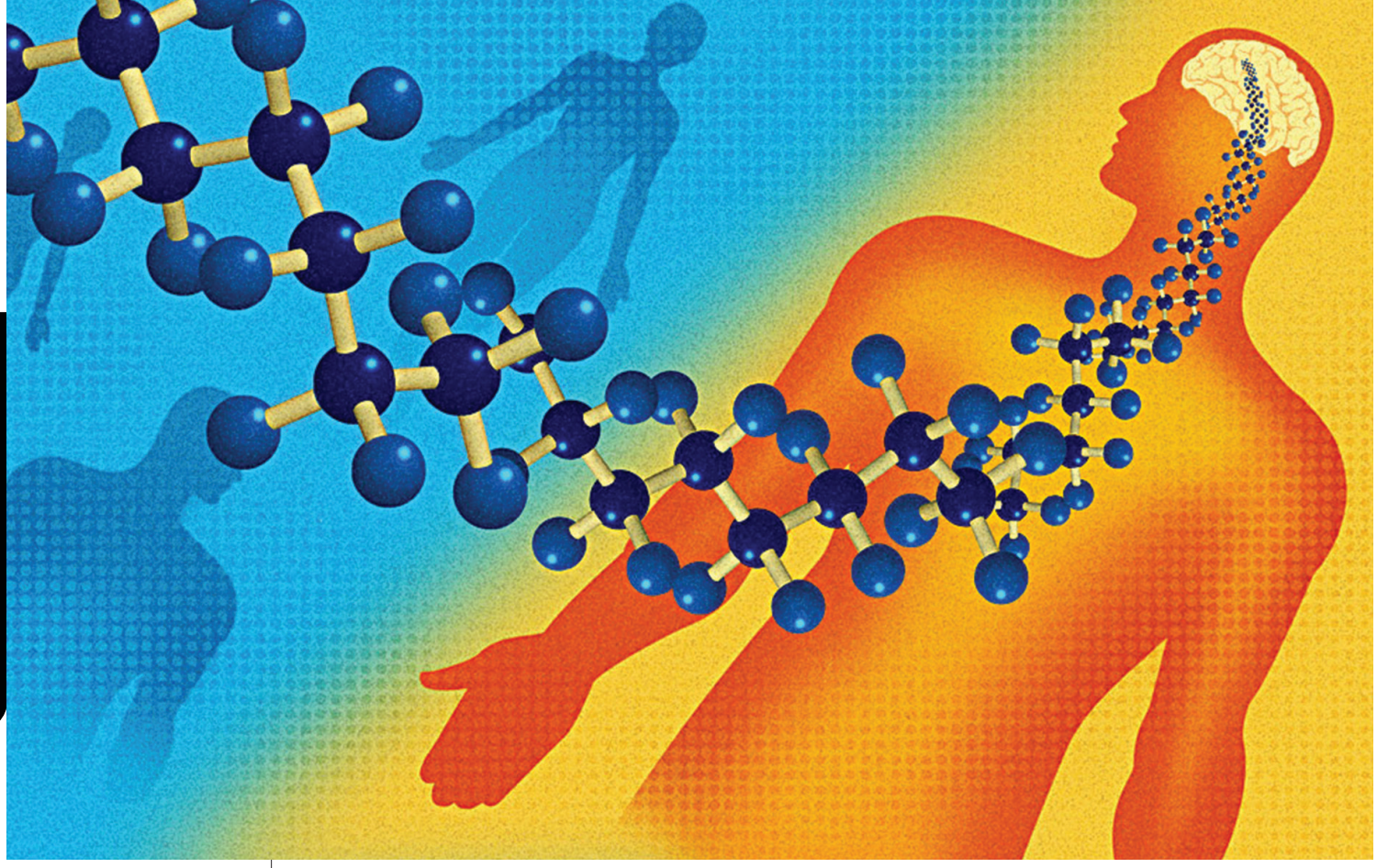
While some may lament the loss of age-old parenting techniques, Marceau offers a different take and says parents can be adaptable and more responsive in addressing particular or event-specific behaviors, which could be more beneficial to both the parent and the adolescent.

"It opens the door for a new view on parenting techniques and child responses, especially when it comes to substance use during the adolescent years," Marceau says. "In fact, prevention efforts trying to increase the levels and consistency of how parents monitor their child could backfire, at least in terms of adolescent substance use."

Marceau says most of the change in parental knowledge was in the form of the year-to-year changes in the child, including the group of friends they hang out with.

"An example of year-to-year change would be a child who is exploring new friend groups and starts to hang out with the 'wrong crowd,' only to find out the next year they prefer a lower risk friend group or they choose to spend more time in organized activities.

"Kids who don't hide anything from their parents tend to do so consistently across adolescence and also don't engage in substance use early," Marceau says. — MATT OATES (LA'00)



TOXICOLOGY

FOREVER CHEMICALS

Human-made compounds make life easier, but implications are unknown

THE HUMAN-MADE CHEMICALS THAT MAKE our kitchen pans stick-free, our athletic wear water-repellent, and firefighting chemicals more efficient do their jobs incredibly well, but it's at the expense of lingering in the body and environment for what is believed to be forever.

These forever chemicals, perfluorooctane sulfonate and perfluorooctanoic acid, more commonly known as PFOS and PFOA, make life easier. But scientists have many questions about these synthetic compounds' long-term effects. They are being used less by consumers, and companies that once championed them are stepping away. But they still have important military and industrial applications, especially in firefighting foams. Even if production completely stopped, the world will still live with them forever.

"These chemicals are detectable in the blood of almost every human. They are often found in other species as well, including polar bear and whale brains," says Jason Cannon, an associate professor of toxicology. "The carbon-fluorine bond is one of the strongest in nature, and it is difficult to break down, especially when there is more than one fluorine atom on the carbon atom. Most chemicals that we consume or absorb will leave the body in a different chemical form. To the best of our knowledge, these chemicals are not very well metabolized, so they bioaccumulate."

Forever chemicals have been shown to affect hormones and other aspects of the endocrine system. Both PFOS and PFOA are potentially neurotoxic. But the extent is unknown, especially for the years and decades they may accumulate in the brain.

"And which regions they accumulate within the brain is unknown," says Cannon, who studies dietary toxins and neurological disease, including gene-environment interactions in Parkinson's disease.

Although many PFOS and PFOAs have been removed, alternatives with shorter chains are being created.

"It is thought that the shorter-chain PFOAs are less toxic," Cannon says. "But I would say we truly don't know that. The data is not there. We have all these alternatives in the environment with little to no toxicity testing. In some cases that may be true. They may metabolize and leave the body faster, but from a neurological standpoint, the smaller compounds usually penetrate the brain better. So that is something we need to pay attention to."

—AMY PATTERSON NEUBERT (LA'99, MS LA'08)

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← TASTE

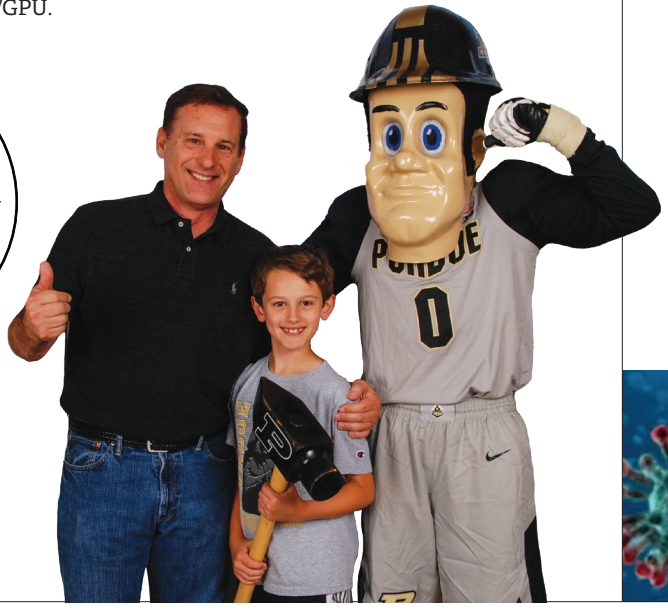
Boiler Bee Honey

A collaborative project between the Departments of Food Science and Entomology is harvesting honey produced by honeybees in the Purdue apiary and processing and bottling it in the food science Pilot Plant. The honey is available for sale on campus at the Boilermaker Butcher Block for $5 a bottle. Proceeds will be funneled back into entomology and food science research.

LEARN ↓

Grandparents University

Relive your college days at Grandparents University June 25–26. Choose a major, stay in a residence hall, and eat in a dining court. This intergenerational learning experience is open to children ages 7 to 14 who are accompanied by a grandparent or older adult relative who is not a parent. You don't have to be a Purdue alumnus to participate as long as one person in the family is a graduate. Purdue Alumni members receive a discount on admission. Visit **purduealumni.org/GPU**.



VISIT ↓

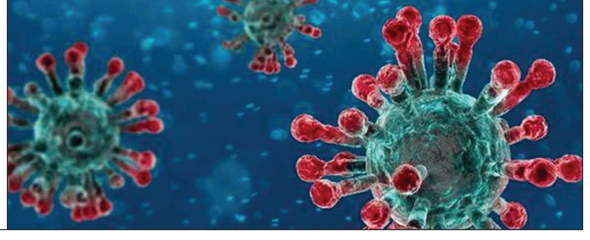
Purdue Archives

"Impressions: The Life, Works, and Legacy of Bruce Rogers" is on exhibit in the Archives and Special Collections library through June 24. Rogers (S'1890, HDR LA'32) was an internationally acclaimed typeface creator and book designer. Hours: 10:00 a.m.–4:30 p.m. Monday–Friday. Virginia Kelly Karnes Archives and Special Collections Research Center, fourth floor, Stewart Center (enter from HSSE Library).

↓UPDATE

COVID-19 Coronavirus

Amid growing concern surrounding the COVID-19 coronavirus, on March 10, University President Mitch Daniels and Provost Jay Akridge announced a cancelation of all large campus events through May 2. Many Purdue Alumni-sponsored events around the world have also been canceled. View a complete list at **purduealumnus.org/update.**



CLOCKWISE FROM TOP LEFT: PAUL SADLER; PURDUE ARCHIVES; ISTOCK; GINNY REYNOLDS (T'10); TOM CAMPBELL

BRIAN POWELL

VIEW FROM THE LAB

Take Flight

A new simulator in Purdue Polytechnic Institute's professional flight program provides better training and preparation for professional flight students.

Purdue's Hawker 900XP full-flight simulator began operation in September. The in-flight simulator, using the latest technology, is bolstering the School of Aviation and Transportation Technology's work to put new pilots in the skies. The simulator is qualified at the highest level by the FAA, helping students earn qualifications as a pilot or second-in-command.

"There is a global shortage of pilots, and we are part of the solution," says Manoj Patankar, the Raisbeck Engineering Professor of Aviation Technology and head of the school.

"We are the only university in the nation to offer jet-type training integrated into our bachelor of science degree program," Patankar says. "Adding the Hawker simulator is a giant leap in collegiate flight education that gives our students a significant competitive advantage upon graduation." —BRIAN HUCHEL

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REBECCA MCELHOE (LA'16)

SPOTLIGHT

Hazmat Man

Name: Ryan Marvel (LA'16)

Gig: Environmental Safety Technician

Years on the job: One year, seven months

On duty: Collect chemicals and biohazardous waste from campus buildings; safely transport them to our hazardous materials storage facility, where we prepare them to be shipped out.

All in the mix: Chemical containers are sorted and we blend compatibles together in 55-gallon drums to maximize storage and shipping efficiency. I blend about six days a month, but between our four technicians, we are blending every day.

You'd be surprised: More than half of the materials we handle are used as waste-to-energy.

Safety first: When handling hazardous materials, it is critical that we follow protocol to protect ourselves and others. That means we wear safety glasses, gloves, pants, and closed-toed shoes for pickups. When we're blending chemicals, we wear full hazmat suits.

Heavy lift: Annually, the West Lafayette campus generates an average of 250,000 pounds of chemical waste and thousands of pounds of treated biological waste. That equals about 1,100 55-gallon drums each year.

What I love: I get the opportunity to interact with grad students and share my knowledge of proper material handling. That helps them perform their jobs in a safe manner.

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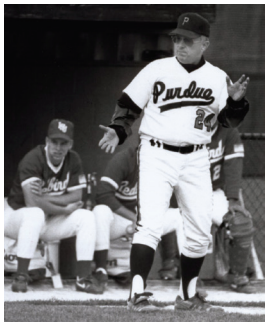

IN MEMORIAM

Longtime baseball coach Dave Alexander (HHS'63) died February 26 at the age of 79. As head coach of the Boilermakers from 1978 to 1991, his program record of 407 wins stood until 2012.

After coaching, he was an administrator with Purdue Athletics from 1991 to 1994 and also enjoyed a long run as a Major League Baseball scout.

Alexander was the lead donor for Purdue's baseball field, named for his parents, John (S'33, HDR'86) and Anna Margaret (Ross) Alexander (S'35, HDR'86).

ALUMNI ATHLETE

ROWING POWERHOUSE

How grit and hard work led coach Kevin Sauer to the Olympic stage

How do you build the steps to an Olympic podium? For Kevin Sauer (M'76), Purdue Crew coach from 1977 to 1982 and the first coach of the women's rowing team, it all started with a hammer.

"In 1979, I was the head coach of the rowing club and making $4,000," Sauer chuckles a bit. "I was building hog barns, houses, and YMCA cabins and working at a shoe store on the side to fund my coaching habit."

Before that $4,000 salary, though, when Sauer was an undergrad, he was the captain of the men's team. In fall of 1974, when the men were having their first team meeting, a group of women showed up and announced they wanted to row. As captain, Sauer told them that of course they could row — and that practice was at 5:30 a.m. the next morning.

"They showed up," Sauer says. "And they kept showing up. After a few weeks, I knew they were real — what was happening around the country was real." The next year, Sauer coached the novice women's rowing team. "Back then, we didn't have much equipment, so we lifted weights and ran stairs — lots of them — in the stadium." Over the next six years, Sauer's construction skills came into play again as he and the men's and women's teams developed the boathouse — which originally had a dirt floor — into a training center. "We didn't row that well," he smiles, "but we were tough."

Sauer went on to coach the freshman men at Yale and then returned to Purdue to coach the men's team for two more years. Since 1988, he has been the head coach at the University of Virginia, where he's built a powerhouse program, but his Purdue roots continue to influence how he coaches rowers for the most elite competition: the Olympics.

"I was on the national team, so I knew what was possible," Sauer says. "Here was this guy from Purdue at the selection camp for the '76 Olympics rowing with guys from the East Coast schools. From that experience, I knew you could take kids like myself, and if you build the right environment, they can do great things."

Sauer didn't make the '76 Olympic team, but he did compete in the '77 world championships. He finally made it to the Olympics in Rio de Janeiro in 2016 as a coach of women's double sculls, and he watched Amanda Elmore (S'13) win gold in the women's eight.

"Here's a kid who had all the goods but didn't know it until she tried it," Sauer says. "Elmore walked on at Purdue, and six years later, she's in the stroke seat of the women's eight that wins Olympic gold.

"There's nothing easy about this sport except watching the kids that decide to sink their teeth into it. The reason I loved coaching at Purdue was because of the kind of people that were there."

Sauer is still building, but now it isn't hog barns and houses. As a coach who knows that the right environment is more important than any other training element, he's building athletes who are capable of pursuing their own spot on an Olympic podium.

—JEN WHITING

FROM TOP: UVA ATHLETICS; PURDUE ATHLETICS

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DAKTRONICS

CHARLES JISCHKE (MBA'08)

INSTANT REPLAY

The King of Mackey

Senior Tommy Luce made his mark on a memorable night in Mackey Arena. Already with victory in hand against the No. 17-ranked Iowa Hawkeyes, Luce put the exclamation point on a 36-point win, the largest victory ever against a ranked team for the Boilermakers. He rose up from the corner with under a minute to play and sent Mackey Arena into a frenzy with a 3-pointer that pushed the lead to 101–66. The next time down the floor, it came from the top of the key for the finishing touches on a 104–68 victory.

The lovable walk-on from Jeffersonville, Indiana, has had a remarkable time at Purdue living out his dreams. His team accomplishments are among the best of any player that has ever played at Purdue — two Big Ten titles, three Sweet 16s, one Elite Eight, trips to Spain, Taipei, Cancun, the Bahamas, New York City. The list goes on and on. But we imagine that the night that he scored six points in a blowout win over Iowa ranks up there with some the best moments of his time as a Boilermaker. —CHRIS FORMAN

"What's important to me is that I recognize I am God's child."

SPORTS

RACING WITH GRACE

Champion runner Samara Miller channels her abilities in service to others

FOR SAMARA MILLER (LA'19), PURDUE WAS NEVER PART OF HER plan. As the 2016 400-meter national champion senior year of high school, she had plenty of options.

"I was recruited heavily by Big Ten schools and even some schools in the SEC," Miller recalls. "At my home recruitment visit from Lonnie Greene, the Purdue head coach, I liked what he had to say. During my official visit, I committed to Purdue on-site."

As a Boilermaker, Miller has added to the list of accomplishments: three-time Big Ten Champion and Big Ten athlete of the week are two notable standouts among them.

But her passion for sport extends beyond the competition. Miller is the president of the Student-Athlete Advisory Committee (SAAC), where she works with athletes from other intercollegiate teams to foster dialogue about diversity and inclusion and create a network of mutual support.

In 2019, Miller made history as the first athlete in school history to graduate through the College of Liberal Arts Degree in 3 program, with a long list of academic accomplishments in tow.

Today, Miller is studying human resource management at the Krannert School of Management as a graduate student while still competing for the Purdue track team.

Miller hopes to turn her passion for athletics into a career after she graduates, perhaps as a sports attorney or helping former student-athletes bridge the gap between sports and the working world. Whatever the future holds, she knows how to tackle each obstacle with grace and confidence.

"I might have a bad day or a bad season. I might be struggling in a class, but what's important to me is that I recognize that I am God's child, and there's no other identity that tops that."

—JOEL MEREDITH

BRAGGING RIGHTS

The men's basketball team's senior class is 7–0 against the Hoosiers, the best record for any Purdue class against Indiana since the Class of 1913 (8–0).

// THE HIGHLIGHTS // • **Men's Basketball** The Boilermakers won their February 8 showdown at Indiana, the program's fourth straight win at Assembly Hall and the ninth victory in the last 10 games in the series overall. • **Women's Basketball** Senior Ae'Rianna Harris became the program's all-time leader in rebounds and blocked shots while also becoming the second player in Big Ten history to have 1,000 points, 1,000 rebounds, and 300 blocks in her career. Classmate Dominique Oden moved into the top 10 in career scoring, surpassing 1,700 points. • **Swimming & Diving** Junior diver Emily Bretscher won the Big Ten Championship on the 3-meter springboard and earned Diver of the Championships honors as she placed in the top six of all three diving events. • **Wrestling** Seniors Dylan Lydy and Christian Brunner won the prestigious Midlands Championships, the first time two Boilermakers have won in the same season. The team also defeated Indiana in dual competition for the 10th consecutive season. Purdue heads to the postseason with the program's highest ranking since 1998. • **Football** Freshmen David Bell and George Karlaftis both earned First-Team Freshmen All-American honors for their play during the 2019 season. Bell led the team in receptions, receiving yards, and touchdowns, also earning Big Ten Freshman of the Year. Karlaftis led the Boilermakers in tackles for loss and sacks and was third in total tackles.

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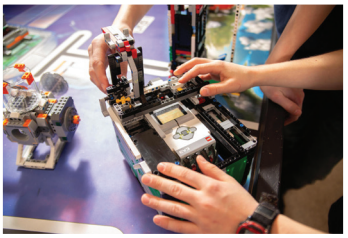
- Biology
- Clinical Diagnostic Detective
- Engineering Everywhere
- FIRST Robotics
- Hands on STEM through Agriculture
- Myths and Legends
- Nanotechnology
- Nuclear Engineering
- So You Want to Run a Restaurant
- Urban Agriculture
- Wildlife and Aquatic Sciences



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PURDUE ALUMNI

A message from the
ALUMNI BOARD CHAIR

Greetings Fellow Boilermakers!

As spring emerges with hope and promise of new growth, so it is with your Purdue Alumni Association! Your personal, professional, and intellectual well-being is the focus of our staff and many volunteers. We have pursued this mission for more than 140 years, based on the notion that Purdue alumni are a force for action, growth, and well-being.

As I speak with many of you, I hear what echoes in my own soul with respect to why so many of us are loyal to Purdue. We share a common theme — we want to make an impact on the world through our connections with each other and with the University. As such, your alumni association board and staff have been very busy the past four years investing in and developing new approaches to bring forward contemporary and impactful programs to help us all in our quest to make a positive impact.

As Purdue Alumni Association members, one of the most important tasks we address is the selection of three of the 10 individuals who make up the Purdue University Board of Trustees. This important decision — a process mandated by Indiana state law — shapes the giant leaps our alma mater will take for years to come. One of those current trustee seats, vacated after 15 years of dedicated service by Tom Spurgeon (M'61), will be filled through voting by members of the alumni association. Please cast your vote and exercise this important privilege of membership!

The Latin term "alma mater" translates to "nourishing mother." And the best way to ensure that you are connected to nourishment from Purdue is through membership in the alumni association. Please encourage other Purdue alumni in your life to become members today, so they can also benefit from the personal, professional, and intellectual nourishment that comes from being engaged.

Hail Purdue!

Dan Dawes (A'80)
Chairman of the Purdue Alumni Board

TRUSTEE ELECTION

Purdue Alumni Trustee Screening Process

The board of directors received 40 nominations from individuals interested in the role of Purdue Alumni trustee. The Trustee Screening Committee — a board-appointed task force comprised of Danita Rodibaugh (HHS'75), chair; Mary Harris Dieter (T'82); David Parker (A'80); Mona Quintanilla (S'86); and Jon Simpson (T'00) — carefully reviewed each candidate submission according to a set of criteria defined with input from Purdue University President Mitch Daniels and current members of the Purdue University Board of Trustees. Candidates were screened, ranked, and interviewed according to this criteria (available at purduealumni.org/trustee), and the top three candidates were presented to the full Purdue Alumni Association Board of Directors, who voted on the ballot.

With 630,000 living graduates, there is no shortage of talented Purdue alumni. Because of this, the Purdue Alumni Association Board of Directors voted to place two candidates on the Alumni Trustee ballot instead of one, as in previous elections. This strategy allows the board to showcase more alumni talent for the membership vote and also places the choice of the next Purdue Alumni trustee in the hands of alumni.

Voting will take place online or by paper ballot from May 4 through May 8, 2020, and the election results will be ratified by the Purdue Alumni Association Board of Directors on June 5 at the spring board meeting. Only members of the Purdue Alumni Association may vote in the election. An individualized link will be sent to all members the week of election. A paper ballot may also be requested from the board's corporate secretary, Jillian Henry at henryjm@purdue.edu.

The successful candidate will be sent to the governor of Indiana for appointment on or before June 30, 2020, and serve a three-year term to begin July 1, 2020.

PURDUE UNIVERSITY BOARD OF TRUSTEES: *(front row, from left) Tom Spurgeon (M'61), JoAnn Brouillette, Sonny Beck (A'62, MS A'64, HDR A'07), Vanessa Castagna (HHS'71), (back row, from left) Malcolm DeKryger (MS A'83), Michael Berghoff (M'85), Gary Lehman (M'74), Don Thompson (ECE'84), Michael Klipsch (M'85), and Noah Scott.*

Theresa Carter (IE'85)

Major General Theresa Carter (USAF, Retired) served 31 years as a civil engineer and installation management leader. She was the first woman civil engineering officer promoted to brigadier general and to serve as the air force civil engineer, the career field's highest-ranking officer. She now leads TC3 Solutions LLC as an independent consultant providing strategic leadership and management support to federal and corporate clients.

Carter has extensive experience leading, building, and transforming complex infrastructure, energy, and environmental programs plus leading organizational change. She commanded a squadron, group, two wings, and a center, ranging in size from 400 to 8,000 personnel. As the air force civil engineer, she organized, trained, and equipped the 60,000-person civil engineer force and led planning, development, construction, maintenance, utilities, and environmental quality at air force installations worth $251 billion. Carter culminated her career by leading the air force's largest reorganization since 1992, merging installation support activities conducted at 10 intermediate commands into a single organization supporting 77 installations with a $10 billion annual budget.

Carter earned a bachelor's in industrial engineering from Purdue, a master's in industrial engineering from the University of Oklahoma, and a master's in national resource strategy from National Defense University. She is a candidate for a doctorate in business administration at Drexel University with anticipated completion in 2021. She's a governance fellow with the National Association of Corporate Directors and a certified professional engineer (Virginia).

Carter's student involvement included Mortar Board, residence hall counselor, Tau Beta Pi, AFROTC cadet wing commander, and the softball team (1981 to 1982). She's been recognized with the Purdue Distinguished Engineering Alumna Award and the Outstanding Industrial Engineer Award and was inducted into the Purdue ROTC Hall of Fame. She is a Purdue Alumni life member and member of the President's Council, Stewart Society, and John Purdue Club. She also served as Purdue's 2018 winter commencement speaker.

She currently serves on the Executive Committee for the Purdue Alumni Association Board of Directors and is a member of Purdue's Industrial Engineering Advisory Council. She previously served on the United Water Federal Services Inc. Board of Advisors.

Julie Eddleman (HHS'92, MS HHS'95)

Julie Eddleman is a Global Client Partner at Google and a leader in the Global Client Solutions group, which accelerates Google's work with large companies by delivering unprecedented holistic online brand building and enterprise data solutions to help businesses.

She leads teams spread around the world that oversee deep relationships with Procter & Gamble (P&G), General Motors, Ford, Fiat Chrysler, Coca-Cola, and McDonald's. Before Google, Eddleman spent 19 years at P&G where she held a variety of brand management roles and was considered one of the leading marketers around the world. Her final role at P&G was leading marketing operations for the $35 billion brand portfolio and over $3.5 billion in investment.

Eddleman has been recognized for her innovative marketing work in the industry by being named a Media Maven by Ad Age, an LGBT influential leader by the *Advocate* magazine, and Woman of the Year by PowerPlay New York City for her role in mentoring young women and girls. She currently serves on the board of directors of the Women's Basketball Coaches Association and the advisory board of ESPNW. She earned two degrees from Purdue University — a bachelor's in consumer affairs and a master's in consumer behavior.

As a student, Eddleman was involved with Phi Kappa Phi, Phi Beta Kappa, Alpha Lambda Delta, Omicron Delta Kappa, Glenwood Cooperative, Purdue Foundation Student Board, Golden Key, Iron Key, and Mortar Board. In 1992, she was the recipient of the Flora Roberts Award, an honor bestowed upon the outstanding senior woman at Purdue. She also received the 2000 Outstanding Young Alumni Award from the Purdue Alumni Association. The National Mortar Board Honor Society recognized Eddleman with a 2013 Alumni Achievement Award.

Her lifelong involvement at Purdue has included serving as the Purdue University Student Trustee from 1993 to 1995, class representative to the Purdue Alumni Association Board from 1992 to 1995, and Consumer and Family Sciences alumni board president and vice president. She also took part in Old Masters in 2013. She has been a life member of the Purdue Alumni Association and a member of the President's Council and John Purdue Club since graduating in 1992.

SO YOU WANT TO DO FIELD RESEARCH?

The globe-spanning, heart-pounding, life-saving work of academic field research

By Erin Peterson
Illustrations by Clare Mallison

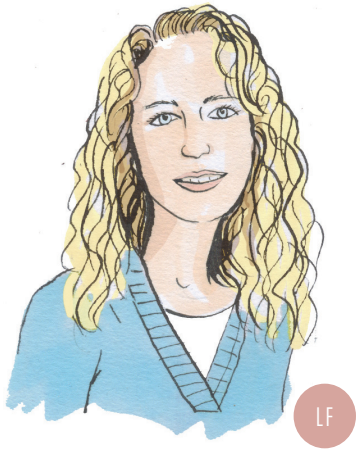
IT'S EASY TO BELIEVE THAT ACADEMIC research is all about paging through dusty books or carefully pouring colorful liquids from test tube to beaker. And yes, professors love their libraries and labs. But it's far from the whole picture.

It turns out that some of Purdue's brainiest faculty are also adventurers and explorers who have chased down tornadoes, spent weeks isolated in rainforests teeming with poisonous snakes, and come nearly face to face with heavy-breathing polar bears. They do it all not in the pursuit of fame or even fortune — but for knowledge.

In the pages that follow, 10 faculty members walk through what it takes to do their field research and exactly why it matters.

MEET THE RESEARCHERS

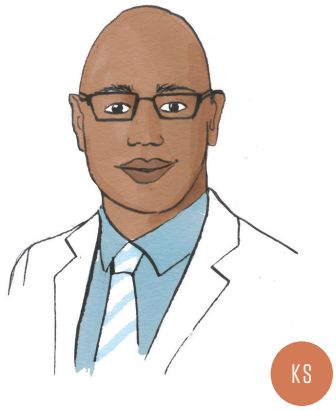
Cathie Aime
professor of botany and plant pathology, travels to Guyana to document and describe new species of tropical fungi



Liz Flaherty
associate professor of wildlife ecology and habitat management, has studied polar bears in Manitoba

Robin Tanamachi
assistant professor in the Department of Earth, Atmospheric, and Planetary Sciences, studies severe storms and tornadoes

Linda Lee
professor of agronomy, has studied river quality and its effect on fish populations in Pakistan

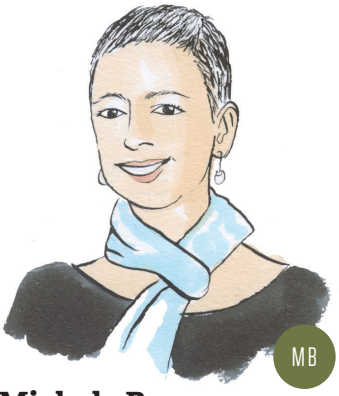


Kevin Solomon
assistant professor of agricultural and biological engineering, develops more efficient microbial chemical factories that sustainably produce fuels and medicines

Nathaniel Lifton
associate professor in the Department of Earth, Atmospheric, and Planetary Sciences, studies isotopes produced by cosmic rays in Antarctic rocks to understand effects of past climate changes on the processes that have shaped the modern landscape

Zhao Ma
associate professor of natural resource social science, studies natural resource decision making in small communities in Bolivia and Peru

Wayne Wright
associate dean for research, graduate programs and faculty development in the College of Education, has done research in Cambodia to help expand multilingual education and create engaging books for schoolchildren

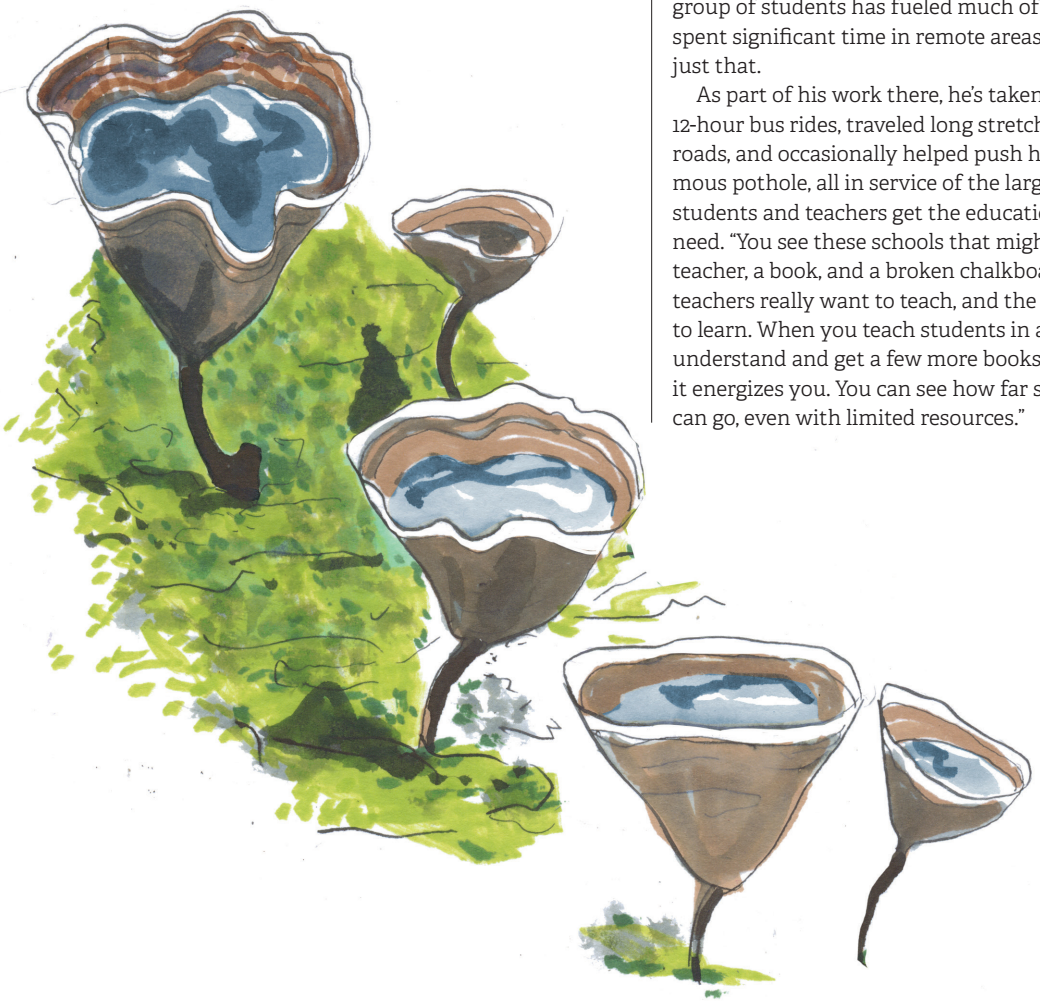


Michele Buzon
professor of anthropology, travels to Sudan to excavate and analyze human skeletal remains from archaeological sites

Laura Zanotti
associate professor of anthropology, has spent more than a decade working with the Kayapó, indigenous peoples in Brazil

IT HELPS TO START WITH A BIG DREAM

CA WW



Studying fungi can be lonely work, admits Cathie Aime, the sole traditional mycologist at Purdue. The statistics back her up: across the field, about 60 times more researchers study plants than fungi, despite the fact that there are vastly more species of fungi than plants in the world.

While some might find that ratio discouraging, Aime says that this gap means she has plenty to explore — and the potential payoff can have a world-changing impact. "Penicillin? That came from a fungus," she says.

Also from fungi: Cyclosporine, a drug that helps prevent organ rejection in transplant patients, and Antabuse, medication used to combat chronic alcoholism. The compounds that some fungi produce have been shown to break down plastics and even help clean up polluted industrial sites.

The potential for discovering a species with compounds that might just transform the human world is one of the reasons Aime has spent two decades traveling to isolated and inhospitable environments around the globe to collect and identify fungi. "They're so biologically rich and diverse," she says. "They offer possibilities we can't even dream of yet."

For Wayne Wright, expanding education to a wider group of students has fueled much of his life's work. He's spent significant time in remote areas of Cambodia doing just that.

As part of his work there, he's taken his share of dusty 12-hour bus rides, traveled long stretches of unmarked roads, and occasionally helped push his van out of an enormous pothole, all in service of the larger goal of helping students and teachers get the education and books they need. "You see these schools that might have 60 kids, one teacher, a book, and a broken chalkboard," he says. "The teachers really want to teach, and the students really want to learn. When you teach students in a language they can understand and get a few more books in the hands of kids, it energizes you. You can see how far students and teachers can go, even with limited resources."

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Intellectual drive and financial support.
"Why do I do work in Peru? Well, there are interesting questions to be answered. Funding is definitely a factor too!"
—*Zhao Ma* ZM

Permits and logistics.
"There are so many things that have to come together. First, research funding. We also need to get permits from the Antiquities Department in Sudan. Then, there's just the logistics: when I first started doing this research, getting to the site once we were in Sudan was 18 hours of driving through the sand."
—*Michele Buzon* MB

A little bit of luck.
"A Pakistan collaborator and I wrote and submitted a proposal to do work on a project in Pakistan, but she told me, 'It probably won't get funded because there are a lot of political things related to these projects — they all go to a particular province, and they don't come to my province.' But they did pick us!"
—*Linda Lee* LL

THE WORK CAN GET YOUR **ADRENALINE PUMPING**

NL CA WW LZ

"Crevasses — fractures in ice that can be hundreds of feet" deep and hidden by snow — are a big hazard in Antarctica. We worked with an experienced mountaineer guide and high-resolution satellite imagery to make sure we didn't drive — or fall — into a crevasse."

—*Nathaniel Lifton*

"There are hundreds of species of poisonous ***snakes*** in Guyana. We do have to worry about snake bites because one could be fatal before we could get somebody to evacuate us. Taking antivenin is impractical and inefficient because it needs to be kept cold, and it needs to be specific to the species. That's why we take snakebite extractors and charcoal. I've had lots of emergency medicine training."

—*Cathie Aime*

"There were ***land mines*** all over some of the areas we were at in Cambodia. But they were pretty much cleared from the school zones. You know, as long as we weren't wandering off the roads."

—*Wayne Wright*

"As a woman and a visible foreigner who often travels alone, I follow certain ***safety*** practices. I make sure the individuals I work with are trusted and recommended by my Brazilian colleagues. I change the rhythms of how I might move through a city based on whether it's day or night. If I'm going to a new place, I ask around about it."

—*Laura Zanotti*

OR ACTIVATE YOUR **GAG REFLEX.**

"As part of our work, we use rumen fluid from freshly butchered cattle. We pull out the rumen (digestion chamber) contents, put it in a mop bucket, and wring it out. We actually have to boil the liquid, so for an hour or two every other week, you'll walk by our lab, and you'll think you're at a farm."

—*Kevin Solomon*

KS

BUT SOMETIMES, YOU'LL LOOK UP AND REALIZE THAT NO OFFICE JOB CAN COMPETE WITH THIS.

"Standing in the mountains in our Antarctic field area, we realized that they're so remote that perhaps only a handful of people had ever been there, and even then, they probably weren't standing exactly where we were. It's amazing to feel like an explorer."

—*Nathaniel Lifton*

NL

CA ZM RT

THE DAYS AND WEEKS CAN BE LONG ...

In some ways, research can seem like an inviting break from other academic responsibilities, but faculty themselves share the truth: research is anything but a break.

When Cathie Aime is in the remote Guyanese tropics, for example, she and her team work from dawn to dusk to collect fungi. When not even 12 hours of daylight is sufficient, they'll strap on headlamps to keep working.

Zhao Ma works with faculty colleagues, graduate students, and postdoctoral fellows in Bolivia and Peru, sometimes spending up to 14 hours a day traveling to people's homes and farm fields to interview them. Her team had to climb up mountains by foot to get to their interviews.

And the days can pile up. For storm chaser Robin Tanamachi, the tornado season that sprawls across a wide range of Midwestern states for a just few weeks each spring means that she and her students may be driving hundreds of miles daily to get to the next hotspot for data collection.

"We might be driving across two states in one day, then operating for two days in a row," she says. "There are moments that make that worth it! But it can also be incredibly fatiguing."

... NOT TO MENTION THE FACT THAT **'OFFICE POLITICS' DON'T DISAPPEAR,** EVEN WHEN YOU'RE HALFWAY AROUND THE WORLD.

"A lot of academics are unprepared for the personnel management of their team. We learn the research; we learn the methods of collecting data; but we don't take classes in human resources! So much of whether or not a project is successful is how well teams get along." —*Michele Buzon*

MB

ZM

LF

SOMETIMES, YOU'LL SPEND DAYS OR MONTHS PURSUING A PLAN THAT TURNS OUT TO BE **A DEAD END ...**

From the press releases and journal articles, it might seem that researchers pile up success after success. But every researcher, even the brainiest and most hardworking, faces setbacks small and large.

Zhao Ma, for example, may spend hours and hours to get to a remote home, where she hopes to talk with a farming or pastoral family about their work, but the family isn't home. Worse, an afternoon's or even a day's worth of effort may vanish when her request for an interview is answered with a firm "no."

Bigger ideas can change unexpectedly, too. Liz Flaherty spent 10 days on a Tundra Buggy in Manitoba, Canada, photographing polar bears that appeared to be losing weight due to a climate-changed environment. She and others planned to use 2D photogrammetry methods to measure the bears' weights. While these methods did not work out as expected, Flaherty and her collaborators are exploring other solutions. "We've moved on to a new project to get at the question a different way," she says.

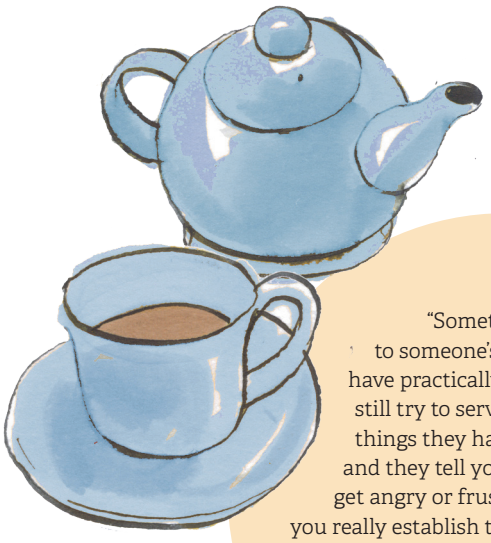
LL

AND SOMETIMES, YOU HAVE TO SUSTAIN YOURSELF WITH **SMALLER VICTORIES.**

"Doing research in Pakistan is challenging for those who work there. There might be just five hours of electricity a day, and if there are samples in a freezer, that lack of electricity can end up compromising the research integrity. Corruption is a problem, too. A researcher might get a grant, but the funding might never arrive because people higher levels up snatch up the money. But I'm proud of the work we have been able to do there, including the impact on some of the students at the University of Peshawar. We're helping to train students and helping them get funds for them to do their research. Several students will graduate because of the project we did."

—Linda Lee

STILL, THERE ARE WAYS TO
FIND JOY
IN EVERY MOMENT.

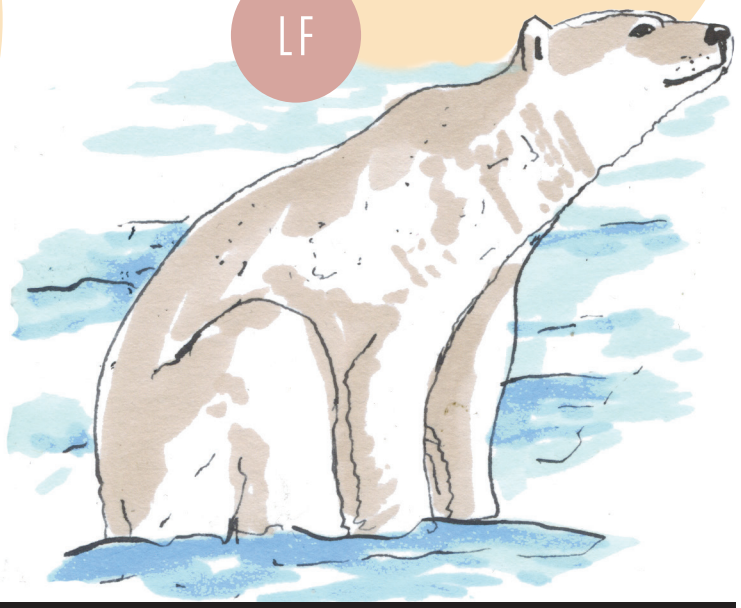


ZM

"Sometimes you go to someone's house — they have practically nothing, but they still try to serve you whatever small things they have, like sweets or tea — and they tell you their story. They might get angry or frustrated or emotional. But you really establish that human contact. Then your study isn't just a study on paper anymore. It's real. That human contact gives meaning to what I do."
—Zhao Ma

"To see wild polar bears in their native habitat? I didn't think twice before I said yes. The Tundra Buggies have a little observation deck that is more than six feet off the ground. A bear can walk right up to the vehicle or go under the deck beneath your feet. You can see them trying to figure out what's going on with the buggy. They were so close we could hear them breathe."
—Liz Flaherty

LF



IN THE END, YOU CAN PURSUE WORK UNLIKE ANY OTHER.

There's no question that field research offers a roller coaster of highs and lows, of victories and defeats. And the researchers will keep coming back not only because of the adventure but also because the quest for knowledge so fully engages them. "The scientific challenge and the opportunity to help solve grand challenges are interesting," says Kevin Solomon.

Indeed, says Robin Tanamachi, some of the most gratifying moments have come long after the pulse-pounding tornado winds have passed. "There's often a moment, months later, where we're perusing the data, and we notice something novel that sets it apart from every other data set that's been collected in the past. That's the real eureka moment. It might be three in the morning, the week before a conference presentation. But to find out new information about tornadoes in the data? That's gratifying."

And Laura Zanotti, whose years working with the Kayapó people in Brazil have propelled her academic work, says it's a true privilege to make her travels and work with others the focus of her career. "I learn a lot about quality of life and well-being from different perspectives. It's inspiring to think about and advocate for what it means to live a good life. It's why I love the work that I do."

KS

RT

LZ

With Love, HEARTACHE

BY JOEL MEREDITH

PHOTOS BY CHARLES JISCHKE (MBA'08)

Saddled with stress, debt, and death, veterinarians commit suicide at twice the rate of the general population.

The College of Veterinary Medicine expanded its staff and its resources to provide support for mental health.

JENNIFER DEHN (HHS'95)
is a licensed social worker at Purdue's veterinary hospital.

In front of the Purdue University Veterinary Teaching Hospital stands *Continuum*, one of the most visually compelling sculptures on West Lafayette's campus. Spanning 45 feet — and 20,000 years — *Continuum* shares the story of an evolving and increasingly intimate relationship between humans and animals.

Watching veterinary students parade a happy pack of Labradors around the perimeter of the hospital, it's easy to relish the opportunity to work alongside man's best friend for a living. But it's not without its challenges

"Pets are becoming more like family members," says Jennifer Dehn (HHS'95). "When that family member is sick or ill or at the end of their life, it's a bigger loss than it used to be."

A licensed social worker, Dehn joined the staff at Purdue's veterinary hospital in May 2019 to help facilitate some of those challenging conversations — and to make sure that the staff is cared for as well.

At a time when there is a growing national spotlight on mental health and suicide rates are at their highest point since World War II, the epidemic is hitting veterinary medicine even harder than the general public.

A 2018 study by the Centers for Disease Control and Prevention found that women veterinarians were 3.5 times more likely to die by suicide than the general population. Male veterinarians were 2.1 times more likely.

Though there's more to these statistics than the sorrow of putting down people's treasured companions, it's certainly a contributing factor.

Studies show, for example, that veterinarians skew toward introverted, type A personalities. And while veterinarians receive well-rounded training on how to treat multiple species, you can't treat the animal without managing the human relationship as well.

Some clients show up at the emergency room with a pet that's bleeding because of a broken nail. Some clients are negligent. Many want to do what's best for their pet but face limited options because of finances.

Paula Johnson, clinical assistant professor in Purdue's small animal emergency and critical care unit, shares the difficulty this can present for staff.

"We become the bad guy. People will say things along the lines of, 'You're just going to let my pet die!' or, 'You don't care about my pet!'

"In an emergency situation, we don't meet people at their best, but it's still hurtful — especially when you're trying to do the very best you can for them and their pet."

And when things go wrong, angry clients often take to the internet to vent their frustrations. Spend 10 minutes browsing reviews for almost any veterinary clinic, and you will find numerous complaints accusing the staff of a lack of empathy and compassion.

With limited training in client interaction and often

PAULA JOHNSON IS *a clinical assistant professor in Purdue's small animal emergency and critical care unit.*

no business experience, veterinarians are responsible to step into people's lives at a moment of extreme duress and meet the client wherever they are — while operating on razor margins.

"I don't care what anyone says, veterinary medicine is not a moneymaker," says Johnson. "People have a passion for what they're doing — this is something they truly want to do. Debt-to-income ratio after you graduate is upside down."

While the amount of debt that veterinarians accrue is comparable to that of medical doctors — approximately $167,000 for veterinarians compared with $190,000 for medical doctors — the pay for veterinarians is significantly lower. Starting salaries are typically under $100,000. Higher-earning positions require competing for a scant number of residency positions at less than 30 veterinary colleges in the United States.

Learning to set boundaries

For a veterinarian, professional success is defined by the health outcomes they are able to achieve. Lives saved. Animals reunited with family after an accident. Another day, month, or year of walks, squirrel chasing, ear scratches, and belly rubs.

When things don't go according to plan, the consequences can weigh heavily on the entire staff — not just the doctor.

And over time, the effects can be disastrous.

Carrie Jurney, board member of Not One More Veterinarian, a group founded in 2014 to create space for veterinary professionals to talk about mental health, found herself at the end of her rope.

"I went from 'This job is all that I am,' to, 'I can't do this anymore,'" she says. "I had to take four months off and analyze what was happening in my life. I was helping all these other people when I needed a lot of help."

The passion that drives people to become veterinarians is a double-edged sword. Wanting to help animals means that veterinarians and veterinary nurses want to go the extra mile to do what they can to help their clients. But it can also mean white-knuckling through each challenge without taking the time to step back from the edge.

"I know I was raised with a certain work ethic — you keep going," says Christine (Bongiorno) Coyle (DVM'98). "In 22 years, I have called out three times. I missed one week for abdominal surgery, even though I should've missed two, and I worked one day with a severe corneal ulcer and then went to the ER."

Coyle isn't alone.

"I know similar stories from many of my colleagues, including one who worked with severe back pain, even sitting to do surgery until she ended up in the ER heading to back surgery for herself!"

Dehn stresses how important it is for people to establish their limits. "I hear that often the boundaries weren't there," she says, referring to instances of suicide in the profession. "They weren't able to turn off the veterinary profession and

SUSIE FORRESTER

turn on the family or the hobby. They kind of all merged together, and that's kind of a hard place to be for someone in helping professions."

Christopher Fulkerson (HHS'06, DVM'10, MS V'14), clinical assistant professor of medical oncology at the Purdue teaching hospital, breaks down some of the complexities around setting boundaries.

"There seems to be an expectation — not only from clients but often from ourselves — that we should be directly available 24 hours a day," Fulkerson says. "Technology has certainly facilitated this, but even before email, text messages, paging, and social media, veterinarians have a long history of making themselves directly available to the public — to a degree that would never be expected of a physician or a dentist. And that's not a dig at physicians or dentists; it's OK for them to set boundaries, too!"

As part of her work at the Purdue University Veterinary Teaching Hospital, Dehn would like to be able to help students think outside the walls of the hospital.

"I would really like to see students come out of school with a better understanding of themselves and what works for them in terms of coping skills and what doesn't work," Dehn says. "Getting to know themselves — not just who they are in an academic setting trying to get the grade. It's easy to lose yourself and forget why you're there."

To help students, Purdue has hired two additional professionals who will focus on student needs during their first three years of vet school, while Dehn will work in the hospital with fourth years, staff, and clients.

Helping the helper

While social workers have long been integrated with human medicine to help facilitate client interaction when it comes to life-death decision making, they are a recent — and as of yet, fairly rare — addition to veterinary medicine.

For many, this is a welcome development to assist with cases that veterinarians lack appropriate training to handle. Johnson recalls a client from her time as a student at Louisiana State University.

"A lady brought her cat in, and it was dead," says Johnson. "She didn't believe it was dead. She was way over the top, and having to deal with her and worrying about what would happen if we just turned her loose out the door after the way she came in was horrifying."

While incorporating social workers into the veterinary workforce has had its positive effects, there are limitations.

"Affording someone like that could be an issue for our small businesses that already run close to the margin at times," Coyle says. Even apart from the financial constraints, the conversation will likely have to come back to the veterinarian.

"When I think about the discussions I've had to have with clients about end-of-life care or decisions for their pet, I actually think we are the best go-to," Coyle says. "This is hard on us of course, but I also find that for me personally, it's gotten easier as you learn how to communicate with different types of clients."

Who should consider veterinary medicine as a profession?

Before entering the profession, Dehn does recommend that people take time to assess themselves.

"Before starting such a demanding profession, it's important to make sure you really know yourself and go into it with open eyes, knowing that it's a hard program and knowing you have a support system in place. Wherever you go to school, look at what sort of support systems there are, and don't be afraid to use them."

In a profession that tends to attract introverts, Johnson also stresses the importance of being able to build trust and strong relationships with clients.

"Engagement needs to be taken on by the profession as a whole to tell people it's great you love animals, but the owner isn't going to let you touch her cat if she doesn't trust you. You need to be able to know how to alleviate her concerns."

CHRISTINE (BONGIORNO) COYLE *(DVM'98) is a small animal, general practice veterinarian who has been in private practice for 22 years.*

CHRISTOPHER FULKERSON (HHS'06, DVM'10, MS V'14) *is a clinical assistant professor of medical oncology at the Purdue teaching hospital.*

Mental Health Resources

If you or someone you know needs immediate help, please call **1-800-273-8255 (TALK)**. Through this toll-free phone number, you can be connected with someone who is trained to listen and offer support to people in emotional crisis. You can also text the crisis line and be connected with someone by texting **HOME** to **741741**. If you feel someone is in imminent danger, call 911.

Purdue students can access mental health services through the Counseling and Psychological Services (CAPS). Faculty, staff, students, or others who are concerned about a student's behavior are encouraged to report the concern to an appropriate university representative or the Office of the Dean of Students or submit the concern through **purduealumnus.org/scr.**

If you are a client at the Purdue University Veterinary Teaching Hospital and would like to talk with someone about a pet loss, assistance with managing a chronic illness with your pet, or adjusting to changes in your pet's health, please contact the Purdue Client Support and Counseling Services website at **purduealumnus.org/css** or call **765-496-6718**.

MY VIEW FROM SEVEN FEET

Boilermaker basketball star-turned-artist Joe Barry Carroll explores his roots and shares his perspective on growing up in the impoverished South and traveling the world with the NBA through large-scale paintings that befit his imposing stature.

STORY BY KAT BRAZ (LA'01, MS LA'19) // ART BY JOE BARRY CARROLL (M'80)

Joe Barry Carroll can't answer the phone. His fingers are covered in paint.

When he calls back an hour later, his baritone voice exudes warmth. Carroll (M'80) grew up in Pine Bluff, Arkansas. Although he graduated high school in Denver, Colorado, he's called Atlanta, Georgia, home since retiring from the NBA in 1991. There, he built a successful career as an investment adviser.

"When you called, I couldn't wash my hands in time for the call," he explains. "I had to make a choice, whether to create a composition on my phone with red paint, or finish what I was doing and call you back.

"I spend my days toggling between transactions on Wall Street and waiting on wet paint to dry. I'm literally in the process of that right now. I'm looking at a board that needs to dry before I put the other paint on it. Otherwise it's going to be a casserole."

Carroll devotes half of his home office to an art studio where he paints on four-foot by four-foot boards in mostly bright colors. The longtime art collector has created more than 200 of his own compositions since he first picked up a paintbrush about seven years ago.

"I started piddling around because I wanted to buy more expensive art, and I hoped that painting myself might inform that choice," he says. "If I understand the challenges of managing space, line, composition, and all those things, perhaps I could have better confidence in further development of my own art collection."

Galleries across the country now display Carroll's work, including a recent exhibit at the Art Museum of Greater Lafayette. His first book, *Growing up ... In Words and Images*, depicts paintings accompanied by narratives about his life as the 10th of 13 children. *My View from Seven Feet*, published in February, includes 50 works paired with narratives that outline his observations, thoughts, and feelings. The collection's title is a lighthearted statement on others' perceptions of Carroll's height.

"There is a bit of curiosity about how I might view the world because I'm a foot — maybe more than a foot — taller than most people." Carroll says. "In reality, I am seeing and experiencing what everyone else is experiencing."

It's those common experiences Carroll attempts to evoke through his work. Not everyone knows what it's like to be an NBA star, but scenes of everyday life, childhood, family, hometowns, love, and loss ... those universal themes are quite relatable to a wide audience.

"To the extent that I can create a piece that touches on some commonality we share, that's interesting," he says. "It's exciting to me when someone says my work reminds them of a life experience, especially if it's a pleasant memory. But even if it's not, when people have a shared experience with me, there's some camaraderie that occurs.

"I'm seeking that common bond, that part of us that we all share in our humanity. Because that's what's important. We're really not interested in other people except to the extent that my life intersects with yours."

Carroll can't pinpoint the moment he became an artist; instead he says that over time, it was calling to him all along. At gallery talks, he advises others to explore their own creativity, to search for artistic outlets they have not yet discovered.

"I'm a man of many parts, and I need all of them to stay healthy," Carroll says. "We all do. But a lot of us stop at the first thing we're good at, or we stop at what is practical. And there could be other things you've not explored. We can be pleasantly surprised to find out all the wonders within. I feel confident in my ability to paint and write, and I was doing neither seven years ago."

As a self-taught painter, Carroll is uninhibited by traditional rules, structure, or techniques. Unafraid to make mistakes, he paints in massive strokes, his work evolving through process.

"What flows from my pen and brush feels natural to me," Carroll says in his artist's statement. "I am never sure if the images create words, or the words move me to images. I am unable to tell precisely what determines my composition of colors, shapes and themes. Perhaps everything is forming at the same time, resulting in a complete story."

Forty years ago, in his senior year at Purdue, Carroll was a first team All-American who led the Boilermakers to their most recent appearance in the NCAA Final Four. The Golden State Warriors selected him with the first overall draft pick of the 1980 NBA draft. When he reflects on his newfound trajectory as an artist, he chuckles.

"I absolutely did not see any of this coming," he says. "How could I? I don't recognize my life right now."

But yet, he does. Because his story, just like his work, is mirrored in the experiences of others he meets. Just as their lives are reflected in his paintings. Carroll refers to these common experiences as patterns and rhythms of life.

"It doesn't have to be exactly the same," he says. "All it has to do is rhyme to know that you're having a similar human experience. Because we're all having the same human experience. It just happens in different places."

TARA COYT

NOMAD

I visited Israel in 2013 along with other former NBA players on a good-will tour. We were all part of an effort to bring Palestinian and Israeli children together under the umbrella of basketball ... for a moment, we all gathered together for a traditional meal that signaled the conclusion of the holy period of Ramadan. Our meal included a bread that I recognized from my own culture as a child growing up in Arkansas.

I continue to be amazed at how lives and cultures rhyme in so many ways throughout the world.

MISTAFRED

(page 44)

Daddy was committed to keeping the bedcovers, he pronounced them "kivahs," on me on cold winter nights during my visits with him. He was always deeply concerned that I was warm during the cold season, cool when it was hot, fed before I got hungry, and never in harm's way.
—Excerpt from Growing Up ... In Words and Images.

In memory of my father, Fredrick Douglas Williams (1900–1968), who returned to parenting at the age of 59.

TRISHA

I ran into Trisha, an old friend, just the other day. We had dated long ago but somehow lost touch along the way … As we moved beyond nervous chatter, I introduced her to my woman, and she in turn introduced me to her wife. After a life of dating men, and a first marriage that had produced a now-grown daughter, Trisha was looking at her wife with the satisfaction that lies in truth. I did not ask into whether she identified herself as lesbian, bisexual, or pansexual; it mattered only that she was happy.

STAR

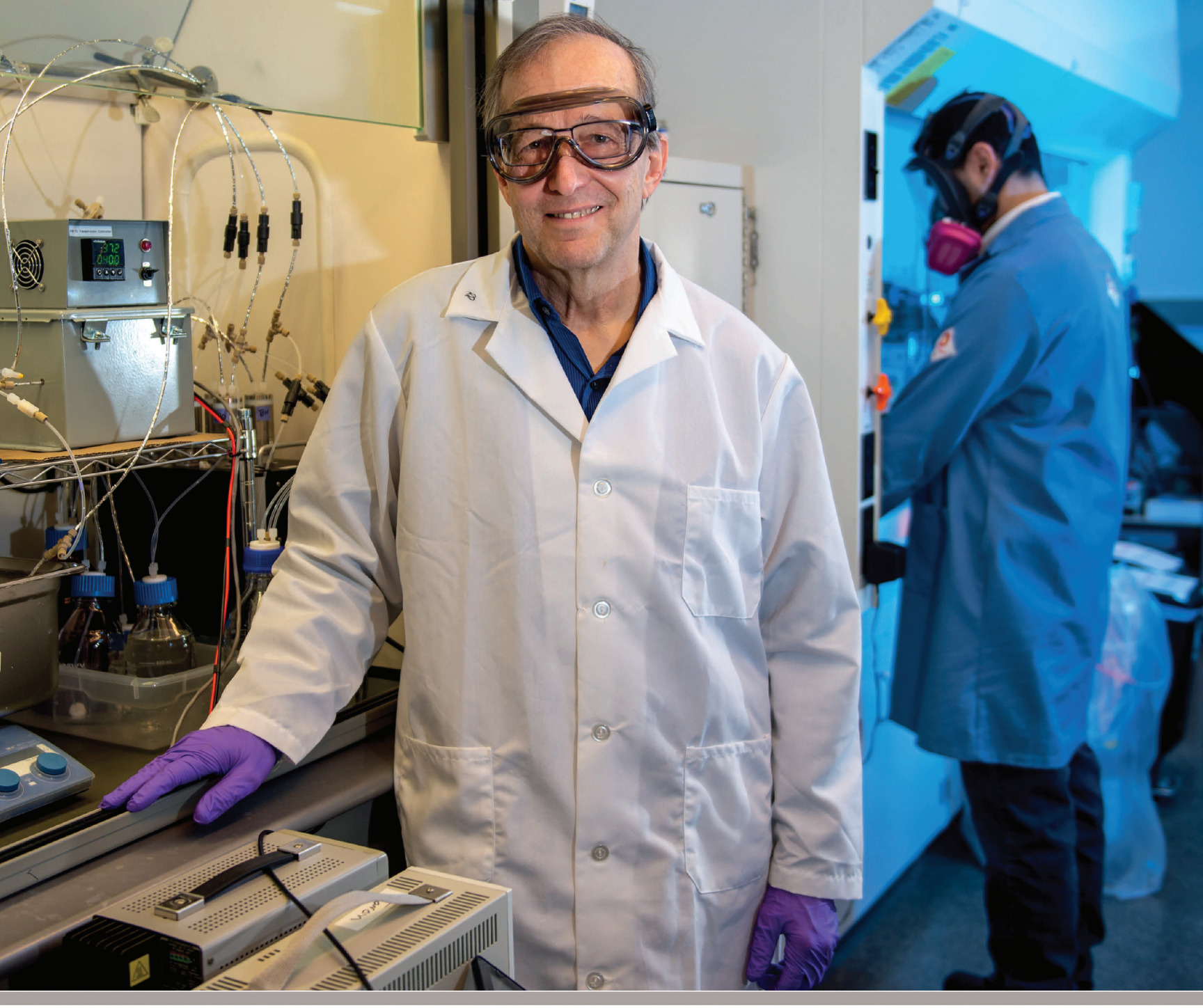
The reality is that our celebrities are likely to be flawed; some are more flawed than others. Not necessarily in a horrible way, but in the way every human is flawed.

PO'

I generally accept that everything is not for everybody, and there is more than one path to follow.

LA SCALA

Perhaps a time will come when I will have a perfect life. Until that time, I find comfort in laughter, good health, delighting in what is beautiful, enjoying my favorite foods, being present in the moment, giving love, and receiving love in return.



The rising cost of cancer medications is a huge concern for patients who are worried they will not be able to afford the medications that will keep them alive. Drug shortages and sole source suppliers cause prices to go up so there is a monumental need for a process that can create medications quickly and effectively.

That's where Purdue University Department of Chemistry Professor David H. Thompson and his team come in.

Dr. Thompson's team has created a process that can quickly produce medications like Lomustine that are on the drug shortage list or have experienced rapid price increases. Because the entire process can operate continuously and requires no more space than a typical refrigerator, this technology can create enough medication to lower the costs of sole supplier drugs and improve the availability of those on the shortage list.

For more information about this discovery: *purdue.edu/cancer-research/communication.*

RESEARCH *that saves lives.*

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Photo by Mark Simons, Purdue Marketing & Media

THE DEBRIS

60 TRAVEL
64 PROFILE: JULIANNE MCCOLLUM
66 PROFILE: MICHELE BISCEGLIE
67 PROFILE: LEVI EADS
70 CLASS NOTES
71 BOOKS
72 IN MEMORIAM

A featured event at weeklong Grand Prix festivities for decades, Les Filles Prix saw teams of five women competing in bed races on an obstacle course. This was not the first entree of women into the Greatest Spectacle in College Racing. A team of women entered the 1959 Grand Prix under the name Les Jeunes Filles. They dubbed their No. 48 kart "Slick Chick."

PURDUE UNIVERSITY

CHARLES JISCHKE (MBA08); COURTESY OF KEITH MOLTER

COURTESY OF KEITH MOLTER

PURDUE HTM

Serving Up Impact

Popcorn. Hot Dogs. Hot cocoa on a cold football Saturday. While the students in Keith Molter's (LA'76, MS HHS'89) Purdue School of Hospitality and Tourism Management (HTM) class served up good eats at a Ross-Ade Stadium concession stand, they offered up so much more. A healthy portion of compassion and commitment to a cause was also on the menu for these students, who were getting work experience while also supporting the Purdue University Center for Cancer Research endowment of late Boilermaker superfan Tyler Trent (AS T'18).

Molter, who has worked in the hospitality industry all his life, knows potential employees need to be more than just good workers. "You have to be a good person and ready to be part of the community in which you work," he says.

Six years ago, Molter decided to include community service as a part of the curriculum of HTM 212, a service course for HTM students. Students are often caught by surprise when they hear that volunteering for a cause is a class requirement.

"When they get the assignment, I hear the refrain, 'I don't have time to give,'" Molter says. "Yet when the project is done and the class is over, many students tell me they were glad they served and even plan to keep volunteering at the organization they assisted."

For the 2019 football season, Molter secured the opportunity for his class to run a concession stand at Ross-Ade, with the profits dedicated to a community organization of their choosing. While many worthy causes were considered, Chris Gatton, a sophomore HTM major from Lake Village, Indiana, made the winning suggestion.

"I thought about the fact that our concession stand was right beside the gate named after Tyler and how cool it would be to have our profits go to his endowment to help find answers to cure cancer," he says.

The entire class rallied behind this cause, and off the students went. Each home football game found a new group of seven class members in the concession stand, learning the ins and outs of the quick-transaction business of feeding hungry fans.

"With a new team of workers for each game, students had to come up the curve fast," Molter observes. The students had to learn how to use the point-of-sale equipment, follow sanitation rules, and absorb myriad details important for a stand to run smoothly and give customers a positive experience.

Gatton, who worked concession stands at high school and Little League games, agrees that the level of sophistication was intense. "It was a whole different animal at the college level, as it is all scientific and data-driven and involves tracking all the different products and metrics," he says. "With Keith being the only permanent person there every

SERVICE

week, I was surprised at how smoothly it all ran as we had to dive in and learn it all."

Analyzing profit-and-loss statements, tackling inventory management, and projecting sales based on anticipated game attendance gave students a taste of what being a manager in this field could be like. The motivation of raising money for a cause helped make this real-life experience especially meaningful for the students.

"Everyone jumped in and did a great job in leadership roles and helping," says Kayla Crose, a Fishers, Indiana, junior and HTM major. "It was nice to know you can make an impact, even as a student. We worked really hard and raised money for a cause that we all felt was super important; what we did mattered."

Taylor Calvert, who has an associate degree in culinary management from Vincennes University and transferred to Purdue to learn more about the business side of the hospitality industry, agrees that working for a cause taught her life lessons. "I definitely think this experience has done a lot for me and has me thinking about giving back more, as you can really make an impact," she says.

The group did indeed make a difference, meeting the goal of raising $5,000 for the Tyler Trent Cancer Research Endowment. The Walther Cancer Foundation matches every gift donated to the endowment, dollar for dollar, so the gift was doubled to $10,000. The research being done through the endowment at the Center for Cancer Research focuses on investigating cancers where they begin — at the cellular level — to examine both causes and cures.

Tony Trent (A'91), Tyler Trent's father, thinks this effort reflects the unique nature of Boilermakers. "These students are learning at a young age that what they do matters," he says. "They did something so much larger than run a concession stand — they have made a difference in the lives of people they will never know." The endowment in Tyler's name has grown to $2.6 million.

Teamwork, service, and nachos added up to a memorable experience for Crose and all the students involved. "While HTM may not be the biggest major at Purdue, this effort shows that everyone can make an impact in their own way."

—KENDA RESLER FRIEND (LA'90, MS A'91)

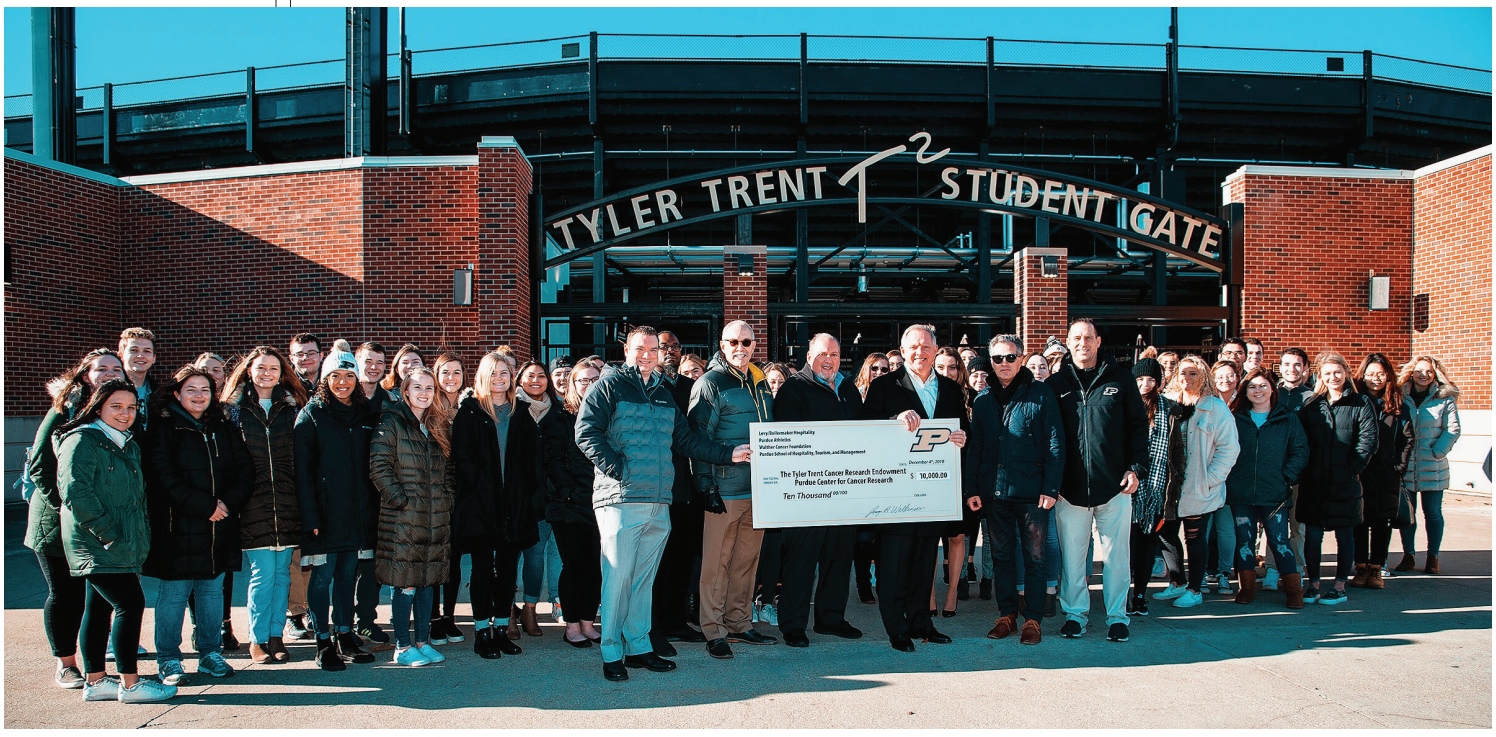


PHOTO COURTESY OF KEITH MOLTER; PURDUE UNIVERSITY/MARK SIMONS

WHATEVER HAPPENED TO

Charles Eckhardt Hofmann (A'39)

Charles Eckhardt Hofmann was born October 25, 1917, in Chicago, Illinois, to Eckhardt and Frances (Brenan) Hofmann. He graduated from Morgan Park High School in Chicago and enrolled in the College of Agriculture at Purdue University in 1935.

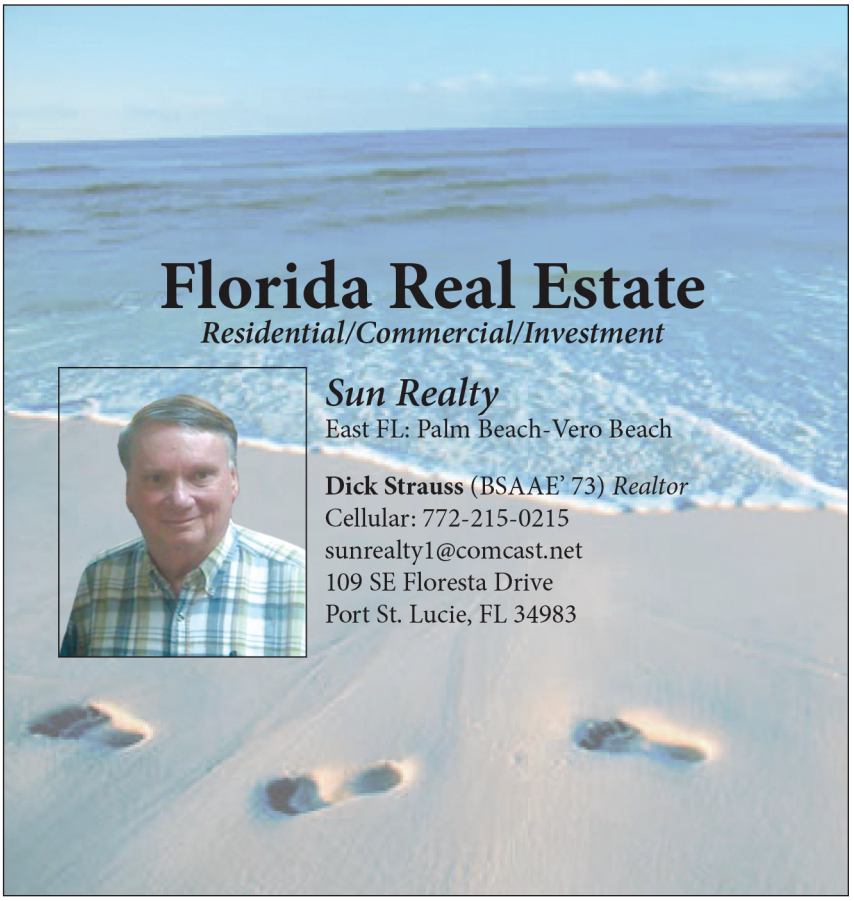
At Purdue, Hofmann majored in horticulture sciences with a concentration in ornamental floriculture. He was a member of Pi Kappa Phi fraternity and the Horticulture Society. He also served on the committee for the Purdue Horticulture Show.

After graduating from Purdue, Hofmann found work with Amling's Flowerland, where he met his future wife, Frieda Bleichroth. The couple married in 1942 and raised two sons. In 1946, they opened a flower shop, Hofmann Florist, in Chicago Heights, Illinois. The business was sold upon their retirement in 1980.

Hofmann greatly enjoyed living in Chicago Heights and was active in the community. He served as the chairman of the Chicago Heights Culturama in the spring of 1958; the two-month program highlighted the cultural and recreational offerings of the town and featured celebrities – including Vincent Price and Lassie – pop concerts, art fairs, and an industrial fair. Hofmann also headed up the local retail merchants association, held office as president of the Chicago Heights rotary club and chamber of commerce, served as a trustee and clerk of the Thorn Creek Basin Sanitary District, and was a trustee and ruling elder at the First Presbyterian Church of Chicago Heights.

Hofmann passed away on June 30, 2018, at the age of 100 in Sun City Center, Florida. He was a life member of the Purdue Alumni Association.

Know an alum with an interesting life story? Tell us at alumnus@purdue.edu.



TRADITIONS

Lunar New Year

Lunar New Year, often a time of lavish feasts and customs, is one of the most important cultural observances in many Asian communities. Falling in January or February, the holiday is typically celebrated during the second new moon after the winter solstice; the dates fluctuate based on the lunar calendar.

A host of Purdue's academic departments, residence halls, and cultural organizations — including the Confucius Institute, School of Languages and Cultures, Vietnamese Student Association, VariAsian dance group, and Purdue University Chinese Students and Scholars Association — have taken part in the Lunar New Year festivities that have been held on campus for more than a decade.

Since its inception in 2015, Purdue's Asian American and Asian Resource and Cultural Center (AAARCC) has organized annual Lunar New Year events. During the lively commemorations, Students, staff, and local residents have enjoyed film viewings, seminars, myriad performances, hands-on activities, and an abundance of food.

The 2020 celebration featured demonstrations of the Chinese lion dance and tae kwon do and included artistic presentations by the Purdue Chinese Performing Arts Troupe, Okinawa YuYuKai, and the Burmese American Community Institute.

—MARY MONICAL

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PURDUE ALUMNI

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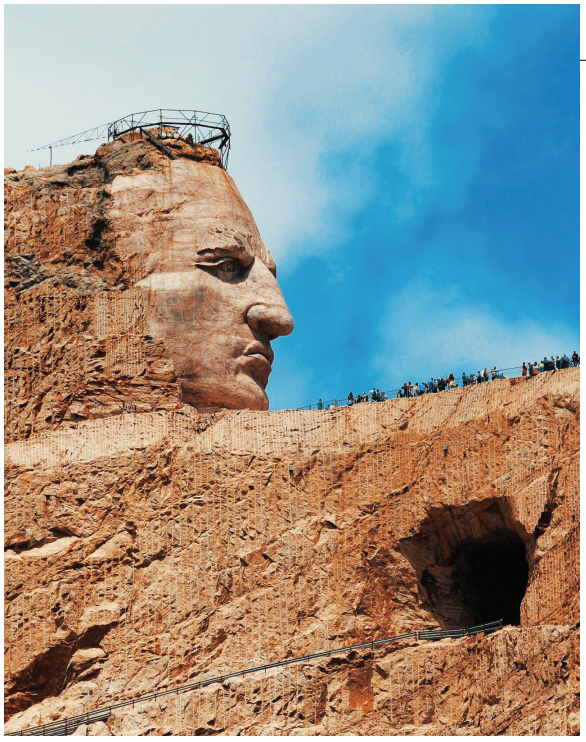
Black Hills, Badlands, and Legends of the West

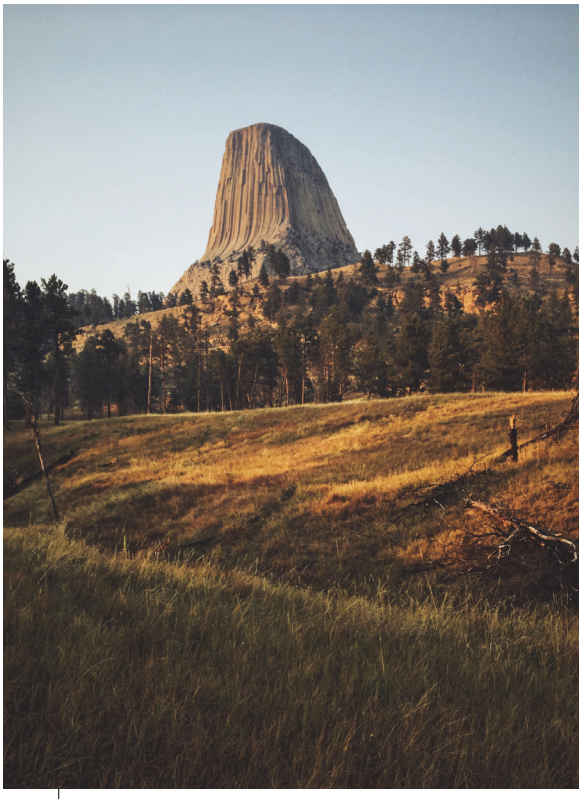
Travel with fellow Boilermakers to the fabled Black Hills of South Dakota, and experience a region steeped in history and Native American culture.



1

CRAZY HORSE MEMORIAL

Still in progress, the Crazy Horse Memorial is a giant mountainside sculpture of the famous Lakota warrior. Crazy Horse, or *Tasunke Witco*, refused to have his likeness taken, as he believed he would lose part of his soul; the monumental depiction is based upon descriptions from his contemporaries.



2

DEVIL'S TOWER & DEADWOOD

Journey west into Wyoming to visit Devil's Tower National Monument, and view the 867-foot monolith. Return to South Dakota to walk the streets of historic Deadwood, once a lawless gold-mining town where Wild West legends Wild Bill Hickok and Calamity Jane roamed.

3

WILD HORSE SANCTUARY

A seemingly endless prairie where hundreds of wild mustangs roam free, the Black Hills Wild Horse Sanctuary is a 300-year step back in time with Native American petroglyphs and an authentic sun dance site.

Visit Mount Rushmore during the day and then later in the evening, when you'll witness the dramatic, patriotic lighting ceremony.

PIXABAY; JEFF FINLEY; SOUTH DAKOTA DEPARTMENT OF TOURISM

4

BADLANDS NATIONAL PARK

Drive through Badlands National Park, located between the White and Cheyenne Rivers. The area contains spectacular examples of weathering and erosion, and you'll marvel at the fantastic ridges, cliffs, and canyons of variegated color.

5

1880 TRAIN

Board the 1880 Train for an old-fashioned rail journey through awe-inspiring scenery, and learn about the fascinating local history as you glide along the rails. The train traverses an authentic narrow-gauge railroad dating back to the Black Hills Gold Rush.

Fort Hays is home to the *Dances with Wolves* movie set; you'll have the opportunity to explore some of the buildings used in the Oscar-winning film.

BOOK YOUR TRIP!

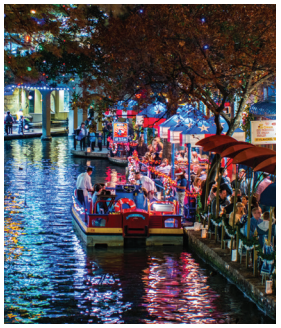
For a list of upcoming tours, visit **purduealumni.org/travel**. Contact our travel department to receive brochures with detailed itineraries, features, and pricing.

800-414-1541
765-494-5175
alumnitravel@purdue.edu

Northern Lights and the Northern Migration

Enjoy a once-in-a-lifetime eco adventure in the great Canadian north, where you'll relish pristine views of the northern lights that will leave you breathless.

SEPTEMBER 20–25, 2020



San Antonio Holiday

Get into the holiday spirit as you explore San Antonio's rich multicultural heritage and history, including the centuries-old tradition of more than 2,000 luminarias that bring a glow to the renowned River Walk.

DECEMBER 3–7, 2020

SCOTT OSBORNE; BLACK HILLS & BADLANDS TOURISM ASSOCIATION; ISTOCK; NAN PALMERO

BABY BOILERS

Grandparents **MARK GOLDSMITH** (M'82) and **LUCINDA BURKE GOLDSMITH** (M'82), life members, Orland Park, IL, were excited to welcome twin Boilermakers to the family. Colin and Evan were born in November 2018.

LINDSEY (WILLIAMS) ARVIN (HHS'11) and her husband, Will, St. Louis, MO, welcomed daughter Annie in September 2018. She joins big brother Charlie. **CHARLES MAYER** (T'71) and Phyllis Mayer are proud grandparents.

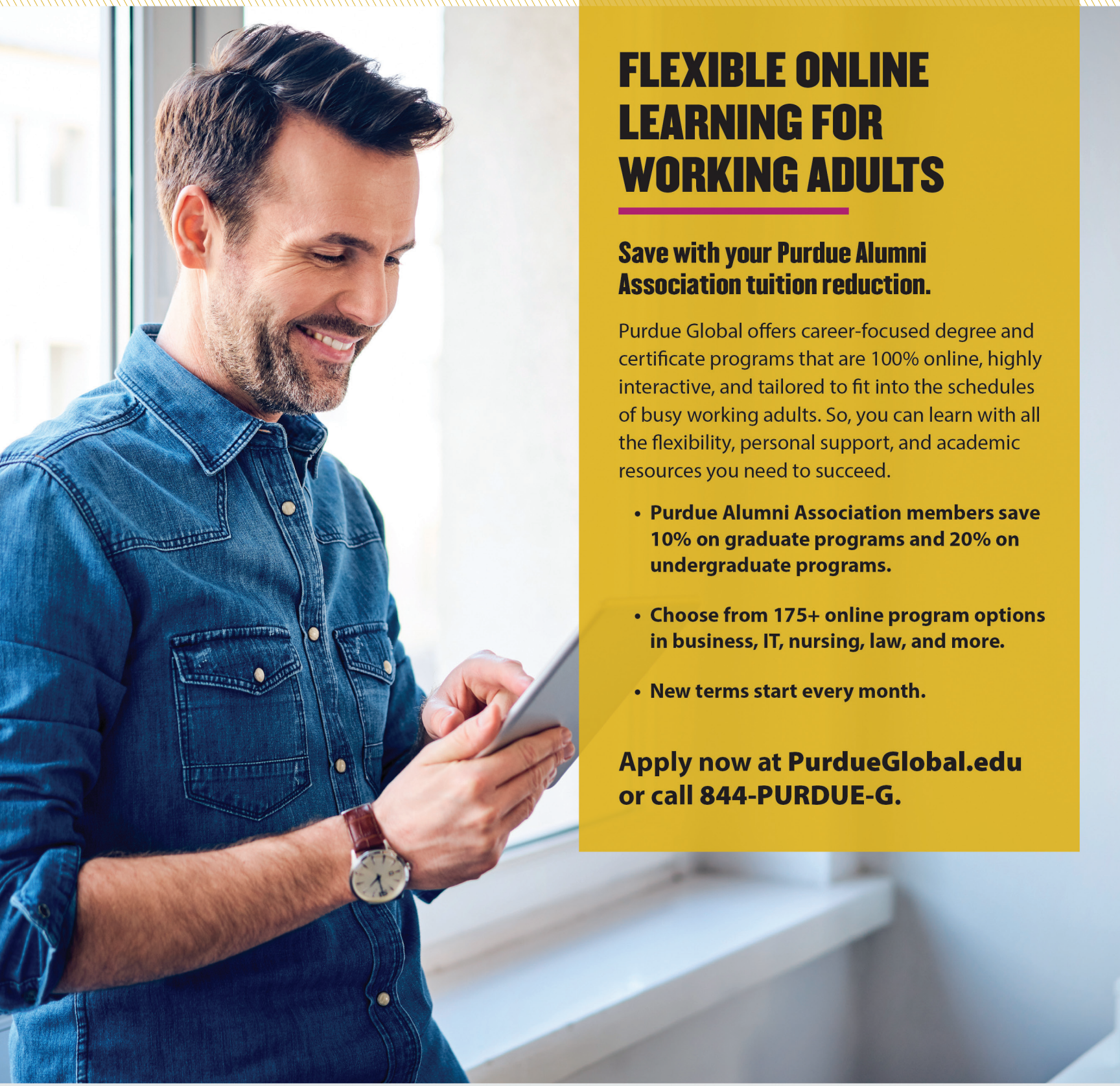
MAKAELA (MAHLER) HOPKINS (A'16) and her husband, Matthew, Plymouth, IN, welcomed daughter Melea in April 2019.

RYAN MUSSELMAN (A'13, MS A'15) and **LYNETTE (GRIFFIN) MUSSELMAN** (MS A'15), life members, West Lafayette, IN, welcomed son Leonidas Scott in December 2018.

TED BIRKY (ChE'10) and **KATY KINDIG-BIRKY** (S'11), life members, Johnson City, TN, welcomed daughter Keriana in March 2018.

JAY ANDREW (T'98), life member, and **MICHELLE (DROULOS) ANDREW** (HHS'01), West Point, IN, welcomed daughter Charlotte Leota in November 2018.

Send us your baby Boiler photos
alumnus@purdue.edu



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"I wanted to create a really great place for women to work."

ALUMNI PROFILE

JULIANNE (SMITH) MCCOLLUM

It all started at the Gap, where Julianne (Smith) McCollum (HHS'97) worked in high school. "I loved trying to understand why people buy certain things," she says. So when she got to Purdue, she studied consumer sciences and retailing. While her classmates wanted to be buyers, McCollum completed a market-research internship for a shopping-center developer.

"My boss was a very sharp woman who got her PhD at Purdue," McCollum says. "When I graduated, she gave me a full-time position in Charlotte, North Carolina. I packed up my little Toyota and headed there in 1997. I didn't know a single soul or where I was going to live."

By 2000, McCollum had worked her way up to VP of marketing and technology at a mixed-use real-estate and property-management firm. In 2002, she decided to get an advanced degree of her own. "I wanted a deeper understanding of all facets of business, including accounting, which was not my favorite subject at Purdue," she says. "Plus, I'd always had the goal of starting my own business, and I thought an MBA was a perfect pathway to that."

McCollum continued down that pathway after her company downsized from around 300 people to fewer than a dozen. "I got a call from another real-estate company asking if I would work for them because they heard I might be on the market," she says. "I told them, 'No, but I'd love to help, and I will take you on as a client.' That same week, my coworker struck out on her own and asked for help with a logo and website — and that was just the start."

McCollum took the timing as a sign that she was finally ready to found her own agency, which she named Yellow Duck Marketing. At first, she was the only employee. Soon, she hired a graphic designer and project manager, over time building her team to 11 people. In addition to branding and web design, the company also provides strategy, market research, and public relations. Their 100-plus client list includes commercial real-estate developers, municipalities, nonprofits, and hotels. "We're really passionate about spaces and places," McCollum says.

She's passionate about shaping her community too. "With Yellow Duck, I wanted to create a really great place for women to work," McCollum says. "That's not always controllable in larger corporate environments."

In addition to running Yellow Duck — which the Charlotte mayor named Woman Business Enterprise of the Year in 2019 — she serves on the boards of multiple nonprofits and is in the process of adopting her second child with her husband, a fellow small-business owner.

In fact, McCollum has a lot in common with her company's namesake. "I went with Yellow Duck Marketing because I wanted to create a memorable name that made people smile," she says. "But also, when ducks swim across a pond, they paddle like crazy underneath the water — yet they look smooth as glass on the surface." —JUNO DEMELO

COURTESY OF JULIANNE MCCOLLUM

"I learned to face challenges head-on and not shy away from situations that might be uncomfortable."

ALUMNI PROFILE

MICHELE BISCEGLIE

Michele Bisceglie (LA'96) arrived at Purdue the Saturday before classes. It was her first time on campus — and in Indiana.

The South Jersey native jokes she got kicked out of her home state because of her love of country music, but the real story is more straightforward.

"My guidance counselor suggested Purdue," Bisceglie explains. "I think the application was free, and we determined I could major or minor in creative writing."

WILLIAM STRUHS PHOTOGRAPHY

While a creative-writing degree ended up being an "unfulfilled dream," Bisceglie did find her way into the offices of the *Purdue Exponent*, eventually becoming editor in chief at the age of 20.

One of Bisceglie's most formative experiences during her time at the newspaper involved the 1994 tornado that hit Lafayette. The F4 storm, which remains the deadliest in county history, killed three and injured at least 70.

"We were covering it, and I just remember being more concerned about these two scared little kids in their pj's watching their father being taken away on a stretcher from their mangled home," Bisceglie recalls. "It's not that I didn't want to do my job — to report on the situation — it's just that I wanted to do more; I wanted to help the people in that situation."

After working in marketing communications and business development positions for the better part of a decade after graduation, Bisceglie started figuring out how to do exactly that.

"It finally dawned on me to stop looking at the for-profit and nonprofit worlds differently," Bisceglie reflects. "Why couldn't I use the business principles and practices I'd honed in the for-profit world to help nonprofits drive more revenue, which leads to more impact?"

In pursuit of that aim, Bisceglie accepted in-house executive positions with Leadership Louisville Center, Boy Scouts of America, and Historic Charleston Foundation. In between — while living in Washington, DC — she launched Butterfly Communications, a boutique consulting firm that provided the flexibility to work in both worlds at the same time.

This entrepreneurial turn required Bisceglie, a natural introvert, to sharpen and strategically employ her leadership and communication skills to deftly build a professional network.

"In DC, the question that follows any introduction is, 'What do you do?'" she says. "Networking is an Olympic-level sport there. I decided I needed to step up and take advantage of the energy and opportunities swirling around me."

Bisceglie credits her time at Purdue, specifically at the *Exponent*, with the confidence to push through times of self-doubt.

"My year as editor in chief was a defining one," she says. "I was so young, a woman in the role after a run of men, and had less experience than some of the people I was managing. The experience cemented a pattern: I learned to face challenges head-on and not shy away from situations that might be uncomfortable at first but that — ultimately — offer incredible opportunities for personal and professional growth."

—JOEL MEREDITH

ALUMNI PROFILE

LEVI EADS

COURTESY OF LEVI EADS

After spending time at the beginning of his career with an ad agency, Levi Eads (LA'09) took his communication expertise to the nonprofit sector — and he discovered it was an ideal fit. He had always enjoyed volunteering with charitable organizations, and this career move combined his desire to help others with his interest in branding and storytelling.

For the past five years, Eads has been the director of programs and development for Step It Up, a nonprofit based in Portland, Oregon, that provides youths with educational and career-development resources. Through meaningful guidance and experiential learning opportunities, such as podcasting, Step It Up is committed to helping students graduate, transition to successful careers, and give back to their communities.

"Our goal is to prepare teens and young adults to successfully bridge the gap between school and career so that they can break out of the cycle of poverty and become productive and fulfilled adults," he says.

In his role, Eads wears a number of hats as he aims to serve young people and expand Step It Up's reach.

"It's really fun to help grow a small organization," Eads says. "There's a pioneering spirit and sense of camaraderie — and you never know what is going to happen next."

While his work may be different from day to day, Eads appreciates the moments of networking as he forms connections with local entities, pursues donations, and creates new programs for young people in the Portland area. He also enjoys the freedom to think creatively, whether he is conceptualizing the nonprofit's next campaign or devising new services to offer.

Working alongside the youths Step It Up is committed to helping and seeing them achieve their dreams is a highlight for Eads. "Spending time with students is one of the most rewarding parts of my job," he says. "I have the unique opportunity to watch these young people develop their abilities as they prepare to take the next steps in their careers.

"In a project where students were working on their own podcasts, I saw them improve their public speaking skills and learn about networking. When you are working with young people, you get to see them grow and change. It's so rewarding."

—ANDREW CLARK

"When you are working with young people, you get to see them grow and change."

HAIL PURDUE

MICHAEL GUYANT (ChE'85), **GRACE LEMEN** (LA'16), and **NEIL STILLMAN** (S'75, MS S'77), life member, met in summer 2018 while working as park rangers for the National Park Service at the Grand Teton National Park visitor center in Wyoming.

Friends who met on campus in the late '80s have gathered for many events in the 30 years since graduation. Pictured are (front row) **FRANK SHUSTER** (ChE'90), member; **NORM BUCHANAN** (IE'89), life member; **J.D. BOYE** (ECE'88), life member; **KENT HILLER** (T'88); (back row) **BILL LANGE** (ME'89), life member; **RICH WESORICK** (ME'88), life member; **CHRIS SCHLEGEL** (HHS'89), life member; and **BRUCE HOWELL** (S'89), member.

NICK CARPITA (S'72), professor of botany and plant pathology, hosted a 50th anniversary reunion in September 2018 for friends who met on campus in the fall of 1968 while residents of Cary Quad, D-wing. Purdue alumni pictured are: **NICK CARPITA** (S'72); **JENNIFER (STOUT) KUTZIK** (LA'72), life member; **JANINE (STOUT) DUMITRU** (-LA'72); **RICK DEMKOVICH** (LA'77); **MARTY (SCHULDT) SCHMIDT** (LA'72); **TED SCHMIDT** (LA'72); **GREG ROLSMA** (M'72), life member; **LARRY RUTZ** (LA'73); and **JOE DESROCHES** (-LA'72).

Purdue graduates working for Bartlett Tree Experts Midwest Division gathered for photo during a 2018 holiday event.

Purdue alumni celebrated with **DAN MCKECHNIE** (ChE'00), life member, after he completed a two-day 200-mile bicycle fundraising ride for cancer research. Pictured with McKechnie are **LORRAINE WILLIAMS HUBERT** (HHS'77), life member; **ADRIENNE HUBERT** (HHS'08, NRS'09); **JOE HUBERT** (ChE'77), life member; **SARAH WILLIAMS MCKECHNIE** (HHS'70), life member; and **CARA HUBERT** (M'13), member. Joe, Cara, and Lorraine all completed a one-day ride of 55 miles for the same event. The riders were part of the WILLiams POWER Pelotonia team that raised more than $26,000.

Send us your Hail Purdue photos
alumnus@purdue.edu

The Ebling family, along with two girlfriends, showed their Boilermaker spirit while vacationing on Sanibel Island in November 2018. Pictured from left: **JESSIE KOCSIS** (M'17); **SAM EBLING** (HHS'14); **STEVE EBLING** (M'81); **DIANNE EBLING** (EDU'80); **LUKE EBLING** (LA'2016); **JOE EBLING** (HHS'14); **JAMIE SCHANZ** (NURS'15).

CAPT. CHAD MCKIE (LA'08), USMC; **LT. NICK MEMERING** (T'09), USN, member; **LT. NIC PARSONS** (AAE'10), USN; **LT. DAN KAMENSKY** (M'10), USN; and **CAPT. WILL HECK** (LA'06), USMC, were all flight instructors in Pensacola, FL, teaching advanced helicopter training to future navy, marine, and coast guard aviators.

Purdue Alumni from the classes of 1975 and 1976 reunited in Sonoma, CA, where they visited Kokomo Winery, owned by **ERIK MILLER** (T'99), life member.

CRAIG (T'85) and **CAROL (WAITE) STEPHENS** (HHS'88), life members, brought their Boilermaker pride to the Perito Moreno Glacier in Los Glaciares National Park in El Calafate, Argentina.

STEVE MYERS (ME'01), life member, and son William, show their Purdue pride at the Railroad Museum of Pennsylvania in Strasburg, PA.

CORBY MCKEAN (M'15) and **CASEY JONES** (LA'16) were married at Lake Wawasee on September 22, 2018, with several Purdue alumni in attendance. The ceremony was performed by **PHIL BOWERS** (MS EDU'86), member.

Friends **KAREN (PAALBERG)** (A'07) and **BRIAN HINE** (M'03) traveled to Mexico with **JIMMY** (LA'09) and **MEGAN COX** (M'09), life members.

CLASS NOTES

1960

JEROME FREEDMAN (ChE'62), Greenbrae, CA, was nominated by the Bladder Cancer Advocacy Network for participation in the Peer Reviewed Cancer Research Program, a Congressionally Directed Medical Research Programs project. As a consumer reviewer, he was a full voting member at meetings to help determine how the $90 million appropriated by the US Congress for the 2019 fiscal year would be spent on cancer research.

FLORA (ROUCH) WILLIAMS (MS HHS'64, PhD HHS'69), Lafayette, IN, has written several books since her retirement from Purdue in 2000. Topics include financial literacy, faith, and poetry. The books are available at florawilliams.com. florawill@aol.com

SUSAN (CROCE) KIRKPATRICK (HHS'69), life member, Gravois Mills, MO, has been the managing editor of *OzarksWatch*, a magazine of Ozarks history and culture published by the Ozarks Studies Institute at Missouri State University, for the past two years. kirkpatrickintl@aol.com

1970

STEVE MAIN (LA'74), member, Dallas, TX, launched a new venture for his firm, Main Ideas. He is creating custom hand-drawn sketches of urban attractions and classic vehicles.

BILL MOREAU (A'74), life member, Indianapolis, IN, retired from Barnes & Thornburg at the end of 2019. He and his wife, Ann, formed the Indiana Citizen Education Foundation, which will focus on improving the civic health of Indiana by promoting voter registration and turnout and connecting the public to an unbiased source of information about officeholders, candidates, and issues. indianacitizen.org

MARK PERNICONI (CE'74, MS CE'76, MS M'84), life member, West Lafayette, IN, was elected to the National Academy of Construction (NAC) as a member of its class of 2019. The retired executive director of the Charles Pankow Foundation, he was cited by the NAC as a proven leader in delivering meaningful results with impact through development and support of research for the design and construction community.

1980

DAVID GARDNER (IE'86), life member, Hilliard, OH, was promoted to director global logistics procurement at Momentive Performance Materials.

STEVE HOMME (IE'86), Milford, IN, was promoted to business support group manager for Brock Grain Systems.

PAUL ARCIERO (MS HHS'87), Saratoga Springs, NY, published *The Protein Pacing Diet*, which is available for purchase on Amazon.com. He was invited to present at the New York Chiropractic College Nutrition Symposium in Mar. 2019 and was featured in a Nov. 2019 issue of *Woman's World* magazine.

CHRIS PURCELL (T'87), Seattle, WA, joined the executive team at PEMCO Mutual Insurance as vice president and chief information officer.

1990

KATHLEEN (KENEHAN) SARPY (LA'92), life member, Wheaton, IL, was recognized by YWCA Metropolitan Chicago as one of six outstanding leaders for her commitment to building a thriving value-driven communications firm based on a foundation of kindness. She is the founder and CEO of Agency H5.

BRAD RUDER (T'93), member, Demarest, NJ, received the SINAI Schools Community Partnership Award in recognition of his commitment to generously providing opportunities and support to those in need in northern New Jersey. He is the president of Brad-Core, a full-service design, construction, and property management company. bruder@brad-core.com.

BRADLEY DALBEC (M'96), Lincolnshire, IL, joined Manhard Consulting as the chief financial officer.

JENNIFER (MAY) GUIDRY (HHS'96), life member, Spring, TX, was named to the Top 50 Most Powerful Women in Oil and Gas list by the National Diversity Council.

JUSTIN SCHNEIDER (A'98), life member, Columbus, IN, joined Indiana American Water as director of consumer affairs. He previously served as director of state government relations for Indiana Farm Bureau.

2000

CASEY WELCH (T'06, MS T'08), Mount Pleasant, SC, is the cofounder and CEO of Tallo, a digital platform and app that connects students and professionals to opportunities offered by colleges and companies around the world. A former Purdue football player, he developed the idea for the platform based on his own experiences with athletic recruiting. cwelch@tallo.com

BRAD KARKULA (HHS'08), Aurora, IL, member, is engaged to Anna Marie Avino (LA'12), Chicago, IL, member.

TRAVIS MARKLEY (MS T'08), Bedford, IN, was appointed CEO of Hoosier Hills Credit Union.

2010

ALEX PANCEK (A'17), Longmont, CO, married Brianna Nemeth (A'17) on Sept. 7 in South Bend, IN.

STEPHANIE PORTREY (HHS'10), life member, Lafayette, IN, is the new director of sales and marketing for the Purdue Union Club Hotel. stephanie.portrey@whitelodging.com

5 QUESTIONS

Michelle (Frazer) Janson (HHS'07)

What sparked your interest in writing?

I grew up in a wonderful family that encouraged helping others, hard work, and creativity. True moments of inspiration came from a mix of my dad's amazing storytelling and reading children's poetry with my mom and sisters every night before bed.

Is this your first book?

It is, and it sure came with a sharp learning curve. However, it's a curve anyone can learn, so I encourage others to give it a try. There are so many beautiful brains out there with ideas waiting to be put on paper.

How did you develop the plot for *The 'Tangles*?

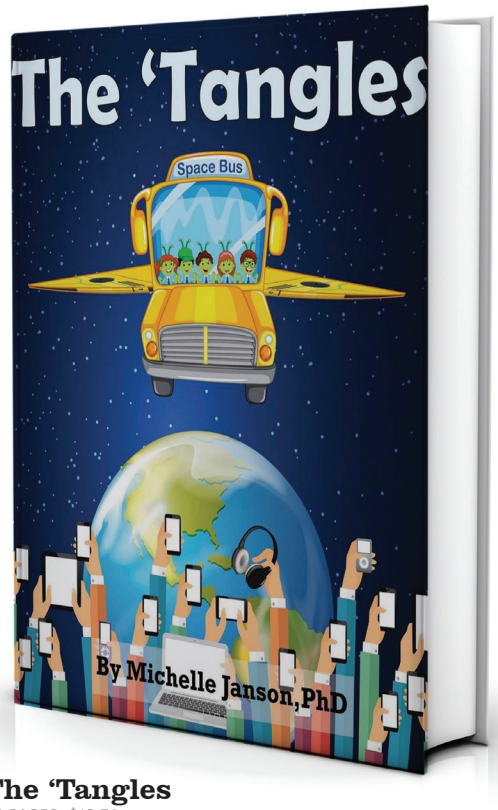
I pursued degrees in education, counseling, and psychology, and I've worked with students and families for over a decade. I've observed the implications of tech usage on social and cognitive development, and I wanted to help children and adults build awareness and mindfulness.

What message do you hope to convey to readers?

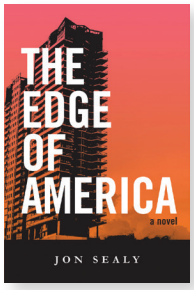
Technology can be a tremendous benefit when used in a balanced fashion. I hope this book can serve as a gentle reminder to be purposeful, present, and enjoy this life we've been given.

Any plans for future books?

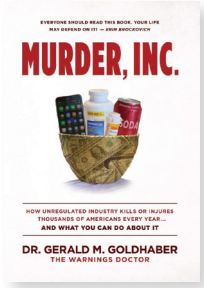
I'd love to write a children's book aimed at helping kids cope with the loss of loved ones. If we can wrap an uplifting story around a child that is hurting, we could help alleviate some of the pain, even if only for a few moments.



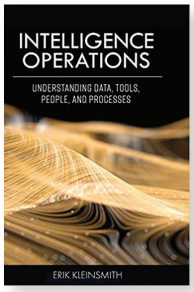
The 'Tangles
46 PAGES; $19.74
LIFT BRIDGE PUBLISHING



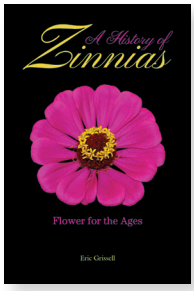
The Edge of America
JON SEALY (MFA'08)
304 PAGES; $17.95
HAYWIRE BOOKS
Sealy uncovers the high-stakes world of South Florida's drug culture in this thriller set in 1984.



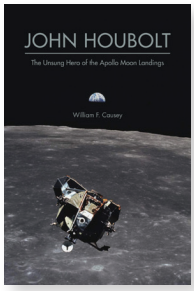
Murder, Inc.
GERALD M. GOLDHABER (PHD LA'70)
366 PAGES; $34.95
PUBLISH YOUR PURPOSE PRESS
Determined to improve public safety, Goldhaber outlines the hazards consumers face and recommends 12 steps to avoid injury and death.



Intelligence Operations: Understanding Data, Tools, People, and Processes
ERIK KLEINSMITH (LA'88)
348 PAGES; $79.99
COGNELLA ACADEMIC PUBLISHING
Kleinsmith helps readers understand the various issues and considerations an intelligence professional must tackle.



A History of Zinnias: Flower for the Ages
ERIC GRISSELL
286 PAGES; $27.99
PURDUE UNIVERSITY PRESS
Filled with colorful illustrations, this book is a cultural and horticultural history documenting the development of garden zinnias.



John Houbolt: The Unsung Hero of the Apollo Moon Landings
WILLIAM F. CAUSEY
374 PAGES; $29.99
PURDUE UNIVERSITY PRESS
This biography of John Houbolt tells the story of how he convinced NASA to adopt the lunar orbit rendezvous plan that made history.

IN MEMORIAM

1940

DAVID L. NASSAU (ME'40), life member, Olympia Fields, IL, Sept. 18.

MARION L. SMITLEY (ME'41), Novi, MI, May 1.

COL. (RET.) JACK PHILLIP ANCKER (ME'42), life member, Las Cruces, NM, Oct. 3.

M. LLOYD DOWNEN (A'43, MS A'47, PhD A'54), life member, Knoxville, TN, Sept. 2.

FRED F. GLANCY JR. (A'43), life member, Muncie, IN, Nov. 1.

M. CATHERINE (VIRTUE) TOPP (HHS'44), life member, Los Osos, CA, Oct. 9.

E. WILLIAM LUEDEKING (CE'46), life member, Everett, WA, Jul. 22.

ROBERT G. CASTER (A'47), life member, Barrington, IL, Oct. 29.

RAYMOND E. CLAWSON (ECE'47), life member, Essex Junction, VT, Aug. 17.

CONSTANCE M. (HARTSHORNE) HICKS (S'47), life member, Cincinnati, OH, Apr. 25.

LOWELL W. AUSTIN (ChE'48), Mount Pleasant, SC, Nov. 20. He is survived by his wife, Patricia.

REV. F. KAYE BASS (A'48), life member, Frankfort, IN, Oct. 23.

JOHN C. KILGORE JR. (ME'48), life member, Berea, OH, Feb. 28, 2019.

GLENN C. MAXWELL (BS'48, ECE'48), member, Springfield, IL, Sept. 19. He is survived by his wife, Virginia.

WILBUR C. NICKEL (A'48), Indianapolis, IN, Sept. 18.

JUANITA R. (STOREY) PUGH (S'48, MS S'61), life member, Noblesville, IN, Jul. 11.

ROBERT N. RICHARDSON (A'48), Avon, IN, Oct. 29. He is survived by his wife, Jane.

DOROTHY (SLEMMONS) ROGERS (HHS'48), Chrisman, IL, May 14.

RICHARD S. RYDER (ME'48), Lincoln, NE, Apr. 19.

EARL S. SCHLOTTERBECK (ME'48), Lewisburg, OH, Oct. 14.

L. JAMES SMITH (MS EDU'48), Louisville, KY, Oct. 12.

ROBERT P. BAUMAN (S'49, MS S'51), life member, Birmingham, AL, Sept. 9. He is survived by his wife, Edith (LA'51), life member.

COL. (RET.) CHARLES C. BOCK JR. (AAE'49), life member, Incline Village, NV, Aug. 22. He is survived by his wife, Joyce.

JAMES W. CANAN (ChE'49), Elyria, OH, Oct. 6.

C. JAMES DORRENBACHER (ECE'49, HDR E'89), life member, Fallbrook, CA, Oct. 7. He is survived by his wife, Judith.

THOMAS F. HANSON (AAE'49), Newhall, CA, Aug. 31.

C. W. HUNSINGER (ECE'49), Endicott, NY, Nov. 10.

HERBERT LOEB (S'49), Highland Park, IL, Feb. 6, 2019.

CARL A. NEUMAYER JR. (CE'49), life member, Masonic Home, KY, Oct. 18. He is survived by his wife, Phyllis.

MARCUS L. OGDEN (ME'49), Indianapolis, IN, Sept. 2.

JOHN P. REAGAN (A'49, MS A'51), member, West Lafayette, IN, Oct. 21.

ALBERT B. SPINDLER (CE'49), Burlington, NJ, Oct. 1.

1950

BETTY (KUHLMAN) BLUE (MS S'50), life member, Avon, OH, Jul. 31.

MARTHA J. (ERNEST) BRIDGES (HHS'50), Arlington Heights, IL, Sept. 30.

NORMA L. (WENZEL) CABOT (S'50), Wayland, MI, Sept. 9.

JAMES K. COLEMAN (A'50), Martinsville, IN, Oct. 20.

CHARLES B. EBERHART (A'50), Shelbyville, IN, Sept. 26. He is survived by his wife, Donna.

WILLIAM J. GALLE (MS S'50), life member, Palos Hills, IL, May 26.

PATRICIA C. (SLAGLE) GASKELL (HHS'50), Tampa, FL, Aug. 17.

DALE A. KINGSEED (HHS'50), Kokomo, IN, Oct. 1. He is survived by his wife, Grace.

JOSEPH F. PARATORE (HHS'50), Leesburg, VA, Sept. 17.

JAMES A. SCHARBROUGH (ME'50), New Bern, NC, Sept. 14.

FRANK J. TARANTO (ChE'50), Flemington, NJ, Aug. 17. He is survived by his wife, Angela.

MARGARET A. (LOWE) WRIGHT (LA'50), Minneapolis, MN, Nov. 6.

LLOYD L. ZICKERT (ME'50), life member, Elmhurst, IL, Oct. 3. He is survived by his wife, Maribeth (HHS'49), life member.

DEAN L. GRAY (ChE'51, MS M'67), life member, Waxahachie, TX, Aug. 12.

GLEN A. HEMSTOCK (PhD A'51), Hillsborough, NJ, Sept. 30.

ROBERT D. HENDERSON JR. (S'51), Wanaque, NJ, Oct. 6.

JERRY L. KEMP (HHS'51), Loogootee, IN, Nov. 19.

JOHN D. LAHR (A'51), Indianapolis, IN, Oct. 18.

ALLAN G. MILLIKAN (MS S'51), Victor, NY, Aug. 29.

CLIFFORD ORMAN (MS S'51), Westbrook, ME, Nov. 11.

ALLAN M. SCHONBERG (LA'51), Prescott, AZ, Apr. 16.

PAUL DAVID SCHUYLER (T'51, MS EDU'57, MS EDU'81), life member, Lowell, IN, Sept. 20. He is survived by his wife, Mannee.

HERBERT O. SCHWARTZ (ME'51), Orange City, FL, Sept. 30.

JACK W. STONE (ME'51), Seattle, WA, Oct. 16.

GORDON W. THOMSON (ChE'51), Gales Ferry, CT, Nov. 15. He is survived by his wife, Patricia.

ERNEST G. BARR (MS'52), North Manchester, IN, Nov. 24.

F. LEE BUSHONG (MS EDU'52), Decatur, IN, Sept. 8.

VERNON W. BYER (P'52), Markle, IN, Nov. 6.

PHYLLIS A. (LADY) CHAMBERS (P'52), Indianapolis, IN, Sept. 15.

ALVIN E. ERBESTI (S'52), member, Crown Point, IN, Sept. 19.

SARA L. (MEID) HATLEM (HHS'52), Fort Wayne, IN, Oct. 25. She is survived by her husband, William (ME'52).

ROGER T. KNAPP (T'52), Stockton, CA, Jan. 31, 2019.

HENRY R. KRYSIAK (MS S'52, PhD S'54), Wilmington, DE, Sept. 30.

WILLIAM K. LUCKOW (ChE'52), Irvine, CA, Nov. 3.

WILLIAM E. LYNCH (LA'52), Guyton, GA, Jan. 26, 2019.

HAROLD GENE MARSHALL (A'52), Bellefonte, PA, Apr. 27. He is survived by his wife, Barbara.

MARVIN ALLEN PERRY JR. (CE'52), Florence, KY, Jul. 5.

MILTON B. PUNNETT (ME'52), member, Orchard Park, NY, Sept. 5.

JOHN D. REED M.D. (S'52), life member, Fort Wayne, IN, Nov. 14.

HERMAN C. SNYDER (ABE'52), Rock Island, IL, Nov. 15.

MARTHA J. (STEPHENSON) TURNER (HHS'52), life member, Noblesville, IN, Nov. 11.

NEIL T. BEAN (AAE'53), life member, Wildwood, MO, Oct. 27. He is survived by his wife, Patricia.

J. STEELE CLARK (S'53), Monterey, CA, Aug. 17.

GLORIA M. (CHIABAI) COSTELLO (HHS'53), Plainfield, IN, Sept. 5. She is survived by her husband, John (A'52).

DONALD R. DUNNER (ChE'53), member, Chevy Chase, MD, Oct. 16. He is survived by his wife, Jenny, member.

MARGARET ELLEN (LEFLER) ELLER (S'53), life member, Aurora, CO, Oct. 28. She is survived by her husband, Jimmie (A'53, MS HHS'57), life member.

GERALD A. GRAY (T'53), member, Huntington Beach, CA, Oct. 20.

JOHN E. HAND (S'53), life member, Warsaw, IN, Oct. 2. He is survived by his wife, Shirley, life member.

STEPHEN HASCHIN (ECE'53), life member, Toms River, NJ, Nov. 11.

ELEANOR (SCHNAIBLE) HOOKER (HHS'53, MS LA'73), life member, Lafayette, IN, Oct. 31.

DONNER D. KEPLER (HHS'53), Libertyville, IL, Sept. 5. He is survived by his wife, Millie.

DOUGLAS C. KRANZ (A'53, MS A'57), life member, Woodstock, GA, Jun. 9.

WALTER C. OAKES (ECE'53), life member, Matthews, NC, Jun. 12.

BETTY L. (RITTER) SIEFERT (LA'53), Minneapolis, MN, Sept. 20.

CHARLES C. L. SMITH (ECE'53), French Lick, IN, Nov. 15.

CAROLINE (LAYTON) THOMPSON (LA'53), Las Cruces, NM, Oct. 4.

JOHN R. WATERFIELD JR. (ME'53), life member, Batavia, IL, Nov. 8.

ELWYN C. WEISS (A'53), West Lafayette, IN, Sept. 22. He is survived by his wife, Mary.

JUDITH (HARDIS) BARDWICK (LA'54), La Jolla, CA, Sept. 2019.

MALCOLM I. BEVINS (MS A'54), Brevard, NC, Sept. 3.

RONALD P. DEWALT (ECE'54), Erie, PA, Oct. 19.

RICHARD E. DOWDS (MS S'54, PhD S'59), life member, Chicago, IL, Jul. 8.

DONALD J. GIBSON (ME'54), Victoria, MN, Sept. 28. He is survived by his wife, Nancy.

JAMES R. GOLAN (ME'54, MS ME'55), Cincinnati, OH, Mar. 13, 2019. He is survived by his wife, Janet.

LESTER L. KNIGHT JR. (MS ME'54), Newport News, VA, Sept. 3.

SENYU UEUNTEN (ECE'54), life member, Honolulu, HI, Nov. 25, 2018. He is survived by his wife, Frances.

DONALD M. BECK (A'55), Crossville, TN, Sept. 14. He is survived by his wife, Carolyn.

THEODORE E. DAWES (S'55), South Bend, IN, Jun. 5. He is survived by his wife, Sharyl (HHS'74).

G. JAMES DUNLAP (ME'55), Vero Beach, FL, Oct. 2.

THOMAS L. ECKRICH (ME'55, MS ME'57), Bay Shore, NY, Feb. 2, 2019.

WILLIAM A. ELSEA (ECE'55), Fort Wayne, IN, Oct. 11. He is survived by his wife, Janet.

COL. DONALD LEE EVANS (ChE'55), Boerne, TX, May 17.

R. DALE FRUSH (A'55), Warsaw, IN, Nov. 4.

ROBIN R. GRINNELL (ABE'55, PhD ABE'76), St. Peter, MN, Nov. 1.

EDWARD TALBOT HICKEY (ECE'55), Schererville, IN, May 21.

DONNABELLE (RAUB) KRUSZEWSKI (LA'55), Lafayette, IN, Sept. 3.

JOHN L. LARSON (ECE'55), life member, West Lafayette, IN, Nov. 7.

DONALD P. PERSING (A'55), life member, Indialantic, FL, Aug. 30.

ROBERT W. ROMIG (MS A'55, PhD A'57), San Antonio, TX, Nov. 4.

REDMOND T. SAGE (MS S'55), Coloma, MI, Oct. 8.

LOUISE (MALSBARY) WATKINS (HHS'55), Solana Beach, CA, Oct. 3.

BEVERLY (DILLINGHAM) WINTERS (HHS'55), life member, Roswell, GA, May 31.

CHARLES J. FRANK (ECE'56), Waxhaw, NC, Jul. 14.

LARRY C. GEYER (ME'56), life member, Edmonds, WA, Aug. 27. He is survived by his wife, Ila, life member.

JAMES W. GOSS (A'56), Waxahachie, TX, Jun. 23. He is survived by his wife, Arlene.

GORDON M. GRAHAM (S'56), life member, Indianapolis, IN, Nov. 17.

ROBERT L. HENN (AAE'56), life member, Huntington, IN, Oct. 17. He is survived by his wife, Emmaline, life member.

JOHN R. HOOK (MS ECE'56), Queens Village, NY, Oct. 11.

FREDRICK W. KERBY (ME'56, MS M'67), Kokomo, IN, Oct. 2. He is survived by his wife, Ruth.

DANIEL P. MAXFIELD (MS CE'56), Laurel, MD, Aug. 18.

RALPH J. NELSON II (A'56), Crystal Lake, IL, Sept. 30.

MAX D. POLING (ME'56), life member, Carlsbad, CA, May 21. He is survived by his wife, Esther.

JOHN N. SPINNING (P'56), Jacksonville, FL, Oct. 8.

WILLIAM D. STEPANEK (ChE'56), life member, Charleston, SC, 2019.

THOMAS R. TITUS (AAE'56), West Chicago, IL, Sept. 20. He is survived by his wife, Muriel (A'56).

JOSEPH C. BECK (MS ME'57), Little Rock, AR, Aug. 25.

WILLIAM R. BOLLES II (AAE'57), Milwaukee, WI, Oct. 14.

WAYNE H. CARMONY (A'57), life member, Manilla, IN, Sept. 3.

MICHAEL W. COATE (ME'57), Dover, NH, Sept. 6.

JAMES A. COLLIER (MS IE'57), Rogers, AR, Oct. 7. He is survived by his wife, Anne.

GEORGE E. COOK (ME'57), life member, Seabeck, WA, Jun. 1.

ROBERT C. FEAR (ECE'57), Lima, OH, Aug. 30.

WILLIAM L. FULTZ (HHS'57, MS HHS'66), Alpharetta, GA, Aug. 25.

ROBERT L. GAMBLE (A'57), Sarasota, FL, Sept. 13. He is survived by his wife, Shirley.

DAVID A. LEWIS (MS S'57), Peoria, IL, Oct. 7.

NICK C. MARCO (ME'57), North Hills, CA, Jul. 23.

LAWRENCE W. NEAL (A'57), Williamsburg, VA, Sept. 11.

IN MEMORIAM

HARLEY M. SARGENT JR. (CE'57), South Bend, IN, Sept. 3. He is survived by his wife, Elizabeth (HHS'59).
THOMAS E. SPEAR JR. (HHS'57, MS HHS'65), West Lafayette, IN, Oct. 8.
RICHARD W. VALENTINE (PhD S'57), Rochester Hills, MI, Apr. 30. He is survived by his wife, Dolores.
GENE L. BIEBER (A'58), West Lafayette, OH, Nov. 11.
STEVEN C. BRANDT (ME'58), Seattle, WA, May 26.
PETER J. CISLAK (ChE'58, MS S'58), Indianapolis, IN, Sept. 28.
JOHN W. GILLIS (PhD EDU'58), Healdsburg, CA, May 28.
SHIRLEY I. (TALBERT) GROS (HHS'58), Fenton, MO, Oct. 28.
MARY ALYCE (DWYER) MCCORMICK (HHS'58), Vincennes, IN, Oct. 15.
L. ANNETTE (CARTER) MORFORD (LA'58), member, Carmel, IN, Nov. 9.
CAROL (FLEMING) RICHARDS (HHS'58), Rocky Mount, NC, Nov. 6.
GILBERT W. ROWE JR. (A'58), life member, Yuma, AZ, Sept. 3.
JOHN H. WOLFORD (A'58), Blacksburg, VA, Sept. 22.
LINDA L. (ABRAM) BLOOM (P'59), life member, Plymouth, IN, Sept. 25.
JOHN F. EISSES (CE'59, MS CE'63), Poulsbo, WA, May 12.
WILLIAM K. HOLSTEIN (MS M'59, PhD M'64), Williamsburg, VA, Oct. 22.
THOMAS W. HOLTZ (ME'59), Lakeland, FL, 2019.
RICHARD W. LINDENBERG (ME'59), life member, DeLand, FL, Aug. 29.
DAN A. MCGREW (HHS'59), Wheeling, WV, Nov. 7.
SUSAN P. (SMITH) SWITZER (S'59), Indianapolis, IN, Jun. 19. She is survived by her husband, Richard.
RONALD E. TROTTER (LA'59), Columbus, IN, Oct. 7. He is survived by his wife, Rosemary (HHS'56).
RONALD L. ULREY (A'59), Rensselaer, IN, Jul. 2. He is survived by his wife, Marilyn.
RICHARD J. WAGNER (ECE'59), Largo, FL, Sept. 23.
M. RODERICK WILLIAMSON (ME'59), Elizabethtown, IN, Nov. 1.
WILLIAM H. WOEBKENBERG JR. (AAE'59), Lansdale, PA, Sept. 5.

1960

M. CHAPPELLE ARNETT (MS HHS'60), Covington, LA, Jun. 1.
ROBERT L. BENTLEY JR. (S'60), Franklin, IN, Sept. 21.
FRANCIS WILLIAM CHITTICK (A'60), Paris, IL, Oct. 7.
ROBERT W. EBERHART (CE'60), life member, Birmingham, AL, Jun. 14.
PAUL R. JONES (A'60), Evansville, IN, Nov. 24.
HOWARD F. MARAVILLA (ECE'60), life member, Crown Point, IN, Sept. 12.
RENNY S. NORMAN (MS AAE'60), Western Springs, IL, Jun. 23. He is survived by his wife, Catherine (HHS'60, MS HHS'62).
RAYMOND O. OYLER (T'60), life member, New Albany, IN, Nov. 15. He is survived by his wife, Joyce, life member.
JAMES T. PARKER (P'60), Newburgh, IN, Sept. 9.
RICHARD J. SALIWANCHIK (S'60), Lady Lake, FL, Oct. 13.
DANIEL F. STUBBS (AAE'60), San Luis Obispo, CA, 2019.
DONALD J. TOLODAY (A'60), Plant City, FL, Apr. 21.
JUDITH A. (WALKER) BROADWELL (S'61), life member, Plano, TX, Oct. 24. She is survived by her husband, Ronald (AAE'60, MS M'64), life member.
HAROLD D. BROWN JR. (MS ChE'61), DeSoto, TX, Sept. 6.
JOHN A. M. BROWN (PhD A'61), Truro, United Kingdom, Oct. 19, 2018.
FRANKLIN R. BRUBAKER (S'61), Akron, OH, Oct. 1.
HARRY L. CHIPMAN JR. (HHS'61, MS HHS'64), Fredericksburg, VA, Oct. 10.
JERRY L. DAKE (CE'61, MS M'62, PhD M'68), life member, Denton, TX, Aug. 28.
EDWARD N. DOTY (ECE'61), life member, Lake Mary, FL, May 20.
L. MAX DULA (ME'61), Memphis, TN, Aug. 26. He is survived by his wife, Gwendolyn.
BERL J. GRANT (IE'61, MS M'71), life member, Seymour, IN, Oct. 3.
CARLA B. (HENKE) GROSS (EDU'61), Hope, IN, Oct. 28.
THEODORE A. JACOB JR. (S'61), life member, Washington, MI, Oct. 19. He is survived by his wife, Carol.
KENNETH R. MOSER (ECE'61), Sturgis, MI, Oct. 5. He is survived by his wife, Kathryn.
DANIEL D. PUGH (P'61), Bloomington, IN, Aug. 10.
WILLIAM G. ROTH (MS M'61), Naples, FL, Oct. 14. He is survived by his wife, Patricia.
STOTTLER K. STARR (AAE'61), Dana Point, CA, May 1.
JON A. STUDLER (CE'61), Fort Wayne, IN, Sept. 5. He is survived by his wife, Helen (LA'66, CERT'91).
GARY E. ARGO (S'62), Loudon, TN, Oct. 27.
ROBERT R. BASS JR. (ME'62), life member, Indianapolis, IN, Nov. 5.
EDWARD G. BENNETT (A'62), Elkhart, IN, Sept. 15.
ROBERT L. BREIDENBAUGH (CE'62), Escondido, CA, Oct. 9.
JOHN D. BROGLIO (ECE'62), North Conway, NH, Aug. 17.
JOSEPH A. HAMRICK SR. (MS S'62), Green Valley, AZ, Mar. 9, 2019.
JOHN O. HOLWAGER III (A'62), Washington, UT, Oct. 16.
RICHARD MATTHIES (MS HHS'62), Lisle, IL, Aug. 27.
JAYDEE W. MILLER (MS ChE'62), Media, PA, Oct. 31.
MALCOLM T. MYERS (ChE'62), Missouri City, TX, Aug. 24.
WARREN A. NORMAN JR. (ECE'62), Silverdale, WA, Aug. 25. He is survived by his wife, Helene (MS EDU'63).
MARY C. REDINBO (HHS'62), Davis, CA, Oct. 11. She is survived by her husband, Robert (ECE'62, MS ECE'66, PhD ECE'70).
WILLIAM C. ROEMER (MS P'62), Hudson, FL, Sept. 18.
RICHARD M. ROSS (AAS'62), Rockledge, FL, Jun. 7.
STANLEY M. SHAW (PhD HHS'62), member, Battle Ground, IN, Oct. 26. He is survived by his wife, Excellda.
ROBERT A. SHLESER (A'62, MS S'63, PhD S'67), Waimanalo, HI, May 14.
EVERETT L. VERNON (MS HHS'62), Chapel Hill, NC, May 14.
NATHAN L. BOND (HHS'63), Haymarket, VA, Aug. 7.
JOHN P. DANAHER JR. (HHS'63), member, Elkhart, IN, Oct. 9. He is survived by his wife, Judith, member.
BARBARA L. DRINKWATER (PhD'63), Gold Canyon, AZ, Sept. 30.
MICHAEL P. FARRELL (P'63), life member, Kalamazoo, MI, Nov. 23. He is survived by his wife, Joyce.
ROGER C. HILL (PhD LA'63), Asheville, NC, Oct. 13.
CHARLES A. JOLLIFF (ME'63), Palm Coast, FL, Sept. 2.
KENNETH F. MISA (MS HHS'63), Dawsonville, GA, Oct. 2.
JACK W. OLIVER (A'63, DVM'67), West Point, IN, Sept. 6.
ANDREW J. PARKER JR. (T'63), Manlius, NY, Oct. 18.
ROY J. ROBERTS (MS HHS'63), Gwynedd, PA, Sept. 15.
JAMES G. SISCO (CE'63), St. Augustine, FL, 2019.
WILLIAM J. STONE (PhD A'63), Hunt, TX, Oct. 3. He is survived by his wife, Patricia.
DONALD L. WARD (A'63), Sycamore, OH, Oct. 28.
WILLIAM C. WEAST (ECE'63), Plymouth, MN, Oct. 24.
DUKE F. WILDEY (M'63), Weirton, WV, Jul. 29.
BRUCE S. ALBRIGHT (ME'64), Beavercreek, OH, Oct. 11.
THOMAS R. ALDRIN (HHS'64), Goodyear, AZ, Oct. 10.
CARL A. BURTIS JR. (MS A'64, PhD A'67, HDR S'04), life member, Oak Ridge, TN, Nov. 15.
JOEL W. CHAPMAN (CE'64, MS M'70), Newaygo, MI, Sept. 12. He is survived by his wife, Mary (HHS'66).
JOSEPH J. COX JR. (MS AAE'64), Orlando, FL, Sept. 4.
WILLIAM J. HEGSTROM (MS LA'64), Delray Beach, FL, Aug. 9. He is survived by his wife, Grace.
DONALD W. JORDAN (M'64), Castle Rock, CO, Aug. 9. He is survived by his wife, Anne (LA'64).
ROBERT J. MYSHKA (ECE'64), Fayetteville, AR, Jul. 21.
RICHARD D. RICHEY (MS LA'64), Stillwater, MN, Nov. 1.
THOMAS S. SANBORN (M'64), St. Simons Island, GA, Nov. 4.

CHARLES C. STRINGFELLOW (MS M'64), member, Santa Fe, NM, Nov. 15. He is survived by his wife, Jane, member.

ROBERT R. BUTLER (HHS'65), Lafayette, IN, Nov. 22.

SUSAN M. (TOWNSEND) DOWNEY (LA'65), Fort Wayne, IN, Oct. 17. She is survived by her husband, Charles (CE'66).

EDWARD A. HUNNICUTT (A'65), DeLand, FL, Sept. 26.

DAVID P. LARSON (CE'65), Hudson, OH, Nov. 3. He is survived by his wife, Susan.

NORMAN A. MINER (MS S'65, PhD S'67), Gainesville, TX, Oct. 24.

GERALD NIIMI (ECE'65), Santa Rosa, CA, Oct. 15.

RAYMOND D. OLESHAK (IE'65), Perry, GA, Sept. 22.

LARRY R. SCHULTHISE (ECE'65), member, Fleming Island, FL, Jul. 13.

ROBERT J. SPRAFKA (S'59, PhD S'65), Columbus, OH, Aug. 28.

THOMAS M. STEMNOCK (MS CE'65), Los Angeles, CA, Oct. 2.

RICHARD F. STOKES (ME'65, MS ME'66), member, Parkville, MD, Sept. 3.

ROBERT E. THARP (T'65, MS T'68), life member, Cartersburg, IN, May 21.

CAROLE L. (RAWLINS) THOMAS (LA'65, MA'67), life member, Elkhart, IN, Sept. 21. She is survived by her husband, Norman (A'64, MS A'66, PhD A'68), life member.

DONALD L. WATT (ABE'65), life member, Rockford, IL, Jul. 13.

CRAIG A. BEAM (ABE'66), Houston, TX, Aug. 19. He is survived by his wife, Janet (EDU'67).

ROBERT F. BENNETT (ECE'66), Port Lavaca, TX, Jun. 12.

LARRY D. GOSS (MS HHS'66), Hudson, OH, Sept. 30.

JOHN P. HELM (MS S'66, PhD S'70), life member, St. Charles, MO, Sept. 30.

HENRY M. KLEIN JR. (ME'66), life member, Willow Springs, IL, Sept. 18.

LADY ANN (HALPIN) LOUDENBACK (LA'66), Bloomington, IN, Oct. 29.

SCOTT C. MACOMBER (IE'66), Rock Island, IL, Oct. 11.

EDMUND A. QUINCY (PhD ECE'66), Boulder, CO, Jul. 12.

MAX D. STEELE (A'66), Medaryville, IN, Oct. 30.

CAROL L. (STRALEY) TRIMMER (LA'66), Muncie, IN, Nov. 20. She is survived by her husband, Joseph (MA'66, PhD LA'68).

SUZANNE F. (NETHERTON) CRAVENS (HHS'67), Cottonwood, MN, May 11. She is survived by her husband, Larry (MS ABE'69).

VICTOR S. DOLAT (MS S'67, PhD S'71), Chelmsford, MA, Nov. 4.

JOHN H. FLICKINGER (S'67), Houston, TX, Oct. 21.

ABBREVIATION KEY

A	Agriculture
AAE	Aeronautical/Astronautical Engineering
AAS	Associate of Applied Science
ABE	Agricultural and Biological Engineering
AS	Associate of Science
BA	Bachelor of Arts
BME	Biomedical Engineering
BS	Bachelor of Science
CE	Civil Engineering
CERT	Certificate
ChE	Chemical Engineering
CEM	Construction Engineering & Mgmt.
DP	Doctor of Pharmacy
DVM	Doctor of Veterinary Medicine
E	Engineering
ECE	Electrical and Computer Engineering
EDU	Education
EnE	Engineering Education
EPE	Engineering Professional Education
EEE	Environmental and Ecological Engineering
FR	Friend of Purdue Alumni
HDR	Honorary Doctorate
HHS	Health and Human Sciences
IE	Industrial Engineering
LA	Liberal Arts
M	Management
MA	Master of Arts
MBA	Master of Business Administration
MFA	Master of Fine Arts
MS	Master of Science
ME	Mechanical Engineering
MSE	Materials Engineering
NE	Nuclear Engineering
NRS	Nursing
P	Pharmacy
PhD	Doctorate
PG	Purdue Univ. Global
S	Science
T	Purdue Polytechnic
V	Veterinary Medicine
-	Indicates attendance at Purdue

IN MEMORIAM

W. MICHAEL MULL (HHS'67), Indianapolis, IN, Oct. 1.
DAVID R. PETERSON (MS ECE'67, PhD ECE'76), Fort Wayne, IN, Nov. 1.
DANIEL N. PRALL (S'67), Middletown, DE, Aug. 23.
JAMES A. STUCKER (AAS T'67), Tomball, TX, Nov. 2.
JON H. BUCHANAN (ECE'68), life member, Collinsville, IL, Sept. 6. He is survived by his wife, Susan (HHS'70), life member.
SAMUEL R. CARTER (M'68), West Allis, WI, Aug. 20.
MICHAEL G. FLEMING (ECE'68), Columbia, MD, May 28.
BARBARA A. (DUPY) HUMNICKY (EDU'68, MS EDU'85), life member, South Bend, IN, Sept. 1. She is survived by her husband, Gregory (LA'68), life member.
WALTER E. JOLLEY (A'68, DVM'71), Jupiter, FL, Nov. 10.
GREGORY G. KASTER (M'68), Shelbyville, IN, Nov. 6.
YVONNE E. (SCHLAUTMAN) MCGARRY (MS S'68), Omaha, NE, Nov. 23.
RONALD G. NOYER (BS'68, MS'71), Fort Wayne, IN, Oct. 7.
CLIFFORD E. PROVENCAL JR. (ECE'68), Westerville, OH, Oct. 2.
ROBERT K. SELKE (MS AAE'68), Wheaton, IL, Sept. 27.
RODERIC W. THOMAS (MS CE'68), life member, Idaho Falls, ID, Feb. 8, 2019. He is survived by his wife, Rita.
JAMES A. TOMLINSON (T'68), life member, Kent, OH, Feb. 4, 2019. He is survived by his wife, Norma (AAS NRS'68), life member.
CHARLES W. WHITEHEAD (CE'68, MS CE'69), Temple, PA, Oct. 13.
JUDITH L. (ELLIOTT) BOTKIN (HHS'69), life member, Conroe, TX, Jun. 12.
M. JANICE (STIER) CHASE (MA'69), Kokomo, IN, Sept. 28. She is survived by her husband, Stephen.
WILLIAM L. CLIFT (LA'69), Carmel, IN, May 9.
DENNIS W. EDMONDS (A'69, MS LA'75), Goodland, IN, Sept. 11. He is survived by his wife, Pamela (EDU'70).
JOHN R. GALEENER (BS'69), Tallahassee, FL, Nov. 2.
JOHN D. GUTT (MS S'69), life member, El Segundo, CA, Sept. 10. He is survived by his wife, Sandra, life member.
ROBERT W. JANDA JR. (S'69), North Stonington, CT, Oct. 16.
LILIAN C. (KAO) LIU (PhD'69), Taipei, Taiwan, Jul. 4. She is survived by her husband, Kwang-Ting (PhD S'68).
MICHAEL G. MCINTIRE (S'69), life member, Lafayette, IN, Nov. 20. He is survived by his wife, Sally (MS HHS'77), life member.
STEPHEN E. MEYERHOLTZ (A'69), life member, Evansville, IN, Oct. 3.
CAPT. ROBERT JAMES MILLER (BS'69), Las Cruces, NM, Aug. 17.
RANDALL A. PORTER (BS'69), Bartlesville, OK, Oct. 5.
MARGARET (NEDANOVICH) SMAR (MS'69), Hebron, IN, Oct. 23.
ROGER L. TINDLE (P'69), Evansville, IN, 2019.
CHERYL L. WILD (S'69, MS EDU'70, PhD EDU'73), life member, Wall Township, NJ, Sept. 12.

1970

ROBERT W. ACTON (PhD A'70), Preston, MN, Jul. 7.
DUANE A. BOKHART (T'70), life member, Dallas, TX, Nov. 4, 2018.
ELLEN I. (KNIGHT) BREWER (MS EDU'70), Chalmers, IN, Oct. 25.
MARGARET (MOSNY) CHRISTENSON (MS'70), life member, Griffith, IN, Sept. 15.
STEPHEN J. DONOHUE (MS A'70, PhD A'74), Blacksburg, VA, Aug. 18.
JACK E. HALSEY (ME'70), Brownsburg, IN, Oct. 1.
RONALD K. HERRING (DVM'70), Clearfield, PA, Sept. 10.
EARL LESLIE HURST (LA'70, MA'72), Avon, IN, Oct. 12. He is survived by his wife, Cynthia (LA'71, MA'73).
JANIS (HEDSTROM) KIFF (LA'70), life member, La Porte, IN, Sept. 12. She is survived by her husband, Douglas (M'69, MS EDU'77), life member.
DEBRA A. LONGENBAUGH (HHS'70), Oxnard, CA, Nov. 10.
HAROLD E. MCCLOUD JR. (ECE'70, MS M'71), life member, Lafayette, IN, Nov. 16. He is survived by his wife, Carolyn (EDU'70), life member.
WILLIAM A PAYNE (AAS'70), Rio Rico, AZ, Sept. 16.
LARRY L. ROTH (AAE'70), Menlo Park, CA, May 20. He is survived by his wife, Ruth (AAE'71).
GEORGE E. SMITH (A'70), West Harrison, IN, Nov. 19.
GEORGIA (KALDOR) BRAKKE (AAS'71), Carmel, IN, Nov. 1.
ROBERT L. HESS (CE'71), Greenfield, IN, Nov. 16.
MICHAEL D. HOOVER (LA'71), life member, Indianapolis, IN, Jun. 24.
RICHARD A. LIEBOFF (MS HHS'71, PhD HHS'75), life member, San Diego, CA, Oct. 5. He is survived by his life partner, David.
L. THOMAS MOIR (BS'71), Indianapolis, IN, Aug. 29.
LEE R. PIPER (S'71), Boston, MA, Sept. 25.
MARTHA (GARRIOTT) RAYLE (LA'71), member, Los Angeles, CA, Sept. 22.
SAMUEL J. RIEGLE (AAS'71), New Madison, OH, Feb. 7, 2019.
WILLIAM DALE SCHAFFER (LA'71), Lake Placid, NY, Sept. 30.
MARGARET A. (SAMUELSON) WALKER (MS'71), Homewood, IL, Sept. 8.
WALTER A. BURRICHTER (A'72), Homestead, FL, May 19.
ALFRED EDWARD DAY (MS M'72, PhD M'76), McKinney, TX, May 27.
PAUL M. INGOLD (MA'72), Greensboro, NC, Nov. 9.
JOYCE E. (WOLTER) KERKHOFF (HHS'72), Otterbein, IN, Oct. 22. She is survived by her husband, Stephen (A'72).
NELSON L. MILLER (PhD EDU'72), Elkhart, IN, Sept. 14.
ERNEST DARRELL ROTMAN (P'72), Jasonville, IN, Jun. 5.
THOMAS L. STIVER (MA'72), Syracuse, IN, Nov. 8.
GREGORY R. WITHAM (M'72), member, Valparaiso, IN, May 17.
DUANE ERNEST WOLTING (AAE'72), Carson City, NV, Sept. 18.
JAMES R. BARTOSZEK (BS'73), Highland, IN, Oct. 26.
JAMES L. CLOWERS (MS CE'73), Topeka, KS, Sept. 24.
JOHN C. HALLER (MS M'73), life member, Fairborn, OH, Mar. 24, 2019.
HENRY A. LEFFINGWELL (P'73), San Antonio, TX, May 10.
JERRY M. MULLINS (T'73), Weatherford, TX, Oct. 25. He is survived by his wife, Nancy.
GORDON A. REINHERTZ (AAS'73, AAS'74), Valparaiso, IN, Oct. 7.
JOAN F. (BIELMEIER) SCHLAGER (AAS'73), La Porte, IN, Nov. 18.
PHILIP L. SMITH (MS HHS'73), Collierville, TN, Nov. 6.
ROBERT D. SPROULL (ChE'73, MS ChE'74, PhD ChE'86), Crystal Beach, FL, Oct. 27.
ANTHONY V. WILSON (MS'73), life member, Clearwater Beach, FL, Apr. 8.
MARK M. AXE (MS M'74), Shelby Township, MI, Jun. 3.
SANDRA JUNCK (JANOVIC) CARPENTER (MS'74), Phoenix, AZ, Nov. 11.
TOM W. CORWIN (MA'74), Mooresville, IN, Nov. 6.
DAVID DALE DALKE (HHS'74), Mishawaka, IN, Oct. 11.
DONALD J. FASSNACHT (A'74), life member, West Lafayette, IN, Sept. 26. He is survived by his wife, Carrie.
PATRICK T. HARDESTY (MS S'74), Kennett Square, PA, Sept. 10.
NELSON WAYNE METZGER (A'74), South Whitley, IN, Sept. 12.
WARD DUFFEY MORRISON (BS'74), Rockingham, VA, Oct. 24.
LARRY LEE VANCE (T'74), Anderson, IN, Sept. 30.
EDWARD P. ZANUSSI (BS'74), Indianapolis, IN, Nov. 14.
BARBARA A. (SANDERS) ZEMAN (LA'74), Coldwater, MI, Aug. 31. She is survived by her husband, Glen (MSE'71, MS MSE'74).
CHARLES F. COOLEY (IE'75), life member, Akron, OH, Oct. 20.
ALFRED J. HERBST (BS'75), Kingsford Heights, IN, Sept. 17.
WALLACE G. NEIGHBORS (AAS'75), Fort Wayne, IN, Nov. 16. He is survived by his wife, Teresa.

BETTY (COLEMAN) PECK (MA'75), Alexandria, VA, Oct. 13.

THERON EUGENE ROUNDY (PhD A'75), Nampa, ID, Aug. 26.

MITCHELL M. TSENG (MS IE'73, PhD IE'75), Taichung, Taiwan, Oct. 21. He is survived by his wife, Jennifer.

DAVID A. BARTHOLOMEW (M'76), Granger, IN, Sept. 25. He is survived by his wife, Nancy (LA'77).

JAMESON T. BRANSON (A'76), life member, Wauconda, IL, Nov. 15.

JOHN F. GREENOUGH II (LA'76), Indianapolis, IN, Sept. 2.

BONNIE JANE LEHE (HHS'76), West Lafayette, IN, Oct. 25.

JOSEPH R. LOUKS (T'76), West Lafayette, IN, Oct. 1.

ROGER HARDIN SANDIDGE (A'76), Kirksville, MO, Jun. 29.

RONALD M. SUDLAK (AAS'76), Hammond, IN, Sept. 19.

RICHARD DALE BAST (MS EDU'77), Thorntown, IN, Sept. 26.

CONNIE J. (MISS) GERARDOT (BS'77), Lexington, KY, Oct. 18.

JAMES A. HARRER (M'77), Evansville, IN, Aug. 17.

FLORENDIUS O. (HOWARD) NORRIS (HHS'77), Indianapolis, IN, Nov. 4.

RONALD B. SCHMIDT (A'77), Nampa, ID, Sept. 18.

RICKY WILLIAM STRADTNER (P'77), Jasper, IN, Nov. 21. He is survived by his wife, Penny.

PHYLLIS A. (TOOMBS) BARNES (HHS'78), Wheaton, IL, Apr. 21.

TERRY LEE CLINE (LA'78), North Liberty, IN, Aug. 29.

RICHARD E. FOX (MS'78), West Peoria, IL, Nov. 22.

FAREN E. LEVELL (LA'78), Evansville, IN, Oct. 1.

TIMOTHY WAYNE MCNEIL (A'78), Evanston, IL, Oct. 10.

WILLIAM H. PHILLIPS (S'78), life member, Vernon Hills, IL, Oct. 2.

DAVID L. RHUDE (ECE'78), Ellicott City, MD, Jul. 14. He is survived by his wife, Ellen (ECE'81).

STEVEN DALE SANDS (ChE'78), Lake Jackson, TX, Sept. 15.

DAVID LUKE SEBOLT (MS CE'78), Ann Arbor, MI, Jul. 18.

TOMMY E. COX (A'79), Crawfordsville, IN, Nov. 14.

MARIANNE (DUBOWSKI) JAZWINSKI (BA'79), life member, Darien, IL, Apr. 28.

SONYA L. (PEDERSEN) MARGERUM (MA LA'79), West Lafayette, IN, Nov. 3.

MICHAEL A. MCCABE (MS ChE'79), Houston, TX, May 31.

NANCY (LIMBACH) ROLLS (MS'79), Schererville, IN, Sept. 8.

KEVIN L. SIMMONS (M'79), Sugar Land, TX, Aug. 21. He is survived by his wife, Julie (M'80).

WILLIAM B. STAFFORD (A'79), life member, Lafayette, IN, Nov. 10. He is survived by his wife, Robin (EDU'97), life member.

ROBERT B. WEINZAPFEL (CE'79), Douglasville, PA, Nov. 21.

WINIFRED A. (MESEBERG) WILLIAMS (AS'79), Eau Claire, WI, Nov. 11.

1980

BOBBIE J. BAXTER (T'80), Newark, DE, Aug. 8.

R. SCOTT BEAGLES (CE'80), Dupont, IN, Oct. 9.

LORELEI (WATKIN) BRIZIUS (NRS'80), Evansville, IN, Nov. 8.

PAUL J. MARCZAK (A'80), life member, Altamonte Springs, FL, Sept. 4.

JAMES FRANKLIN MCCURDY (A'80), Indianapolis, IN, Aug. 14.

MARJORIE RUTH (FILMER) PATTON (M'80), Phoenix, AZ, Nov. 17. She is survived by her husband, David (T'78).

MAREHALLI G. PRASAD (PhD ME'80), life member, Maplewood, NJ, Nov. 25.

NANETTE D. (KOWALISYN) RADUENZ (LA'80), Dyer, IN, Oct. 23. She is survived by her husband, Gary (LA'79).

DAVID PETER SAWICK (MS P'80, PhD P'84), life member, Marco Island, FL, May 14. He is survived by his wife, Camilla.

MICHAEL R. ACITO (HHS'81), South Bend, IN, Jun. 28.

MICHAEL G. BARKSDALE (BA'81), Fishers, IN, Sept. 22.

GLENDA J. (SALYERS) MCCLATCHEY (A'81), Lafayette, IN, Oct. 6. She is survived by her husband, David.

IN MEMORIAM

LYNNE (BERG) METZ (M'81), St. Thomas, VI, Jun. 24.
NANCY A. MONEYHUN (HHS'81), life member, Anderson, IN, Nov. 14.
NATHANIEL C. BAKER (T'82), life member, Kokomo, IN, Nov. 13. He is survived by his wife, Candace.
JANE (KOLODIEJ) DEEB (BS'82), Michigan City, IN, Sept. 3.
LYLE D. HOLSINGER (E'82), Canton, GA, Sept. 17.
G. THOMAS MARKET (M'82), member, Newburgh, IN, Aug. 13.
A. JEAN (EDWARDS) NESS (HHS'82, MS HHS'84), Anderson, IN, Aug. 24. She is survived by her husband, Howard.
MARK A. BOBOS (ECE'83), Hobart, IN, Sept. 7.
JEANNE C. HEDGE (HHS'83), life member, Scottsburg, IN, Oct. 1.
KURT DAVID OSTERHOFF (E'83), Muncie, IN, Nov. 16.
DORIS M. (FRY) SPENCER (MS EDU'83), Lafayette, IN, Sept. 11.
THOMAS P. ARNOLD (MS M'84), Bristol, NH, Jun. 1.
ROBERT LEON EWIGLEBEN (HDR'84), Rockford, MI, Nov. 3.
SAMUEL D. HORNER (BS'84, AS'85), Fort Wayne, IN, Oct. 22.
EDWARD G. PIERCE (BS'84), Edinburgh, IN, Oct. 20.
DIANE D. SPARRENDAHL (LA'84), Lafayette, IN, Sept. 7.
CYNTHIA JO (FICKLE) WANTZ (MS'84), Jacksonville, FL, Jun. 11.
JEFFREY ALLAN BROOKS (MS EDU'85), Fowler, IN, Sept. 15.
BETH A. FREY (P'85, DP'86), Naperville, IL, Sept. 7.
DAVID LEON SMEAD (BA'85), Crown Point, IN, Nov. 16.
DENNIS K. STRAIN (BA'85), Warsaw, IN, Nov. 9.
MARSHA L. (ADAMS) WURM (AS'85), Monroeville, IN, Sept. 20.
MARGARET (AYER) CURTIS (AS'86), Fort Wayne, IN, Nov. 19. She is survived by her husband, Larry.
THOMAS D. HAYKIN (MS ME'86), Greensburg, PA, Aug. 29.
DOUGLAS MICHAEL OLANDER (AAE'86), life member, Glen Allen, VA, Oct. 23.
WILLIAM G. STEPHENS (P'86), Brownsburg, IN, Aug. 23.
SCOTT A. WISSINGER (PhD S'86), Meadville, PA, Oct. 5.
KRISTIN E. (ROBER) BELLI (S'87, AS V'00), Grand Ledge, MI, Nov. 12, 2018.
C. CHARLENE (NORRIS) BLUNK (AAS'87), Valparaiso, IN, Nov. 5.
VINCENT E. DEGIULIO (S'87), life member, Palatine, IL, Jun. 1. He is survived by his wife, Jessica.
NEIL R. ELTZROTH (CERT'86, AA'87), Dunkirk, IN, Sept. 9.
LISA ANN (TAYLOR) GUSE (T'87), Peru, IN, Nov. 14.
HENRY JOSEPH RANDALL (T'87), Indianapolis, IN, Sept. 19.
JOHN ALLAN SELLERS (BS'87), Beech Grove, IN, Jun. 11.
VINCENT P. SILVONEK (AAS'87), Valparaiso, IN, Sept. 16.
CRAIG R. STETTNER (A'87), Des Plaines, IL, Dec. 25, 2018.
ROSALYN R. (NOEL) TURNER (AAS'87), Pikeville, TN, Jun. 9.
STEVEN R. ZELDENRUST (MS'87), St. John, IN, Jul. 10.
L. SUE (SHIELDS) EAKRIGHT (AS'88), LaFontaine, IN, Nov. 8.
PEGGY M. (ROBERSON) KING (A'88), Avon, IN, Oct. 15. She is survived by her husband, James (BS'83).
DEBRA K. (SCHEUMANN) KUNKLE (BS'88), Fort Wayne, IN, Jun. 6. She is survived by her husband, Barry (AS'86).
SCOTT J. LUCERO (LA'88), Sarasota, FL, Nov. 21.
JOHN D. MYERS (A'88), Indianapolis, IN, Sept. 26.
MARIANNE L. (RUSSELL) NUZZO (ME'89), McDonald, PA, Nov. 9.
JOHN A. SPODICK (DVM'89), Tyngsboro, MA, Sept. 10.
LAURA ANN (CURR) BEAMER (BS'88, MS'90, DNP NRS'09), McHenry, IL, Oct. 24.

1990

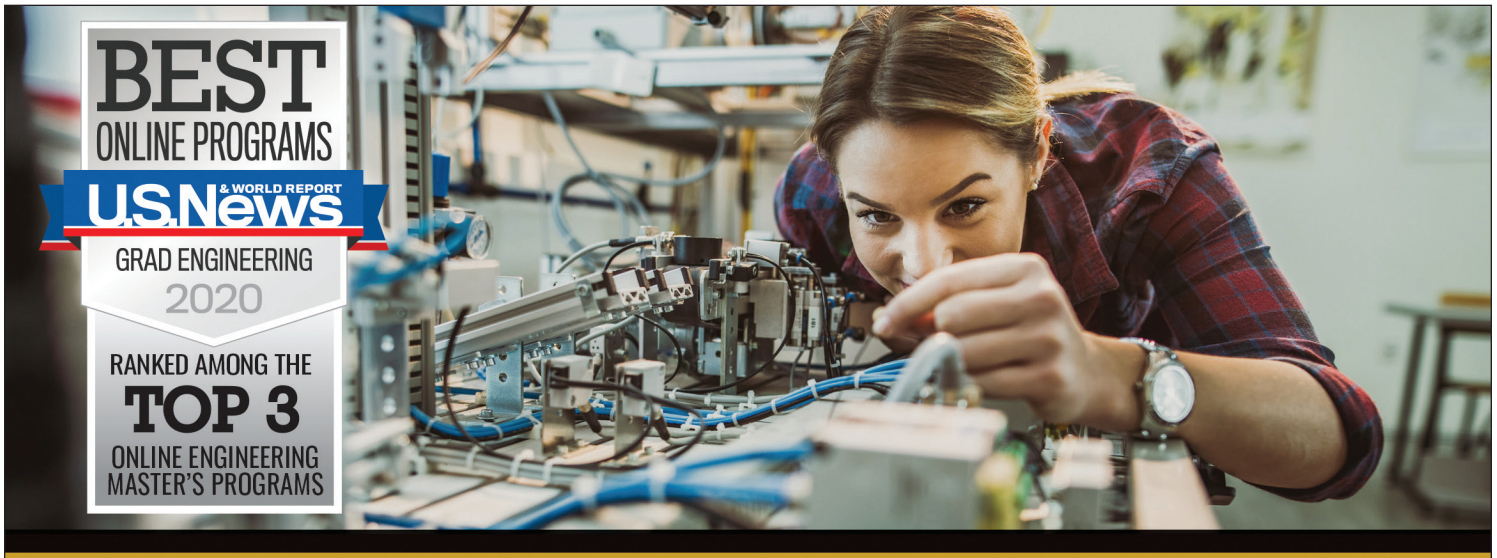
BARBARA J. (NELSON) GOES (AAS'90), Fort Wayne, IN, Nov. 15. She is survived by her husband, Thomas.
DONNA M. (LANGNER) GOULD (NRS'90), Carmel, IN, Jun. 8.
LINDA C. (SHAHEEN) SHARKEY (HHS'90), Akron, OH, Jul. 13. She is survived by her husband, Todd (T'92).
BRETT F. GEMLICK (S'91), life member, Huntertown, IN, Oct. 9. He is survived by his wife, Beth (HHS'91), life member.
RICHARD NEAL METZGER (ECE'91), Camarillo, CA, Aug. 15.
DAVID J. NOVAK (AAS'91), Whiting, IN, Sept. 30.
MARY ANN (HARRIS) RAMOS (AAS'91), Goodyear, AZ, Oct. 29.
WALTER T. SMITH (MS CE'91), Abilene, TX, Nov. 24.
DAVID O. HAYHURST (AAS'92), Holt, MI, Sept. 11.
RAYMOND LEPPARD (HDR LA'92), Indianapolis, IN, Oct. 22.
ANDREW C. RIGGS (MS S'92), life member, Indianapolis, IN, Sept. 29.
RALPH A. WAGONER (PhD S'92), El Paso, TX, Sept. 8.
DON A. WOLF (HDR'92), Fort Wayne, IN, Sept. 11. He is survived by his wife, Virginia.
JEROLD N. BAUER (ECE'94), McCordsville, IN, Aug. 24.
PIERRE G. DE CALONNE (BS'94), Fort Wayne, IN, Nov. 18. He is survived by his wife, Kathy.
KIMBERLY JEAN (ELLIS) EBERLY (LA'94), life member, Attica, IN, Nov. 8. She is survived by her husband, Jason (T'01).
TAMMY (BROWN) KULT (LA'94), Lafayette, IN, Oct. 24.
MATTHEW A. PARKER (BS'94), Centreville, VA, Sept. 22. He is survived by his wife, Marla (BS'97).
JOEL S. BEAVINS (BA'95), Franklin, IN, Oct. 6.
DUSTIN D. CRAWFORD (T'95), West Lafayette, IN, Oct. 12.
K. ERIK GILBERT (HHS'95), Plymouth, IN, Sept. 20.
SHANGHAO LIU (PhD S'95), Lexington, MA, Jul. 4.
MARK A. STOWE (HHS'95), Osage Beach, MO, Jul. 4.
KEVIN P. BURNAU (T'96), West Lafayette, IN, Aug. 15.
TRACIE MONIECE GIBSON (MS S'96, PhD S'00), Northampton, MA, Oct. 16.
KIRT W. WEAKMAN (T'96, MS T'07), Lowell, MI, Apr. 21.
DERECK A. KLOPFENSTEIN (DVM'97), Goshen, IN, Aug. 8.
GERALD PAUL (HDR HHS'98), Indianapolis, IN, Oct. 29. He is survived by his wife, Dorit.
KRISTIN (WAID) WHITESELL (M'98), life member, Galloway, OH, Sept. 4. She is survived by her husband, Michael (T'99), life member.
RICHARD J. ZACHARIAS (BS'98), Valparaiso, IN, Oct. 14.

2000

SCOTT C. KRAMER (HHS'00), Rossville, GA, Sept. 6.
PETER F. MCKAY (BS'00), Erie, PA, Oct. 8.
MEGHANN E. MOHAN (HHS'00), Denver, CO, Jul. 25.
DAVID E. MULHOLLAND (BS'00), Lewisburg, TN, Oct. 14.
LAURA JILL (GUY) CANNON (P'01), Marion, IN, Sept. 27.
JEFFREY ALLAN SUTARIK (A'01, DVM'05), Lombard, IL, Oct. 26.
DAVID H. ANDERSON JR. (T'04), Wingate, IN, Oct. 18.
JOSEPH G. KORANEK (BS'03), Crown Point, IN, Nov. 17.
AUSTIN N. SZALMASAGI (T'04), Spring, TX, Oct. 6.
DAVID J. LINDLEY (P'05, PhD P'09), Bristol, WI, Sept. 5. He is survived by his wife, Ashley (EDU'06).
DANIEL PATRICK UFFELMAN (AAE'06, MS AAE'08), Colorado Springs, CO, Nov. 5.
KENNETH R. JORDAN (BS'09), Greenwood, IN, Jul. 19.

2010

RACHEL ROY ANDERSON (NRS'11), Wingate, IN, Oct. 18.
LEAH RACHEL JONES (BS'12), Osceola, IN, Feb. 4, 2019.
BRANDON T. LEAL (BS'12), Vincennes, IN, Nov. 9.
KATHLEEN (STISO) MULLINS (PhD LA'12), member, Williamsburg, VA, Oct. 15. She is survived by her husband, James, member.
JOSEPH ROBERT ZIC (HHS'16), Grand Rapids, MI, Nov. 11.
SHANE L. SPELLS (CERT'18), Indianapolis, IN, Sept. 1.



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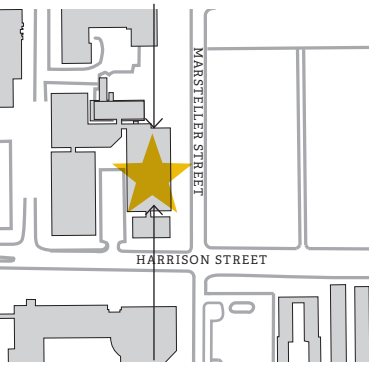
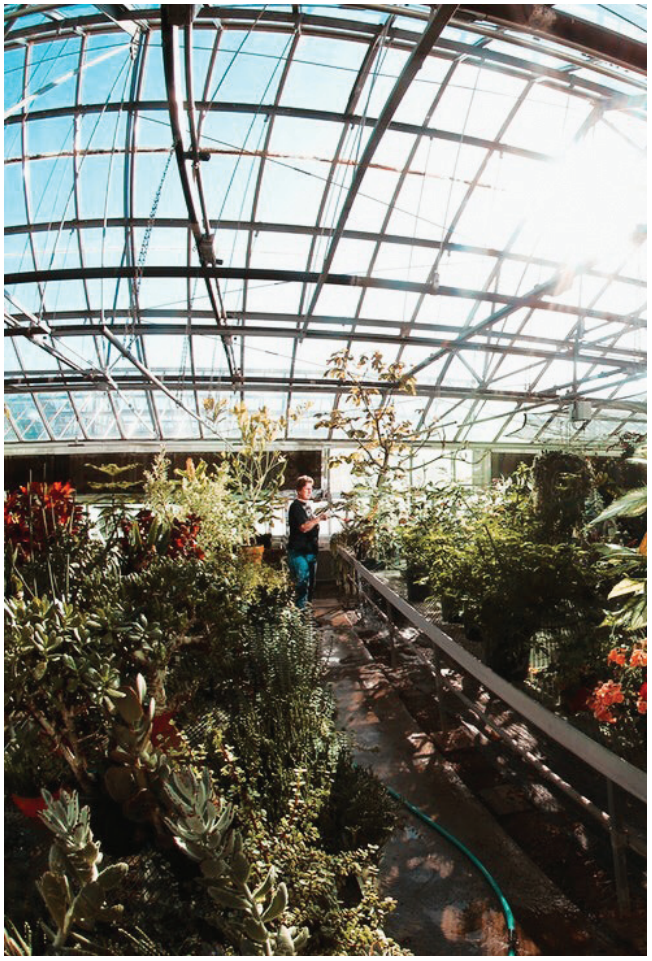
HORTICULTURAL GREENHOUSE





Greenhouses

It doesn't matter how cold it gets on the outside — the icy grip of winter melts away in Purdue's world-class greenhouses. Inside each you can see what grows in a research and teaching facility where it's always 78 degrees or warmer. The glass houses lend sights and smells of warm plants growing amid bins of soil, sand, and peat.

Totaling 34,800 square feet, the Purdue Horticulture Plant Growth Facility — located at the intersection of Horticulture Drive and Harrison Street — serves the Department of Horticulture and Landscape Architecture and includes 25 greenhouse rooms, two air-conditioned growth rooms, 17 growth chambers, five walk-in coolers, a tissue culture laboratory, three teaching laboratories, and a mist house.

Researchers can tackle their exploratory projects at the Lilly Greenhouses and Plant Growth Facility. At 53,960 square feet, the space provides 57 individual greenhouse rooms of controlled environmental systems, used mostly by the Departments of Botany and Plant Pathology and Agronomy. Larger than a football field, the greenhouses are located south of Lilly Hall of Life Sciences. Under the precise environmental control systems that aid uniform growth conditions — which would be difficult to replicate in the field — researchers can study plant phenotypes while regulating control over experimental variables.

The state-of-the-art Controlled Environments Phenotyping Facility, connected to the Lilly Greenhouses, occupies 7,300 square feet. The facility gives researchers access to a rapid, nondestructive alternative to exploring plant traits. Inside the white walls, the growth chamber can accommodate 256 plants up to 10-feet tall on an automated conveyor system — the largest growth chamber in North America for crop phenotyping. The conveyor system is connected to RGB and hyperspectral camera systems used to collect data through the entire life cycle of a plant.

—CHERI FREDERICK

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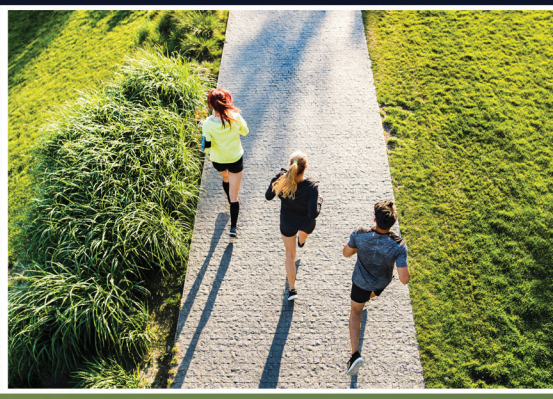

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For Travis, the work-school balance of Krannert's Weekend MBA program afforded him the unique opportunity to grow in a cohort learning structure—something that suited him perfectly as a former student-athlete on the Boilermakers' basketball team—while staying in the workforce, so he could apply his learning in real time and push his business analytics and leadership skills to an entirely new level.

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