

PURDUE ALUMNUS

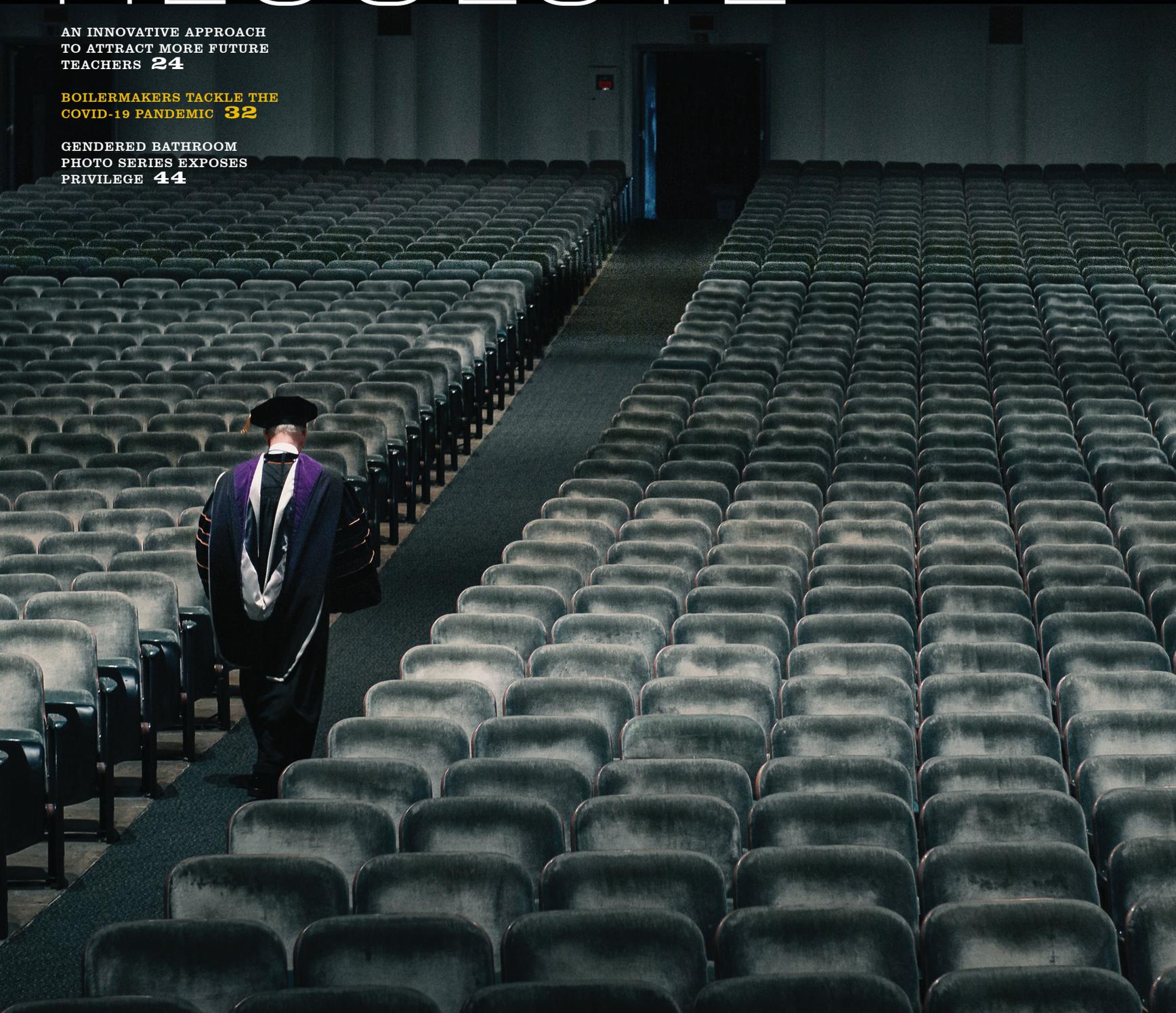
SUMMER 2020

RESOLUTE

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TEACHERS **24**

BOILERMAKERS TACKLE THE
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GENDERED BATHROOM
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↓ **IN THEIR WORDS:** We asked 2020 graduates to reflect on their final semester. Surrounded by all the boxes she brought with her after moving back home, Allison Cattin (HHS'20) discovered a note she wrote in her planner last fall — "Embrace Uncertainty." Read more on page 44.





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ON THE COVER: University President Mitch Daniels walks away after recording his May 2020 commencement speech in an empty Elliott Hall of Music. In his introduction, Daniels stated: "I never expected this. To be addressing you with me in an empty hall, and you far away. Wherever you're viewing this virtual ceremony, I hope you are surrounded by people you love, people who helped you reach this moment of achievement."

ON THE COVER: JOHN UNDERWOOD; THIS PAGE: PHOTO PROVIDED

IT TAKES A VILLAGE



24

↑ James Steinberg

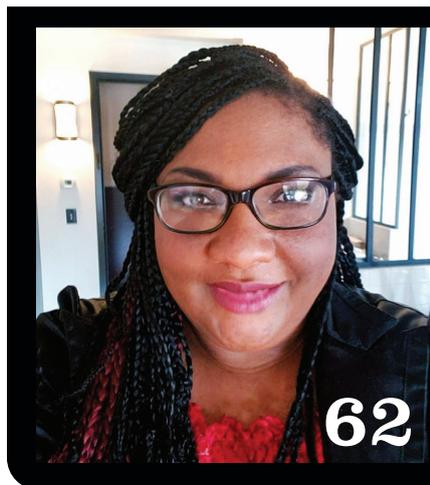
After graduating from the Rhode Island School of Design, Steinberg moved to Boston and wasted no time pursuing his dream of being a waiter in Harvard Square. Ultimately, he decided that restaurant work was not for him and tried his hand at illustration. For a while, he continued to open wine bottles and grind pepper while illustrating for the *Boston Globe* and other publications until he finally took the plunge and started illustrating full time. He still wields a pepper mill with panache.



24

← Lara Ehrlich

is the author of the short story collection *Animal Wife*, which won Red Hen's Fiction Award, judged by *New York Times* bestselling author Ann Hood, and is forthcoming from Red Hen Press in September. Ehrlich's stories are published in *F(r)iction*, *Hunger Mountain*, *StoryQuarterly*, *The Normal School*, and elsewhere; she is the winner of a 2019 IHAF In-House Creativity Award and numerous Council for Advancement and Support of Education (CASE) awards for her feature writing.



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← Jonita (Holley) Davis

(BA'08, MA'15) is based in northern Indiana and teaches in the Chicago suburbs. Her writing offers a critical look at American culture and the many places where it intersects with larger issues and ideas. Politics, education, parenting, entertainment, and social justice are all topics she has explored with this critical lens. Her work has been featured in the *Washington Post*, the *Guardian*, *Yes! Magazine*, *Vox*, and many others.

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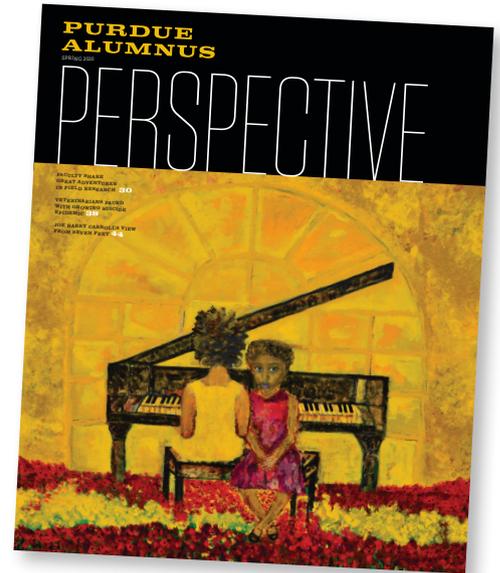
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WHAT YOU HAD TO SAY



On-campus crisis telephone services have come full circle since the early 1970s. “With Love, Heartache” (Spring 2020) notes that Purdue now has two toll-free telephone numbers for callers to “be connected with someone who is trained to listen and offer support to people in emotional crisis.” One line is offered by Counseling and Psychological Services and the second by the Purdue Veterinary Teaching Hospital. I am certain both services are demonstrating Purdue’s long history of public service via telephone crisis intervention, which began on campus in the early 1970s. As a faculty member of the Department of Psychological Sciences, I was part of a group of graduate students and faculty who initiated the Purdue Crisis Line for campus callers. Our volunteers manned the phone evenings and weekends from a desk in the old Education Building. Our phone number was made public, and soon we received calls from Lafayette and the region. This eventually led to the formation of the Lafayette Crisis Center in 1971. The Crisis Center was located in Lafayette but run by many Purdue students and staff, plus community members, all working regular shifts as volunteers. It has remained a 24/7 community service ever since. It is both rewarding and reassuring to find two crisis intervention services on campus now active after the prototype began 50 years ago.

—Don Hartsough
BEND, OREGON

After being buried in letter writing in support of the use of companion and service dogs for reducing the national crisis of veterinarian suicide, “With Love, Heartache” (Spring 2020) hit me like an IED. Joel Meredith has done a masterful job of describing this situation; the story pinpoints the important facts and information.

Once again, we see the elements of mental health involved deeply in the lives of people under great stress. Because of job stress, debt, and death of clients, the suicide rate of veterinarians is at twice the rate of the general population.

My experience with more than 60 years of having dogs has shown me two things: I have the greatest respect for veterinary science, services, and the people who provide them. I feel much more needs to be done in educating the general public about the care, treatment, and relationships with our pets. I have seen the compassion, professionalism, and skill provided by veterinarians, and I also feel they should not be the recipients of such concentrated stress that society now provides. Along with the recommendations of Jennifer Dehn, Christopher Fulkerson, and the others in the story, perhaps Purdue should make a massive effort for public education about the responsibilities of ownership of pets and how to best manage their care. There remains a tremendous amount of ignorance in this area.

Thank you for covering a most important area and helping to further clarify a most confused situation. I have to leave my computer now — my German shepherd Rosie has just told me she needs to go out. I have a responsibility to her and a promise that I will care for her the rest of her life, or mine, whichever comes first.

—Donald I. Craig Jr. (HHS’66), life member
INDIANAPOLIS, INDIANA

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letters to
alumnus@purdue.edu

In the Spring 2020 *Purdue Alumnus*, fellow Purdue Alumni life member John Shirey (IE'71) laments not more than four lines being devoted to Birch Bayh Jr.'s (A'51, HDR A'65) obituary in the Fall 2019 issue. Shirey cites many of Bayh's accomplishments and would-be accomplishments as a United States senator from Indiana. By all accounts, Birch Bayh Jr. and his son, Evan Bayh, were and are decent people, albeit with misguided philosophies ... and whose "Hoosier values" they trumpeted in Indiana must've fallen out of the cargo hold as they flew over the Indiana/Ohio state line on their way to Washington, DC. Four lines were appropriate for Birch Bayh Jr.'s obituary. Many Purdue graduates, having made greater contributions to our culture and/or having done less damage to it than did Birch Bayh Jr., have received less than a four-line obituary in the *Purdue Alumnus*.

—Bob Palma (T'69), life member
BROWNSBURG, INDIANA

I was very pleased to see the information about my good and much missed friend Sen. Birch Bayh. I first met Birch when he launched his campaign against then-Sen. Homer Capehart. Birch was one of the first politicians to make effective use of television to reach out to voters. As a native Hoosier, I was working as a reporter for WTRC radio and WSJV television in Elkhart and went to interview Birch about his campaign. We almost immediately became good friends. Indeed, it was not long before I

was working as a reporter in Washington, DC, and talking often with the young senator from Indiana. So, here are a couple of stories most people do not know. When Sen. Ted Kennedy's plane crashed on June 19, 1964, Birch also was on the plane along with the men's wives. It was Birch who, although injured, pulled Kennedy from the plane before it could catch fire. Later, Birch was campaigning for reelection in Indiana when he and a staff member saw smoke and fire coming from a farmhouse. Birch shouted for the driver to stop and then, at great risk to his own life, rushed into the burning building and saved the man and woman from the flames. Lastly, his 1968 book *One Heartbeat Away* discussing presidential succession became the foundation for discussions on the subject.

—Dan Blackburn (LA'61), life member
LOS ANGELES, CALIFORNIA

In the pantheon of supporters of education in America, there are none higher than Birch Bayh. Without Birch Bayh there would be no Bayh-Dole Act. Without Birch Bayh there would be no PRF, no WARE, no Tech Transfer, no Discovery Park, no funneling millions of dollars to college football and basketball coaches. Some good, some bad. Bayh was an intelligent, apolitical voice in the wilderness. Let's not forget the contributions that he made to Indiana and the entire USA.

—George Molnar (ECE'68, MS ECE'70), life member
ESTERO, FLORIDA

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THE BIG PICTURE

HOMEGROWN HELP

Student Farm provides fresh produce for area food pantries

BY JOEL MEREDITH

THE SHUTDOWN OF PURDUE'S CAMPUS HAD some unintended positive impacts on the local community. For example, when the Third Street Suites Starbucks closed, they decided to make a generous donation to the ACE Food Pantry, located in the basement of the Baptist Student Foundation (also known as The Found).

"We got this lemonade concentrate that was a huge hit," says Marly Beck (A'20), the outgoing student director at the pantry. "Everyone has been really generous. We've received donations from the Purdue Student Government and the Graduate Student Government because they know how this can affect the community."

Because of the influx of donations, the pantry has been able to supply its clients with meat, which isn't normally available. A local farm has also been delivering eggs every other week. ACE Food Pantry, which is open to anyone in the Purdue community — clients only need to show a Purdue ID — also received generous support from the Purdue Student Farm.

"We've been able to donate spinach, lettuce, and some



JON BENSON (A'17)





ESTABLISHED IN 2010, the Purdue Student Farm is a five acre working farm on the west edge of campus off Cherry Lane.

herbs," says Christopher Adair (A12), farm manager. "The spring has been helpful. It's been kind of long and drawn out. The lettuce and spinach do better when it's not 90 degrees."

As of late May, Adair estimates that the farm has donated up to 2,000 lbs of food to the ACE Food Pantry. But they've also donated food more broadly across the community, including to Food Finders, ACE Food Pantry's parent organization across the river in Lafayette.

"We don't normally get the green leafy vegetables that people want," says Kier Crites (HHS'03). "Normally the donations we get from retailers are on their last legs. Having freshly bagged produce was fantastic. It goes out the door immediately."

Crites is the chief philanthropy officer at Food Finders, which operates across a multi-county region in North Central Indiana.

"We're seeing about 30 percent of people coming who haven't had to ask for assistance before," says Crites. "Thankfully, about 95 percent of our partners have stayed open and are still serving their communities."

At both ACE Food Pantry and Food Finders, operations have changed significantly since March.

"Instead of our typical setup where people browse the shelves, we have people drive up — or walk up or bike up — to the door," says Beck. "We have a student volunteer stationed there with a white board of everything that's available. They take orders, text the information down to the pantry, and then volunteers bag up the orders and bring them upstairs to limit contact. "We're glad to be a choice-based pantry and we want to maintain our clients' ability to have that choice."

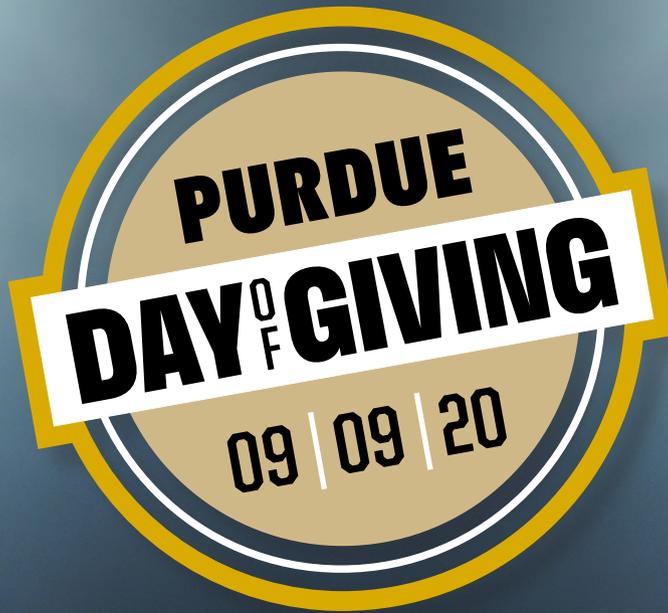
The Purdue Student Farm is currently operating with eight students. Thankfully, says Adair, they have been able to largely maintain normal operations.

"Generally, with the harvesting and washing, everyone's wearing gloves and facemask coverings," says Adair. "At times, people tend to forget the social distancing, so it's important to remind them not to stand right next to each other. You tend to already be farther apart. That makes it easier, but you still find at times folks are getting a little too chummy."

Being able to maintain some sense of normalcy at the farm has been a boon for Adair.

"It's been really nice to be able to continue operating when all these other staff have been sent home or aren't able to do their regularly scheduled activities. Even before the pandemic, there's something really rewarding about nurturing plants until they produce a tomato. It feels nice, it's really rewarding."

CHRISTOPHER ADAIR (A12); STEVE HALLETT



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RESEARCH

FAMILY ADDICTION

Parents' alcoholism affects the brain's transition from active to resting



BRAGGING RIGHTS

A report issued by ITWatchdog Institute covering an 11-year period of technology commercialization activities lists Purdue

No. 3

in the US for startup creation, behind Columbia University and MIT.

YOU DON'T HAVE TO BE A DRINKER FOR your brain to be affected by alcoholism. A new study shows that just having a parent with an alcohol use disorder affects how the brain transitions between active and resting states — regardless of one's drinking habits.

The study, performed by researchers at Purdue and the Indiana University School of Medicine, discovered that the brain reconfigures itself between completing a mentally demanding task and resting. But for the brain of someone with a family history of an alcohol use disorder, this reconfiguration doesn't happen.

While the missing transition doesn't seem to affect how well a person performs the mentally demanding task itself, it might be related to larger-scale brain functions that give rise to behaviors associated with addiction. In particular, study subjects without this brain process demonstrated greater impatience in waiting for rewards, a behavior associated with addiction. How the brain reconfigures between active and resting states is like how a computer

closes down a program.

"The moment you close a program, a computer has to remove it from memory, reorganize the cache, and maybe clear out some temporary files — this helps the computer to prepare for the next task," says Joaquín Gofí, assistant professor in the School of Industrial Engineering and the Weldon School of Biomedical Engineering. "In a similar way, we've found that this reconfiguration process in the human brain is associated with finishing a task and getting ready for what's next."

The study defined a "family history of alcoholism" as someone with a parent who had enough symptoms to constitute an alcohol use disorder. About half of the 54 study participants had this history.

Subjects lacking the transition also had the risk factors that researchers have seen to be consistent with developing alcoholism. These include being male, a greater number of symptoms of depression, and reward impatience. A family history of alcoholism, however, stood out as the most statistically significant difference in this brain reconfiguration.

—KAYLA WILES

JAMES STEINBERG



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IN MEMORIAM

STEVEN C. BEERING

President emeritus dies at age 87, leaving legacy of servant leadership



DID YOU KNOW?

Steve and Jane Beering aren't the only ones to be buried on Slayter Hill. Inventor and philanthropist David E. Ross, onetime president of Purdue University Board of Trustees, was buried there in 1942 on a "knoll overlooking the Purdue Housing research campus and airport. Two of Mr. Ross's many benefactions to the University" per his obituary.

STEVEN C. BEERING (HDR S'00), WHOSE PRESIDENCY at Purdue University spanned 18 years, died April 3. He was 87 years old.

"The terrible tyranny that brought about World War II bestowed an unintended blessing on Indiana, Purdue University, and America when it sent the family of a young Steve Beering to our country," says Purdue University President Mitch Daniels. "His 18-year leadership of our institution was but one chapter in an epic life of serial achievement. He and Jane (HDR HHS'00) will rest together on Slayter Hill and forever in our memories and in the annals of the greatest Boilermakers."

Under Beering's leadership (1983–2000), Purdue expanded its international efforts, grew its liberal arts programs, promoted diversity, greened and beautified the campus, added 20 major buildings, and took fundraising to new levels.

At the time of Beering's retirement, his name had appeared on the diplomas of more than half of the University's living alumni. He called them all — alumni, students, faculty, staff, and friends — the "Purdue family." When asked

once what he did for a living, Beering said, "I build people."

Beering came to Purdue after serving as dean of the Indiana University School of Medicine and director of the Indiana University Medical Center. Before that he had served 12 years in the air force, during which time he became an adviser to the US surgeon general in internal medicine and a medical consultant to NASA, where he was a physician to the nation's first astronauts and to President Dwight Eisenhower. After leaving Purdue, he served on and chaired the National Science Board, an independent body of advisers to both the president and Congress on broad national policy issues related to science and engineering research and education. The Indiana Historical Society named Beering as a Living Legend in 2013.

Of all Beering's accomplishments, however, one of the most significant was the way he overcame the trauma of war and Nazi oppression and defied odds to become a physician and the leader of one of the world's leading universities.

Beering was born August 20, 1932, in Berlin and spent most of his early years in Hamburg, where his father, Stephen, managed two retail furniture stores before World



War II. As the Allies rained bombs on Hamburg, he and his mother, Alice, and younger brother, John, sheltered with neighbors in their basement. A four-day raid in July 1943 set off firestorms and claimed 77,000 civilian casualties. It also destroyed their home and left a million residents homeless.

The boys and their mother were sent to work on a farm labor camp south of Nuremberg while their father in Berlin feared them dead. It would be years before their father tracked them down with the aid of the American Red Cross.

The future Purdue president was just 11 years old when he was taken to the camp. The war and its aftermath interrupted several years of his public schooling, but his mother, a French nurse, homeschooled her sons as much as circumstances allowed. After the war, the family returned to Hamburg, then moved to London with the assistance of cousins there, and finally arrived in New York Harbor on the *MV Britannic* on July 24, 1948. After immigrating, the family's last name of Bieringer was anglicized to Beering.

"My father, my brother, and I were standing at the railing of the ship as it came into the harbor," Beering said. "It was early in the morning, and there was this fog. The mist parted, and there was a shaft of sunlight that hit the statue just as we were coming up to the Ellis Island area. It was magic, absolutely magic, just like in a movie. And my father said, 'There she is, the Statue of Liberty. Never forget this moment. This is the signal to you to make something out of yourself.'"

The family settled near his grandparents in Pittsburgh when Beering was not quite 16. Years later, he reflected, "I had lost five years of school during the most formative years of a person's life." He had a lot of education to catch up on, yet he set his sights on becoming a physician. "I wanted to make a difference and help people, and I wanted to go into medicine," he said. "I had seen so much disease and problems during the war years."

Despite being far behind in classroom work, he earned straight As and then enrolled at the University of Pittsburgh, where he met Jane Pickering, who would become his wife. He graduated with his bachelor's degree summa cum laude in 1954 and went on to finish medical school in 1958. He worked his way through the undergraduate years with the help of scholarships and income earned teaching French and German at Pitt. For medical school, he received a Mellon Fellowship, a full scholarship.

"That scholarship made an enormous difference. In fact, that's what gave me the idea years later for the Beer-

ing Scholarships at Purdue," he said. Beering raised private funds for the scholarship endowment, which covers all educational expenses for a bachelor's degree and the opportunity to pursue two other graduate degrees at Purdue and a medical degree at the Indiana University School of Medicine. The Beerings established a similar scholarship at the University of Pittsburgh.

Beering always said that on the day he arrived at Purdue to be announced as its next president, it was a cold and cloudy February. As he and Jane approached the campus, however, "the biggest rainbow we ever had seen" appeared over the campus. They took it as an omen of good things to come.

Among the memorable events during his presidency, Beering hosted a visit by President Ronald Reagan and two reunions for Purdue's astronaut alumni, who now number 25. Two of those who attended, Neil Armstrong (AAE'55, HDR E'70) and Gene Cernan (ECE'56, HDR E'70) — the first and most recent people on the moon — also served as campaign chairs for Beering's largest fundraising effort, the Vision 21 Campaign, which raised more than \$330 million. It was the largest campaign for any public university in Indiana at that time.

But those who worked with him credit his leadership, amazing memory, decisiveness, honesty, kindness, and his civility. His standard was excellence. "He also valued a classical education," says Joseph L. Bennett, vice president for university relations emeritus.

"While respecting Purdue's mission to promote engineering, science, and agriculture, Dr. Beering believed a well-rounded citizen should also embrace the arts, literature, and history. He was especially pleased to have the new Liberal Arts and Education Building named after him."

Beering also reached out to alumni classes, urging them to leave their mark on the campus, such as the Class of 1948 Bell Tower and Class of 1950 Lecture Hall. He gave special attention to raising funds to build Pao Hall for the Visual and Performing Arts and the Black Cultural Center.

As he finished his presidency, Beering summed up his thoughts saying: "We must recognize that our strength is people, especially people with ideas who are willing to innovate. That is what really energizes us to meet the needs of others around the world."

—PURDUE UNIVERSITY

FROM LEFT: Jane and Steve Beering. President Ronald Reagan visits Purdue in 1987. The Bieringer (Beering) family in Berlin 1937.



CRAZY THINGS PROFESSORS SAY

“It’s intuitively obvious that ...”

—Habitual statement by chemical engineering professor when solving differential equations in fluids. Submitted by **Robert J. Tylicki (ChE’68), New Albany, Indiana**

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

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DAKAYLA CALHOUN

Senior, College of Agriculture || INDIANAPOLIS, IN

Best thing about Purdue?

There are so many things to do if you look in the right places.

What keeps you busy?

I am vice president of the Gold Mine, the student-led spirit section for women’s basketball. I design some of our T-shirts.

Best campus food?

Probably Windsor. The burrito bowls be exactly what I be needing some days.

Proudest accomplishment?

Getting through both organic chemistry and soil science in the same semester. Both are very taxing classes, and I’m happy I made it work.

Embarrassing moment?

I started a conversation with someone I thought I knew, then realized it wasn’t them. I had no idea who they were, but I kept talking to settle my nerves until I had to go to class.

Hardest class?

Organic chemistry or any of my economics classes.

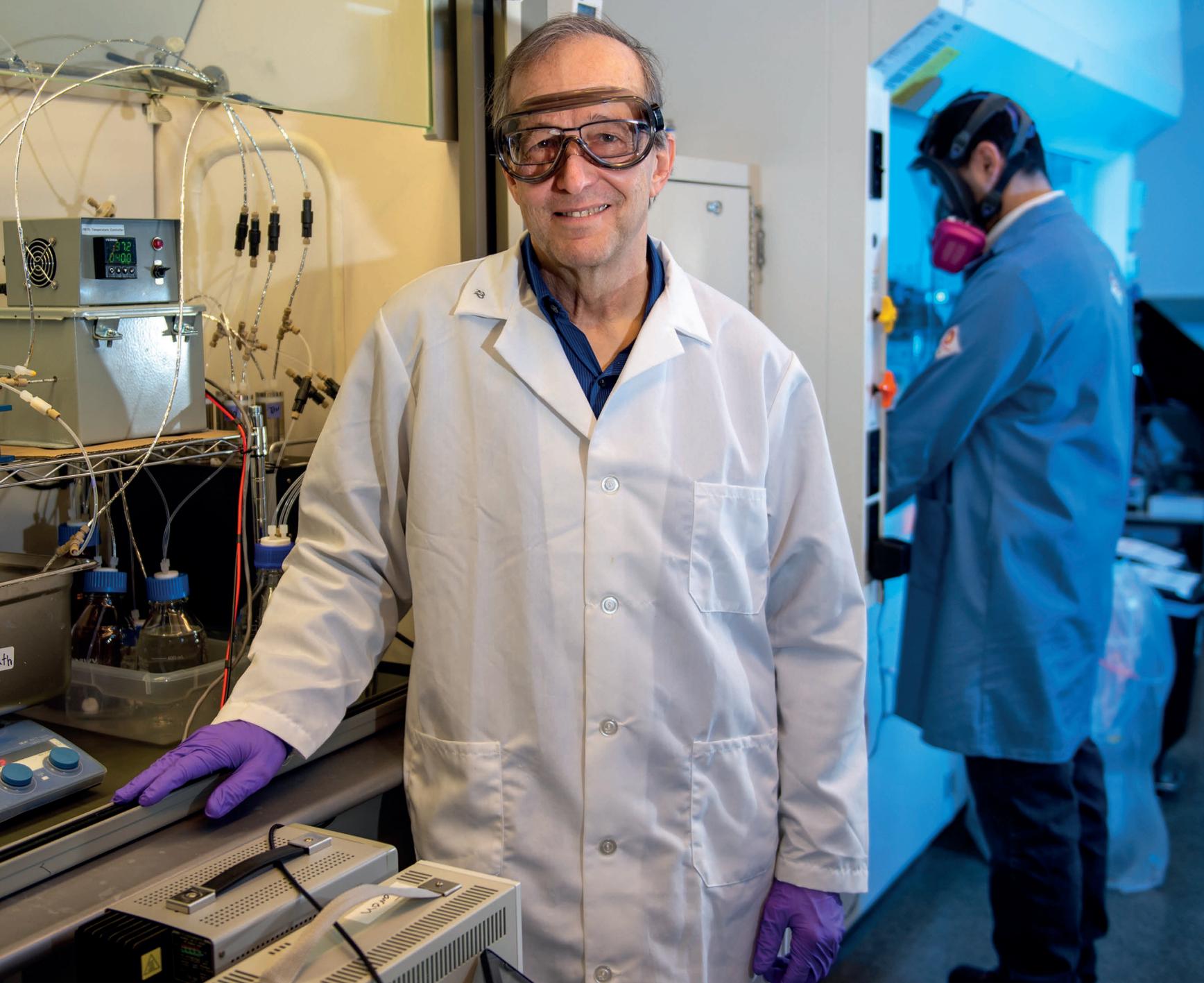
Favorite memory?

Constructing sets in the theater department. I will never forget that experience, and I hope to use it in the years to come.

What’s next?

After college, I’m hoping to start a career as a landscape designer or go to graduate school for something theater related.

DERRICK CALHOUN



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.

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Photo by Mark Simons, Purdue Marketing & Media

INSTANT REPLAY

On the Mat

THE WRESTLING TEAM TURNED IN ONE OF THE BEST seasons in program history in 2019–20, finishing 12–5 overall (5–4 Big Ten) and posting a fifth-place finish at the Big Ten Championships, the best showing since 1992. Junior Devin Schroder (pictured) posted a 26–5 overall record, was the Big Ten Runner-Up at 125 pounds, and earned the No. 5 seed at the 2020 NCAA Championships. He was one of a program-record five individuals to earn All-America honors from the National Wrestling Coaches Association (NWCA). Seniors Dylan Lydy and Christian Brunner completed outstanding careers, posting some of the best marks in program history and earning First Team All-America at 174 and 197 pounds, while Kendall Coleman became just the sixth freshman for Purdue wrestling to secure All-America recognition after a second-place conference finish and 29-win season at 157 pounds.

Despite the cancellation of the 2020 NCAA Championships due to the COVID-19 pandemic, the Boilermakers had eight individuals qualify for the event, tying a program record. In the classroom, Purdue was named an NWCA Scholar All-America team for the second straight year, earned three individual Scholar All-America awards, and tied a program record with 13 Academic All-Big Ten picks.

—TANNER LIPSETT





FROM LEFT: CHARLES JISCHKE (MBA'08), PURDUE ATHLETICS (2)



Feeding the community

HEAD COACH SHARON VERSYP (LA'89) AND THE WOMEN'S BASKETBALL coaching staff visited the J.P. Lisack Community Food Pantry on May 7 to give away free pizzas to visitors from the Greater Lafayette community.

In an effort to also support a local business, the staff purchased more than 500 vouchers from Arni's Pizza. The vouchers are redeemable for free pizza at any Lafayette location. Arni's owner Brad Cohen joined Versyp to distribute the free pizzas.

"In this unprecedented time, we all have to band together," Versyp says. "This pandemic has affected us all, and some more than others. This food bank provides an incredible service to those who have fallen on hard times, and we wanted to show our support for it by offering a free meal to one of Lafayette's most treasured restaurants."

The effort marked one of the first times that the coaching staff had seen each other in person since the end of March. The staff has regularly used Zoom to conduct video calls with players, including several chats with alumnae.

The Boilermakers have featured in the weekly Purdue Athletics *Catching Up* series to talk about the 2019–20 season, time away from campus, and behind the scenes of the program.

Versyp, the all-time winningest coach in program history, returns for her 15th season at Purdue in 2020–21. The four-time Big Ten champion continues to find ways to serve the local community. In March, she was inducted into the YWCA of Greater Lafayette Hall of Fame at the Salute to Women Celebration for her selfless efforts to improve the lives of individuals throughout Indiana. —IAN MACDOUGALL



ALUMNI ATHLETE

MAJOR PLAYER

Tyler Duncan nabs first PGA Tour title, realizing childhood dream



The Indiana Basketball Hall of Fame announced its 2020 Silver Anniversary Team, and Purdue women's basketball standout Stephanie White (LA'99) was recognized as a part of the 18-woman squad.

Best known for leading Purdue to the 1999 NCAA National Championship and four Big Ten titles, White came to Purdue after one of the best high school careers in Indiana history during her time at Seeger High School.

TYLER DUNCAN (M'12) SWUNG HIS FIRST golf club at 6 years old.

"My grandpa built clubs at the local golf course," says the Columbia, Indiana, native. "He would just cut off a 3-wood, an 8-iron, and a putter, and I would just ride around on the golf cart and hit some shots with my grandparents."

In November, the 30-year-old professional golfer won his first PGA Tour title at the RSM Classic in Georgia. It was a dream come true for Duncan and his grandfather, who was on hand to watch the tournament at Sea Island Golf Club. It was also Duncan's last chance to regain his PGA Tour card.

"If I hadn't played well in that final event, I'd be off the PGA Tour," Duncan says. "I went from not having any PGA Tour status to being a winner on the PGA Tour and playing in the Tournament of Champions, the Masters, the Players. It's a huge change in career trajectory for me."

It was a remarkable win for Duncan, whose only other victory of note was the 2011 Indiana Amateur. He's now guaranteed a PGA Tour card through 2022. He also gained financial security with a \$1.18 million prize. He and his wife plan to use some of his winnings to build a house in Ponte Vedra, Florida.

Duncan's champion trajectory began in middle school

when he realized he was consistently performing near the top of his team. Around that time, his uncle, Andrew Johnson, became Duncan's swing coach. Duncan captured the individual Indiana state championship as a junior in high school. As a student-athlete in college, Duncan experienced one of the lowest points of his career. He struggled in the first part of the season his junior year. Purdue hosted the Big Ten Championship that year, and Duncan didn't make the cut.

"It hurt that I wasn't able to compete in the Big Ten Championship on our home turf," Duncan says. "Golf is such a mental stress and grind. You need confidence to play well, but if you let your ego get the best of you and your anger starts to show when you're playing poorly, that can backfire. You have to be able to channel those emotions and use them to your advantage."

Duncan refocused his game and finished out the season playing in regionals for the team. He drew on that same focus to win big on the PGA Tour, just in time. With the spring tournaments canceled due to the COVID-19 pandemic, Duncan can relax and enjoy time off without stressing about his future. The PGA Tour plans to restart in June without spectators.

"I get to travel the world and play golf," Duncan says. "That's something that everyone dreams of doing, and I'm lucky enough to be able to do that." —KAT BRAZ (LA'01, MS LA'19)

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“I want us to achieve ... goals that were set before I arrived.”



SPORTS

RUNNING THE SHOW

Hustle and grit refine setter Hayley Bush's standout performance



BRAGGING RIGHTS

Purdue student-athletes have held a cumulative GPA over

3.0

for 22 consecutive semesters. Boiler Up!

MOVING FROM A HOMETOWN WITH A POPULATION ROUGHLY one-third the size of Purdue's student enrollment required some getting used to for Hayley Bush, a junior in the College of Agriculture. The sense of family and familiarity of the landscape attracted her to West Lafayette.

“It's definitely different going to restaurants and having to wait 15 minutes for Chipotle,” says Bush, a native of Union, Kentucky. “The people are the same; there's just a lot more than I am used to. It reminds me of home. Purdue is close enough to my family that they can come see me play. And the education is really hard to beat.”

At five-foot-nine-inches, Bush is among the shorter setters in the Big Ten Conference. But what she lacks in height, she makes up in work ethic, grit, and determination.

“Hustling more and making more plays in the back court puts me at an advantage,” she says. “The Big Ten is the most

competitive conference. Every time you step on the court it's a battle. The setter runs the show as far as touching the ball on every play. The ability to run plays sets you apart.”

An agricultural finance major, Bush plans to have a career in the food and beverage industry following graduation. For now, she's focused on putting in time in the weight room, stoking her competitive spirit, and developing her leadership on the court.

“I'm looking forward to playing better than any season we've ever had to create history,” Bush says. “I want us to achieve goals that were set since I started at Purdue, goals that were set before I arrived.”

It's a confidence Bush grew into over the past few years. “It comes with experience,” she says. “It comes with reminding yourself that you are good enough and you can handle anything that's thrown at you.” —KAT BRAZ (LA'01, MS LA'19)

// **THE HIGHLIGHTS** // Twelve intercollegiate teams had their seasons end prematurely due to the COVID-19 pandemic, including several that were in the championship portion of their schedules. Here are highlights from those seasons. • **Wrestling** The Boilermakers had their best Big Ten Championship performance since 1992, placing fifth as a team. Devin Schroder and Kendall Coleman each placed second while Dylan Lydy(HHS'19) finished third. The team qualified eight individuals for the NCAA Championships. • **Men's Swimming & Diving** Greg Duncan won the Big Ten title on the 3-meter springboard and placed third on the one-meter while teammate Ben Bramley took second on the platform. Trent Pellini and Nick Sherman each qualified for the NCAA Championships in swimming. • **Women's Golf** In their final event of the shortened season, the team placed second at the ICON Invitational in Houston, finishing ahead of top-ranked University of Texas. • **Track & Field** Waseem Williams (60-meters), Janae' Moffitt (high jump), and the women's 4x400 relay team earned Big Ten titles. Williams and Moffitt qualified for Indoor NCAA Championships along with teammates Brian Faust (800-meters), Isaiah Martin (pentathlon), and Samson Colbrooke (200-meters). • **Women's Basketball** Advanced to the Big Ten Tournament quarterfinals before falling to eventual champion Maryland. Finished the season 18–14 and expected to receive the program's 27th NCAA Tournament bid. • **Men's Basketball** Finished the season 16–15 as their second-round Big Ten Tournament game vs. Ohio State was canceled hours before tipoff.



GIANT LEAPS

HOME

OCTOBER 31

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One Student

AT A TIME

Purdue's College of Education revamps its curriculum to boost enrollment and fix Indiana's teacher shortage

BY LARA EHRLICH

ILLUSTRATION BY JAMES STEINBERG



AMY LEESON (MS LA'76) DECORATED HER FIFTH-grade classroom at Thorntown Elementary School in Thorntown, Indiana, with posters of John Denver and peppered her students' papers with his quotes ("Far Out!"). Throughout her three-decade career in the classroom, she encouraged her students to do anything they imagined and was to them a "magical force," says Nancy E. Marchand-Martella (HHS'85), who credits her former teacher as one of the reasons she became a first-generation college graduate.

"I didn't even know what a credit hour was," Marchand-Martella says. "I remember asking my dad, and he said, 'I don't know, but you sure need a lot of them.'"

Now the Suzi and Dale Gallagher Dean of Education at Purdue, Marchand-Martella invited Leeson to join the Dean's Advocacy Council and help other young people enter — and persist in — their chosen profession in the face of potential obstacles like low salaries and aggressive standardized testing.

"So many teachers are doing a great job, but they're never told that they're having an amazing impact on kids," Marchand-Martella says. "We need to elevate our support of teachers and ask what we can do to bring more good folks into the teaching profession, because the students of tomorrow deserve that." This question is driving Marchand-Martella as she leads the College of Education in an effort to engage students and stem the steep decline in enrollment that is contributing to a nationwide teacher shortage.

How Did We Get Here?

The national teacher shortage threatens to reach 200,000 by 2025 (nearly double what it was in 2018), and Indiana is one of the hardest-hit states, due in part to severe funding cuts to its public schools. Ninety-two percent of the state's education districts report a shortage of teachers in 14 subjects, including key areas like math, science, and special education.

"Sadly, 'Indiana' and 'teacher shortage' have become synonymous terms," Indiana Superintendent of Public Instruction Jennifer McCormick (EDU'93) said in a public statement. "For nearly a decade, we have struggled to find educators to fill even the frequently offered classroom subjects. Unfortunately, this shortage continues to spill into areas not only critical to Indiana's education plan but areas that prepare our students for a bright future."

In an attempt to close those gaps, school districts hire uncertified teachers; in 2017–18, Indiana issued 398 emergency permits in special education, 186 in math, and 153 in language arts. This problem is especially prevalent in high-poverty and rural schools, where teachers are often less qualified — so less prepared — to meet those challenges. Nationwide, more than 40 percent of teachers leave the classroom within the first five years of teaching, and decreased enrollment in education programs means significantly fewer teachers are available to fill those spots.

Since 2010, enrollment in education programs throughout the country has dropped by a third, with sharp declines in nearly every state. Indiana is among the most dramatically impacted, with a 27 percent drop in enrollment.

Why Indiana? Among many reasons, teachers point to the fact that their student body is increasingly composed of diverse learners and students with emotional needs, with a high percentage of students at risk for failure and 50 percent who qualify for free and reduced-price lunch.

"I've been seeing more students who are less able to cope with being in the classroom because their physical needs or emotional needs have not been met," says Annie Buckles (EDU'98, MS EDU'04), who has been teaching first grade at Vinton Elementary in Lafayette, Indiana, for a decade. "Teachers can't just open up a textbook and teach from that because students have too many different needs, and it takes a lot of time outside of the classroom to plan good lessons."

Not only are teachers overworked, but they're drastically underpaid, which has received extensive media coverage and sparked movements like Red For Ed, through which teachers and their supporters rally for funding. Although teacher pay is a nationwide problem, Indiana is ranked 36th in the nation, with a starting salary of \$35,943 and an aver-

age salary of \$50,614. The state is ranked last in the country for salary growth since 2002.

This sends a devastating message to teachers "about what that paycheck represents," says Jeff Spanke (HHS'05, MA LA'08, PhD EDU'15), a former high school English teacher, now an assistant professor of English at Ball State University. "The tragedy is the social perception of the value of the work because it's reflective of the fact that people don't understand what teachers do. People don't care what teachers do. People think because they went to school that they understand how schools work. And that is clearly not the case." And the existing processes for documenting teachers' work and measuring their impact on students does not accurately capture teachers' efforts, Buckles says. In fact, current assessment methods have a detrimental impact on teachers and their classrooms.

The No Child Left Behind Act of 2001 linked funding to academic progress as measured by annual assessments, shifting teachers' focus to testing. "What we really want to be doing is teaching the whole child and seeing the kinds of learning that we know is best for kids, but that is not reflected in the assessments they take" — especially for diverse learners, Buckles says. "As hard as students are working, it's not showing up on the assessments," which

**I AM A
TEACHER.
I CHANGE
THE WORLD
ONE STUDENT
AT A TIME.**

AS TEACHER EDUCATION
recruiter for the College of Education, Abigail Laufman (MS EDU'15), front, organizes events such as *Become a Teacher Day*.



PURDUE UNIVERSITY COLLEGE OF EDUCATION



in turn reflects poorly on the teachers and impacts their salaries and their schools' funding.

Many of the lawmakers "who make decisions about what happens in the classroom have no experience with what it's like in the classroom," Buckles says. "And the in-the-trenches teacher is not being asked what they think is best. Teaching is important work. We don't want to abandon our students because of pay or because of how hard it is, but we need to start looking at the emotional health of teachers."

An Innovative Approach

At the College of Education, "we have to ensure that we're listening to our school districts and superintendents and teachers and be as innovative as possible," says Marchand-Martella, who is leading an initiative to rework all teacher education programs for the cohort of students in fall 2021.

Among the college's top priorities is to ensure that its curriculum prepares teachers to meet the needs of diverse learners. In the existing curriculum, students spend 14 to 16 weeks during their senior year observing and assistant teaching in a classroom, in addition to eight to 12 weeks of other early field experiences during their freshman, sophomore, and junior years, which provides them with an intensive but narrow learning experience. "You cannot learn what it's really like in a classroom from books or small blocks of time," Buckles says. "It's a shock to go from student teaching to having your own classroom."

To mitigate that shock and prepare teachers for the complexities of the classroom, the college is developing a yearlong teaching program, now in the pilot stage, through

which college seniors observe and teach every week from the first through the final day of school. They participate in every part of a teacher's work, from setting up a classroom to administering assessments, and they experience the ever-changing energy of the classroom and how teachers adjust their methods of engaging with students as the school year progresses.

While reworking the curriculum for current and incoming students, the college faculty and administration are also developing robust recruitment efforts to drive up enrollment, like an annual Become a Teacher Day to encourage high schoolers to pursue degrees in education through interactive activities, campus tours, and meetings with college administration. This event is hosted by the college's teacher education recruiter, Abigail Laufman (MS EDU'15), who brings seven years of experience teaching elementary school and an intimate knowledge of the Purdue master's program to her recruitment efforts both on and off campus. She casts a wide net when engaging prospective students, with outreach targeted as early as middle school. As Marchand-Martella says: "It's never too early to talk about being a teacher and elevating the teaching profession."

The college does not limit its outreach to young people who have expressed an interest in teaching, Marchand-Martella says. They're also recruiting Purdue students with undecided majors and developing tutoring opportunities to give students an opportunity to discover whether they have an interest in teaching. Spanke, who recruits in districts throughout Indiana, also engages with students who are not traditionally associated with teaching; he looks

THOUSANDS RALLY AT the Indiana Statehouse on Red for Ed Action Day in Indianapolis on Tuesday, Nov. 19, 2019. The rally was organized by the Indiana State Teachers Association and other labor groups to urge legislators to increase school funding and teacher salaries.

INDIANAPOLIS STAR VIA IMAGN CONTENT SERVICES, LLC

for young people who are “wired to be educators but just have never had that spark ignited for them,” he says. “I’m interested in the dispositions of a teacher — the traits that make lifelong educators and lifelong learners: charisma, creativity, and curiosity.”

Laufman identifies those students in meetings where “they are proactive and come with questions. That’s a good teacher.” She also notes that while college admissions recruiters often look at students’ grade-point averages and test scores, “that’s just a snapshot of a day when they took a test. What’s more important to me is looking at how students interact with their peers and what kinds of experiences they have working with kids.”

Elevating the Profession

“Why would young people choose this profession when they hear how hard it is to do and how little they get paid?” Buckles asks. The popular answer is that teachers are martyrs to education driven by the need to serve despite the poor pay and hardships of their profession. “We get reduced to being public servants or social workers, and people thank us for our service, but we’re not of the same caliber as lawyers and engineers,” whose effort and expertise is regarded and compensated at a significantly higher level, Spanke says.

One of the college’s primary goals is to elevate the teaching profession and to advocate for teachers to receive support and fair compensation. Spanke highlights two approaches of marketing the profession to prospective students and to the public at large: “One way is to sweep the absurdities of it under the rug and to only highlight the great things that make a difference in kids’ lives. I’ve never really been a big fan of that because it ignores the difficulties of our job. Teaching is very, very hard, which is why people deserve a lot more money to do it.

“The other way is to address the difficulties head-on and then sell it. You sell the difficulties and the struggle and the elite power that comes from being one of the few people in the world who can do this — because not everybody can be a teacher, but for those it’s made for, it is a truly blessed and sacred life. You have to pump that message and the privilege and honor of teaching.”

The college stresses that honor on Signing Day, during which the faculty and administration travel to high schools to celebrate incoming students in the manner of star athletes. They gather the students, parents, and teachers before a Purdue banner and “elevate these students and what they’re about to embark on and why it’s so vital to their communities and make sure they feel recognized,” says Tonya Agnew (LA’01), director of communication for the College of Education.

The college also disseminates that message through marketing campaigns and by advocating for teachers in Washington, DC. Purdue faculty and administration work closely with the University’s government relations team, participate in conversations with lawmakers at the Indiana State



Capitol, and host roundtables with legislators to discuss issues like training requirements and teacher pay.

Spanke suggests that fostering public appreciation for the teaching profession will go a long way toward changing how people vote on issues vital to education, and he points to the spring of 2020 as a unique opportunity. As schools closed throughout the nation in response to COVID-19, parents took on the daunting task of homeschooling their children and expressed their dawning appreciation for teachers on social media. Spanke hopes this new awareness of teachers’ work will lead to policy changes.

“I think we’re on the brink of something truly profound in the field of education,” he says. “Five days into e-learning, parents are realizing that it’s hard to be around your children all day, let alone 100 more of them! People are going to wake up to the fact that what these teachers are doing is hard, and it deserves more compensation in more ways than just financial; that education and funding schools matter; that schools serve more of a purpose than just teaching kids how to pass a test. It will be a watershed moment in our country and our world that will change how we vote. I think there’s going to be a resurgence of the social capital of a teaching degree.”

Even as classrooms were shuttered, teachers offered online lesson plans and mapped out curricula for the fall. The administrators at the College of Education moved forward with their plans to refresh the longstanding programs and develop new initiatives, and seniors graduated from the College of Education. The college’s administration, faculty, and teachers offered their support and encouragement to the graduates as they embarked upon their essential career; each future teacher received (by mail, this year) a copy of the teacher’s creed that ends: *I am a teacher. I change the world one student at a time.* 

ANNIE BUCKLES (EDU’98, MS EDU’04), has taught first grade at Vinton Elementary in Lafayette, Indiana, for a decade.



A SEMESTER IN SEQUESTER

BY KAT BRAZ (LA'01, MS LA'19) // PHOTO BY REBECCA MCELHOE (LA'16)

AS THE COVID-19 CORONAVIRUS SPREAD AROUND the globe, university administration acted swiftly to minimize the threat to campus. Thousands of students moved out early. Social distancing and stay-home orders were implemented. Purdue held its first virtual commencement.

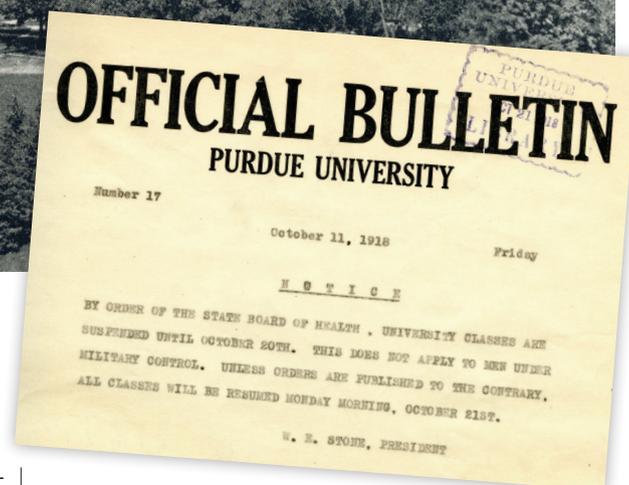
Meanwhile, alumni everywhere found ways to fight the pandemic and support their communities by working on the front lines, building ventilators, sewing masks, and spreading joy in troubling times.

In an April 21 video address to the Purdue community, President Mitch Daniels stated, "Whatever its

eventual components, a return-to-operations strategy is undergirded by a fundamental conviction that even a phenomenon as menacing as COVID-19 is one of the inevitable risks of life. Like most sudden and alarming developments, its dangers are graphic, expressed in tragic individual cases, and immediate; the costs of addressing it are less visible, more diffuse, and longer term. It is a huge and daunting problem, but the Purdue way has always been to tackle problems, not hide from them."

Read on for stories of hope and heroism that demonstrate how, despite facing a huge and daunting problem, Boilermakers remain resolute.





1918 INFLUENZA PANDEMIC

THE COVID-19 VIRUS UPENDED CAMPUS LIFE, RESULTING in stay-home orders, early move out, online courses, and shuttered academic buildings. But it's not the first time a pandemic interrupted university operations. In 1918, amid World War I, a flu pandemic forced similar closures and a suspension of classes. It also delayed the fall football season. Purdue played its first game on October 26 and finished the season November 30 with a 3–3 record.

John Hurty (HDR P'1888), founding head of Purdue's College of Pharmacy, was secretary of the Indiana State Board of Health in 1918. According to the *Indianapolis News*, on September 19, 1918, Hurty warned that the flu was "highly contagious" but stated that "quarantine is impractical." One week later, he offered this advice:

If all spitting would immediately cease, and if all coughers and sneezers would hold a cloth or paper handkerchief over their noses and mouths when coughing or sneezing, then influenza and coughs and colds would almost disappear. We also must not forget to tone up our physical health, for even a few and weak microbes may find lodgment in low toned bodies. To gain high physical tone, get plenty of sleep in a well ventilated bedroom. Don't worry, don't feast, don't hurry, don't fret. Look carefully after elimination. Eat only plain foods. Avoid riotous eating of flesh. Go slow on coffee and tea. Avoid alcohol in every form. Cut out all drugs and dopes ... Frown on public spit- ters and those who cough and sneeze in public without taking all precautions.

On October 11, when the epidemic was peaking in Indiana, the State Board of Health issued an order prohibiting large gatherings. At Purdue, classes were canceled from October 11 to October 30. All athletic events and club activities were also canceled, though military training exercises were required to carry on. Only a few weeks earlier, on October 1, Purdue

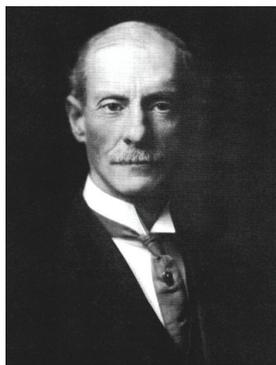
released an official bulletin requiring "all men students to assemble on Stuart Field promptly at 11:00 a.m. today to take part in the nation wide ceremony of inaugurating the Students' Army Training Corps." The *Purdue Exponent* suspended publication for the fall semester as "all the members of the staff have been either in the SATC here or in training campus elsewhere." In *Ever True: 150 Years of Giant Leaps at Purdue University*, author John Norberg writes:

The global influenza pandemic of 1918–1919, which infected about 500 million people worldwide and killed at least 50 million, also impacted Purdue, where 11 people died. In a 1918 Alumnus, editor George Ade reported: "Oct. 17 — the whole state is still under lock and key on account of the flu and Purdue is running on one cylinder. Oct. 18 — Further suspension of University classes announced by Dr. Stone (because of flu). Sad news received — Glossop, football captain in 1913, a fine athlete and popular fellow, dies at Camp Taylor of influenza."

George Everhard Glossop (ECE'1915) became athletic director at the University of Washington upon graduation. He entered the service May 15, 1918, and was sent to Camp Taylor, Kentucky, where he was an instructor in officers training school, field artillery. He died October 16, 1918.

The *Exponent* resumed publication January 6, 1919. In that issue, its student editors ran a column titled "Beginning Anew," which includes this excerpt:

It will be a hard uphill struggle to restore Purdue to her former normal status. We must not consider our personal selfish interests to the exclusion of the welfare of the student body as a whole. ... We have a great and worthy task before us. Let us all put our shoulders to the wheel and build a bigger and better Purdue.



JOHN HURTY (HDR P'1888) served on the Indiana State Board of Health from 1896 to 1921. He is regarded as the state's father of public health.

FACULTY PERSPECTIVES

Supported by the Innovative Learning team, Information Technology at Purdue, and the Center for Instructional Excellence, faculty transitioned 5,000 courses to an online format over two weeks. Classes resumed on March 23, following spring break, and students began attending virtually.



HONG TAN

Professor of Electrical & Computer Engineering

Hong Tan, professor of electrical and computer engineering, taught her first day of virtual classes in her slippers (right).

“It was an emotional journey to move my classes online. First, panic — how do I deliver lectures online and record it, too? Then, hopelessness — nothing worked. My tablet stylus needed a new battery, my microphone didn’t work with Webex, and I had no idea where the recorded lecture video lived on the cloud. With practice over spring break, things slowly but surely fell into place. By the first day of teaching from home, I looked forward to seeing my students again. I decided to dress up to get myself in the mood to teach. The online lecture went well, although I was nervous and soaked in sweat.

“The students have been incredible. Many told me that the lecture went fine, and they were able to follow the materials presented. They appreciated having access to the recorded video. Online office hours remain a challenge. I am used to looking at a student’s circuit diagrams and guiding them through calculations. This is difficult on Webex — something we must figure out together.”



JARRED BROOKE (A'12)

Wildlife Specialist for Department of Forestry & Natural Resources

The second half of Jarred Brooke’s (A’12) fire ecology class typically involves fieldwork. The wildlife specialist in the Department of Forestry and Natural Resources quickly adapted a rigorous four weeks in the field to an online environment.

“I put out a call on Twitter to all the people I know who work with prescribed fire, looking for anything I could use in class. I received resources from across the United States plus a few different countries. One benefit of going online is that I can break the material into smaller chunks and give quizzes to reinforce those concepts. This experience will change how I teach the course in the future. The online resources I’ve created will be used as supplemental material to the fieldwork and to better prepare students. More abstractly, this entire process made me think more critically about how to better put into words what happens during a prescribed burn and how we should be talking about it in the field.”

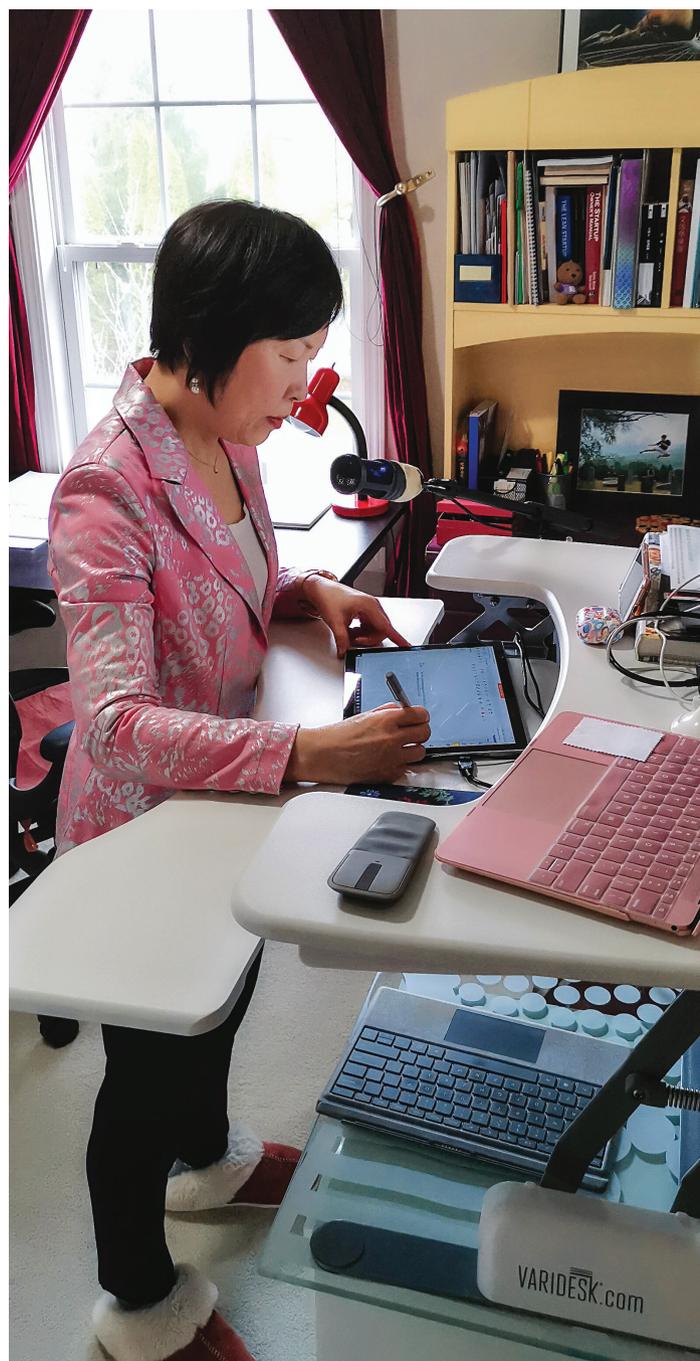


MARK ZIMPFER (MS T'16)

Assistant Professor of Practice in the Polytechnic Institute

Mark Zimpfer (MS T’16), assistant professor of practice in the Polytechnic Institute, says his initial feeling of panic quickly turned to excitement. He turned to home makeover shows to provide material for studying residential construction practices for his advanced pre-construction management course.

“It was a challenge. When you have 30 years in the construction industry, you can say, ‘OK, this is like a construction problem. We had a plan, it changed, so how are we going to react?’ There’s a massive quantity of instructional material available in these shows. It is excellent visual material, and it demonstrates construction around the world, both good and bad. I have students write down things they would do differently — code violations or safety violations. It’s a great tool to let the student watch a jobsite critically and pick things apart, to analyze.”



ALUMNI EFFORTS

COVID-19 SELF-TEST KIT

Santo Purnama, cofounder of Singapore-based biotech startup Sensing Self, developed a rapid COVID-19 self-test kit. The kit uses enzyme analysis to offer results in around 10 minutes, instead of using nostril swab tests, which take up to an hour.

“The war against COVID-19 is a war against time,” Purnama told e27.com. “Early detection of the COVID-19 virus can make a difference between life and death.”



ON ELECTION DAY

Charles Bruce (ECE'73) served as an election judge for the Illinois primary election on March 17. Although concerned friends and family encouraged him to bow out, Bruce fulfilled his obligation, albeit with additional precautions. He selected attire that would limit his skin exposure and packed an all-day supply of rubber gloves, face masks, and hand sanitizer.

“There were certainly times during the day — when a voter coughed loudly and the crowd scattered as if a firecracker had gone off — that made me question my wisdom for showing up to fulfill my duties as a judge,” Bruce says. “But I was encouraged by the surprising and uplifting frequency of people casting their ballot and then saying to me, ‘Be safe.’ ‘Stay healthy.’ And most notably, ‘Thank you for being here to allow me to cast my vote.’”



ON THE FRONT LINES

Margaret (Booher) Holtman (BS'15) posted on Instagram about life as an ER nurse during a pandemic. Holtman contracted the COVID-19 virus while treating patients. Her symptoms were mild, and once she recovered, she returned to work at Community Health Network in Indianapolis.

“I’m here for you,” Holtman told her Instagram followers. “I’ll answer your questions honestly. I’ll listen to your concerns, and I’ll be here at work, running full-speed toward this crisis. It’s real and it’s serious and we are fully aware of the physical and emotional injury we suffer for you. Because we love you.”

DONATE PPE

After seeing news reports about doctors and nurses reusing N95s, Deyu Kong (ME'14), system application engineer at NIO, founded the nonprofit DonatePPE.org to organize and distribute donations of personal protective equipment to healthcare providers in hotspots across the United States. In six weeks, the organization distributed more than 1.2 million articles of PPE.

“As the PPE supply chains recover in the US, we are now looking abroad to see how we can leverage the connections and partnerships we have built to help countries with fewer resources,” says Kong.



PHOTOS PROVIDED

GM AND VENTEC LIFE SYSTEMS

In just one month, a partnership between Ventec Life Systems and General Motors went from a phone call to delivering critical care ventilators to frontline medical professionals fighting COVID-19. GM manufacturing engineer Brian Zinser (M'14) typically develops automobiles at the company's Warren, Michigan, headquarters. As part of the team tasked to convert GM's Kokomo, Indiana, plant from producing cars to ventilators, Zinser helped design the assembly line for the ventilators and source the tooling necessary to construct them.

"The night that the first production unit came off the line it was around 2:00 a.m., and a lot of us had been there since 6:00 a.m. the day before," Zinser says. "Nobody wanted to leave. We were just waiting for it to get through that final test. In that moment, it was just relief. We did it. The entire plant cheered and celebrated. It was a cool moment for us to all realize we can do anything when we put our minds to it."



THE VENTILATOR PROJECT

The nonprofit Ventilator Project, launched March 20 by Boston-based entrepreneurs Tyler Mantel (ChE'13, ME'13) and Alex Frost, aims to address the projected shortfall of ventilators, life-saving devices critical to the fight against the global crisis. Three days after the project's founding, 15 engineers began working on designs for a simpler, cost-friendly ventilator specifically for COVID-19 patients. The project quickly grew to more than 200 remote volunteers helping in all areas of the business. The engineers iterated AIRA, the fourth prototype, within two weeks.

"A ventilator is not really a complicated mechanical design, but it is a very complicated supply chain problem to get 13 million out in a few months," Mantel told University of Cincinnati news. "The only people in the world that can rise to that sort of scale is startups."



CONTACT TRACING SOFTWARE

Kokomo Solutions, founded by Daniel Lee (ECE'97), developed a cloud-based technology designed to help improve school safety by proactively tackling mental health concerns, bullying, and other public safety issues with a predictive analysis powered by an artificial intelligence model. The company repurposed the technology to help organizations and communities collect, track, and manage COVID-19 cases with contact tracing features.

"I have always felt good about helping schools with public safety, and now I'm excited for the opportunity to use this technology during the current pandemic," Lee says.

MASKS FOR THE FRONTLINE

With frontline health care workers facing a widespread mask shortage, Northwest Interiors switched from making curtains and bedding for the RV industry to sewing masks. Reid Mellott (M'99), a partner at the company, began looking for patterns online.

"We made some prototypes and, in fact, my 11-year-old daughter sewed a prototype for us at home on her machine," Mellott told RVBusiness. "That ended up being the one we're using." With the RV industry facing an uncertain future, the pivot to producing PPE keeps the Wakarusa, Indiana, factory rolling. "Everybody's shut down, but we've been called to action. It's almost like a wartime feel. We've got a lot of good, positive vibes going on."



A COMMUNITY EFFORT

Sarah Corwin, a doctoral candidate and graduate research assistant in food science, joined a community-wide effort to sew masks to donate to Greater Lafayette health care workers.

"As a clinical dietitian, I am fortunate that I don't have to go on site currently," Corwin says. "But previously I worked in a nursing home, and you need a dietitian on site per state law. It's not just people in hospitals who need PPE; it's health care workers everywhere. They hold up the American people. And we need to hold them up."

PHOTOS PROVIDED

INSIDE AN ER

Michael McGee (BS'92) is the chief and medical director for the emergency medicine departments at Methodist Hospitals in Gary and Merrillville, Indiana. He also owns and practices at Premier Urgent Care Clinic in south Chicago. He is a member of the health and wellness committee and chair of the COVID-19 committee for 100 Black Men of Chicago.



MICHAEL MCGEE POSES for a photo in support of the Mask On, Violence Out challenge promoted by Project Outreach and Prevention (POP) on Youth Violence, a nonprofit McGee cofounded. McGee pledged Kappa Alpha Psi at Purdue and gestures the fraternity's hand sign.

INITIALLY, WE WERE SEEING OUR REGULAR PATIENTS. Then, around the middle part of March, people started to come in with unexplained fevers, coughs, and flu-like symptoms but were testing negative for the flu. Even in December and January, we had people coming in with these symptoms, and we were like, "Man, I can't believe that person was negative for influenza." Because they had all the symptoms — fever, chills, body aches. We didn't even think about it until later that those patients could have had COVID-19.

WE STARTED HAVING MORE AND MORE people come in with respiratory distress. The first thing you do is get a chest X-ray. People were having bilateral pneumonia, which is not very common. That's characteristic of COVID-19 — ground-glass appearance. At first, we didn't have the literature for proper treatment. We were intubating people and putting them on ventilators. We learned later that's the worst thing to do. You do not want to intubate if you can help it because COVID-19 damages the lungs so severely it's hard to get a patient off a ventilator.

IN EARLY MARCH, I WAS EXPOSED to several people, both patients and coworkers, who tested positive for COVID-19. Then I began developing bronchitis symptoms. Stay-home orders hadn't even started yet. At that time, it was taking my hospital 10 days to get test results back. I didn't want to wait. I went to three different places, waiting for hours before I was told they ran out of tests. I ended up going to Chicago, North Shore. Even though I'm an ER doc who had high exposure, I waited four hours to be tested. It came back negative two days later, which was beautiful.

WE USE ONE N95 MASK A DAY, and we cover it with a surgical mask. Standard protocol would be to throw away your N95 after every use. Typically, use of N95s is rare — only if you suspected tuberculosis. So our stock was never that high. You throw in the fact that prices for N95s have escalated because hoarders bought them up and are selling them to make a profit. Hospitals are at a disadvantage. Everything was on back order from China. You've got a demand for equipment that is now extremely expensive. And you're seeing fewer patients because nonessential surgeries and procedures are being canceled, and that's how you make your money. You have to look at it from a hospital administrative standpoint. These things can make hospitals go out of business.

I BOUGHT MY OWN WELDER'S MASK. I wear that when I go into high COVID-19 patient rooms. From a patient standpoint, it's terrifying to be in that room, not knowing what direction you're going towards — living or dying. You can't see your family or friends. Now you can't see the face of the person taking care of you. It's our nursing staff who are most at risk. They are the ones who administer swab tests and medicines. They have much more contact with patients.

COVID-19 IS AS SCARY AS YOU CAN SEE. It's affecting people psychologically. People are concerned about their family, about spreading it to others. It's depressing when you see all these people dying. Workers on the frontline don't want to be around our families because we're afraid of exposing them. I stay in the basement, away from my family, because I don't want them to get infected.

EVERY SO OFTEN, WHEN I'M SLEEPING, I wake up sweating because I just had a dream that I'm surrounded by COVID-19 and I can't breathe. I wake up like I'm suffocating. I'm not stressing about it because I am wearing the proper PPE, but my subconscious won't let me relax enough to get good sleep.

PHOTO PROVIDED



VIROLOGY RESEARCHER DEVIKA SIROHI (PhD S'16) works in a laboratory in the Purdue Institute of Inflammation, Immunology and Infectious Disease (P4ID).

BATTLING THE PANDEMIC

The University launched more than 30 research projects to understand, prevent, treat, and overcome the COVID-19 pandemic.

THERESA MAYER, EXECUTIVE VICE PRESIDENT FOR research and partnerships, says research on aspects of the pandemic began in early 2020.

“Many of our scientists and engineers began shifting their work to the novel coronavirus soon after it first became known, even before the first scientific articles about the virus were published in early February,” Mayer says. “Our faculty members have responded with urgency and energy to address this global pandemic.”

The research being conducted at the University falls into these general categories: understanding the virus and improving scientific methods; development of diagnostic tools; development of therapeutics; and improving current medical supplies.

In an effort to provide more personal protective equipment to area hospitals, faculty, staff, and students manufactured PPE for health care workers across Indiana. Using test-bed manufacturing facilities at the University, they pro-



duced safety glasses, face shields, disposable connectors for ventilators, and N95 masks that can be easily disinfected.

Purdue was also one of the first universities in the US to conduct COVID-19 testing. The Animal Disease Diagnostic Laboratory in the College of Veterinary Medicine partnered with regional hospitals to conduct COVID-19 tests for human patients, reducing testing backlogs by returning results within 24 hours.

Once the Food and Drug Administration gave temporary authorization for pharmacies to compound hand sanitizer due to an inadequate supply in the market and health care system, the College of Pharmacy began producing it. The sanitizer is available for purchase at the Pharmacy Building.

“Although frequent handwashing with soap and water is recommended to lessen the spread of the coronavirus, there are times when it is not readily available,” says Nicole Noel (DP’08), director of the Purdue University Pharmacy. “We will continue to make more hand sanitizer for as long as there is a need in our community, and we continue to source supplies necessary to compound it.”



FROM TOP: TED SCHELLENBERGER; MARK SIMONS; WLF1

COMMENCEMENT ON DEMAND

AFTER ANNOUNCING PURDUE'S FIRST VIRTUAL commencement, the Office of the Registrar pivoted to mail a "commencement in a box" to Purdue's 7,500 May graduates. The personalized keepsake boxes — assembled in the Armory within one week — contained a diploma holder, commencement program, earned honor cords and medals, Boilermaker memorabilia, and a flyer on how to download materials for commencement, which graduates could watch on demand with their families.

"The entire Purdue community rose to the challenge to make our 2020 commencement ceremony memorable and meaningful for all graduating Boilermakers — even if it must be virtual because of these extraordinary times," says Chris Pass, senior assistant registrar for academic records, commencement, and graduation. "We want to acknowledge our students' persistence and accomplishments and that their achievement deserves a proper celebration."



LOSSES & GAINS

The sudden transition to online learning, cancellation of campus events, and closure of academic buildings due to COVID-19 brought the spring 2020 semester to a standstill.

FOR MEMBERS OF THE CLASS OF 2020, THAT ABRUPT ending meant no more late nights cramming with friends. No more Thursday nights at the piano bar. No March Madness. No Grand Prix. No walking across the stage at Elliott Hall of Music to receive a hard-earned diploma.

For students experiencing the sudden loss of community and missing out on milestone

celebrations such as commencement, grief can manifest in myriad ways. Grief is not specific to death, says Heather Servaty-Seib, a professor in counseling psychology in the College of Education who researches loss and grief experiences in both death and nondeath situations. As associate dean for student life in the Honors College, Servaty-Seib established an online forum for students to share thoughts and feelings during the COVID-19 pandemic.

"I've been quite impressed with their ability to see the situation in its complexity," Servaty-Seib says. "There are absolutely elements of loss that they recognize and acknowledge, and they have some sense that others may not recognize and acknowledge."

Psychologists use the term *disenfranchised grief* to describe situations where individuals experience grief that stems from losses not acknowledged by society. People who graduated 20 years ago who are now in a different

life stage may look back on their commencement as just a day or just a diploma, but for graduating students deprived of that rite of passage, it's not unusual to mourn the loss of public recognition for their achievements.

The challenge, Servaty-Seib says, is that humans tend to dichotomize, viewing experiences or life events as wholly desirable or wholly undesirable. Through sensemaking, people give meaning to a collective experience, such as living through a pandemic. That could include the recognition of gains, such as more time spent with family or an improved sleep schedule. The gains can be there, but they don't take away from the losses.

"We have to hold the complexity of this time," Servaty-Seib says. "We have to allow ourselves and others the patience and the kindness to know that it's going to oscillate back and forth from a sensitivity to the losses to this realization and gratitude for some of the gains."



TAILGATE SQUAD

ANDY (ME'86) AND BETSY EIBLING (NRS'87) HAVE FOND memories of walking across the stage at Elliott Hall of Music to receive their diplomas. They watched proudly as their eldest two children graduated in recent years. They looked forward to celebrating their youngest's graduation this year, too. With Purdue's announcement that the May 2020 commencement exercises would be held virtually, the Eiblings decided to share their Boilermaker spirit with graduates. They spent an afternoon in May driving their Boiler Tailgate Squad truck — a retired ambulance outfitted for tailgating at Ross-Ade Stadium — around Zionsville, Indiana, to celebrate seniors.

"We wanted to pay it forward and do something special for the graduates who can't walk at commencement this year," Betsy says. "Our truck has a Facebook page, so we posted a message asking families to contact us if they wanted us to stop."

The day before their drive, the Eiblings traveled to West Lafayette for their first destination — the house where their graduating senior, Brock (T'20), lives with three fraternity brothers. The couple also stopped at the bookstore to purchase Purdue alumni T-shirts to pass out to the nine families they were scheduled to visit the following day.

"We didn't know what to expect," Andy says. "We turned the corner headed to the first house, with 'Hail Purdue' playing on our speakers, and there was the graduate in his cap and gown, surrounded by about 25 people in the driveway. They turned our visit into a mini celebration. Everyone was so appreciative."



THE PLAN TO RETURN TO CAMPUS

Purdue University's Board of Trustees on May 26 approved several measures designed to prepare the University to return to on-campus instruction while placing protection of the people of Purdue at the highest priority.

- To de-densify learning spaces on campus. Classroom occupancy will be reduced by approximately 50%, and large-classroom occupancy will be limited to 150 students. The space between instructor and student will be a minimum of 10 feet, and mobile plexiglass barriers will be available for additional protection.
- To de-densify living spaces on campus, ensuring that each residential space meets the following requirements: square footage per person will meet or exceed 113 square feet, allowing for a radius of 6 feet per person, or while sleeping, a separation of at least 10 feet head-to-head.
- To implement more frequent and intensive practices for disinfecting facilities, including the mobilization of existing staff and the hiring of additional staff as needed.
- To adopt a definitional framework for identifying those most vulnerable in the campus community and, thus, at greater risk of serious illness from COVID-19, and to implement a process for making individual accommodations for those for whom it is medically appropriate.
- To adopt a fall 2020 academic calendar with on-campus classroom instruction from August 24 to November 24 (without customary university holidays and fall breaks) and the balance of the semester to be completed thereafter by remote means.
- To ratify the Protect Purdue Pledge, which includes several specific commitments from individuals to, among other items:
 - Monitor for the symptoms of COVID-19, including daily temperature check and staying home if ill.
 - Wash hands often and get vaccinated for the seasonal flu.
 - Maintain social distancing and wear appropriate protective gear.
 - Keep clothing, belongings and personal and common spaces clean.

In support of preparations to open campus, the University has launched the Protect Purdue initiative. Gifts to the fund will go toward areas of greatest need across campus, enabling campus leaders to move nimbly to address a range of anticipated and unanticipated needs.

Donate now at giving.purdue.edu/alumnus.

FROM TOP: PURDUE UNIVERSITY; PHOTO PROVIDED



EXPONENT EDITORS GATHERED in the newsroom twice a week after spring break to publish print editions. Back row from left: Adrian Gaeta, graphics editor; Lauren Zajac, assistant photo editor; Alex Weliever, managing editor; Joe Duhownik, assistant sports editor; and Jordan Smith, city editor. Seated in front are Alisa Reynya, editor-in-chief (left) and Eleanor Coffin, copy and design editor. Photo by Victoria Cross, photo editor.

ON THE BEAT

The Purdue Exponent suspended publication only once in its 131-year history — in fall 1918 at the tail end of World War I. When thousands of students left campus in March, stalwart Exponent journalists remained. Editor-in-chief Alisa Reynya, a junior in the College of Liberal Arts and a native of Redmond, Washington, shares a glimpse inside the student-run newsroom during the COVID-19 pandemic.

I FEEL REALLY LUCKY THAT WE'VE BEEN ABLE TO PUBLISH A print edition the past few months even as our advertising revenue has plummeted. But to be honest, it never occurred to me that we wouldn't continue to report news in one form or another. As more emails came out telling us classes would be online for the rest of the semester, then asking students to leave residence halls, we were left with so many questions. We knew that if we had questions, other people on campus probably did too. Meanwhile, alumni and others outside campus were curious to know what it was like as Purdue transitioned to — completely online classes.

The seven editors remaining on campus came in to the office to put out the paper twice a week. Some of our student staff worked remotely. We wrote stories about international students who are stuck on campus for the foreseeable future; students whose internships have been canceled; professors adapting to online learning; a student suing Purdue for a refund for online learning; service staff members' concerns about safety as they disinfect the University; how area businesses have struggled as students flooded out of West Lafayette; and more.

I think in the back of our minds we all knew we were reporting on things that had never happened at Purdue before. So even though most of our staff didn't come back to campus after spring break, it felt more important than ever to publish accurate news as quickly as possible. If there's one thing I've learned being a student journalist during a pandemic, it's that people need reliable local news now more than ever. We don't yet know what the college or media landscape will look like in the fall, but I know we'll continue working as we struggle through this collective uncertainty we've all been thrown into.

GLOBAL IMPACT

ALEJANDRO RECA (MS A'91, PHD A'96)
Buenos Aires, Argentina

The COVID-19 pandemic took the world by surprise, and Argentina was no exception. While the government waited until March 19 to establish a formal lockdown, the private sector was already taking measures. My company, San Ignacio, began developing COVID-19 protocols in mid-January. We have coordinated all paperwork movement associated with the company to have my home as the HQ and have a strict hygiene protocol for all arriving items. I am the only one in my family who has stepped foot outside our home. Two close friends have died from the virus. Thus, for me, COVID-19 has actual faces. I belong to a group of business owners who are planning for Argentina's society in a post COVID-19 framework. The pandemic showed how weak and vulnerable we are and has been a big-time call for humankind humbleness. It is a big opportunity for change and should be taken as such.

ANDREAS DEWALD (MS T'18)
Stuttgart, Germany

I participated in a German-wide initiative to play "Ode to Joy" every Sunday at 6:00 p.m. Our local orchestra took our instruments and walked to where we knew elderly people were living and played in front of their window (we always kept our distance!). It started small, but by Easter Sunday we were several groups of musicians playing songs in front of the retirement home, around the church, and in front of senior citizens' homes. Music is something that is understood universally and brings people together to have a joint experience whether you play the music or listen to it. It was really wonderful to feel this kind of community and bond between the generations and to bring joy in times of uncertainty.





FAR FROM HOME

OF THE 14,000 STUDENTS LIVING IN UNIVERSITY RESIDENCES at the start of the semester, about 1,200 remained in campus housing after students were encouraged to move home if possible in March. Travel restrictions, fears of not being allowed back in the US, or concerns over using mass transit during the outbreak left Purdue's large international population in a lurch.

RUIJI SUN, a doctoral candidate in the Purdue Polytechnic Institute, returned to West Lafayette in December after visiting her family in China.

"My hometown is a small city by the sea in northeastern China. I heard faint rumors about the novel coronavirus before I left China. However, the situation wasn't that bad until I was back in the states. I was deeply shocked and followed the epidemic in China closely, both via news and my friends, as I went to college in a city very close to Wuhan. As for my family, my concerns for them were very minimal. There weren't many cases in north China. Most of the cases in China were concentrated near Wuhan, unlike the widespread situation here in the US. Most of China was under lockdown, and so was my city.

"From battling SARS in 2002, the Chinese government has experience managing a pandemic, and people there have awareness of airborne-transmitted diseases. China was able to quickly stifle the spread of the virus through a firm lockdown countrywide. Following spreading of the virus to Europe and the United States, I was shocked by the

indifference some people and media exhibited at the beginning of the pandemic. I do believe in the effectiveness of the lockdown and quarantine. And before we develop a vaccine, no one should let their guard down."

ADRIEN BERNARDINIS, a limited-term lecturer in the School of Languages and Cultures, struggled with the decision on whether to return to France. He flew home April 10.

"When it reached Italy, a wave of panic came toward my family because they live close to Italy. They started to feel the effects of mass hysteria. Then it got worse, and the French government decided to call back as many French citizens as possible. At that point, I thought I still couldn't go home, but my mom — who is a nurse — was in a panic and messaging me three, four times a day because she was getting worried. She started sending me all these messages and calling me and telling me that things were bad.

"It really was hard finding a way to go home. Just finding a plane flying from the US to Europe was hard. In 30 minutes, three flights I booked were canceled. I had 20 hours of travel — 10 hours in a plane and seven hours in a train — with strangers who might be infected. I wasn't worried I might die, but I didn't want to carry the virus and infect someone else. But I didn't really have a choice. I could stay here and keep working like nothing's happened or go home in case things got worse. The thing is, it got worse in the US pretty fast, so I didn't feel safe there anymore." 📧

APPROXIMATELY 12,800 STUDENTS moved out of University Residences in March. The 1,200 students who remained were consolidated into four halls with minimally shared bathrooms: Hillenbrand, Cary, Third Street, and Honors College. While some dining services remained open in limited capacity, offerings were carryout only in line with Indiana's stay-home order. Students waited in line to enter Wiley Dining Hall, standing six feet apart.

FROM LEFT: VICTORIA CROSS; PHOTO PROVIDED: JOHN UNDERWOOD

IN THEIR WORDS

Reflections from the Class of 2020

COMPILED BY KAT BRAZ (LA'01, MS LA'19)



We asked the Class of 2020 to look back on their time at Purdue and share what it feels like to graduate against the backdrop of the COVID-19 pandemic. Like most graduates, their responses were tinged with nostalgia. This isn't the ending to their college years that they'd imagined. Though they were deprived of the opportunity to participate in shared senior-year experiences such as the conferring of their degrees at commencement, they are not devoid of hope. Instead, they offer words of encouragement and examples of resilience to inspire us all.



▲ Before everyone left campus, my friends and I wanted to celebrate our graduation. We made our own caps, gowns, and stoles out of garbage bags and paper. It helped us make the most out of the situation. I've just been focusing on all the positives, staying in touch with my fellow Boilermakers and trying to enjoy as much of the spring weather as possible. It's definitely been a trying and emotional time, but I know that I can get through it, and so can the rest of the Boilermaker family. Just gotta keep chugging on!

—**Chloe Brengman (HHS'20)**, Cleveland, Ohio

I had been counting down the years to when I would graduate college since I was in first grade. Sure, I am upset that I'm missing my last Grand Prix week and one last Breakfast Club. I will miss the opportunity to build a physical prototype with senior design and to say thank you to my professors in person, but the time with my family has been a bless-

ing during this period of uncertainty and fear.

—**Teresa Mair (ME'20)**, Fairview, Texas

The last eight weeks of senior year would have been spent celebrating Ag Week, Grand Prix, playing cards with friends on the weekends, taking the coveted Purdue golf class, and studying — of course, not in that order. Walks to class are now spent sitting in Zoom waiting rooms. Thursday nights gathered around an old wooden table with friends singing along to the Piano Man are now spent in the comfort of my family's living room. And what was supposed to be an exciting Ag Week celebration on campus was transformed into a virtual experience. We are Boilermakers. We'll get through this, together and better.

—**Dane Chapman (A'20)**, Brookston, Indiana



▲ My family's farming operation in northern Indiana has seen the impact of the COVID-19 pandemic firsthand. With over 15,000 hogs to

care for and a highly disrupted supply chain with limited markets, the uncertainty from day to day has created a larger demand in needed labor at home and an unfamiliar schedule. Most mornings begin at 6:00 a.m. with coffee and an hour of school work. From then on, it's out to care for crops, livestock, and equipment. Once the day ends at 7:00 p.m., it's back into the house to finish any academic projects that need tending. Amidst this pandemic, I've developed character, a continued love for learning, and adaptability amongst change. I have witnessed communities come together to further a common cause, businesses alter their original operations to make it by financially, and the American farmer continue to feed our people. Because of Purdue, I am entering the ag industry better equipped to solve the world's problems, produce a high-quality food product, and make things better than I found them.

—**Zebidiah Davis (A'20)**, Reynolds, Indiana

Coming from a school of 120 kids, I was horrified when I arrived at Earhart Hall four years ago. I was astonished by the sheer amount of people, and I was worried I wouldn't fit in. I wish I could see then where I am now. I'd tell that kid how the grass in Ross-Ade feels on a cool October night moments after a historic upset. I'd tell him what overtime in the streets of downtown Louisville feels like, having your heart ripped out only seconds away from the Final Four. I'd tell him how clear the waters are in Honduras and how crisp the air feels on a morning jog on the boardwalk in Miami. I'd mention how loud the engines roar in Daytona and how sweet a mint julep tastes at Churchill

BELLA GARZA: PHOTOS PROVIDED

Downs. I have no regrets or bitterness over the way things ended. This school gave me more opportunities in four years than many people have in a lifetime. I'm not sure what will happen next, but there's one thing I know for sure — West Lafayette will always be home to me.

—**Cole Burke (CE'20)**, Jacksonville, Illinois

All of my memories seem like the longest and most fun slide show that starts the day I committed to Purdue in my living room in Guatemala, and ends with an online commencement ceremony, watched from the same living room where it all started four years ago. Ending this awesome experience in the middle of a pandemic has been hard. Nevertheless, I feel like part of being a Boilermaker is to be hardworking and to never give up, so I am using this time to think about the future and to be productive. I leave with no regrets and nothing but love for everything Purdue gave me because I am the person I am today thanks to my time here. If I could, I would restart and do it all over again, because it was THAT good.

—**Fernando Franco (HHS'20)**, Antigua, Guatemala



▲ I started my journey in the fall of 2015 and found a family early on with Purdue Bands and Orchestras. As a saxophone player in the "All-American" Marching Band, I performed for hundreds of thousands of football fans over the course of the past five years. My senior year, I had the amazing opportunity to lead the band as one of the drum majors for the 2019–20 season. This, in every sense of the word, was a dream come true. Beyond band, my experience at Purdue has been highlighted with the time I spent in GEARE (Global Engineering Alliance for Research and

Education). Traveling the world to learn of the importance of cultural competency through academic and professional experience is something that I will not soon forget. Thank you to anyone who ever put a smile on my face, stayed up all night working on homework, or joined my road trip squads. I love you all.

—**Brendan Schultz (ME'20)**, Brighton, Michigan



▲ As immigrants, my parents listened in wonder as I described elements of my college experience — springtime hammock season, new campus constructions, and college bar culture, to name a few. I viewed graduation as my opportunity to share a snapshot of the past four years with them. The fulfillment of walking across the stage and bookending a formative journey with friends and family disappeared overnight. The Class of 2020 is entering a world filled with uncomfortable uncertainty. Despite this, I remind myself that a heartbreaking seven weeks doesn't undermine the other 3.5 years of growth and memories.

—**Megan Lim (ChE'20)**, Portland, Oregon

Every semester before school starts, I write notes to myself in my planner for the upcoming weeks of school. I've been doing this over the past four years, and it always brought with it the excitement of what was upcoming. This week, surrounded by all the boxes I brought with me when I moved back home, I opened my planner to read, "Embrace Uncertainty." I laughed realizing how I could have never imagined this was the uncertainty I had to embrace when I initially wrote that. It was a bittersweet moment that made me realize how this is not a setback, but a push forward.

—**Allison Cattin (HHS'20)**, Fort Wayne, Indiana

I cannot go home because of lockdowns imposed in an effort to contain the virus. Everyone has fought their own individual battle to manage their classes and their emotional and physical health during these uncertain times. The job market is uncertain; nobody is recruiting; people have lost their jobs. We may not be where we expected to be after graduation, but we will endure hard times after this crisis. Do not lose hope, stay positive, stay active, and remember that hard times don't last, but tough people like Boilermakers always do!

—**Fernando Herrera Tamacas (T'20)**, San Salvador, El Salvador



▲ It's easy to feel robbed of the milestone celebrations and of all the little moments that make up the end of senior year from banquets and bar crawls to capstone presentations and Grand Prix celebrations. I was prepared to leave after graduation, but having to say goodbye so abruptly to the place where so many of us have grown into the individuals we are today and the chapter of our lives that we never wish would end was difficult. Dreams of moving to new cities to embark on the next chapter of pursuing graduate studies or new careers have been put on hold indefinitely. After years of hard work in pursuit of my degree, the question of "What's next?" brings on a level of heightened anxiety. As I join into a family of proud Boilermaker alumni, I realize a few things — the Boilermaker mentality never leaves you and that the pursuit to make the next giant leap will never be over. Purdue changed my life; I would do it all again in a heartbeat.

—**Simran Verma (LA'20)**, Princeton, New Jersey

The **GENDERED BATHROOM**

Documentary photo series featuring
campus bathrooms explores issues of
privilege and discrimination in public spaces.

BY KAT BRAZ (LA'01, MS LA'19)
PHOTOS BY HOPE KELHAM (LA'20)



There are thousands of bathrooms on campus. More than most students will ever see. More than most students will ever need. But for some, heading for the nearest restroom can be daunting and uncomfortable when the space feels unwelcoming to them.

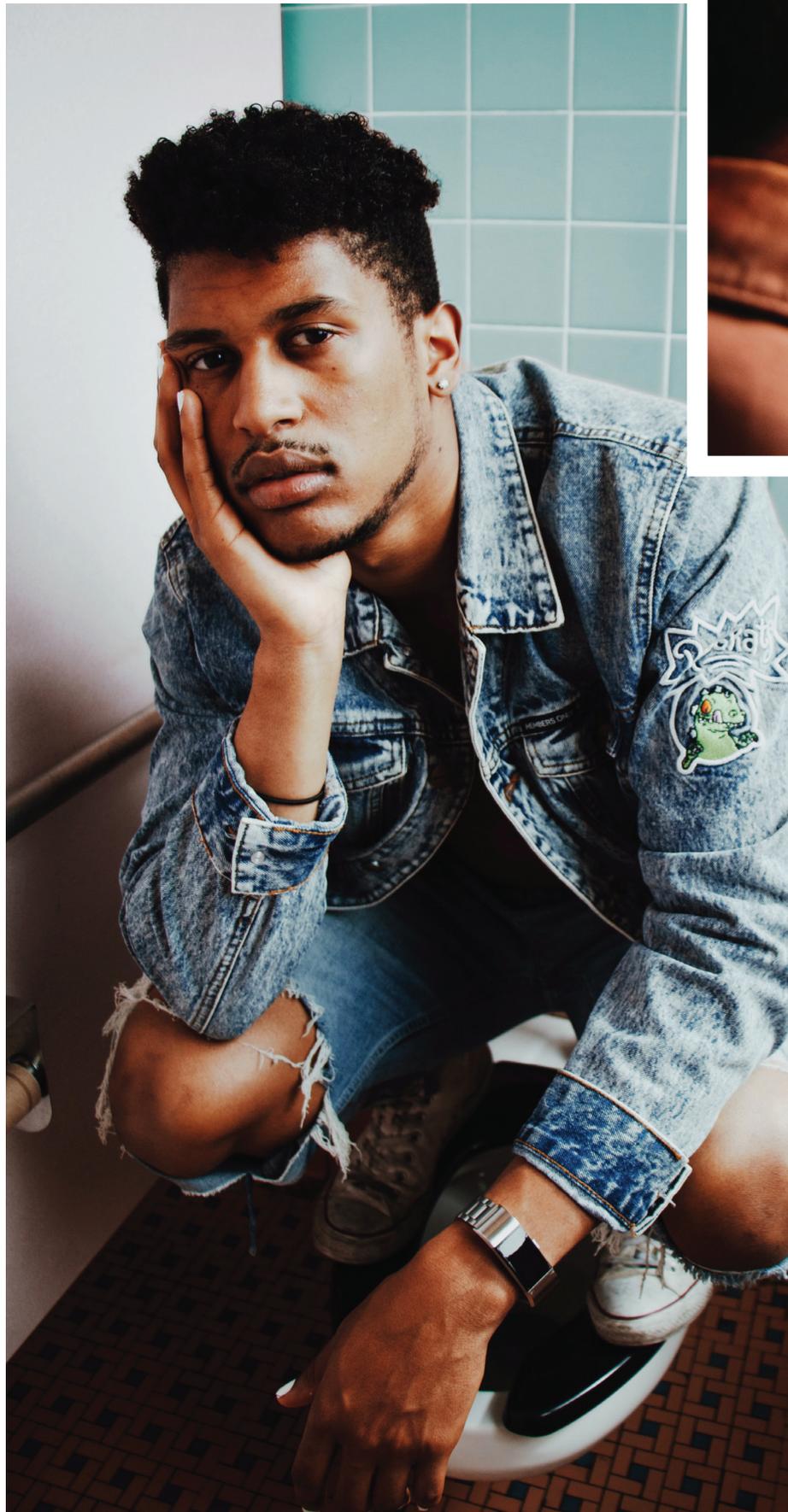
IT'S A TOPIC HOPE KELHAM (LA'20) — A TRIPLE MAJOR IN women's, gender, and sexuality studies; photography and related media; and creative writing — covered in a recent photo series. The project stemmed from a class assignment. The course, documentary photography, explores various styles, such as environmentalism, social issues, and personal documentary. For her final class project, Kelham chose to depict a social issue that resonated with her studies on gender and sexuality.

"I realized that gender, specifically bathrooms, and the privilege of who can and cannot use a certain restroom, was at the forefront of what I wanted to cover," she says. "I specifically wanted to do bathrooms because when you talk about gender spaces, there are so many, but bathrooms are so prevalent. That's how I started thinking about this project. It began for a class as a three-week, but I continued it a bit into the following summer."

Kelham's series "The Gendered Bathroom" won first prize in the photo category at the Undergrad Art and Design Exhibition held by Purdue Galleries in February. In the exhibition, her work was displayed in a series of small-scale triptychs.

"Online, you can make it any size you want to," Kelham says. "But for the exhibition, I wanted the images to be tiny and something you had to really get up close and personal with since this is such a personal topic."

For this series, it was important to Kelham to use models who were also members of the LGBTQ community who may have experienced harassment, judgment, microag-





gression, and even violence because of sexuality or gender. All but one of the models are Purdue students. All of the bathrooms featured in the series are on campus. Kelham and her models ventured out together, scouting spaces that conveyed a strong visual aesthetic.

"I think I spent an entire Saturday just going from building to building trying to politely look into bathrooms," Kelham says. For the men's restrooms, Kelham brought a male friend with her to scout. "It was interesting in that sense to work on a project talking about gender, but then I also felt uncomfortable entering these spaces."

Through her work, Kelham asks others to think about their privilege, but the process led to her own reflections about gender and privilege and questioning why she felt uncomfortable. Which is something she's thought about a lot.

"IF SOMEONE FEELS UNCOMFORTABLE BY THESE IMAGES, I HOPE IT MAKES THEM QUESTION WHY THEY'RE UNCOMFORTABLE."

"I still don't think I have a good answer yet," Kelham says. "But I definitely realized what it feels like to feel uncomfortable in a space and not know why. Or feeling uncomfortable in a space and realizing I shouldn't be uncomfortable. It really helps you to see someone else's perspective."

Working with her models, Kelham offered them a choice of what type of restroom they would feel comfortable posing in and asked them to push the norms of masculine- and feminine-presenting clothing and posturing.

"I definitely wanted it to be their choice," Kelham says. "This is a project where I didn't want to be behind the camera controlling everything. So I just asked what they would feel comfortable doing. I didn't want to force anyone to do anything they didn't want to do because that's completely opposite of what this project is about."

Kelham and her models talked a lot about unnecessary binaries before the shoot — including how much privilege people have or do not have in the spaces they enter. By asking models to dress in outfits that pushed the ideas of what





is feminine or what is masculine, the series more broadly explores how perceived gender and clothing preferences alter how a body can move freely in the setting of a bathroom.

In one setting, a woman dressed in traditionally masculine-presenting attire physically dominates a bubblegum pink bathroom, taking up as much space as possible, controlling the space with her body. In another, a recently transitioned woman chose to apply makeup in the mirror

“These photographs are trying to talk about how no one, regardless of appearance, sexuality, or gender, should be discriminated against or harassed,” Kelham says. “Bathrooms shouldn’t have to be gendered spaces, but instead, safe and intimate spaces. All we should be concerned about when we use the restroom is how long we wash our hands.”

Although Kelham only encountered one nonbinary restroom in her explorations, there are approximately 150 buildings with gender-inclusive restrooms across campus. The Lesbian, Gay, Bisexual, Transgender, and Queer Center maintains a list on its website that is also accessible through the Refuge Restroom app.

Kelham participated in virtual graduation in May with her Class of 2020 peers. This fall, she begins her MFA in creative writing at Boise State, where she will study poetry.

As for her photography work, Kelham hopes she inspires others to recognize their own privilege.

“There is a lot of anxiety when it comes to public restrooms and the fear of harassment,” Kelham says. “I don’t expect my photographs to change anyone’s perspective, but I can hope that they at least start some sort of conversation where everyone’s perspectives are respected. If someone feels uncomfortable by these images, I hope it makes them question why they’re uncomfortable. That’s all I could ask for in a photo series.”

See more of Kelham’s work at hopekelham.com. 

Editor’s note: The original version of this story misstated the number of gender-inclusive restrooms on campus. The information has been corrected in this version.

Shortly after this issue went to press, Purdue was named one of the nation’s top 20 best colleges for LGBTQ+ students by BestColleges, in partnership with Campus Pride. The rankings recognize schools that have established the highest standards for inclusive environments while maintaining strong academic programs. Purdue also claimed the No. 1 spot among Indiana schools.

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THE DEBRIS

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PURDUE SCHOOL OF NURSING

Students from Purdue's first nursing class displayed the caps they received upon graduating. Fashioned after Purdue Pete's square lid, the caps were edged in gold and black stripes. Kathleen Phillips, Carolyn Schneck, Lonna Gunning, and Vicki Hartman earned associate degrees in 1965.





COURTESY OF BRAD RUDER

UNDER CONSTRUCTION

Humanism in Building

IN HIGH SCHOOL, BRAD RUDER (T'93) CAREFULLY researched college options across the country from his New Jersey home and chose Purdue for its outstanding construction engineering and management program. Building was his first love, and he wanted curriculum that covered all aspects of the construction process. Little did he know then that his life's work would also include building communities and better lives for people.

Ruder's path started on the corporate side, shaping big arenas and skyscrapers. As he oversaw construction of clients' day-care centers, something started to click — he loved knowing the end users would be kids in a safe place. Ruder was also being promoted, often spending more time making deals in conference rooms than being on job sites. It was time for a change.

Ruder took a leap to start his own company, Brad-Core, in his home area of Bergen County, New Jersey. He began

learning the ins and outs of business ownership and also about his community. "I realized this was the first time I worked on projects where I lived, so I really got immersed in my town," Ruder says. His office was situated in a local mall, and the idea hit him that a glass-walled space next to his own would be the perfect spot for elderly outreach.

"I have always had an affinity for senior citizens, and as I worked in the community, it was easy to see seniors needed their own spot," Ruder says. Senior Source was born, giving local seniors a no-cost place to engage, hang out, and socialize. "Senior citizens are people, just older, and being a senior isn't a disease!" Ruder asserts. "They don't just want bingo." This mindset is illustrated in Senior Source's programming, with classes ranging from drawing to belly dancing instruction, birthday parties for those 100 years young, and professional presentations on vital medical, health, and insurance issues of the day — all provided for free. "This is their living room," Ruder explains.



IN FEBRUARY, BRAD Ruder, left, received the Community Partnership Award from SINAI Schools in recognition of his commitment to those in need in northern New Jersey.

SERVICE

Now in its 11th year of operation, the center has an executive director and several part-time staff. In the early days, Ruder oversaw all operations; his construction crews pitched in, opening the mall space and hanging out with the seniors.

Interacting with the elderly opened Ruder's eyes to their lives, driving him to address needs that might be hidden. "I've seen firsthand how scary and lonely it can be for an 80-year-old living without local family, wanting to stay in their own home but unable to keep it up," Ruder says. "I'd send a guy out to fix a roof leak that should take 40 minutes, and he'd be gone three hours. I'd ask what took so long and learn that the homeowner had invited him in as he finished up." He laughs at the visual of a big bulky guy saying, "What was I supposed to do? Of course, I sat down for tea and cookies."

These types of moments inspired Ruder to develop a membership-based concierge service for Brad-Core. The unique program is a single-point-of-contact solution to address all design, construction, and maintenance needs for both commercial and residential clients. It is ideal for health-care facilities and families caring for seniors or anyone with disabilities. "We don't just finish a project and disappear," Ruder says. "We build a relationship and provide peace of mind."

This is indeed "Humanism in Building," which emerged as the company tagline. It also became the name of Ruder's nonprofit organization, under which Senior Source operates, as well as other community efforts. The old saying "One good deed leads to another" rings true. As Ruder's teams worked on construction projects for special-needs schools, he realized he could bring together generations for mutual benefit. "Seniors often are intimidated by technology, and what do teenagers know better than anybody?" Ruder asks. He connected seniors in high school with senior citizens to share knowledge — kids sit side by side with retirees to show them how to use their phones or iPads. "You just sit back and watch, and the intergenerational relationship naturally unfolds," Ruder says.

Of course, the spring of 2020 brought changes to Ruder's activities as he temporarily closed Senior Source at the early pandemic warning signals. Spring construction work also slowed extensively. Yet, progress is still possible. Ruder's local community rallied in 2019 to raise money to build a safe and accessible home for a family with four children who use wheelchairs. The work in this new construction continued, as craftspeople were carefully scheduled to work in isolation to help this dream home — complete with ramps and even an elevator — come into being. "It's not just building a structure — it's about building a bridge to better lives for people," Ruder says.

—KENDA RESLER FRIEND (LA'90, MS A'91)



COURTESY OF BRAD RUDER



WHATEVER HAPPENED TO Donald Paarlberg (A'40, HDR A'79)

DONALD PAARLBERG WAS BORN IN OAK GLEN, ILLINOIS, ON June 20, 1911. After his graduation from high school, he remained at home to farm for eight years before working toward his degree at Purdue. He completed an agricultural winter short course at Purdue in 1936 and then began his studies in agricultural economics. He was very involved in campus life and participated in the forum and debate team, Forensic Council, intramural sports, Student Senate, the *Purdue Exponent*, Alpha Zeta and Tau Kappa Alpha honor societies, Alpha Gamma Rho fraternity, Fraternity Presidents' Council, and the Scrivener Club.

Paarlberg met Eva Robertson (S'40) as a student, and the two were married in 1940. The couple raised two sons, Don Jr. and Robert.

After graduating from Purdue, Paarlberg received a master's and a doctorate from Cornell University in 1943 and 1946, respectively. A professor emeritus of agricultural economics and Hillenbrand Distinguished Professor, he was a member of Purdue's faculty from 1946 to 1953, 1961 to 1969, and again from 1973 to 1975.

Between his teaching stints at Purdue, Paarlberg held federal appointments from Presidents Eisenhower, Nixon, and Ford. He served at various times as assistant to the president, the first coordinator of the Food for Peace program, assistant secretary of agriculture, and director of agricultural economics at the US Department of Agriculture. He also served as economic adviser to four secretaries of agriculture.

Paarlberg wrote or coauthored nine books on agriculture and economic policy. He also wrote poetry and, at age 90, published a volume of verses, most of which were written to his wife.

Named one of Purdue's Great Teachers, Paarlberg received the Sigma Delta Chi Best Teacher Award in 1962 and was selected as one of the six outstanding university professors in 1969. In 2002, the University presented Paarlberg with its highest honor, the Order of the Griffin, in recognition of his strength, vision, commitment, and service.

Paarlberg passed away on February 14, 2006, at the age of 94 in West Lafayette. He was a life member of the Purdue Alumni Association.

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

BOARD OF TRUSTEES

Alumni Trustee Update



THE PURDUE ALUMNI ASSOCIATION IS PLEASED TO ANNOUNCE THE RESULTS OF THE 2020 alumni trustee election. Teresa Carter (IE'85) was elected to a three-year term as alumni trustee effective July 1, 2020. Carter, a retired major general in the United States Air Force, currently serves on the Executive Committee for the Purdue Alumni Association Board of Directors.

She will succeed Tom Spurgeon (M'61), who has served on the Purdue University Board of Trustees since 2005 and is currently vice chairman of the board. Spurgeon's service to Purdue includes membership on the 2000–2007 Campaign for Purdue steering committee, the Purdue Athletic Advisory Council, and terms as president of the Purdue Alumni Club of Peoria and chairman of the Purdue Alumni Club of Central Illinois.

In addition to donating for the construction of Hanley Hall, Spurgeon's generosity has resulted in three facilities on the Purdue campus bearing his name — the Tom Spurgeon Golf Training Center, the Spurgeon Hall of Spirit in Dauch Alumni Center, and the Spurgeon Club at Mackey Arena.

TRADITIONS

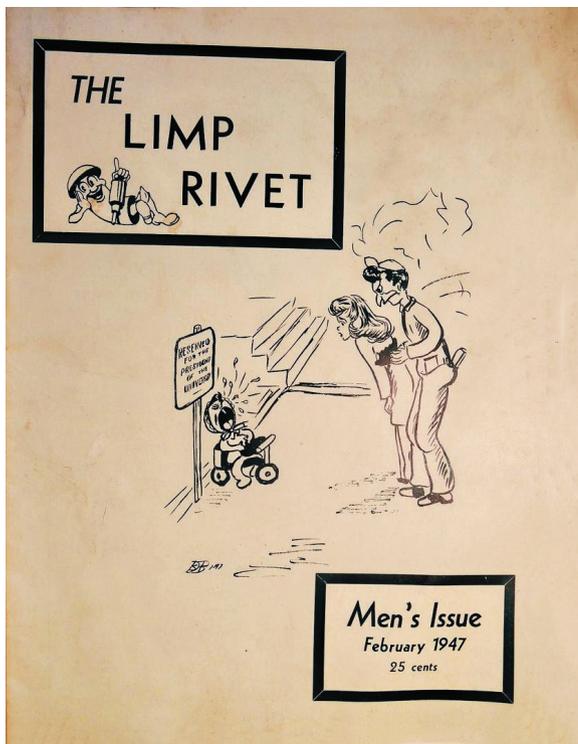
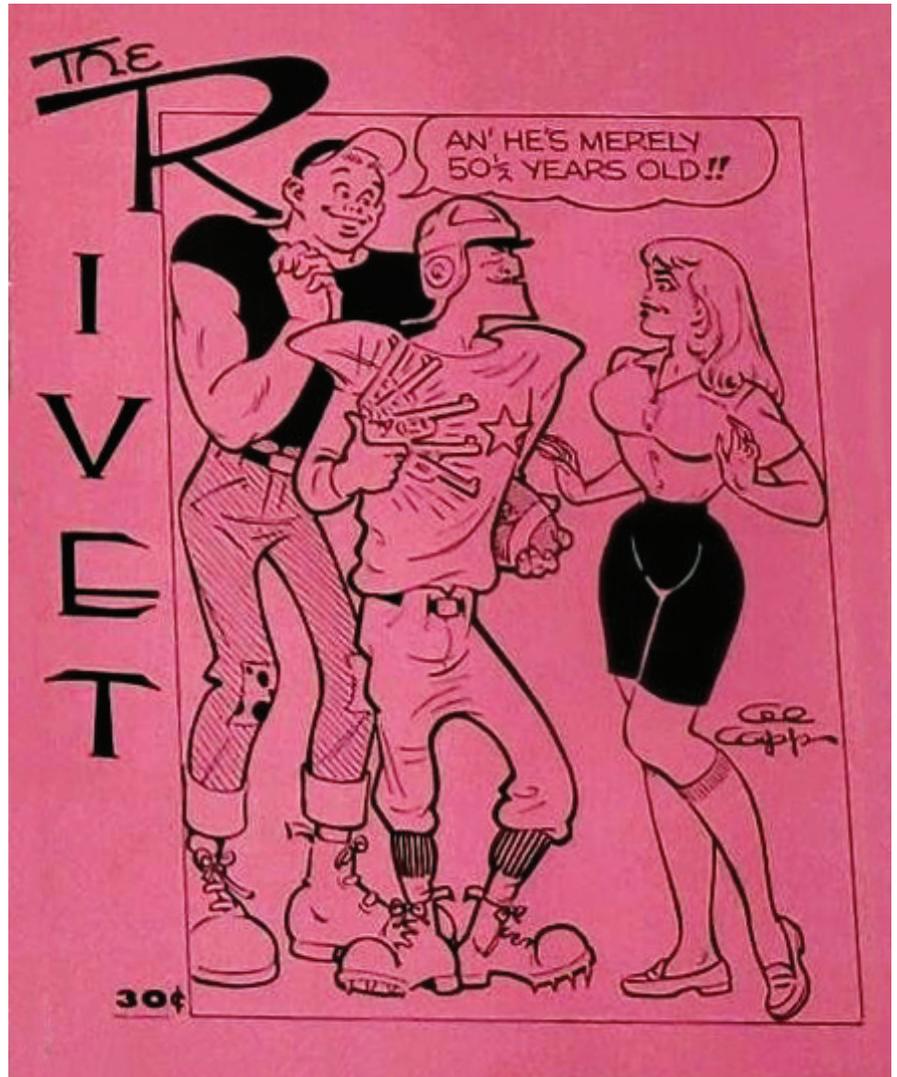
Rivet

A GROUP OF SERIOUS, HARDWORKING INTELLECTUALS published *Rivet*, the campus humor magazine, according to the 1949 *Debris*. Circulated as *Limp Rivet* in 1947, the tome had shortened its moniker by the following year due to the “suggestive” title. “The clever style of presenting campus problems and discussing them with an air of superimposed authority has made the *Rivet* just what it aims to be — all for fun,” *Debris* editors penned in 1950. “Drawings in the articles and advertisements caricature every type of coed from the pulchritudinous to the beastly and bring out the often hidden meaning behind a joke.”

Caricatures, cartoons, jokes, “sarcasm, satire, and slapstick sparkle” filled the pages of each edition, as advertised in the 1963 *Debris*. The issues would appear at random, so readers never knew quite when to expect a new publication. Despite the sporadic schedule, the *Rivet* enjoyed a circulation of approximately 3,000 copies in the late 1950s.

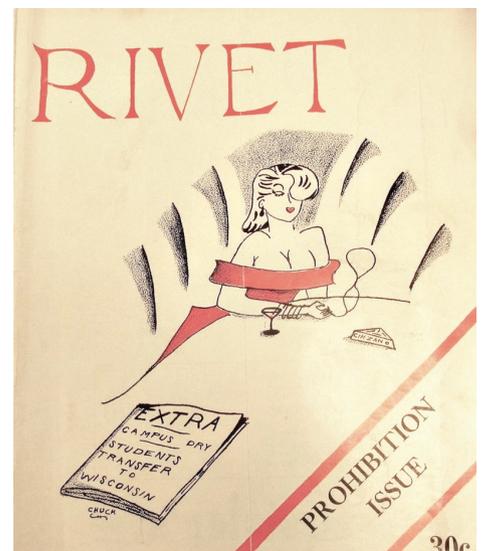
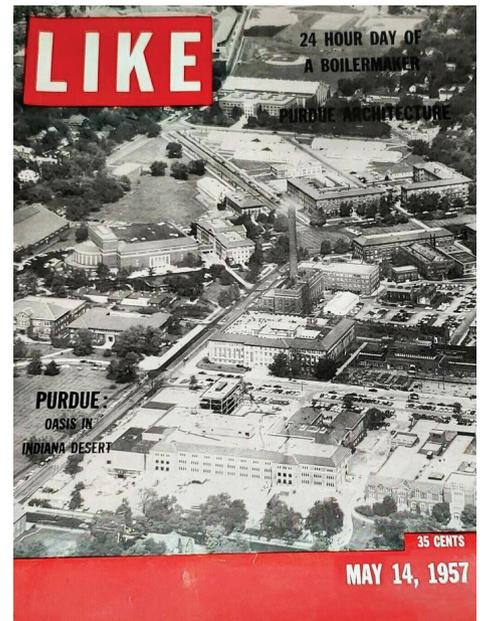
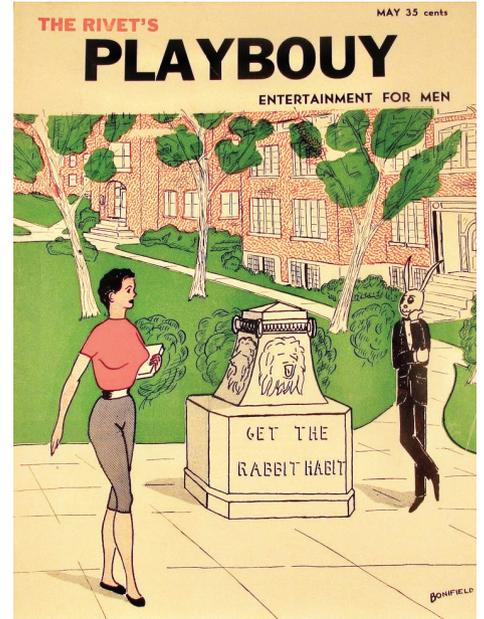
Rivet staff particularly enjoyed creating novelty issues that parodied popular national magazines — they published *Tyme*, *LIKE*, and *Playbouy*, among others, throughout the periodical’s run. The *Rivet* ceased printing — at least as a university-sanctioned magazine — by the early 1970s.

—MARY MONICAL





DEBRIS (4)



BABY BOILERS



JERRY APPLEBY (HHS'92), life member, Nashville, TN, welcomed grandson Harold in May 2019. He joins big sister Francis.



STEPHEN HOLLANDER (ME'03, MS'09) and **REBECCA (HOLDING) HOLLANDER** (T'04), life members, Westfield, IN, welcomed their second child, Emily Gwen.



MARK NELSON (M'81), member, Naperville, IL, and his wife, Carolyne, welcomed granddaughter Juliet in February 2019.



MEG (MCCORMICK) KITCHING (EDU'03), life member, Chicago, IL, and her husband, Jon, welcomed daughter Madelyn Scarlett in November 2018. She joins fellow future Boilermaker and big sister, Kate.



JUSTIN DUNBAR (HHS'03), life member, and **ERICA (MUELLER) DUNBAR** (LA'03), Fort Wayne, IN, welcomed son Owen in June 2019. He joins proud big sister Audree, age 8.



ANGIE (SCHEETZ) MITCHELL (HHS'02), Zionsville, IN, and her husband, Clayton, welcomed son Grant in April 2019. **TOM SCHEETZ** (A'73) life member, Zionsville, IN, and his wife, Jodene, are proud grandparents.

✉ Send us your baby Boiler photos
alumnus@purdue.edu

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Wanderlust

Purdue Alumni travel brings alumni together for extraordinary adventures around the world. Understandably, the spread of coronavirus is raising concerns about the safety of international and domestic travel.

The health and safety of the Purdue Alumni community is our top priority, and we are working closely with our travel partners to monitor the rapidly changing situation. We will continue to support the recommendations of our partners regarding the status of scheduled trips.

Purdue Alumni tours are not just vacations; they are opportunities to open doors and connect — with fellow Boilermakers and with other cultures, perspectives, and environments.

Thank you for your patience as we navigate the uncertain path ahead. Doors may be closed now, but we look forward to gathering together again and expanding our horizons. In the meantime, keep dreaming of your next adventure, and be inspired by the trips we have planned for 2021.

For a complete list of upcoming trips, visit purduealumni.org/travel. If you have any questions, please contact us at **800-414-1541** or alumnitravel@purdue.edu.



MEXICO

February 17–24, 2021



ISRAEL

February 20–March 1, 2021



FLORENCE, ITALY

March 12–20, 2021



CROATIA

May 10–21, 2021



BRITISH ISLES

July 24–August 4, 2021



JAPAN

September 22–October 4, 2021



BUDAPEST, HUNGARY

June 12–20, 2021



GREECE

October 8–17, 2021

ALUMNI PROFILE

DANIELLE RENDER

“Engineering taught me how to do more with less. I learned how to take advantage of the resources that you have.”

WHEN COVID-19 SHUT DOWN America, Danielle Render (T'17, EnE'17) was ready. Her custom clothing company Divine Creations, known by the brand name DVN Co., had already seen the worst before word ever hit American media. She started feeling the pinch in January because DVN's raw materials come from China, where the first cases of coronavirus were identified. But Render is confident that DVN will survive, thanks to her ability to solve problems — one of many skills she learned from the Purdue multidisciplinary engineering program.

The fashion design business was meant to be a “side hustle” for this engineer. DVN was just a company she created in high school to make T-shirts with designs inspired by the Bible; the name Divine Creations came from those first shirts. During her freshman year at Purdue, Render started making designs for the Divine Nine — the nine historically black Greek organizations. Her company name seemed like destiny then.

But there was no room for clothing design after those first years at Purdue. A bright student, Render started her engineering courses and became further immersed in Greek life as a member of Delta Sigma Theta Sorority. She scored an internship on the project to build the Atlanta Braves stadium her junior year and snagged a coveted internship with Accenture's Atlanta Innovation Hub her senior year. After graduation, Render was hired as a consultant for Accenture.

The new grad leaped into her work but quickly found herself with too much free time on her hands. She decided to resurrect her apparel company to fill in those idle hours. Instead of T-shirts and graphics, DVN was going to be a source for quality custom clothing, starting with a line of Greek jackets for her Delta sisters. “The truth is, I thought that I was going to be a successful consultant,” Render says. “And so again, this was something that was just a side hobby while I was at Accenture.”

The lessons from her engineering classes came in handy and helped Render bypass some of the common mistakes that new clothing business owners make. “Engineering taught me how to do more with less,” she says. “I learned how to take advantage of the resources that you have.”

A few months after Render restarted DVN, she was severely injured in a car accident in spring 2018. She spent the rest of the year in rehabilitation. The injuries sidelined her at work because she couldn't travel for projects, so DVN



became a full-time effort. By the end of 2018, that full-time focus helped DVN crack six figures in sales.

After much soul searching, Render made the difficult decision to leave her job at Accenture in early 2019. By the end of the year, sales had crossed the half-million-dollar mark. Her side hustle had grown into a bustling clothing company.

“My dad always told me, ‘You have to let your light shine,’” Render says. “I used to stress myself out about who saw my light and if I was doing things right. Now I don't focus on who sees it — I focus on doing what I'm supposed to do so that I can make a positive impact, and I feel like this is my calling.”

—JONITA (HOLLEY) DAVIS (BA'08, MA'15)

COURTESY OF DANIELLE RENDER



ALUMNI PROFILE

MEGAN FINNERTY

“Our North Star is to serve our communities while building empathy within them.”

MEGAN FINNERTY (LA'02) KNEW well before she came to West Lafayette that she wanted to be a journalist. But the classes for her mass communication and media studies major weren't like those of a traditional “J-school” — and that's precisely why she says she's found success.



“The whole communications approach was theory based, not occupation based, which has served me spectacularly,” Finnerty says. “I’ve stayed nimble and flexible in my career because Purdue helped me think about journalism as a tool that can be applied across all kinds of different roles.”

Finnerty's latest and perhaps biggest role is one she created herself: founder and director of Storytellers Project, a series of live events in communities around the United States where people share true first-person stories on stage in front of an audience. Storytellers Project is part of Gannett's USA TODAY Network, and the company's journalists coach the participants to help them best craft their stories about growing up, holiday traditions, war, dating, parenting, homelessness, and countless other personal topics.

Storytellers Project holds more than 100 events a year in 22 cities, with 4,000 people sharing their stories since its founding in 2011. “Our North Star is to serve our communities while building empathy within them,” Finnerty says. “Some stories are funny, and some are very serious, but they always have to have a meaningful takeaway of some bigger truth. The goal is that people listening really receive it, soak it in, and use it to inform their thinking in the future.”

Storytellers, which now also includes a brand studio arm, started nine years ago as a side project during Finnerty's 14-year tenure at the *Arizona Republic* newspaper. Finnerty was inspired by the Moth — a nonprofit organization that has run live storytelling events in major cities since 1997 — and she partnered with the Maricopa County South Mountain Community College to launch Storytellers Project in Phoenix.

“Because I had such a broad foundation in communications from Purdue, I really thought I was the perfect person to figure out how oral storytelling and journalism can come together,” Finnerty says. But that meant building up Storytellers Project on the side while still working as the *Republic's* engagement and features editor by day — until five years later in 2016, when she presented a business plan to Gannett's C-suite and promptly received a budget and a team.

Now Storytellers Project sells more than 25,000 tickets each year, sometimes filling 1,200-seat venues with people ready to share, to listen, and to expand their perspectives.

“From an audience perspective, it's entertaining, but the aim is that everyone sees themselves reflected in the storytellers,” Finnerty says. “It doesn't matter whether they've lived a similar life; they may have learned that same lesson in a completely different way. The storyteller feels seen, but the audience member does too. And that's how a community comes together.”

—JULIANNE PEPITONE

COURTESY OF MEGAN FINNERTY

ALUMNI PROFILE

CAREY PARKER

WHEN WHISTLEBLOWER EDWARD Snowden became a household name in the early 2010s, Carey Parker's (ECE'91, MS ECE'92) career as a security and privacy advocate took shape. "I wanted to bridge the gap between the physical world and the cyber world," he says. "In our physical daily lives, we have locks, smoke alarms, and seat belts — but we have not developed those same cyber instincts."

When Snowden emerged, Parker was driven to pursue one of his bucket-list goals of writing a book. He wanted to help people learn about and address mass surveillance issues. Author Alan Forbes had written a series of coding books, so Parker reached out to him for advice. "He had a Kickstarter campaign for his next book," Parker says. "I asked for tips — he became my mentor and taught me to self-publish."

It took roughly a year for Parker to go through the framework and research stages and pull final materials together. The book, *Firewalls Don't Stop Dragons*, is now in its third edition. "I felt compelled to help people understand why computer security and online privacy are important — not just individually, but for any healthy democracy — and tell them what they can do to improve both," Parker says. "The book has well over 150 tips and techniques for mitigating or eliminating cyber weaknesses, online tracking, mass surveillance, and general hackery."

In addition to the book, Parker runs a blog and weekly podcast of the same name. He publishes timely tips on his website and features cybersecurity news and knowledgeable guests on the podcast. "I am on a mission to raise the awareness of everyday, nontechnical people on the crucially important topics of cybersecurity and online privacy," he says. "There are plenty of resources for computer geeks like me, but I'm striving to reach the 99 percent of the population who use the internet all the time but have no real idea how safe they are nor how to make themselves safer."

Parker also teaches cybersecurity and privacy continuing-education classes at Duke University through the Osher Lifelong Learning Institute. "I really enjoy it," Parker says. "Even though most of the students have advanced degrees, many of them have no real experience with cybersecurity. They tend to be more cautious when it comes to security issues than my kids."

Considering millions of workers have switched from



their typical office environments to home offices during the COVID-19 pandemic, folks who were formerly logged into corporate networks are now using virtual private networks and conducting meetings through various avenues online. "There are a lot of growing pains," Parker says. "People are trying to figure out how to use these tools safely and securely."

Privacy and security risks keep multiplying in other ways. Domain names including either COVID or coronavirus have seen a huge spike, causing unsuspecting internet users to click on malware sites. Email scams are also on the rise, with people being prompted to supply their passwords under false pretenses.

Parker stresses three vital steps to help ensure privacy and security: back up everything; use a password manager to both generate strong passwords and store your passwords; and use two-factor authentication when you can. Parker says those are strictly security steps — for enhanced privacy, there is no silver bullet. He suggests using the Firefox browser with privacy plug-ins.

Knowing that many people do not necessarily care how their computers or mobile devices work, Parker endeavors to offer step-by-step security tips without jargon or overly technical explanations. "It's like eating right and exercising," he says. "Sure, it's good to know why it will help you, but you can get all the benefits just by doing it, whether you understand it or not. And there are dozens of free and simple things we can all be doing to protect ourselves, our family, and our friends."

—BRIAN HUDGINS

"I felt compelled to help people understand why computer security and online privacy are important — not just individually, but for any healthy democracy"

HAIL PURDUE



Isabella Carnahan, future cheerleader and/or volleyball player and daughter of **DAVID CARNAHAN** (T'05), life member, and **JENNA (OKONOSKI) CARNAHAN** (BS' 06), pondered her future at Purdue.



SUSAN CRISAN (EDU'72), life member, and **KATHI BONDI** (HHS'74) cruised the Danube River from Budapest, Hungary, to Passau, Germany.



SHARON JAMES (A'90), life member, visited Sydney, Australia, and showed her Purdue pride.



GREG NELSON (T'18) and **EMILY MCCARTNEY** (NRS'18) were married Dec. 29, 2018, in Chesterland, OH. They were joined by 20 Purdue students and alumni, including Greg's parents, **JEFFREY NELSON** (ME'86) and **LAURA (AHLBRAND) NELSON** (HHS'87), members.

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alumnus@purdue.edu



The Purdue Alumni Club of Los Angeles and Orange County cheered on the Boilermakers at a game watch.



KAREN (LENYO) HERLEMAN (HHS'78), life member, displayed her Boilermaker spirit at Big Sky Resort in Montana.



HENRY HOELSCHER (NE'79), life member; **ROBIN BREMMER** (MS ME'80); **LEE ANN (STATER) BREMMER** (AAS T'80); and **ELIZABETH (CHAPMAN) HOELSCHER** (HHS'79), life member, showed their Purdue pride in Riksgränsen, Sweden.



Travelers on a Purdue Alumni trip to Costa Rica gathered for a farewell dinner.



Boilermaker friends celebrated at the wedding of **JEFF SEMKO** (HHS'01), life member, and **KIRISSA VUKIN** (BS'11). Pictured from left: **TOM SZCZEPANSKI** (M'80), member; **SUSAN (KUCHTA) BARRIBALL** (BS'08), life member; Kirissa and Jeff; **MIKE MOSKALICK** (BA'11, BS'17, MBA'17), member; and **MICHAEL SHULTZ** (M'97), life member.



MITCHELL SPRINGER (S'81), life member, and **CORBY (BERRY) SPRINGER** (HHS'89, MS'02) visited the Hawaiian island of Oahu.

HAIL PURDUE



PAT PARKS (CE'73) and **JANENE (SIEBER) PARKS** (LA'74), life members, traveled to Antarctica and displayed their Purdue flag.



REBEKAH JONES (LA'17) celebrated her graduation with her cousins Evan, John, and James, the sons of **COLLEEN (FRUITS) WININGER** (A'92), member, and her husband, Jim.



The Purdue Alumni Club of The Villages gathered for a game watch to cheer on the Boilermakers.



Purdue fans and veterans enjoyed a ride on the Boiler-maker Special during the 2019 Memorial Day parade in Mishawaka, IN.



DANIELLE (ERICKSON) LEAZENBY (T'17); **BRANTON LEAZENBY** (NRS'19); **TRESA (BOWEN) HAMMOND** (EDU'85, MS EDU'87), life member; and Brayson Leazenby, current student, showed their Purdue spirit while standing on the corner in Winslow, AZ.

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LAUREN (WESCOTT) PORTER (HHS'87); **KIRK PORTER** (HHS'84); **JOHN GERDING** (M'84), life member; **KEITH HANAUER** (A'83, MS A'85); **MARK CHANEY** (T'83); and **JANENE (STANLEY) HANAUER** (HHS'83) displayed their Boilermaker pride on a Caribbean cruise.



Abby, Drew, and Megan Lawler visited the Grand Canyon with their parents, **CHRIS LAWLER** (ChE'97) and **STACY (RICARD) LAWLER** (P'98), life members.



In October 2018, a group of Boilermaker friends held their 16th reunion. Front: **JILL (BRAINERD) HARMAN** (HHS'64), life member. Back row: **CAROL (SCHULTZE) BARREAU** (HHS'64); **BETH (HIGHT) AUSTGEN** (EDU'64), life member; **JUDIE (SKOMP) HANSON** (HHS'65); **KAREN (MIZEK) AUER** (HHS'64, MS S'67); and **SARA (HILLIGOSS) HEITMAN** (LA'64), life member.



Purdue graduates and friends enjoyed a Purdue Alumni trip to Cuba.



DIRK TUCKER (CE'82), life member, and his wife, Sherry, hiked to Loughton Glacier in Skagway, AK.

CLASS NOTES

1940

BILL BERBERIAN (HHS'49, MS EDU'53), member, West Lafayette, IN, was inducted into the Indiana Basketball Hall of Fame.

1960

BILL HOLDER (AAE'60), life member, Riverside, OH, and his wife Ruthanne, celebrated their 60th wedding anniversary on Jan. 31 with family. Guests included daughters Beth Bixby and Kathy Brohm as well as Kathy's husband, Ron. The family includes grandchildren Jenny, David, and Nathan and great-grandson Oliver. Bill is a former Army officer, and he also worked with Boeing and the Saturn V rocket. He finished his career working for air force intelligence as an aerospace engineer. The family enjoys cheering for Boilermaker football and coach Jeff Brohm, who just happens to be Ron Brohm's nephew.

DAN COLGLAZIER (ME'69), life member, Springville, IN, was presented the Distinguished Eagle Scout Award (DESA), which is bestowed upon Eagle Scouts for nationally renowned distinguished service in their profession and to the community for at least 25 years after earning the Eagle Scout rank. Since its introduction in 1969 by the National Eagle Scout Association, the DESA has been awarded to just 2,000 Eagle Scouts.
dan.colglazier@comcast.net

1970

JIM CLOYD III (P'71), Minneapolis, MN, received the 2020 Tyler Prize for Stimulation of Research, one of the most prestigious scientific awards of the American Pharmacists Association.

JOHN F. SHIREY (IE'71), life member, Sacramento, CA, was inducted into the USA Track & Field (USATF) Officials Hall of Fame. He has officiated track and field meets since 1973, including 10 NCAA national championships, 29 USATF national championships, seven Olympic team trials, and the 1996 Olympic Games in Atlanta.

ELEANOR WANG (S'73), Baltimore, MD, was elected to the Maryland Public Television Foundation board of directors.

JOHN BRENNAN (AAE'76), Mashpee, MA, was inducted into the Purdue ROTC Hall of Fame.

ROY BYRD (LA'76), life member, Alexandria, VA, was inducted into the Purdue ROTC Hall of Fame.

JOAN (VANMUNSTER) MILLER (CE'79), Philadelphia, PA, joined the Urban Engineers Board of Directors as an external director.

1980

ANGIE (LIPP) KLINK (LA'81), life member, Lafayette, IN, celebrated the 15th anniversary of her children's book *Purdue Pete Finds His Hammer*. Now in its third edition,

the lift-the-flap book is sold exclusively at University Bookstore on campus.

FREDERIC ELBERT (ME'84), life member, Saratoga Springs, NY, was inducted into the Purdue ROTC Hall of Fame.

STAN LITTLE (MS ECE'84), Alpharetta, GA, joined United Way Worldwide as the chief experience officer.

1990

J. CHRISTOPHER MOSS (LA'90), life member, Queen Creek, AZ, was inducted into the Purdue ROTC Hall of Fame.

SHAUN (RAY) MAWHORTER (M'95), Elkhart, IN, was named a partner in the tax practice of Kruggel Lawton CPAs.

JASON WATSON (CE'99), Maumee, OH, joined the Mannik & Smith Group as an associate.

2000

MATT DENNIS (T'00), Indianapolis, IN, joined Hirons, an advertising, public relations, and digital agency, as director of digital development for the firm's digital department.

ERIK DUNBAR (T'01), Toledo, OH, became an owner of Dunbar Mechanical. He is the president of the family-owned firm.

DAVID HORNTAL (IE'02, MS IE'03), life member, Deerfield, IL, and his wife, Erica, welcomed their second child, MJ (Michael Julius), in January. MJ

plans on being a third-generation Purdue Industrial Engineering graduate in the class of 2042. david@hornthal.com

TRAVIS DORSCH (HHS'03, MS HHS'07, PhD HHS'13), Logan, UT, was appointed to the board of the President's Council on Sports, Fitness, and Nutrition Science.

MALAIKA (DURHAM) TYSON (PhD S'05), Evergreen Park, IL, was elected a shareholder of McAndrews, Held & Malloy, a full-service intellectual property law firm.

MARTHA (BERRY) KING (LA'06), life member, Elmhurst, IL, joined Farm Foundation, an accelerator of practical solutions for agriculture, as vice president of programs and projects. She has an extensive background in programs, information systems, and publishing and serves as corporate secretary on her family's Illinois farm. martha.a.king@gmail.com

LAUREN BURGE (LA'08), Pittsburgh, PA, joined the utilities and telecommunications practice groups at Eckert Seamans.

2010

ERIK SUSEMICHEL (AAE'11), Hawthorne, CA, was promoted to senior mission manager at SpaceX.

REIKA NARITA (HHS'19), member, Tokyo, Japan, won the Most Popular Award and Best Body Shape Award at the 2018 Miss International Japan pageant held in Tokyo.

5 QUESTIONS

Dallas Woodburn (MFA'13)

What inspired you to be a writer?

It's difficult for me to remember a time before I loved writing; I gobbled up books from an early age. My dad is a writer, and I often saw him working, so I knew the books I loved didn't just appear like magic — a real person actually wrote them.

Do you enjoy helping others with their writing?

I'm passionate about empowering others. I teach workshops and online programs for kids and teens through my organization Write On! Books, and I help adults give birth to the stories beating within their hearts as a book coach.

Did the plot of your new novel unfold as you wrote?

I had an image for an important scene at the end, and I knew the central idea, but everything else was a mystery. It was exciting to discover as I went along. I found the confines of the story structure to be helpful — it takes place over a week, and I had never written a novel with such a tight timeline.

What do you hope readers take away from the story?

I hope it's an escape and a solace during these stressful times and inspires people to live each day to the fullest, appreciate the beautiful things in life, and love with brave fullheartedness.

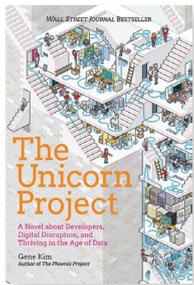
What are you working on currently?

I recently launched a podcast called *Overflowing Bookshelves*, and I interview an author every week. It's been such a fun endeavor! I'm also working on my next young adult novel.



The Best Week That Never Happened

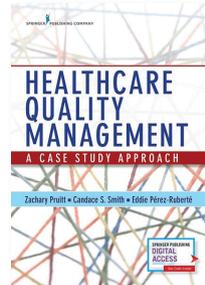
302 PAGES; \$17.99
MONTH9BOOKS



The Unicorn Project

GENE KIM (S'93)
352 PAGES; \$32
IT REVOLUTION PRESS

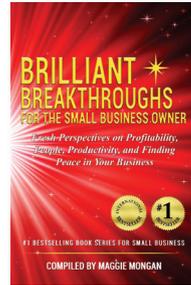
In his novel about developers, digital disruption, and thriving in the age of data, Kim weaves a tale of rebel developers and business leaders working together to survive.



Healthcare Quality Management

EDDIE PÉREZ-RUBERTÉ (MS AAE'01), ZACHARY PRUITT, AND CANDACE S. SMITH

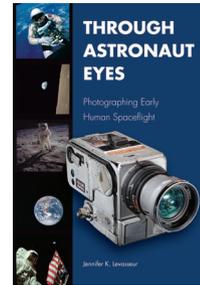
404 PAGES; \$90
SPRINGER PUBLISHING COMPANY
With in-depth health care quality management case studies, tools, activities, and discussion questions, this text introduces students to fundamentals of the profession.



Brilliant Breakthroughs

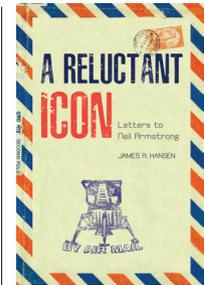
KERRIE HOFFMAN (HHS'86), MAGGIE MONGAN, ET AL.
179 PAGES; \$14.95
SPOTLIGHT PUBLISHING

The authors provide winning formulas to determine which business activities truly drive profit and how to develop and nurture people and build a peacefully performing business.



Through Astronaut Eyes: Photographing Early Human Spaceflight

JENNIFER K. LEVASSEUR
254 PAGES; \$32.99
PURDUE UNIVERSITY PRESS
Levasseur presents the story of how human daring along with technological ingenuity allowed people to see the Earth and stars as they never had before.



A Reluctant Icon: Letters to Neil Armstrong

JAMES R. HANSEN
400 PAGES; \$27.99
PURDUE UNIVERSITY PRESS
Providing context and commentary, Hansen has assembled hundreds of letters Neil Armstrong (AAE'55, HDR E'70) received after first stepping on the moon until his death in 2012.

IN MEMORIAM

1930

FRANK C. TOY (CE'39), life member, Broomfield, CO, Feb. 2.

1940

HENRY T. EIGELSBACH (S'41), life member, Boca Raton, FL, Dec. 6.

ALVIN W. GRAF (ME'42), life member, Butler, PA, Sept. 5.

MARY RUTH (BARNHART) RODGERS (HHS'42), life member, Chillicothe, OH, Feb. 17.

CHARLES E. HATTERY (ME'43), life member, Monroe, OH, Dec. 19. He is survived by his wife, Marian.

CHARLES E. BOONSTRA (S'44), life member, West Lafayette, IN, Jan. 9.

ALITA R. (ZERBER) COOPER (HHS'44), life member, Helotes, TX, Feb. 7.

DONALD E. CORP (ECE'44), life member, Lancaster, NY, Jan. 26.

JOSEPH LIDON (ME'44), life member, St. Petersburg, FL, Dec. 31.

LUCINDA (REDWINE) MONETT (HHS'44, MS HHS'48), life member, Dallas, TX, Jul. 7, 2019.

THERESA L. (SWINNEY) MARTIN (HHS'45), life member, Rockport, IN, Feb. 5.

WARREN R. SEDLACEK (ChE'45), member, Riverwoods, IL, Jan. 28.

ORCELIA V. (RAYNER) CONDELEE (LA'46), life member, Glen Ellyn, IL, Jan. 27.

PATRICIA L. (CARROLL) CRAIG (LA'46), life member, Pendleton, IN, Jan. 13.

JEAN (PETERSON) GARBEFF (HHS'46), life member,

Stockton, CA, Dec. 14.

ROSEMARY ELIZABETH (ARETZ) LENNERTZ (HHS'46), life member, Cincinnati, OH, Jan. 23.

ROBERT N. WOERNER (ECE'46), West Lafayette, IN, Feb. 20.

FRANK S. ALEXANDER JR. (ME'47), life member, Dublin, OH, Dec. 10.

PHILIP H. GARVER (ME'47), member, Pittsford, NY, Feb. 21.

JOHN C. GRAPER (ME'47), Munchen, Germany, Dec. 23.

REX S. HUNGERFORD (ECE'47), life member, Palos Verdes Estates, CA, Feb. 8.

ROBERT E. KING (ECE'47, HDR E'84), life member, Sarasota, FL, Dec. 27.

STANLEY W. LESZYNSKI (ECE'47), life member, Bellevue, WA, Jan. 4.

RICHARD A. LINDEN (ME'47), life member, Batavia, IL, Dec. 16.

VERNON K. RISING (MSE'47), life member, Alexandria, VA, Feb. 3.

DAVID C. BREEDING (ECE'48), life member, Rolling Hills Estates, CA, Oct. 5.

LEOPOLD W. GROSS (ME'48), Rocky River, OH, Jan. 5.

JEAN A. (Snyder) Hufford (HHS'48), life member, Mulberry, IN, Jan. 9.

JOSEPHINE (ATWOOD) JOEST (LA'48), Sedona, AZ, Dec. 30.

CHARLES T. MITCHELL (ECE'48), La Porte, IN, Dec. 18.

ROBERT H. RITTERBUSH (CE'48), life member, Bismarck, ND, Dec. 17.

THOMAS H. SEANEY (ME'48), Moorestown, NJ, Jan. 2. He is survived by his wife, Martha.

E. FRASER BOUCK (ME'49),

Wilmington, DE, Feb. 4. He is survived by his wife, Beryl.

SETH E. BURGESS (AAE'49), Granbury, TX, Oct. 23.

EDWARD M. CURTIS JR. (CE'49), life member, Beaumont, TX, Dec. 25.

ROY L. DAWSON (ECE'49), Jupiter, FL, Jan. 15.

CONNIE L. (OXLEY) FAHNESTOCK (LA'49), Louisville, CO, Jan. 18.

CHARLES W. GLUNK (ME'49), Sarasota, FL, Dec. 25.

DOROTHY (DARNALL) JONES (HHS'49), Madison, IN, Dec. 13.

CAROLYN KLEIFGEN (HHS'49), Carmel, IN, Jan. 17.

MARVIN LLOYD OLSHAN (LA'49), New York, NY, Oct. 30.

CHARLES R. REID (AAE'49), Carmel, IN, Feb. 22.

JOSEPH D. WALLS (ME'49), Crossville, TN, Dec. 26.

He is survived by his wife, Mary.

GEORGE M. WATT (ChE'49), Elkhart, IN, Dec. 20.

WESLEY W. WRIGHT (ME'49), Sleepy Hollow, NY, Jan. 26.

GEORGE J. YOXALL (MS HHS'49), Evanston, IL, 2019.

1950

ROBERT L. CARSON (ME'50), Saratoga Springs, NY, Dec. 12. He is survived by his wife, Norma.

ROBERT G. COLEMAN (A'50), Tallahassee, FL, Dec. 15, 2018. He is survived by his wife, Maxine.

JACK H. GARWOOD (ME'50), Bethel Park, PA, Nov. 9.

WILLIAM D. GULBAN (ME'50), Rockville, MD, Dec. 24.

MARY LOU (KULL) HOPKINS (HHS'50), Brownsburg, IN, Feb. 15.

CLAIRE A. (STRANG) HUGHES (MS S'50), life member, Lawrence, KS, Dec. 26.

ROBERT N. MCCAFFREY (ECE'50), Fishers, IN, Dec. 12.

CHARLES R. MCCALLISTER

(A'50), Huntington, IN, Jan. 31.

JOHN C. MERRILL (CE'50), life member, Santa Barbara, CA, Aug. 28.

JEREDITH M. (STIVER) RUGO (HHS'50), Manchester, MA, Nov. 28.

RUSSELL A. SCHWEYER (ME'50), Fort Wayne, IN, Jan. 5. He is survived by his wife, Imogene.

QUENTIN C. SHORE (HHS'50), Plainfield, IN, Feb. 14.

R. BRUCE SIMPSON (ECE'50), Gainesville, FL, Oct. 10. He is survived by his wife, Alice (HHS'50).

ALAN G. STANLEY (CE'50), Ocala, FL, Jan. 27. He is survived by his wife, Donnabelle.

JAMES M. BENBOW (MSE'51), life member, Bloomington, IL, Dec. 19.

ROBERT K. BURGESS (AAE'51), Easton, CT, Feb. 2.

ROBERT L. BURNETT (CE'51), Brazil, IN, Jan. 13.

P. JACK EFLIN (ME'51), Anderson, IN, Feb. 10. He is survived by his wife, Beulah.

ROBERT L. HERRMANN (S'51), Peabody, MA, Dec. 12.

THOMAS FRANKLIN HULL (T'51, MS T'57), life member, West Lafayette, IN, Dec. 30.

VICTOR KOTSO (P'51), Denver, CO, Dec. 23.

JOSEPH L. PECZKOWSKI (ME'51), Twin Lakes, WI, Dec. 30. He is survived by his wife, Loretta.

GENE M. RANDICH (CE'51), life member, Oak Lawn, IL, Feb. 4. He is survived by his wife, Helen.

DAVID L. RICE (A'51, MS HHS'56, PhD EDU'58), life member, York, PA, Jan. 15. He is survived by his wife, Betty (LA'52, MS EDU'59), life member.

HELEN (STORM) TIPPET (HHS'51), life member, Vero Beach, FL, Dec. 25.

CHARLES J. WAIDELICH (CE'51, HDR E'78), life

member, San Diego, CA, Dec. 20.

ALI S. ARGON (ME'52, HDR E'05), Belmont, MA, Dec. 21. He is survived by his wife, Xenia.

JOHN A. AYMONIN (ME'52), life member, Vero Beach, FL, Apr. 14, 2019.

He is survived by his wife, Anna.

DALE P. BANGERT (ECE'52), Amherst, NH, Feb. 12.

ALLAN L. BERNSTEIN (ME'52), Boca Raton, FL, Dec. 4. He is survived by his wife, Joan.

JAMES M. HOBSON (HHS'52), Bloomfield, IN, Apr. 14, 2019.

RALPH E. IMEL (A'52), Frankfort, IN, Jan. 9.

CARL E. MCNUITY (HHS'52), Kokomo, IN, Jan. 14.

JANE E. (HOOKER) MOTTRAM (HHS'52), member, Kirkland, WA, Feb. 6.

JAMES E. NOREM (AAE'52), Santa Rosa, CA, Dec. 25.

HAROLD G. POULIN JR. (CE'52), life member, Carmel, IN, Jan. 10. He is survived by his wife, Barbara.

AUDREY G. (ROTHWELL) KLEASEN (A'52), Cuyahoga Falls, OH, Dec. 28. She is survived by her husband, Hubert (CE'53, MS CE'54), life member.

GERALD SLIFER (ME'52), member, Lakewood, NJ, Jan. 31.

LARRY ZACHARCHUK JR. (HHS'52, MS LA'67), Roswell, GA, Jan. 26. He is survived by his wife, Patricia.

HAROLD A. BAKER (ME'53), Forest, VA, Dec. 25.

DARREL B. BREWSTER (HHS'53), Peculiar, MO, Jan. 3.

MILDRED (BLACK) BUZEK (LA'53), Zionsville, IN, Jan. 25. She is survived by her husband, Clyde (CE'52).

RUTH ARTA (DUCKWORTH) EVANS (HHS'53), Royal Oak, MI, Dec. 6.

JOHN G. GAZETTE (ME'53), Commerce Township, MI, Oct. 7.

JOHN J. IMPENS (ME'53), Keller, TX, Jan. 22.

MAGDALENE E. (PFERRER) LILES (A'53), Knoxville, TN, Feb. 21.

JOHN C. MALONEY (MS HHS'53, PhD HHS'55), life member, Chattanooga, TN, Dec. 27.

DON E. MCMANUS (CE'53), Hornell, NY, Dec. 25.

DAVID R. SCHEFFLER (ABE'53), West Bend, WI, Jan. 31.

JACK O. UTTERBACK (ABE'53), Stillwater, OK, Dec. 10.

ROBERT K. WOLFE (HHS'53), St. Albans, VT, Nov. 30.

JOHN E. AHLBRAND (ME'54), Columbus, IN, Jan. 8.

JANET (CONRAD) BARNES (P'54), York, PA, Feb. 19.

GLENN W. CARLSON (ECE'54, MS ECE'56), life member, Munster, IN, Jan. 18.

JOHN E. HALL (ME'54), Anderson, IN, Dec. 21.

ROBERT A. JONES (S'54), Sierra Vista, AZ, Sept. 5.

JOHN W. JUDY JR. (A'54, PhD V'68), Williamston, MI, Jan. 11.

MARILYN (MARTIN) MYERS (HHS'54), Endwell, NY, Jan. 21.

NORMAN R. REDICK (CE'54), Lima, OH, Dec. 12.

PEGGY (CASADA) SPARGO (HHS'54), life member, Tampa, FL, Jan. 26.

GILBERT S. BANKER (MS P'55, PhD P'57, HDR P'03), life member, Carmel, IN, Feb. 16.

RODERICK RAYMOND DIRISIO (S'55), Mahwah, NJ, Dec. 20.

RONALD W. PAYNE (ME'55), life member, The Hills, TX, Dec. 3.

WILLIAM F. SANDERMAN (AAE'55), Colorado Springs, CO, Dec. 26.

DEAN F. SMELTZER (ME'55), Brewster, MA, Dec. 28. He is survived by his wife, Marjorie (LA'50).

CHARLES R. SMOOT (PhD S'55), West Chester, PA,

Jan. 12. He is survived by his wife, Irene.

JANE (MCELLHINEY) STEIN (HHS'55), life member, Soldotna, AK, Dec. 15. She is survived by her husband, David (ME'55), life member.

ALEXANDER N. TSIGULOFF (T'55), Fort Wayne, IN, Jan. 12.

KENNETH R. WHITAKER (A'55, MS A'59), Marshall, IL, Oct. 28.

GEORGE M. ALDRED (A'56), member, Shoals, IN, Feb. 20.

CHARLES F. ELBERT (ECE'56), Mansfield, OH, Dec. 15. He is survived by his wife, Phyllis (P'55).

HARRY F. HODGES (A'56, MS A'58, PhD A'64), Starkville, MS, Dec. 30. He is survived by his wife, Sara (HHS'55).

ROBERT N. JAMES (AAE'56), Lompoc, CA, Jan. 6. He is survived by his wife, Cynthia.

C. WADE KINGSBURY (MS'56), Muskegon, MI, Dec. 23.

KENNETH W. KIRBY (MS A'56, PhD A'58), Cedar Rapids, IA, Feb. 15.

DOUGLAS A. KLYBERT (P'56), Coeur d'Alene, ID, Jan. 1.

JACQUELIN E. (BERGOLD) MASOTTI (MS HHS'56), Nellysford, VA, Jan. 31. She is survived by her husband, Alfred (ChE'57).

JOHN R. NASTO (ECE'56), Farmington, CT, Feb. 2.

LEONARD V. PANTALEO (CE'56), Elgin, IL, Feb. 3.

DONALD J. PAUKEN (ME'56), Monticello, IN, Nov. 23.

CAROL (BROWNE) QUINN (A'56), Huron, OH, Jan. 30.

CHARLES A. REYNOLDS (P'56), West Lafayette, IN, Feb. 3. He is survived by his wife, Judie.

ALBERT F. SANBORN III (MS CE'56), Locust Grove, VA, Jan. 22.

DEAN E. SHOUPP (ME'56), Roswell, GA, Jan. 12.

J. NICHOLAS SPENCER (S'56), Mission Viejo, CA, Jan. 7.

RICHARD M. TEIBEL (A'56), Schererville, IN, Dec. 28.

W. EDWARD THOMPSON (MS'56, PhD'59), Crofton, MD, Jan. 8.

WILLARD A. WISSLER (A'56), Richmond, IN, Dec. 13.

JOHN J. WRIGHT (PhD HHS'56), Plantation Park, FL, Feb. 16.

DONALD J. BRANDES (MS ME'57), Scottsdale, AZ, Dec. 14.

R. VERNON CASTEEL (CE'57), life member, South Bend, IN, Feb. 23. He is survived by his wife, Martha (HHS'58), life member.

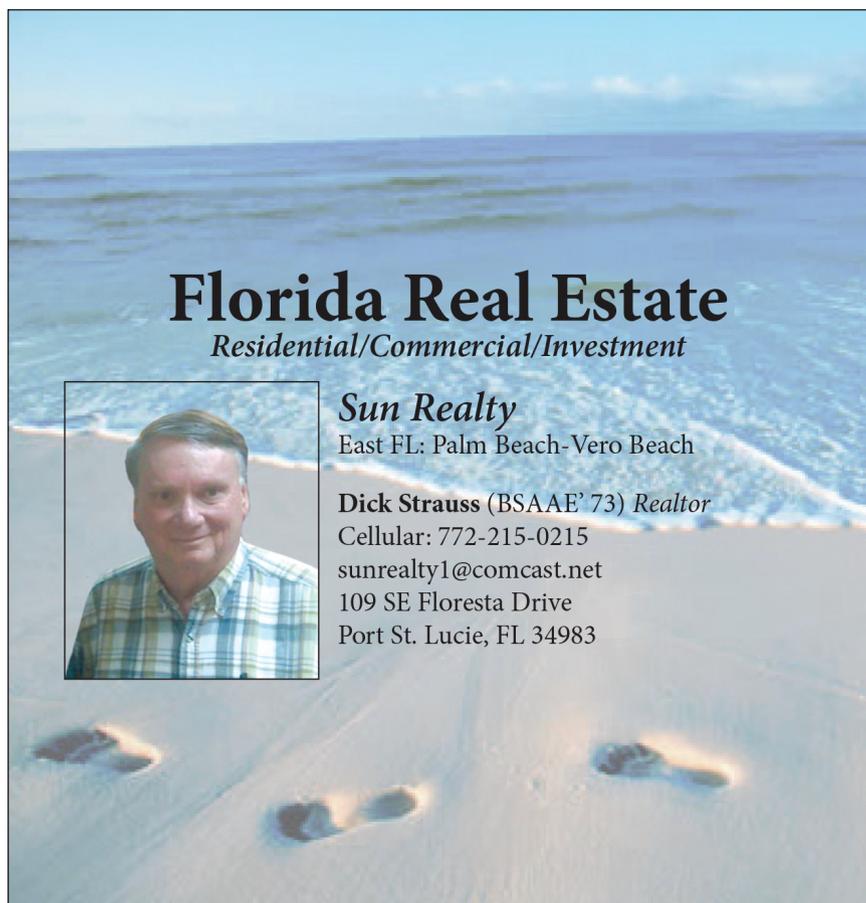
LARRY D. CREAKBAUM (CE'57), Fishers, IN, Jan. 22. He is survived by his wife, Patricia.

MICHAEL T. DRAYER (A'57), life member, Lafayette, IN, Jan. 9.

CHARLES V. FLEMMING (P'57, HDR P'94), life member, Sarasota, FL, Feb. 10. He is survived by his wife, Madonna (P'58), life member.

ABBREVIATION KEY

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



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IN MEMORIAM

GLENN L. GLATFELTER (ECE'57), Bedford, MA, Dec. 11.

RICHARD D. HERCAMP (ChE'57, MS'69), life member, Columbus, IN, Feb. 3.

CORALIE M. O'CONNOR (LA'57), life member, Worcester, MA, Dec. 31.

EGILS A. PURINS (ME'57), North Fort Myers, FL, Nov. 18.

DEWEY LYNN SOUERS (P'57), member, Columbia City, IN, Dec. 17.

J. RALPH ALEXANDER (ME'58, MS S'59, PhD S'63), Mahomet, IL, Oct. 27. He is survived by his wife, SB.

ALICE JANE (HUDDLESTUN) DOWELL (P'58), life member, Guilford, CT, Nov. 23.

JAMES J. EDMIER (CE'58), life member, North Fort Myers, FL, Dec. 3. He is survived by his wife, Carol (LA'58), life member.

GERARD F. GRECO (MS CE'58), Rockville, MD, Dec. 31.

LUTHER M. HAYS (AAE'58), life member, Marco Island, FL, Feb. 1.

SHIRLEY J. (ALLEY) HENSCHEN (LA'58), Chandler, AZ, Dec. 7.

JOSEPH A. JONES (ChE'58), New Carlisle, IN, Jan. 24. He is survived by his wife, Dorothy.

JERRY L. LIKE (A'58), Elberfeld, IN, Feb. 2.

DAVID H. MACGREGOR (S'58), Lorain, OH, Jan. 5.

CHARLES F. PATTERSON (AAE'58), member, Zionsville, IN, Apr. 7, 2019.

JAMES A. PATTERSON (ChE'58), life member, Carmel, IN, Dec. 15. He is survived by his

wife, Jane.

GENE S. RAMSBEY (ME'58), North Manchester, IN, Jan. 15.

GEORGE W. RECORD (A'58), Bloomington, IN, Dec. 30.

CYNTHIA M. (FOLZER) ROTH (S'58), Warrensburg, MO, Jan. 26. She is survived by her husband, Edwin (PhD S'61).

GORDON G. SHAW (ME'58), life member, Tucson, AZ, Dec. 27.

NORMAN W. STANDISH (MS S'58, PhD S'60), Lanark, IL, Oct. 28.

ALLEN A. THIEME (ChE'58, MS ChE'60), Menlo Park, CA, Dec. 18.

JOSEPH D. CLYNE (MSE'59), Prescott, AZ, Feb. 1.

DOUGLAS A. ELVERS (ME'59), life member, Cary, NC, Feb. 15.

JOHN L. MARTIN (A'59), life member, Bradenton, FL, Jan. 21.

PERRY Q. REINERT (S'59), member, Munster, IN, Feb. 9.

THOMAS FRANCIS REYNOLDS JR. (MS HHS'59), San Jose, CA, Jan. 7.

ROBERT G. RIGG (ChE'59), Munster, IN, Feb. 15.

ALBERT F. WEBER (A'59), life member, Carthage, IN, Jan. 19. He is survived by his wife, Janet.

RAE A. (PRAY) WRIGHT (HHS'59), Elkhart, IN, Jan. 14.

1960 ANN (GORDON) BATEMAN (LA'60), Dublin, OH, Dec. 28.

DAVID A. BORCHELT (S'60), Myrtle Beach, SC, Jan. 24.

RICHARD F. BUSSAN (CE'60), Geneseo, IL, Oct. 15.

TOMMY T. DUNAGAN (PhD S'60), Carbondale, IL, Dec. 7.

THOMAS FARKAS (S'60), life member, South Bend, IN, Jan. 31.

SARA M. (JORDAN) HAMPTON (HHS'60), life member, Batavia, IL, Feb. 19, 2019. She is survived by her husband, Richard (CE'59), life member.

MICHAEL D. KERR (CE'60), Carmel, IN, Jan. 25. He is survived by his wife, Sarah.

WALLACE B. MARTIN (ECE'60), Fort Wayne, IN, Jan. 3.

WILLIAM C. MICKELBERRY (MS A'60, PhD A'63), Albany, OR, Jan. 19.

E. GRAHAM SHOOK (ChE'60, MS ChE'61), life member, South Charleston, WV, Feb. 14.

BURTON S. BARTLETT (P'61), Indianapolis, IN, Oct. 3.

JUDITH A. (SCHRIEFER) BERRY (S'61), life member, Brownsville, TX, Jan. 1. She is survived by her husband, Richard (ECE'61, MS M'62), life member.

IGO BRIVMAN (LA'61), Willingboro, NJ, Oct. 18.

WILLIAM E. FARMER (MS NE'61), Lebanon, TN, Jan. 19.

LYNN A. HANRAHAN (A'61, DVM'63), Jasper, AL, Dec. 8.

JOHN H. HAYNES (MS CE'61), Dallas, TX, Jan. 11.

EARL T. HERZOG JR. (ME'61), Cincinnati, OH, Jan. 19.

BONNIE C. (HANF) JONES (P'61), life member, Leesburg, FL, Dec. 16.

JOHN C. LINDHOLM (PhD ME'61), Manhattan, KS, Nov. 10.

MARION RICHARD MIGLIORE (ECE'61), Mission Viejo, CA, Jan. 30.

LTC (R) JAMES M. TURLEY (A'61), life member, West Lafayette, IN, Dec. 10.

LOWELL G. ATKINSON (ECE'62, MS ECE'64), Indianapolis, IN, Jan. 13. He is survived by his wife, Linda (S'65).

RONALD R. CLARK (AAE'62, MS AAE'65), Whitestown, IN, Dec. 12. He is survived by his wife, Claudia (LA'64).

WILLIAM B. DEBELLIS (ME'62), St. Cloud, FL, Nov. 1.

JERRY W. FAHN (ECE'62), Williamsburg, VA, Jan. 21. He is survived by his wife, Carol.

A. GRAVES GILLASPIE JR. (MS A'62, PhD A'65), Peachtree City, GA, Sept. 28.

JACK H. LOCKHART (S'62), Falls Church, VA, Feb. 10.

WILLIAM C. MANNING (S'62), La Porte, IN, Dec. 25.

F. RICHARD SHIVELY (A'62), member, La Plata, MD, Dec. 22. He is survived by his wife, Barbara.

MICKY B. THORPE (ME'62), Keller, TX, Feb. 6.

DONALD L. WASS (PhD HHS'62), Richardson, TX, Jan. 25.

DAVID L. ALEXANDER (HHS'63, MS HHS'65), life member, Lafayette, IN, Feb. 26.

C. ROBERT BAKER (MS E'63), life member, Zionsville, IN, Jan. 17. He is survived by his wife, Claire (BS'70, MS'75, PhD EDU'87), life member.

EDWARD F. CHOUINARD (ChE'63), life member, Tomball, TX, Dec. 14.

MARSHALL E. DAVIS (PhD S'63), Petaluma, CA, Dec. 2019. He is survived by his wife, Sue (HHS'62).

DAVID C. HANWELL (S'63), Schwensville, PA, Dec. 28.

DONALD F. HUML (MS HHS'63), New Haven, IN, Jan. 22.

BRUCE W. LANDECK (AAE'63), Atlanta, GA, Jun. 19, 2019.

DAVID A. LARSON

(HHS'63), Portage, IN, Feb. 2.

LINDA (BOHENKAMP) MCARTOR (HHS'63), St. Petersburg, FL, Jan. 28.

THOMAS P. O'KEEFE (ECE'63), life member, Roaming Shores, OH, Nov. 12.

JOHN F. RIECKE (AAS'63), Fort Wayne, IN, Jan. 23. He is survived by his wife, Martha.

GLENN B. SHELTON (MS ECE'63), member, Huntsville, AL, Feb. 1.

JACK E. WATSON (MS S'63, PhD A'68), Kingsport, TN, Jan. 12. He is survived by his wife, Joyce (MS EDU'65).

RICHARD E. ATHA (MS EDU'64), Oxford, IN, Feb. 6.

CHARLOTTE (KEEDY) HETRICK (HHS'64), life member, West Lafayette, IN, Feb. 5. She is survived by her husband, Charles (IE'63, MS M'64), life member.

MARGARET (ANDERSON) JOYCE (LA'64), life member, Richardson, TX, Nov. 25. She is survived by her husband, Thomas (S'63, PhD S'68), life member.

J. MICHAEL MCKENNA (S'64), Santa Rosa Beach, FL, Dec. 8.

FOSTER M. NORTHRUP (MS EDU'64), Fountain Hill, AZ, Jan. 28.

GEORGE U. PAULDING III (MA'64), Pittsburgh, PA, Feb. 5.

BARBARA L. (GRAY) REED (HHS'64), life member, Logansport, IN, Feb. 20. She is survived by her husband, Joseph (A'64), life member.

THOMAS E. SIMPSON (ECE'64), Wichita Falls, TX, Feb. 20. He is survived by his wife, Rita.

MARSHALL L. SMITH (LA'64), Frankfort, IN, Jan. 13. He is survived by his wife, Phoebe (EDU'67).

JON C. TAENZER (ECE'64), Los Altos, CA, Mar. 9, 2019.

WILLIAM R. VANHOY
(ChE'64), Middletown,
DE, Jan. 13.

PHILLIP D. WALKER (T'64),
Seymour, IN, Oct. 21.

REX J. WARNER (A'64),
Noblesville, IN, Dec. 21.
He is survived by his
wife, Avonelle.

JANE WILLIAMS (CRISLER)
ANGLIM (HHS'65),
Auburn, CA, Jan. 8. She is
survived by her husband,
Dan (ME'66), member.

H. THOMAS BANKS (MS
S'65, PhD S'67), Cary, NC,
Dec. 31.

GENE W. BROWN (ME'65),
life member, Franklin,
TN, Feb. 19. He is survived
by his wife, Margaret,
life member.

CECIL L. BUCKNER JR.
(ECE'65), Knoxville, TN,
Jan. 11.

LARRY D. CHOJNOWSKI
(ChE'65), Erie, CO, Jan. 9.

JERRY CORLEY (CE'65), life
member, Delaware, OH,
Jan. 10. He is survived by
his wife, Judy.

JERRY D. HILL (AAS'65), Fort
Wayne, IN, Jan. 30.

GARY T. LANE (MS A'65,
PhD A'68), Danville, KY,
Dec. 11.

JEROME R. LIEBLING (CE'65),
Ivins, UT, Jun. 28, 2019.
He is survived by his
wife, Glenda.

PAT H. MEADE (S'65), life
member, Rochester, IN,
Jan. 8. He is survived
by his wife, Rebecca
(EDU'67), life member.

JAMES A. RODAER (MS'65),
Green Bay, WI, Feb. 17.
He is survived by his
wife, Beverly.

ANTHONY F. ROSS (MS A'65),
Portland, ME, Nov. 23.

MICHAEL D. SHERMAN (MS
M'65, PhD M'77), Toledo,
OH, Jan. 2.

WILLIAM P. SOKELAND
(MS ME'65), Lebanon, IN,
Dec. 21.

SCOTT BARKLEY (M'66),
life member, Los Angeles,
CA, 2019.

BARBARA A. (BROWN)
GESSE (HHS'66), member,

Greensboro, NC,
Dec. 28. She is survived
by her husband,
Dennis (A'65), member.

ROBERT E. MUTZL (A'66),
Huntersville, NC, Dec. 28.
CHARLES EDWARD OVERTON
(A'66, MS A'69, PhD A'77),
Kitty Hawk, NC, Oct. 29.
He is survived by
his wife, Roberta
(LA'67, MS LA'71).

ARTHUR F. POWELL (S'66),
West Orange, NJ, Dec.
28. He is survived by his
wife, JP.

HARRY R. SCHAEDE
(ECE'66), Virginia Beach,
VA, Dec. 29.

IRVIN R. SCHMOYER (MS'66,
PhD S'69), life member,
Emmaus, PA, Feb. 5. He
is survived by his wife,
Jean, life member.

SHIRLEY J. (TESTER)
WESLEY (LA'66), Howell,
NJ, Jan. 18.
CHERYL (CASHION) CARSON
(LA'67, MS EDU'74), life
member, Durango, CO,
Jan. 14. She is survived

by her husband, Charles
(AAE'67, MS S'68, PhD
S'75), life member.

JOSEPH B. CUEVAS (LA'67),
Gary, IN, Jan. 23.

STEPHEN E. DIBBERT
(ECE'67), Wildwood, MO,
Jan. 27.

ROBERT E. HOHN
(ECE'67), Indianapolis, IN,
Oct. 27.

ALVIN C. KRON (A'67), life
member, Nicholasville,
KY, Jan. 1.

MATT K. MAISH (DVM'67),
Bartlett, IL, Feb. 21.

DAVID M. RIBAN (MS S'67,
PhD S'69), Ormond
Beach, FL, Nov. 7.

GAIL C. SCHRADER
(LA'67), Peachtree City,
GA, Jan. 26.

ROGER VERDUZCO (HHS'67,
MS HHS'69, PhD HHS'75),
La Grande, OR, Dec. 15.

LYNN (LIPPHART) BERK
(MA S'68, PhD LA'72),
Miami, FL, Feb. 16. She is
survived by her husband,
Toby (MS S'68, PhD S'72).

ROBERT R. CLARK (HHS'68),
Austin, MN, Dec. 19. He
is survived by his wife,
Nancy (LA'69).

STEVEN E. DECKER (A'68),
life member, Vincennes,
IN, Jan. 14. He is survived
by his wife, Darlene
(HHS'71), life member.

TERESITA DELA (FIGUEROA)
FUENTE (MS HHS'68),
Ann Arbor, MI, Dec. 27.
She is survived by her
husband, Domingo
(ECE'70).

DANIEL J. GROSSE (PhD
S'68), Franksville, WI,
Feb. 2.

BARBARA R. KELLEY
(DVM'68), life member,
Terre Haute, IN, Dec. 17.

SUSAN J. (HALLETT) KERNS
(HHS'68, MS HHS'71),
Brownsburg, IN, Dec. 14.

CAPT. JERRY N. LAYL
(ECE'68), Escondido, CA,
Apr. 13, 2019.

RAY J. NARDELLI JR. (CE'68),
Okatie, SC, Jan. 19.

ANN PARKINSON (EDU'68),
life member, Elizabeth
City, NC, Jan. 18.

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IN MEMORIAM

MICHAEL L. STOUT (T'68), Fletcher, NC, Feb. 4.

RONALD C. TUCKER (HHS'68), Denver, CO, Dec. 19.

DON S. BELLIS (MS M'69), Washington, MO, Nov. 13.

MICHAEL E. COFFMAN (LA'69), Jacksonville, FL, Jan. 4.

JOHN H. HALSTEAD (MS A'69), Loup City, NE, Jan. 15.

JOYCE E. (NORTHAM) HERTEL (HHS'69), Lafayette, IN, Jan. 29. She is survived by her husband, Clarence.

EDWARD E. JOHNSON (EDU'69), Logansport, IN, Jan. 5.

LARRY KLIM (ME'69), Windermere, FL, Aug. 4.

KENNETH L. LILLY (MA S'69), Dallas, TX, Jan. 24.

KAY (HOGAN) RICKARD (LA'69, MS LA'70), Livingston, TX, Dec. 16.

THOMAS HENRY SCHMITZ (PhD A'69), Chapel Hill, NC, Nov. 29.

1970 **JAMES E. ALLEN** (S'70, MS S'76), Paris, IL, Nov. 8.

BRADLEY WAYNE BYRER (M'70), life member, Bonita Springs, FL, Dec. 6.

NORMAN A. DRAZY (ME'70), Phoenix, AZ, Oct. 3.

CARROLL E. HENDERSON (AAS'70), Noblesville, IN, Dec. 16.

DANIEL L. HOOK (A'70), Anaconda, MT, Dec. 27.

THOMAS J. JAQUES (ChE'70), member, Lafayette, IN, Jan. 31. He is survived by his wife, Lois (HHS'70), member.

STEPHEN D. MILLS (M'70), Lafayette, IN, Feb. 4.

MARILYN V. MILLS (MA S'70), Rocky River, OH, Dec. 29.

HUBERT F. SCHMIDT (ME'70, MS ME'70), member, Jacksonville, FL, Jan. 18.

GLENN A. STULTZ (A'70), Farmer City, IL, Dec. 28.

SUSAN J. (KLISIAK) BOLLA (AAS'71), Chesterton, IN, Dec. 29.

DENNIS DEAN BRAND (CE'71), Albuquerque, NM, Jan. 26.

R. HANNAH (TAYLOR) BROWN (BS'71), life member, Yuma, AZ, Jan. 7.

MICHAEL J. COYNER (LA'71), Indianapolis, IN, Jan. 8. He is survived by his wife, Marsha (HHS'71).

CAROLYN (WARD) DARIES (EDU'71, MS EDU'72), life member, Kissimmee, FL, Jan. 26. She is survived by her husband, Frederick.

RANDALL C. ECKLEY (LA'71, MS'73), life member, Michigan City, IN, Mar. 11, 2019.

JUDITH A. ELIASSEN (MS S'71), Monroe, MI, Dec. 29.

RITA L. (HOGSETT) FRIBERG (HHS'71), life member, Pueblo, CO, Oct. 19.

RICHARD A. HARLEY (IE'71), Muskegon, MI, Feb. 11.

SCOTT A. HUMPHREYS (M'71), Pittsburgh, PA, Jan. 7.

DONALD R. KEESLING (A'71), Modoc, IN, Jan. 12.

GERALD J. MCCANNA (EDU'71, MS LA'73), Carmel, IN, Dec. 17.

HORACE L. RUSSELL (PhD ME'71), Upper Marlboro, MD, Nov. 3. He is survived by his wife, Catherine (MS EDU'70).

BERNARD H. SONNTAG

(PhD A'71), Lethbridge, Canada, Oct. 21.

JOHN C. WALDON (BS'71), New Haven, IN, Jan. 12.

LAURA A. (TESH) BAKER (MS LA'72), Delphi, IN, Dec. 30.

LAWTON P. BOURN JR. (MS T'72), Laconia, NH, Jan. 4.

GEORGE H. BUCHANAN (LA'72), Harrisburg, PA, Dec. 16.

ELEANOR JEAN (WILSON) CAREY (AAS NRS'72), Lafayette, IN, Dec. 20.

MARILYNN I. (POVLOCK) EDWARDS (MS'72), Noblesville, IN, Jan. 30. She is survived by her husband, Richard (PhD EDU'02).

LARRY GENE FAIR (A'72), Spencer, IN, Dec. 25.

ROBERT T. MCFEELY (BS'72), Martinsville, IN, Dec. 13.

ROBERT J. MEAD JR. (PhD S'72), Asheboro, NC, Oct. 8.

JAMES E. POWELL (LA'72), Indianapolis, IN, Jan. 27.

STEPHEN K. SCHWAIGER (AAE'72), Maple City, MI, Jan. 30. He is survived by his wife, Gretchen (S'69).

JOSEPH F. ZMUDA JR. (PhD'72), Albuquerque, NM, Oct. 6.

SUSAN (FREAD) ALBRECHT (LA'73), life member, Indianapolis, IN, Jan. 27.

BETTY M. (GIRARD) ERTEL (MS'73), life member, West Lafayette, IN, Feb. 1.

WANDA S. (LIPPERT) FOX (HHS'73, MS EDU'83, PhD EDU'91), Elfrida, AZ, Jan. 30. She is survived by her husband, Dennis (A'87).

JAMES H. MITCHELL (AAS'73), Westfield, IN, Jan. 23.

DONALD F. PTACEK (BS'73), Loda, IL, Dec. 25.

BARRY L. RAU (LA'73), Tacoma, WA, Dec. 29.

LOUIS JOHN ROSSI (S'73), Valparaiso, IN, Oct. 25.

TERRY L. WOOLWINE (DVM'73), West Lafayette, IN, Feb. 4. He is survived

by his wife, Paula (HHS'11).

WALTER BLACKMER (MS CE'74), Statesville, NC, Nov. 25.

EMILY J. (DOWNER) CARROLL (AAS'74), Warren, IN, Feb. 17.

MARY ELLEN (BROVIAK) GICK (MS EDU'74), Laughlinton, PA, Jan. 3.

CHU-HUEI (CHEN) LAI (MS A'74), Seattle, WA, Jan. 19.

JAMES LEE MOSELEY (MS S'74, PhD S'79), Morgantown, WV, Jan. 12.

FRANCIS X. ROGEL (MS S'74), Canonsburg, PA, Feb. 19.

MARY L. (LACLUYSE) SROKA (MS'74), Munster, IN, Dec. 20.

W. CRAIG THOMPSON (IE'74), Simpsonville, SC, Feb. 9.

JACK M. NOONAN (HHS'75), life member, Lynn Haven, FL, Oct. 18.

ROBERT J. TOKOLY (BS'75), Woodridge, IL, Dec. 14.

MELVIN B. AMUNDSON (A'76), life member, Oviedo, FL, Jan. 25. He is survived by his wife, Kathleen, life member.

JAMES P. AUSTGEN (MS'76), Seven Lakes, NC, Jan. 4.

DIANA (MCCULLOUGH) BIDDLE (HHS'76), Westfield, IN, Oct. 9.

KENNETH L. HOFFMAN (A'76), Hometown, IN, Jan. 1.

EDWARD R. LEWIS (M'76), Laporte, CO, Dec. 3.

JESSIE LYNNE (WUSTER) MELANDER (BS'76), life member, Mooresville, IN, Dec. 13.

JOHN LEE SELKY (MS'76), Carmel, IN, Dec. 31. He is survived by his wife, Marjorie.

VERNON R. TISDALE (PhD S'76), Fairhaven, MA, Jan. 25. He is survived by his wife, Ann (S'71, MS S'73).

WILLIAM M. BODNAR (ChE'77), Alamo, CA, Jan. 23.

SUSAN ELIZABETH CLARK (MS EDU'77), Barnet, VT, Feb. 20.

MARTIN M. EHRESMAN (A'77), Mooresville, IN, Jan. 16.

MARK G. EIKENBERRY (M'77), member, Springboro, OH, Jan. 17. He is survived by his wife, Abbie, member.

GARY ALAN HINCHMAN (M'77), Spring, TX, Feb. 2.

DANIEL L. SPENCE (BS'77), Brownsburg, IN, Jan. 5.

CAROL A. (LINDEMAN) BIEDA (P'78), life member, Munster, IN, Dec. 18. She is survived by her husband, Frank, life member.

GERALD W. BURT (MS EDU'78), Williamsport, IN, Feb. 9.

JEFFRY S. CARTER (A'78), member, Carmel, IN, Jan. 11.

LARRY K. CRAIG (AAS'78), Indianapolis, IN, Dec. 4.

MICHAEL DALE DEPLANTY (P'78), Marshall, IN, Feb. 9.

PAULINE LEE FARMER (PhD M'78), Euclid, OH, Dec. 11.

PAMELA K. GRAHAM (M'78), life member, Gurnee, IL, Dec. 15.

PAUL E. LEE (AAS'78), Tucson, AZ, Jan. 15.

SUE ANN (POPKE) MCKINSEY (P'78, DP'80), Indianapolis, IN, Dec. 23. She is survived by her husband, Michael (AAS'94).

BRYAN E. METZGER (A'78, MS A'79), life member, Lafayette, IN, Jan. 31. He is survived by his wife, Cindy.

LORETTA M. STEUER (HHS'78), Crown Point, IN, Feb. 10.

DEBORAH A. (BAILEY) WARD (A'78), Fort Wayne, IN, Nov. 29.

WILLIAM J. FELGER (MS IE'79), Kokomo, IN, Jan. 21.

MAJ. SHARON R. GROOME (LA'79), Kokomo, IN, Jan. 24.

RICHARD L. JARVIS JR. (S'79), Greenville, VA, Feb. 10.

THOMAS A. JERRELL JR.
(MS'79), Manitowoc, WI,
Jan. 26.

**COL. RICHARD A.
MUIRRAGUI** (M'79, MS
M'80), Apollo Beach, FL,
Oct. 18.

PHILLIP J. SHANKS (M'79),
Evergreen, CO, Jan. 16.
He is survived by his
wife, Mary.

JAMES T. WRAY (A'79),
Michigan City, IN, Jan. 23.

1980 **CHRISTINE
LOUISE
(ERNST) COMBS** (HHS'80),
Indianapolis, IN, Feb. 14.

TIMOTHY P. SHEETS (T'80),
New Ross, IN, Jan. 25.

JAMES P. ADAMCZYK (CE'81),
Charleston, SC, Oct. 9.

**KATHLEEN (STEELE)
ATTERHOLT** (LA'81), New
Richmond, WI, Jan. 25.

**SANDRA KAY (NICODEMUS)
HYATTE** (AAS'81), La
Porte, IN, Jan. 6.

RIGOBERTO PEREZ
(AAE'81, MS AAE'83,

PhD AAE'86), member,
Chesterfield, MO, 2019.
He is survived by his
wife, Cecilia.

LIFFORD WAYNE CLAXTON
(AS'82), Strasburg, PA,
Feb. 8.

CYNTHIA A. LATCHAW
(AS'82), Laingsburg, MI,
Dec. 17.

DAVID L. LIDESTER (T'82),
Racine, WI, Jan. 1. He
is survived by his wife,
Janelle (M'85).

**CAROL L. (SIMPSON)
MCCLAIN** (A'82),
Farmersburg, IN, Feb. 11.

JAMES M. PHILLIPS
(M'82), Michigan City, IN,
Dec. 10.

JAMES BRETT POE
(M'82), Zionsville, IN,
Jan. 2, 2019.

**CAROL L. (SCHULZ)
SCHERSCHER** (A'82),
Kokomo, IN, Dec. 25.
She is survived by her
husband, Thomas.

**KAREN R. (SWEDEEN)
EFFREM** (P'83), Port
Charlotte, FL, Feb. 12.

She is survived by her
husband, Paul.

CHAD E. FINN (A'83), life
member, Corvallis, OR,
Dec. 17. He is survived by
his wife, Barbara.

MICHAEL A. HARGIS (AS'83),
Carmel, IN, Jan. 22.

RICHARD HOYDA
(HHS'83), St. John, IN,
Jun. 9, 2019.

ROBERT WAYNE JOHNSON
(A'83, MS M'85), Carmel,
IN, Feb. 13.

CRAIG L. OVERHAGE
(ECE'83), life member,
Beaverton, OR, Dec. 10.
He is survived by his
wife, Kimberly (ECE'83),
life member.

VERNON D. PARKER (PhD
P'83), Clermont, FL, Jan. 2.

**SUZANNE P. (LENAHAN)
SVIHRA** (LA'76), South
Barrington, IL, Dec. 14.
She is survived by her
husband, Edward (P'75).

**DEBORAH A. (BROWN)
DEYOE** (A'84), Nevada, IA,
Dec. 13.

EUGENE S. LEWANDOWSKI

(BS'84), Leo, IN, Jan. 14.

DOUGLAS S. ABNEY (T'85),
life member, Bargersville,
IN, Jan. 6. He is survived
by his wife, Sherry
(LA'85), life member.

**MINNETTA LOIS
(HAMILTON) SYNESAE-
MUSHABEN** (T'85), life
member, Fairfield, OH,
Dec. 11.

LAWRENCE R. TAYLOR
(BS'86), Greenwood, IN,
Feb. 20.

JOHN R. CORBAT (A'88), Fort
Wayne, IN, Dec. 14. He is
survived by his wife, Sara.

SCOTT D. KELL (ECE'88),
Chicago, IL, Jan. 18. He
is survived by his wife,
Michalene (HHS'92).

KENT DOUGLAS QUERRY
(P'88), Noblesville, IN,
Feb. 7.

MARCELINO N. QUINTANA
(AAS'88), Indianapolis, IN,
Feb. 12.

ALTA (REMY) SLAGLE (BS'88),
Valparaiso, IN, Jan. 23.

SCOTT E. BORTER (DVM'89),
member, Odon, IN, Jan. 24.

**PATRICIA DENISE
(WHEELER) GOLDEN**
(AS'89), Perrysburg, OH,
Jan. 20.

**BONNIE L. (MCKINNELL)
LIECHTY** (AS'89), Decatur,
IN, Jan. 18.

MICHAEL P. NICOLET
(AS'89), Roanoke, IN, Jan.
26. He is survived by his
wife, Cheryl (AAS'87).

JOSEPH J. PIOTROWSKI
(AAS'89), Cadillac, MI,
Dec. 12.

1990 **SUZETTE R.
(VALE) LEPIN**
(BS'90), Chesterton, IN,
Feb. 19.

JEFFERY S. SHRIVER
(EDU'90), Rochester, IN,
Dec. 18. He is survived by
his wife, Jane (HHS'91).

MARK J. SNAUFER (MS
AAE'90), Draper, UT, Oct. 12.

**DEBRA L. (WILLIAMS)
JOHNSON** (MS S'91), Katy,
TX, Feb. 5. She is survived
by her husband, Thomas
(PhD S'91).

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IN MEMORIAM

TAMMY L. (SCHOENING) FRANCESCKINA (LA'90, MS T'92), life member, Joelton, TN, Dec. 17. She is survived by her husband, Mark.

SHERVIN SADIGHIAN (T'92), Allen, TX, Jan. 22. He is survived by his wife, Cindy (LA'91).

BARBARA A. BURT (HDR'93), Fort Wayne, IN, Dec. 13. She is survived by her husband, Philip.

CHARLES E. GAINES (AAS'93), Gary, IN, Dec. 31.

TERESA ANN (BLATZ) KULACZ (AS'93), St. John, IN, Jan. 4.

LESLIE A. MOLLER (PhD EDU'93), Baraboo, WI, Sept. 27.

NATHAN B. BARLOW (MS M'94), West Lafayette, IN, Oct. 14.

KEVIN M. HALL (BS'94), Indianapolis, IN, Dec. 3.

BETSY M. (BICKERT) POON (DP'94), Apopka, FL, Nov. 18.

CORY A. SANDERSON (ME'94), Elgin, IL, Dec. 10.

PATRICIA F. (LAPLANTE) WALTERS (AAS'94), Crawfordsville, IN, Dec. 23.

MARK A. BRANDT (BS'95), Carmel, IN, Jan. 3.

TIMOTHY W. DUNLAP (BA'95), Westfield, IN, Feb. 6.

CLAUDIA A. MCCARTY (AS'95), Westfield, IN, Jan. 29.

JOHN A. STEVENS

(ECE'95), Flint, MI, Jan. 30.

ANDREW JOHN STOUT (LA'95), Geneva, IL, Oct. 4.

ROBERT F. BARR (BS'96), Columbus, IN, Dec. 11.

DAVID B. SHIFFLET (MS M'96), Charleston, WV, Jan. 15.

CYNTHIA (CLARK) STOCKLEY (MS M'96), Somers, NJ, Dec. 11.

JOHNNY R. STRONG (BS'96), Plymouth, IN, Dec. 27.

BONITA (JONES) CARBINS (BA'08), Merrillville, IN, Oct. 20. She is survived by her husband, Gregory (BA'97).

SETH O. EVISTON (HHS'97), Indianapolis, IN, Jan. 5.

TINA MARIE (HARSHAW) HARKEMA (BS'97), St. John, IN, Jan. 2.

PETE DYE (HDR A'98), Delray Beach, FL, Jan. 9.

TIFFINY R. BRINK (BS'99), Valparaiso, IN, Feb. 7.

THOMAS C. GHERING (MA'99), West Lafayette,

IN, Feb. 3.

RONALD J. LYNCH (BS'99), Sterling, VA, Jan. 15.

2000 JEREMY W. DAMMARELL (S'00), Standwood, MI, Feb. 14.

CASEY L. (HANDAL) KOZLOWSKI (P'01), Barrington, IL, Feb. 1.

NATHAN MATHEW LANDSIEDEL (ME'01), Sugar Land, TX, Dec. 24.

MATTHEW J. PARDEK (ECE'01), Dyer, IN, Feb. 11.

NATHANIEL G. BOWES (T'02), New Berlin, WI, Jan. 2.

GREGORY W. BOESE (M'04), Brookfield, IL, Nov. 30.

HILARY ROSE FISHER (HHS'04), Anchorage, AK, Jan. 4.

ANDREA K. (PEPLER) MURRAY (BA'07), Valparaiso, IN, Jan. 30.

NICHOLAS M. PILIPPAUSKIS (LA'04), Orange Park, FL, Feb. 4.

DEREK M. PAGE (T'05), Brownsburg, IN, Dec. 29.

SCOTT E. REESE (BA'05), Indianapolis, IN, Oct. 29.

P. COLIN MCCOLLESTER (ME'07), South Bend, IN, Dec. 22.

LYDIA JO BUDNY (EDU'08), Pittsburgh, PA, Feb. 9.

2010 RICHARD JOHN BALUTEWICZ (BA'10), Hobart, IN, Jan. 10.

BRANDON M. DAVIS (BS'12), Decatur, IN, Nov. 12.

ROBERT JOHN KOBESKE (BS'11), Griffith, IN, Feb. 20.

PAULA R. ROSE (EDU'11), Lafayette, IN, Feb. 22.

ANTHONY MARK STAHL (BS'13), Crown Point, IN, Feb. 6.

ALEXANDER JACOB HORVATH (S'14), Lafayette, IN, Jan. 6.

ETHAN THEODORE BROWN (T'19), member, Bargersville, IN, Jan. 29.

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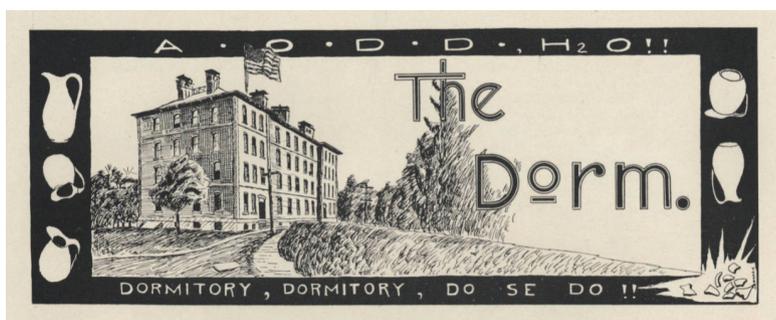
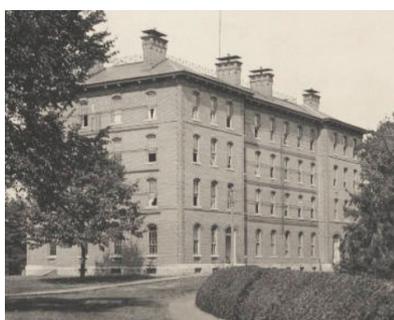
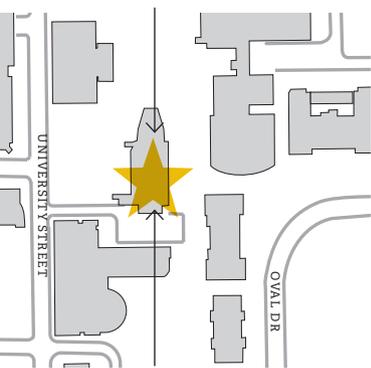
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FOUND



Purdue Hall

SITUATED NEAR THE CURRENT LOCATION OF THE MATHEMATICAL Sciences Building, Purdue Hall was the sole men's dormitory until 1902. The four-story brick structure, one of Purdue's original three buildings, was completed in 1873, a year before the University's first classes began. Initially called Men's Dormitory and the Old Dorm, Purdue Hall was also the site of the first campus library — a collection of books, worth \$180, was donated by Purdue's first president, Richard Owen. The hall later served as a recitation building and housed chemical engineering laboratories, classrooms for various departments, and YMCA and YWCA offices. After years of renovations, Purdue Hall was deemed unsafe and demolished in 1961.

One of the first traditions to arise on campus originated with the Ancient Order of Dormitory Devils, as the students residing in the Old Dorm were called. Not content with merely deriding any late arrival to the residence, the group drenched all visitors, whether students or faculty, with buckets of water. "Water scraps" were a common occurrence in the dormitory, even amongst friendly boarders, according to William T. Berkshire (ECE'1902).

Not all Purdue men were permitted to live in the dorm; Berkshire attended classes for several weeks before receiving a rooming appointment from the University. In an

interview with a Purdue history professor in 1970, Berkshire described the campus living situation in the early 1900s as "very primitive," but he still recalled his three years in the hall with fondness. "I never experienced such camaraderie in all my life as I did in the dormitory," he said.

There were no toilets in the building at that time, so students resorted to using slop buckets or a large communal lavatory nearby, and the "so-called" bathroom held one wooden, zinc-lined bathtub. Despite its lack of charm, the bathtub did come in handy for parties. "There used to be a brewery across the river, and somebody would go and get a keg of beer," Berkshire said. "We'd also get a lot of weiners, put them in the bathtub, turn on the steaming hot water, and cook them a little."



When it was announced that the dormitory would become classrooms following the 1902 school year, residents penned these words in the *Debris* yearbook: "Although the Old Dorm is soon to be only a memory, it is a memory that we are grateful to possess. It is one that will always stand out as the brightest star in the firmament of the past."

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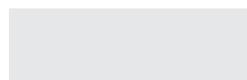


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