

Fall 2016

Fall 2016

Echoes Staff

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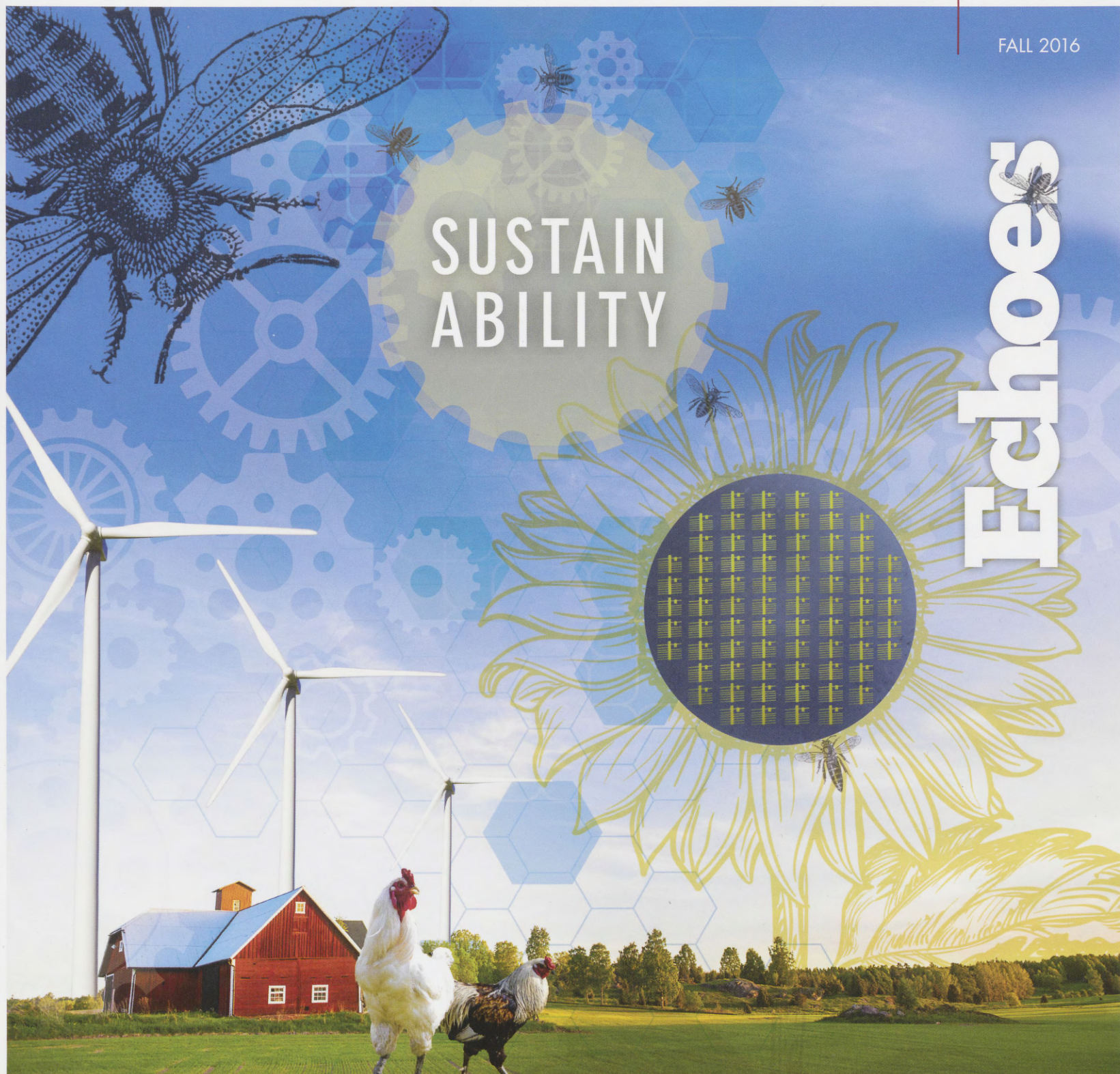
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FALL 2016

SUSTAINABILITY

Echoes



ROSE-HULMAN INSTITUTE OF TECHNOLOGY



HULMAN STUDENT UNION IS TAKING ON NEW LIFE, WITH A \$25M EXPANSION AND RENOVATION PROJECT TRANSFORMING THE BUILDING INTO A CENTERPIECE FOR HEALTHY LIVING AND CAMPUS ACTIVITY. (PAGE 4)

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HELP US CELEBRATE 50 YEARS OF CATAPULTING DREAMS

Our Operation Catapult program will celebrate its 50th anniversary next summer and we would like alumni to join in the fun times. A special Facebook page (facebook.com/OperationCatapult) has been set up for you to share photos and memories from your times with this summer program, and the role it had in you attending Rose-Hulman, making lifelong friendships, and becoming an engineer or scientist. Also tag any posts across social media (Facebook, Twitter, Instagram, etc.) with the hashtag #Catapult50. Some of these memories may be featured in future Echoes' stories about the Operation Catapult program. If you are still in touch with friends you made at Operation Catapult, who did not attend Rose-Hulman, be sure to let them know of the Facebook page!



ROSE-HULMAN INSTITUTE OF TECHNOLOGY

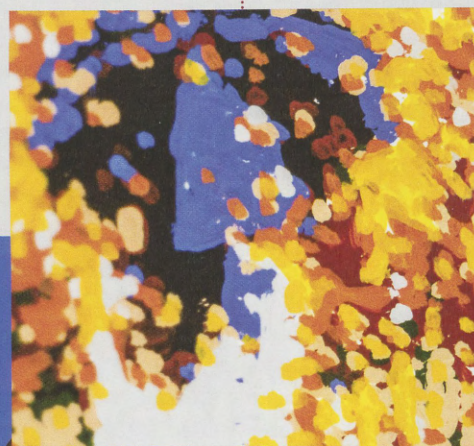
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ROSE-HULMAN
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In a recent blog on Huffington Post's website, I posed the question: What connection do tombstones have with engineering education?

I called attention to mechanical engineering professor Andy Mech, who drew a grave marker on a whiteboard to make a very important point for students: When your life comes to a close, a gravestone may be all that's left of you unless you think of your role in the world differently.

Because of their unique set of skills, engineers, scientists, and mathematicians have enormous

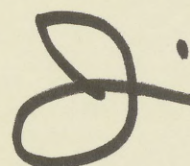
Professor Mech is helping us ensure that Rose-Hulman produces professionals with a greater sense of purpose—people who want to put dents in our universe. This issue of *Echoes* is filled with stories and the names of many who are making a difference in the world around them.

Mike and Linda Mussallem's generous lead gift for the Hulman Student Union renovation will transform that dated facility into a vibrant campus focal point for the benefit of generations of students to come (*see pages 4-8*). Teachers and mentors inspired 2016 computer engineering alumnus Jeremiah Tate to overcome childhood challenges, become the first family member to earn a college degree, and start a career at Intel as a computer engineer. Legendary basketball coach John Mutchner (*profiled on pages 32-33*) left an indelible mark on his players' lives, imbued our athletics program with a winning attitude, and brought fun and excitement to Shook Fieldhouse.

And, the Honor Roll of Giving (*pages 41-56*) is filled with the names of people who are making their own positive dents at Rose-Hulman. They don't seek accolades or fanfare, but we recognize them because they are quiet champions who have stepped up to help us

shape the future of this institution. In turn, we vow to be good stewards of their gifts in shaping a bright future for our students.

I hope you will take a few minutes to read the names and stories of these individuals. We are grateful for their support. Through their generosity, a legacy of excellence in engineering education continues.



BY **JIM CONWELL**,
PRESIDENT
conwell@rose-hulman.edu

potential to change lives—whether by designing bridges to withstand earthquakes, developing a device to extract

brain tumors, writing software that can foil a cyber attack, or any number of other examples. Helping students appreciate the importance of leaving a positive legacy, whether large or small, is a lesson worthy of learning.

As Steve Jobs once said: "We're here to put a dent in the universe. Otherwise why else even be here?"

What He Said

As a graduate working towards a doctorate (at Cornell University), I could not agree more with the need to teach science, technology, engineering, and mathematics professionals how to convey messages (*Getting Your Message Across, Spring Echoes*). Information is often presented in a misleading or confusing manner. These days I dedicate part of my free time in student organizations to help others (and myself) develop better communications methods. Finally, I would like to point out that Professor [Richard] Layton's class on visualizing data was my first exposure to issues with presenting scientific data. I owe a great deal of initial interest on this matter to his class.

—Victor M. Aquilar (BE, 2014)

Singing Their Praise

I had the pleasure of being a student early in Sam Hulbert's presidency. Here's a story that typifies the graciousness of Sam and Joy Hulbert.

A group of Lambda Chi Alpha fraternity members headed out one evening before Christmas to sing carols around town. One of our impromptu stops was the Hulberts' home. We expected to stand outside, sing a couple of carols, and move on. Instead, after singing, we were pleasantly amazed to be invited into the home of our new president. It was delightful to watch as Sam and Joy sprang into action to welcome these unexpected guests. Sam produced a punch bowl and filled it with a delightful yuletide concoction, while Joy dove into the kitchen and came up with holiday treats for all of us. Their graciousness and hospitality that evening astounds me to this day.

—David S. Allen (ME, 1977)

Shook's Home Court Edge

Thanks for including a picture of me and others from the Shook Fieldhouse feature in *Spring Echoes*. I do remember the generator, but I certainly don't remember flipping the switch.

Shook Fieldhouse was certainly a home court advantage, with the siren, cannon, and other items. But probably more important were the vast open areas behind each basket. This impacted the depth perception and shooting percentages of the opposition.

And, most importantly, I was also fortunate enough to play on arguably the best team in Rose-Hulman history, the 1976-77 edition, coached by legendary John Mutchner, that went 24-4 and lost in the Elite 8 round to NCAA Division III national champion Wittenberg University. That [Rose-Hulman] team had the talent and team chemistry to win in any venue, with Steve Van Dyke, Dave Sutherland, Roger Edelbrock, Mark Givan, Jeff Justus, Terry Maddux, Mark Hodson, Jim Boerger, and George Bowman... a collection of great players and teammates.

Thanks for bringing back great memories!

—Mike E. Griggs (ME, 1978)

We welcome getting feedback on stories in each issue. Send Elephant Ears items to: dale.long@rose-hulman.edu or Dale Long, executive editor-Echoes, CM 14, Rose-Hulman Institute of Technology, 5500 Wabash Ave., Terre Haute, IN 47803.

Fieldhouse Tested More Than Athletes

I've enjoyed reading some of *Echoes'* articles, especially those in the Down Memory Lane section featuring the Ski Terre Haute poster and Shook Fieldhouse. I still have my original poster and it did have some influence on me attending Rose-Hulman. Probably my favorite fieldhouse memory was taking final exams there as a freshman. The final exam of the spring semester our freshman year was Calculus III, which was given at night. (The Mathematics Department could be cruel.) As freshmen walked out into the lobby after completing the final exam of our first year at Rose-Hulman, many of them gave a loud yell of completion, and joy that could be heard by the rest of us still taking the exam. It wouldn't be the last time that we were happy to complete an exam.

—Steve D. Nolan (ME, 1981)

Caring Overture—New Tradition?

I wanted to pass along a great idea done this past spring by a few alumni, including Leah (Smith) Downer (CHE, 2001), my sister Shilpa (Lad) Amato (CHE, 2002), and some of their friends. Random care packages were sent during finals week to whomever occupied their old campus mailbox number and/or their freshman residence hall room. This project was done to honor the legacy of former President Sam Hulbert. Hopefully this idea catches on to become something alumni do throughout each school year.

—Ashvin Lad (CHE, 1996)

Student Union Changing with the Times

\$9M Gift Providing a Foundation for Healthy Living

STORY
BY DALE
LONG

HULMAN STUDENT UNION IS GETTING A NEW LEASE ON LIFE—IN MORE WAYS THAN ONE—THROUGH A \$25-MILLION EXPANSION AND RENOVATION THAT WILL TRANSFORM THE BUILDING INTO A CENTERPIECE FOR HEALTHY LIVING AND CAMPUS ACTIVITY.

Expanded student lounge spaces, an indoor garden Living Wall, a coffee/smoothie bar, a new main dining room, new outdoor green spaces, high-tech conference rooms, and fresh spaces for career services and corporate engagement are among the features that will be developed to increase the building to 100,000 square feet over the course of the next two years.

"The facilities that will be built and improved upon will become a vibrant campus hub," says Rose-Hulman



The addition of 19,010 square feet and remodeled space in the Hulman Student Union signals a new period for the college's growth.

"With our gift, we hope to broaden students' understanding of nutritional science and provide them with healthy choices to encourage their lifelong well-being and success."

Linda and Mike Mussallem (CHE, 1974; HD, 1999)
Lead Gift Benefactors



President Jim Conwell. "At the same time, the new student union will help our students balance their academic and social experiences, and develop healthy eating habits and lifestyles."

Mike and Linda Mussallem provided a \$9-million lead gift for the project in hopes of making a positive impact on student health and the institute. Mike Mussallem (CHE, 1974; HD, 1999) is chairman and chief executive officer of California-based Edwards Lifesciences.

"We know that students come to Rose-Hulman for the opportunity to work closely with talented faculty, and pursue studies that will provide them with meaningful and fulfilling career opportunities," remarked the Mussallems when announcing the gift this spring. "With our gift, we hope to broaden students' understanding of nutritional science and provide them with healthy choices to encourage their lifelong well-being and success."

"The Living Room" with its live plant will offer more space for lounging, a coffee/smoothie bar, and a new café with a kitchen where chefs will demonstrate the preparation of healthy meals.

We're pleased to be able to help Rose-Hulman provide students with a beautiful new venue, which will create community and empower positive health habits for the future." (See story about Mike and Linda Mussallem on page 8.)

Conwell says the Mussallems' gift is enabling Rose-Hulman to achieve a long-range strategic goal of enhancing student facilities across campus to meet emerging needs. He also acknowledged the support of the Hulman family, whose name will continue to be memorialized on the building.

"We are committed to maintaining our national reputation for excellence, and are very appreciative that the Mussallems shared our vision to provide leading facilities for students and other members of the campus community."

(CONTINUED ON NEXT PAGE)

A PEEK INSIDE: NEW FEATURES

The renovated and expanded Hulman Student Union will boast:

- An expanded student lounge ("The Living Room"), with a coffee/smoothie bar, a Living Wall, and a new café with a kitchen where chefs will demonstrate the preparation of healthy meals
- A completely new main dining room, with updated food service spaces
- A new 120-person lower level dining/meeting space ("The Lake Room")
- Fresh, modern spaces for the Office of Corporate Engagement, with additional as well as refurbished conference rooms
- High-quality audio-visual technology
- New furnishings and fixtures
- An expanded and configurable faculty/staff dining room
- New outdoor patio and gathering areas, including conversion of "Scum Pond" into a campus green
- New driveway/access/entrance to the front door, with a new loading dock (re-routing truck traffic away from center of campus) at the rear of the building (northwest corner)

FROM 'SCUM POND' TO GREEN SPACE

One of the first tasks in the expansion project was filling the smaller of two campus ponds, affectionately known as "Scum Pond," between the Baur-Sames-Bogart residence hall and the Hulman Student Union. The area will become landscaped green space for students to relax, hold events, and have fun.

An interesting aspect campus officials discovered is that the "Scum Pond" label is as old as the institute's move to its present location on property donated by the Hulman Family to support the growing college.



The menu has been spiced up, literally, for students, with Moroccan spiced carrots, spicy pasta pomodoro with tuna, and wild Alaskan salmon. There's fresh fruit and vegetables, specialty pizzas, and vegan meals, too.

(CONTINUED FROM PREVIOUS PAGE)

Work commenced on the project in late spring, with thousands of tons of dirt filling the smallest of two original campus ponds, "Scum Pond," to make way for green space inviting recreation and relaxation.

(See sidebar this page)

Erik Hayes (ME, 1997; MSME, 2001), vice president for student affairs and dean of students, notes that students have expressed their desire for better places on campus for social activities, and where they can gather away from the demands of their academic pursuits.

"We're creating an exceptional experience for our students," Hayes remarks. "The most important gain is not about the building's features, amenities, and architecture; it's about the culture that we're building, the opportunities we're creating for a better quality of life, stronger relationships, and healthier food options. We're not just building a building, we're creating greater camaraderie. Students will gravitate toward it."

The campus' new food service provider, Bon Appétit, provides fresh-cooked, on-site, restaurant-

Rose-Hulman's new food service provider, Bon Appétit, specializes in providing fresh-cooked, on-site, restaurant-quality food from scratch made by chefs. Its Farm to Fork program incorporates products from local farmers.

"Everywhere we looked throughout our archives, the pond was referred to as "Scum Pond," says President Jim Conwell.

For this expansion project, water from the pond was pumped into the larger Speed Lake, and all fish and turtles also were transferred to a new home nearby. Contrary to expectations, no unusual objects were found at the bottom of the drained pond.

"I thought for sure that we would find computer parts, laptop computers, and furniture at the bottom," says Vice President for Student Affairs Erik Hayes (ME, 1997; MSME, 2001). "Maybe any discarded items were covered up by the muddy bottom throughout the years."



"The most important gain is not about the building's features, amenities, and architecture; it's about the culture that we're building, the opportunities we're creating for a better quality of life, stronger relationships, and healthier food options."

Erik Hayes (ME, 1997; MSME, 2001)
Vice President for Student Affairs & Dean of Students

New and refurbished conference rooms, a suite for the Office of Corporate Engagement, and refurbished existing offices—all with state-of-the-art technology—will help students be prepared for tomorrow's high-tech work environment.

quality food from scratch made by chefs. Its clients include universities, corporations, museums, and specialty venues. Known for its Farm to Fork program featuring products from local farmers, the California-based company has been named a Most Innovative Company in Food by Fast Company, and four of its university clients were on the Princeton Review's recent Best College Food list.

Hayes notes that the new food service has expanded hours, starting this school year, to meet busy student schedules, and Sunday dinner is available for the first time in decades. The coffee shop/smoothie bar also provides another option.

"This is what students have desired for many years," says 2016-17 Student Government Association President Jayme Brace, a senior biomedical engineering major. "The plans look amazing. I'm really excited to see how it

develops during my remaining year on campus, and return as an alumna to enjoy the end results."

Rob Coons, Rose-Hulman's senior vice president and chief administrative officer, points out many of the building's sustainable design features, including the Living Wall, environmentally friendly landscaping around the perimeter of remaining Speed Lake, and energy efficiency gains in new high-efficiency heating and air conditioning systems. Exterior design features, such as a glass expanse that echoes nearby White Chapel and a lighted tower at its front door, will be visible across campus.

"This expansion will enhance the visual appeal of our campus in both interior and exterior spaces," Coons says. "With its park-like setting and new green spaces, as well as its impressive architecture, it will be a welcoming beacon."



Through Gift, Couple Puts Healthy Living on the Table

STORY
BY DALE
LONG

As someone who has spent most of his professional career bringing innovative healthcare technologies to patients in need around the world, it's not surprising that alumnus Mike Mussallem shares with his wife, Linda, a deeply rooted desire to promote healthy lifestyles.

That commitment inspired the couple to support Rose-Hulman's efforts to make a positive impact on students through the Hulman Student Union expansion, incorporating an emphasis on health and wellness to benefit them not only as students, but also in their future as alumni.

"It was the right project at the right time for us," says Mike (CHE, 1974; HD, 1999), chairman and chief executive officer of Edwards Lifesciences, about the couple's \$9-million lead gift to the project, which broke ground in late May.

As self-described "typical Midwesterners," the Mussallems became more aware of the many positive effects of healthy living upon moving to California in 1988.

"As we settled in California, we noticed more people taking an interest in personal fitness and healthy eating," says Linda. "We were inspired to make some changes in our own habits and, through this, better understood the positive effects that result from a healthy lifestyle."

As Mike visited Rose-Hulman for Homecoming in 2014, he realized in spending time on and around campus that the options for healthy menu selections were limited. "I thought back to my time in college, and began to consider the potential to enhance the entire campus experience," says Mike. "I'm fortunate that through my work, I get the opportunity to visit many university and academic hospital campuses, and we are in the midst of a campus upgrade at Edwards. There is a trend toward creating 'living spaces' where people can gather to work, collaborate, dine, and create community. Linda noticed how enthusiastic I was about the changes we were making at Edwards, and as we discussed it, the idea to do the same at Rose-Hulman took shape."

Linda adds, "We felt that if steps could be taken to create a welcoming environment and expose engineering students to nutritional science, their lives could be positively impacted during their college years and well beyond."

The Mussallems introduced Rose-Hulman to its new food service provider, California-based Bon Appétit, whose chefs cook from scratch utilizing healthy and sustainable sources. A Demonstration Kitchen feature will have chefs teaching students how to prepare healthy meals, incorporating fruits and vegetables into their diets, which will provide them practical skills for use on campus and after graduation.

"We believe there's a correlation between healthy lifestyles and being able to live longer and better. And, it's much more than working out in a gym. It's understanding food, learning to remove stress from your life, and enjoying relationships with others," Mike says. "By taking these steps, Rose-Hulman is taking positive steps to impact its students in life. The college already makes an incredible impact on a student's career success and impact on the world."

Growing up in the shadows of steel mills in Gary, Indiana, Mike was attracted to Rose-Hulman's unique culture, outstanding reputation, individual attention, and the promise of interesting career opportunities. Upon graduation, Mike joined Union Carbide's new plant near Chicago, which is where he also met Linda. After a few years at Union Carbide, Mike had a desire to apply new technologies to the development of products that could enhance lives. That led him to join Baxter International and, over the course of 20 years, he gained increasing responsibility in engineering, product development, and general management.

In 2000, he became chairman and chief executive officer of Baxter's spin-off, Edwards Lifesciences. Today, the company is a global leader in the development of patient-focused medical innovations for structural heart disease and critical care monitoring. In this leadership role, Mike has become an advocate for how technology can improve patient care throughout the world. He has testified before congressional committees on the importance of innovation in addressing healthcare challenges.

"Innovation is the key to healthcare's future," he says. "The public discourse has been so preoccupied in recent years with cost containment throughout the system. Now we have to ensure that we keep motivating innovation in care. That has always been, and will continue to be, a key element in advancing healthcare."

Linda and Mike Mussallem are helping provide Rose-Hulman students with a beautifully enhanced student center, which will create a better campus community and empower positive health habits.

**LARRY HOWARD
FOLLOWS NATURE'S
GUIDEBOOK FOR
SUSTAINABLE FARMING**

NATURAL DIRECTION

STORY BY
**STACEY
MUNCIE**
PHOTOS
BY **BRYAN
CANTWELL**

On a sunny hilltop clearing in rural Monroe County, Indiana, Larry Howard (EE, 1989) pauses. Nearby, a mixed herd of cattle, sheep, and goats moves through tall prairie grasses, the rhythmic sounds of chewing and gentle swishing of tails drifting lazily through the summer air.

"It's like being on a beach out here, just listening to the animals munch," Howard observes.

The scene stands in stark contrast to Howard's previous career as an engineer for the Department of Navy, when he developed sonar systems for mine hunters in the Persian Gulf, intelligence gathering electronic warfare systems aboard aircraft carriers, and tactical software systems. It was the early 2000s when he and his wife, Tina, first began to tinker with farming as

a family business. They soon realized, however, that conventional farming wasn't for them.

"Holistic and natural farming was a good fit because it doesn't use chemicals and a lot of heavy machinery and the infrastructure tends to be light enough that even children can work with it," he says.

More than a decade later, Maple Valley Farm has grown from raising sheep into a diversified, grass-based operation meeting an increasing demand for sustainably raised meat and eggs. Larry, Tina, sons Ethan and Grant, and daughter Elena raise cattle, pigs, sheep, goats, chickens, and turkeys to feed members of a limited partnership called Harvest Partners.



(CONTINUED ON NEXT PAGE)

FARM FRESH

(CONTINUED FROM PREVIOUS PAGE)

The Howards use techniques modeled after nature's own blueprint. You won't find half-million dollar GPS-equipped combines or manure lagoons on this farm. Instead, the tools they employ are decidedly low-tech, natural, much less invasive, and far less expensive.

ALWAYS ON THE MOVE

Rotational grazing is more labor-intensive, but it is the cornerstone of the family's holistic approach to farming.

"Everything we do, the farm animals are moving all of the time," Howard explains as 15-year-old Ethan and 11-year-old Grant adjust the position of the electrified fencing that is used to keep the animals in place. Minutes earlier, the boys had released the herd into a newly enclosed grazing area, the animals making a beeline to the buffet of fresh forage.

Most of the animals at Maple Valley Farm are moved daily. Poultry rotates into areas vacated by the herbivores—"birds follow herds" as Howard calls it. Chickens and turkeys, he explains, scratch up and distribute the manure, cleaning up the corresponding fly larva while enriching the soil, just as they do in nature. Pigs root up the earth, turning it over to incorporate manure and organic matter.



"In nature, everything moves, all the time. Herbivores move away from their manure and pests to fresh forage. We mimic that by moving the animals continuously," he says.

Biomimicry is a method of emulating nature to provide sustainable solutions to human challenges—in this case, raising livestock in a way that makes the earth, the animals, and the people who consume the animal products healthier. For example, Howard notes, grass-fed meat and eggs have been shown to have higher levels of beneficial CLA



and omega-3 fatty acids; animals that are raised in the open air have less illness; and soil fertility is increased by emulating the natural cycle.

Holistic farming, Howard is quick to point out, is no less challenging than developing tactical software and sonar systems.

"I think this has just as much depth and is just as knowledge-intensive as engineering," he says. "It's problem solving. The problem on the farm can be anything from how to get X number of generally uncontrollable animals from point A to point B, to devising a business model that 'sweet spots' value to the customer while optimizing labor and capital inputs."

SAVORY INVESTMENTS

One challenge the family has faced is learning how to navigate ever-evolving regulations on small producers. It was those kinds of obstacles that motivated them to adopt a new business model, stop selling their products at farmers markets, and cease selling meat altogether. With their limited partnership, the Howards serve as managing partners for an operation that allows all of the partners to savor their return on investment, in the form of food.

Among those members is Julia Williams, Rose-Hulman's professor of English and executive director of institutional research, planning, and assessment. She met the family while seeking locally, organically, and humanely produced meat and eggs.

"Being a partner means that we have invested in this approach to food sourcing, and we are deriving many benefits as a result," Williams says. "The egg yolks are rich with nutrients, a deep yellow orange. The chicken is flavorful, definitely the result of a diet of insects and outdoor living, rather than corn feed and restricted movement."

Since forming Harvest Partners earlier this year, Howard says, the partnership has reached half of its membership goal of 50 people. That number may seem small, but he emphasizes that he is not interested in being the biggest. It all comes back to his overarching philosophy of biomimicry.

"In nature, there is a healthy, optimized limit to the growth of all things," he says. "Small family farms should be able to stay small, while fully supporting a cohesive and happy multigenerational family."

The ultimate question, he adds, is, "Two hundred years down the road, is our family still going to own the land? Is the land going to be better?"



Animals on Larry Howard's farm enjoy plenty of fresh air and sunshine as they forage through green pastures and wooded hillsides.



STORY BY
DALE LONG
PHOTOS BY
BRYAN
CANTWELL &
LAURA DAVIS

"Beekeeping is the type of hobby that spreads. People love doing it and their friends see that. It takes very little equipment to get going."

Rich Morris (EE, 1980)
Leader, BroodMinder Organization

SWEET SPOTS BUSINESS IS BUZZING FOR THESE ALUMNI

If you've ever been in the middle of rush-hour traffic in any major city throughout the world, you can appreciate the activity level of a honey bee colony that hits a feverish pitch each spring and summer.

Each day, up to 80,000 individual bees are making their forays to collect pollen and nectar from plants. From these two

ingredients comes honey, which is stored in combs for the winter and harvested to provide a natural sweetener for health-conscious humans. And, in another parallel to the big city, a colony's survival depends upon a diverse population of bees to perform specific tasks—the powerful queens, dedicated male drones, and well-trained workers to provide fertilization, food, and wax for the hive's structure.

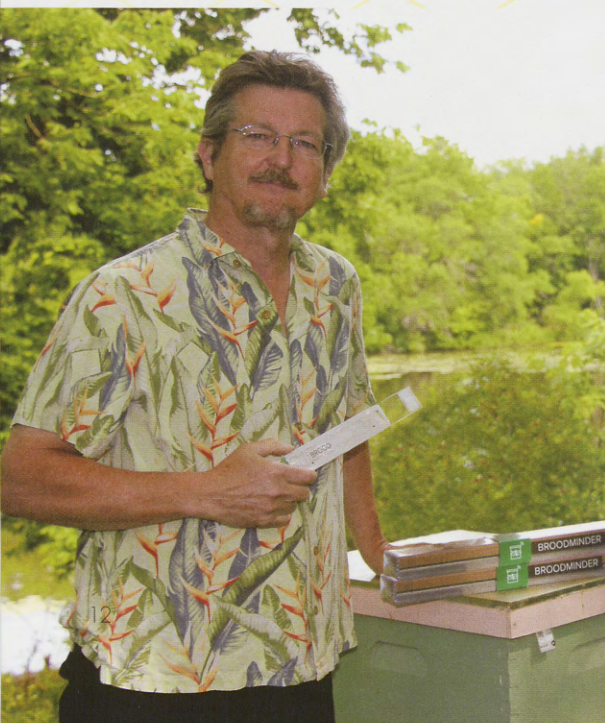
This activity has fascinated Midwest beekeepers Rich Morris (EE, 1980), Joe Bastin (CE, 2003), and Ross Hunter (BIO, 2016), who have taken their science and engineering interests to a new level.

Rich Morris created the BroodMinder entrepreneurial enterprise to help beekeepers monitor hive activity. He has four hives at his farm near Madison, Wisconsin.

"I have been absolutely intrigued by the 'super organism' aspect [of beekeeping]," says Morris, who has four hives on his small farm near Madison, Wisconsin. "A hive exhibits a lot of complex behaviors, yet each participant is an independent operator with no oversight of the entire operation. Somehow evolution has instilled genetically passed behaviors that cause these independent operators to act in concert for the good of the hive. It's amazing."

Morris was stung by the beekeeping bug nine years ago when a single hive he owned produced nearly 12 gallons of honey during the first summer. Striving to recreate that success ever since, he has turned his part-time hobby into a full-time business with technology that's unlocking the mysteries within each beehive.

"Beekeeping is the type of hobby that spreads. People love doing it





and their friends see that. It takes very little equipment to get going," Morris says.

Getting those supplies and equipment is where Bastin comes in. After starting with one hive 10 years ago, Bastin's family now operates the largest beekeeping supply store in Indiana (Bastin Honey Bee Farm in rural Knightstown). It provides a full line of equipment, accessories, and bees. Meanwhile, nearly 400 colonies within the farm produce honey and honey-based products (soaps, lip balms, beeswax candles, and creamed honey) sold at retail locations throughout central Indiana, including a farm-based store that Bastin operates. He also maintains the store's website (bastinhoneybeefarm.com) and social media presence, and designs yearly catalogs for an expanding online commercial operation.

"Seeing bees at work is awe-inspiring and mesmerizing," says Bastin, who joined the operation full time several years ago. "It is easy to get caught up watching a hive work and seeing all of the intricacies of the species. This is not only true for hives out in the field, but also for the glass-contained observation hive in our store. It allows you to melt into a very small part of our world that is so very critical to our existence."

Hunter may be the youngest of the alumni beekeepers, but he's been part of his fourth-generation family enterprise, Hunter's Honey Farm, for his entire life. The 500-hive operation, located across 75 acres near Martinsville, Indiana, transports bees throughout the state to pollinate fruit trees, and

sells 12 different honey varieties, beeswax candles, and honey-covered popcorn and beef jerky.

"Being around bees has made me appreciate the little things in life and realize how important the simplest things are to every link in the food chain," says the recent graduate.

These alumni are using technology and science to help uncover some of beekeeping's greatest mysteries, and possibly impact other apiarists.

With each passing winter Morris would become frustrated when

(CONTINUED ON NEXT PAGE)

"Seeing bees at work is awe-inspiring and mesmerizing... It allows you to melt into a very small part of our world that is so very critical to our existence."

Joe Bastin (CE, 2003)
Bastin Honey Bee Farm



SPECIAL INTERESTS

(CONTINUED FROM PREVIOUS PAGE)

Wisconsin's frigid winter seasons killed two-thirds of the bees that lie dormant in his hives. He wasn't alone. It is estimated that Midwest beekeepers lose as much as 60 percent of their bees annually from weather and bee-killing varroa mites. Through extensive research, Morris came to the conclusion that many of bees were dying from preventable causes.

Seeing a possible entrepreneurial opportunity, Morris conducted a successful crowdfunding campaign, supported by other Midwest beekeepers, which created BroodMinder in July 2015. The goal behind BroodMinder is to install temperature and humidity sensors to provide data to a central database about trends and patterns within a national network of hives. A specially designed BroodMinder-W sensor was introduced into approximately 200 hives this

"Engineering has found its way into most of my endeavors over the years, and beekeeping is no different... Beekeepers must be prepared to learn and grow at every turn"

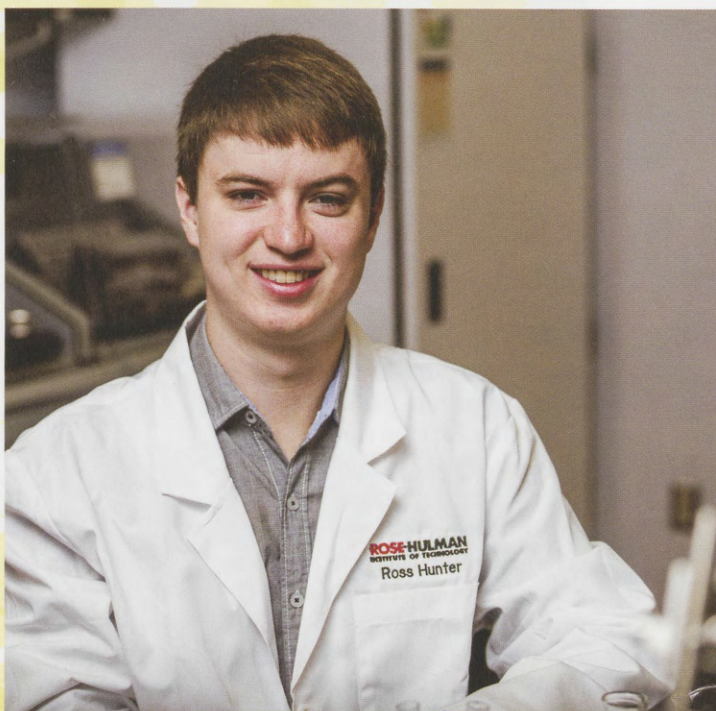
Joe Bastin (CE, 2003)
Bastin Honey Bee Farm

past June and is beginning to extract data. A software application will eventually distribute information to clients through the Internet of Things, utilizing Bluetooth Low Energy communication technology. The goal is to gather information from 10,000 hives during 2017.

"We can't fix or affect what we can't measure," remarks the former medical systems engineer. "We believe that through the social interaction of our national client base, we will discover great things."

Meanwhile, Bastin is working with the Indiana Queen Breeders Association to track the genetic trait management of honeybees. This work aims to breed a healthier and more adaptable bee that can withstand the varroa mites, diseases, and other natural and human disturbances.

"Engineering has found its way into most of my endeavors over the years, and beekeeping is no different," Bastin says. "The hives may be the same size and shape they were in 1910, but beekeeping practices are constantly adapting to changing environmental



Fourth-generation beekeeper Ross Hunter explored the accuracy of long-range weather predictions in *The Old Farmer's Almanac* for his senior-year biology thesis.

factors. Beekeepers must be prepared to learn and grow at every turn. The skills I learned as an engineer allow me to keep on the leading edge and transfer that information to other beekeepers from all walks of life in a timely and clearly understandable method."

And for his part, Hunter has explored the accuracy of long-range weather predictions in *The Old Farmer's Almanac*, the planting bible for most farmers and household gardeners. For his senior-year biology thesis he compared actual weather data with the almanac's original prediction covering May through October of 2015. While Hunter admits a more extensive study is required, his novel assessment indicated that the almanac's daily temperature and precipitation predictions did not meet the publication's 80 percent accuracy claim "nor should they be relied upon more than the probability given by chance," he says.

ENERGIZED

STORY BY
ARTHUR
FOLKES

ALUMNI WORKING TOWARD A **SUSTAINABLE FUTURE**

In the struggle to reduce the world's man-made carbon emissions, Kris Zadlo (EE, 1989) and David Miller (CHEM, 1990) have assumed commanding roles.

Zadlo is a senior vice president at Invenergy, a clean energy company whose battery storage efforts have gotten national acclaim. And



Kris Zadlo is senior vice president of regulatory affairs, storage, and transmission for Invenergy, a Chicago-based clean-energy business. The company has developed utility-scale wind, solar, natural gas, and power storage projects in the U.S., Canada, and Europe.



David Miller leads the U.S. Department of Energy's Carbon Capture Simulation Initiative, a partnership between research universities, national laboratories, and industry.

Miller is leading the federal government's effort to help private industry find faster and better ways to keep carbon emissions from entering the earth's atmosphere.

"We believe energy storage has the potential to be a transformative force in the evolution of the electric grid," says Zadlo, who has more than 20 years of experience in power generation. "We are just starting to scratch the surface of what advanced energy storage can provide for the grid, and we are tremendously excited for what the future holds."

Turning the traditional power grid into a flexible, bidirectional network, large-scale energy storage, such as that provided by Invenergy's Grand Ridge Battery Storage Facility in Illinois, is widely seen as key to successful renewable energy development. The industrial-sized batteries are about the size of a house trailer.

Scientific American calls energy storage the "missing link" in the evolution of green energy.

Last year, under Zadlo's leadership, the Grand Ridge facility was named Renewable Project of the Year by two trade publications, and also received Energy Storage North America's 2015 Innovation Award.

CAPTURING CARBON

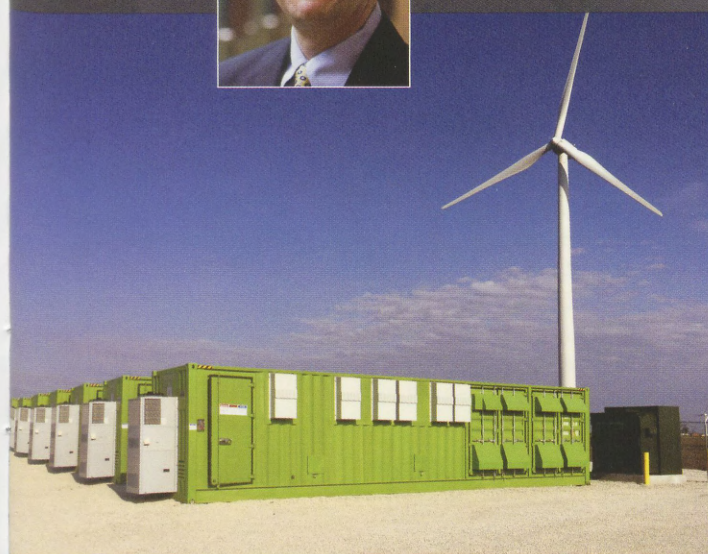
Miller, meanwhile, leads the federal government's Carbon Capture Simulation Initiative

(CCSI), a coalition of national laboratories, research universities, and industry partners. With his leadership, CCSI is creating the computational tools needed to accelerate the introduction of carbon capture technology at factories and power-generating stations.

"A project like this is absolutely essential to help meet the need for carbon capture technology at a faster pace, at a lower cost, and lower technical risk," Miller says. So far, the project has been a "phenomenal success...It's great to come to work and know I am making a difference."

Currently, bringing technology online at an actual industrial facility can take between 20 and 30 years. With CCSI's help, industries should be able to reduce that time by as much as 30 percent. In fact, the first generation of computational tool sets was released in 2012, a full year ahead of schedule. The next phrase, CCSI2, will launch this year. It will focus on applying the ever-improving tool set to specific industrial projects where actual scale-up is taking place.

In recognition of his leadership of CCSI, George Washington University's Trachtenberg School of Public Policy and Public Administration presented to Miller the 2014 Arthur S. Flemming Award for "outstanding men and women in the federal government."



CHARGING INTO THE FUTURE

ALUMNI DRIVING ELECTRIC CAR TECHNOLOGY



Developing technology that has been central to General Motors' electric vehicles division are Greg Hubbard, left, and Anthony Heap.

NEARLY A DECADE AGO, A HIGHLY REGARDED DOCUMENTARY FILM TURNED HEADS BY ASKING THE QUESTION "WHO KILLED THE ELECTRIC CAR?" IT SPOTLIGHTED VARIOUS FORCES AND CIRCUMSTANCES THAT IN THE 1990s STEERED A GENERAL MOTORS BATTERY-FUELED VEHICLE TO AN EARLY DEMISE.

STORY
BY **STEVE
KAELBLE**

But to paraphrase Mark Twain, reports of the electric car's death may have been greatly exaggerated. During roughly the timeframe depicted in the movie, two students at Rose-Hulman were becoming intrigued about electric cars through the institute's solar-powered car program. Both landed careers at GM,

where they've been developing technology central to an increasingly bright future for electric vehicles.

Greg Hubbard (ME, 1994) is chief engineer for GM's Volt Propulsion Systems, while Anthony Heap (ME/EE, 1997) is global technical specialist for the automaker's electrification propulsion

controls program. They spent years working on hybrid drive technology that's still powering city buses throughout the world, before re-energizing GM's consumer electric vehicle business.

Meanwhile, Matthew Leach (ME, 1994) is vice president of operations for Essex Group Inc.'s Magnet Wire North America. He has worked with Hubbard and Heap to develop some of the technology inside the electric motors powering GM's electric vehicles.

"We intend to be the first to market a 200-plus mile electric vehicle at a price that's affordable," Hubbard says, referring to the 2017 Bolt EV, an all-electric Chevrolet that will whisper off dealer's lots for as little as \$30,000, after factoring in federal tax credits.

That 200-mile range from the Bolt's fully charged battery is a key to overcoming "range anxiety"—debunking the belief that an all-electric vehicle won't make it far enough to be practical. Then, GM's companion Chevy Volt is a vehicle whose electric motor has a range-extending gasoline backup option. It runs entirely on electricity for 53 miles before the gasoline engine kicks in to provide hundreds of additional miles of range for the rest of the owner's desired long-distance journey.

As it turns out, says Hubbard, the Volt's 53-mile range is more than enough for most commuters. "Research says about 80 percent of trips with a Volt are all-electric," he points out. Customers appreciate the comfort level of the Volt's gasoline backup—and they're also likely to really be pleased by the Bolt's more than 200-mile capability.

Another surprising aspect of the newfangled electric cars is their peppy drivability characteristics. "Electric vehicles drive better. They're more responsive, smoother, and quieter," Heap points out.

"A lot of people are realizing that you can get higher performance out of an electric motor," agrees Leach. "I do foresee that it is going to be the technology of the future, moving forward. There are a lot of benefits."

The road toward consumer adoption of electric vehicles has been anything but speedy, though. As Hubbard notes, "It's really hard to compete with a gallon of gasoline." Hybrid and electric vehicles make up roughly 4 percent of the market, and it's taken two decades to get to this point.

Several developments promise to give new spark to electric vehicles, though.

There's always a quest for better technology, of course. Heap, for example, specializes in the electronic controls that maximize performance and minimize power consumption, and he's already up to nearly 200 patents in this area. Engineers continue to improve the performance of batteries, too, and this is a key to both affordability and greater range.

Beyond that, though, GM and other manufacturers are radically rethinking the whole model of vehicle use, imagining a new world where electric vehicles could really thrive. "At GM, we're investing heavily to be not just a car company but a mobility company," Hubbard explains. The company earlier this year obtained a half-billion-dollar

stake in the ride-share company Lyft and acquired Cruise Automation, developer of autonomous-vehicle technology.

This is opening an entirely new paradigm that relies on electric vehicles. The key to being a mobility company is about getting people where they need to be. GM and a number of competitors are betting that consumers in urban areas in the near future won't own a car at all, but instead will summon self-driving electric vehicles to get wherever they need to go. "GM's vision is to develop an on-demand autonomous ride sharing network using electric propulsion," Hubbard explains.

The GM duo has always been on the cutting edge of technology. Hubbard was a member of

The road toward consumer adoption of electric vehicles has been anything but speedy, though. As Hubbard notes, "It's really hard to compete with a gallon of gasoline."

Rose-Hulman's solar car team that competed in the Sunrayce 93 cross-country road competition, while Heap was a member of two other teams, including being mechanical team leader for the institute's Sunrayce 97 entry. "It's overwhelming to think that we actually took something from scratch to something we were driving on a public road," Heap says. It was a good introduction to what we have been doing now in the industry."

Yes, Hubbard acknowledges, the thrill of being at the forefront of electric car work has been "quite a ride."

STUDENTS PLANT SEEDS TO BRING FARM-FRESH PRODUCE TO CAMPUS

STORY BY
ARTHUR
FOULKES

ROSE GARDEN

Adorning a quiet green meadow, a modest walk from busy classrooms and laboratories on campus, a lush new garden is taking root after being planted this spring by members of the institute's new Gardening Club.

Sprouting up from its black soil are tomatoes, peppers, celery, cabbage, lettuce, spinach, and other crispy produce. And, if all goes well, these crops may someday fill the dinner plates of hungry classmates.

"A lot of people think it's impossible to grow your own food," says sophomore Taylor Secrest, a chemical engineering major who launched the club last year. It now boasts more than two dozen student members. The organization's goal is to teach students about agriculture while introducing them to farm-fresh food. "Most people don't think about where their food comes from," he says.

Last spring, club members built 14 raised planting beds and later filled the beds with 32 tons of soil. Then, unused grassland on the east side of campus was transformed into a fertile garden. Hoop houses



Taylor Secrest (above) founded the Gardening Club during his freshman year. He wants to make fresh produce more available on campus and cultivate an interest in gardening in his fellow students. In its first year, the club grew to more than two dozen members.

Many of the new garden's plants got started in the campus greenhouse, constructed several years ago on the east side of campus by freshmen in the Home for Environmentally Responsible Engineering (HERE) program.

FRESH IDEAS

In its first summer, Rose-Hulman's new garden was rich with fresh produce. The first crops included tomatoes, peppers, celery, cabbage, lettuce, spinach, shad, potatoes, green beans, watermelon, squash, cucumber, zucchini, strawberries, black raspberries, raspberries, and pumpkins.

are being planned to permit year-round growing, and a deer fence will be placed around the garden.

"I love agriculture and teaching others about agriculture," remarks Juliann Apple, a sophomore civil engineering major and the club's vice president. After growing up in a Central Indiana farming family, Apple says working in the campus garden "makes me feel like I'm at home."

Several club members are alumni of the Home for Environmentally Responsible Engineering program, a campus living-learning community for first-year students interested in the impact engineers and scientists can have in the world. The garden reflects their commitment to sustainability. Dining hall food waste provides compost material, irrigation comes from a nearby spring-fed pond through a solar-powered pump, and flowers and other plants serve as natural insect repellent.

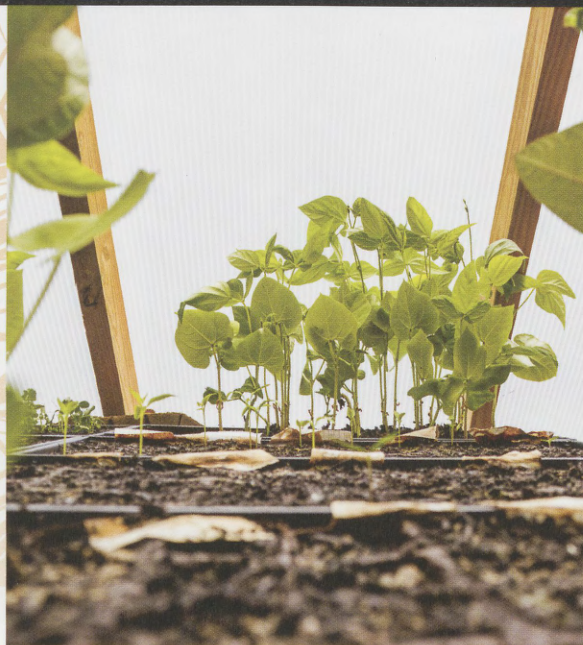
The next step will be introducing farm-fresh produce to Rose-Hulman students. Club leaders are working with the new campus food service provider, Bon Appetit, to get the garden's produce on the daily food service menu.

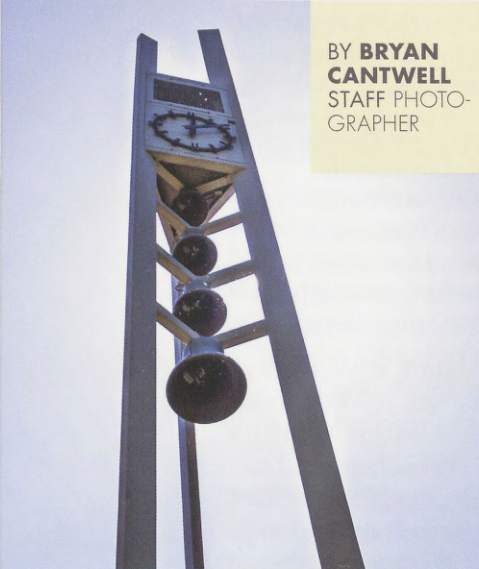
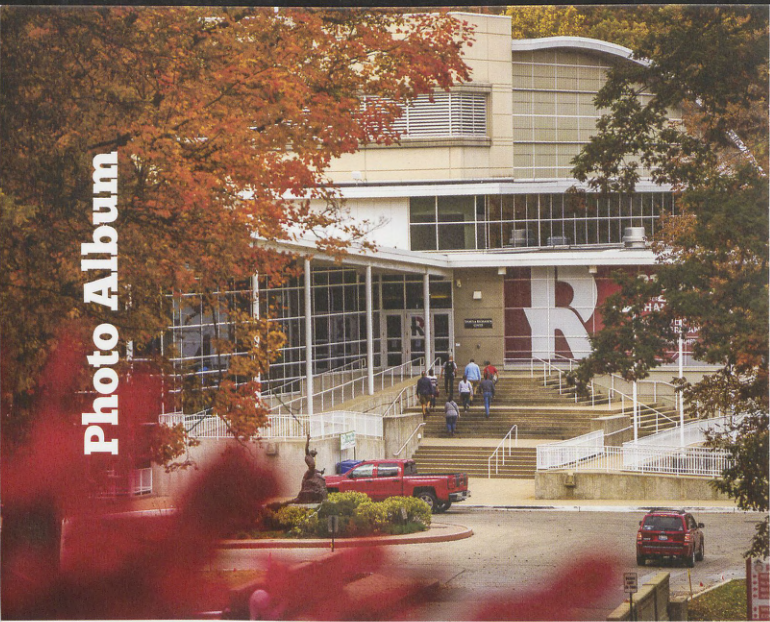
"Taylor and I have plans to hold canning classes with the produce that comes from the garden," adds Apple. "Also, we have considered organizing a cooking class in the new space that will be available in the student union." (See pages 4-7)

Gardening experience is not a requirement for club membership. In fact, novice gardeners are readily welcomed.

"I would love to see more students who don't have any knowledge of gardening join the club," says Apple. "The Gardening Club is my way of continuing my passion for agriculture at Rose-Hulman."

Barrels filled with water absorb heat during the day and release the heat at night, helping to regulate the temperatures inside a campus greenhouse.



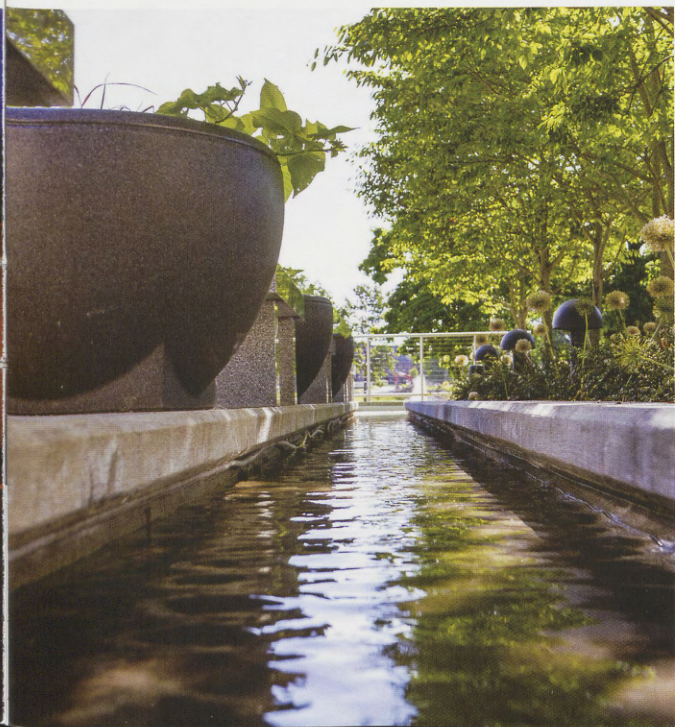


BY **BRYAN CANTWELL**
STAFF PHOTO-
GRAPHER

Campus Kaleidoscope

Every season brings different colors to create picturesque scenes throughout our 200-acre campus, captured by Bryan Cantwell's keen eyes and camera lens. If you haven't been back in a while, we would encourage you to make plans to attend Homecoming September 30 through October 2 (See Schedule on Page 34) or any other time during the year. You will be pleasantly surprised by the altered landscape since your days as a student. And, you can see the construction underway on the Hulman Student Union, a project featured in this issue that will transform and modernize the facility and create a social hub for students. Classrooms and labs will be open for you and your guests to visit during Homecoming. Hope to see you there!





ARTificial Intelligence

STUDENTS MIX CREATIVITY & ROBOTICS
IN INTERNATIONAL COMPETITION

STORY BY
ARTHUR
FOULKES
PHOTOS
BY BRYAN
CANTWELL



Recent graduates (from left) Gunnar Horve, Josh Crook, Zach Dougherty, and Luke Drong took fifth-place honors in an international art competition in which robots were the artists. The mechanical engineering majors worked for a year teaching an industrial-grade robotic arm to create works of art.

A series of brush strokes created by an industrial robot, programmed by a team of Rose-Hulman students, captured fifth-place honors this spring in an international robotic art competition that's spurring innovation in artificial intelligence and robotics while integrating art and technology.

Recent mechanical engineering graduates Josh Crook, Zach Dougherty, Luke Drong, and Gunnar Horve spent their senior year designing a robot using multiple colors to replicate such sophisticated artworks as Edward Hopper's "Nighthawks" and Andy Warhol's popular Marilyn Monroe collage.

After struggling for much of the school year, the team achieved a breakthrough late in winter, starting with simple images of an elephant and stop sign. After that, the robot began using up to eight colors to produce park scenes, an image of the Chicago skyline, and a psychedelic cat on canvas in rapid fashion.

The contest's paintings were judged by working artists, art critics, and technologists. Online public voting accounted for 40 percent of each team's score.

In announcing this year's winners, the contest website (www.robotart.org) stated "[Rose-Hulman's team] took a fairly traditional, yet effective, approach to using a robot to paint and was popular among the online voters."

A team from the National Taiwan University earned the contest's first prize. Rose-Hulman's team received \$8,000 for its prize-winning effort, which was second among U.S. entries. Other winning teams came from Italy, Germany, England, Canada, and Egypt.

"Working on this has made me a stronger engineer in both the fields of mechanical engineering and computer science," says Drong.

Horve concurs. "This project effectively summarizes my Rose-Hulman academic career. When I talk to people about my education, I show them a video of the robot painting."

The robot art competition was started in 2015 by internet entrepreneur Andrew Conru (ME/ECON, 1990) and is scheduled to continue for another four years. David Fisher (ME, 2000), associate professor of mechanical engineering and mentor for the team, anticipates Rose-Hulman students will continue to compete.

"A typical engineering student's schedule is packed with technical courses and they have little time to be exposed to art," Conru says. "The Rose-Hulman team did a great job this year, building a platform that future teams can extend."



Rose-Hulman's robot art team created several images based on paintings by well-known artists, including Andy Warhol's Marilyn Monroe portrait montage. The team's images were popular with online voters, whose balloting comprised 40 percent of each team's score in the international robot art competition.

CRITICAL ELECTION

ROSE-HULMAN PROFESSORS TERRENCE CASEY AND ANNE WATT ARE TEAMING UP TO HELP THEIR STUDENTS UNDERSTAND THE 2016 U.S. PRESIDENTIAL ELECTION. CASEY'S "AMERICAN POLITICS AND GOVERNMENT" STUDENTS AND WATT'S "PRESIDENTIAL ELECTION RHETORIC" CLASSES ARE COMING TOGETHER FOR THEIR OWN MINI VERSION OF THE ELECTION, COMPLETE WITH POLITICAL ADS, CONSULTANTS, NEWS MEDIA, CANDIDATE DEBATES, AND VOTING.

PROFESSOR TERRENCE CASEY:

We may be witnessing a critical election—one where the electoral fabric underlying the Democrat and Republican parties changes for generations, says Casey. The turmoil is most apparent on the Republican side, where the party has split into three groups—Donald Trump supporters, Tea Party conservatives, and the establishment GOP. It's hard to know how this will shake out. "We are trying to analyze an earthquake while it's happening," Casey observes.

PROFESSOR ANNE WATT:

Campaign rhetoric in 2016 has reached modern-day lows, says Watt. "Things that used to be off limits, just aren't off limits anymore," she says, adding that a popular backlash against political correctness and the prominence of social media has contributed to a desire among some candidates to be shocking to get attention.

Watt has been studying presidential campaign rhetoric since 2004. She is widely quoted, including in the new book *Dog Whistles, Walk-Backs, and Washington Handshakes: Decoding the Jargon, Slang, and Bluster of American Political Speech*.

CASEY'S 2016 TAKEAWAYS:

- "Donald Trump's ideology is primarily about Donald Trump." His message is trust me, I know what I'm doing.
- Trump represents something unprecedented in American politics: a candidate in the tradition of Latin American populist strongmen, such as the late Juan Peron of Argentina.
- The most striking change of 2016 is sudden death of the country's 50-year commitment to free trade. Trump and Democrat Bernie Sanders both oppose free trade and attracted millions of voters. "People aren't adjusting to globalization as well as hoped."
- "Immigration is the big motivating issue" for many voters.
- "Hillary Clinton's biggest challenge is Hillary Clinton." She is an establishment candidate in an anti-establishment moment in history.

CAMPAIGN RHETORIC FOR ENGINEERS

STEP 1: Campaign Rhetoric

Rhetoric is the art of persuasion.

STEP 2:

Campaign rhetoric needs good timing and media attention to succeed.

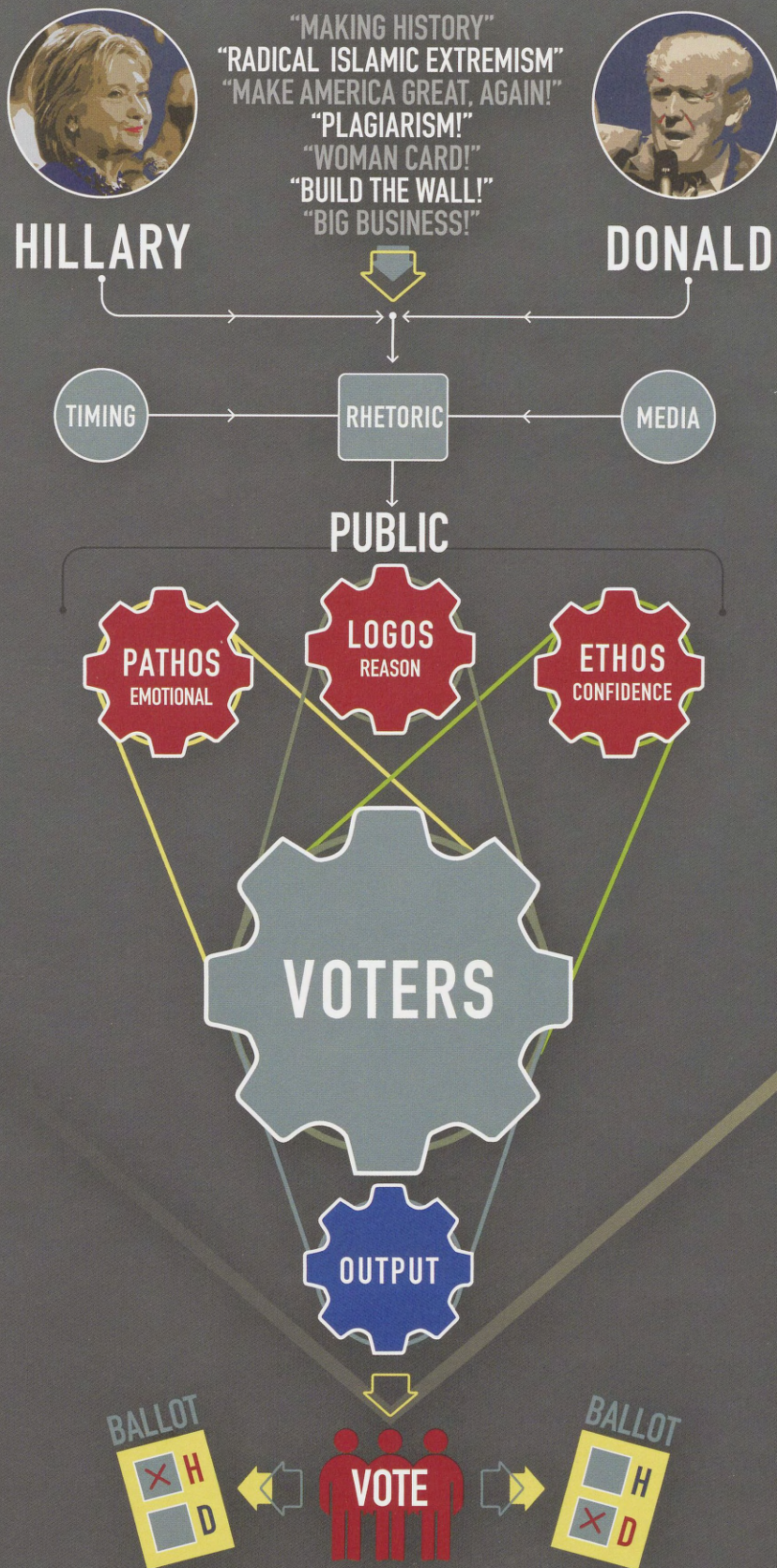
STEP 3:

Rhetoric may stimulate Pathos (emotion), Logos (reason), or Ethos (confidence) in an audience.

A single rhetorical device, such as calling for "a beautiful wall" on the U.S./Mexico border can stimulate ethos, pathos, and logos in the same people or in different people to different degrees. What seems logical to one person may be more emotional for someone else.

STEP 4: Voting

The effectiveness of campaign rhetoric will determine whether it motivates people to vote on Election Day.



Kickstarting Dreams

YOUNG ENTREPRENEURS
FINDING SUCCESS IN CROWDFUNDING

STORY BY
STEVE
KAELBLE
PHOTOS BY
BRYAN
CANTWELL

Light-bulb moments can happen just about anywhere. Beau D'Arcy (ME, 2003) was on a sailboat on Lake Michigan when his business idea hit him—an offshore luxury entertainment venue.

From a seemingly effortless idea stems the real work of transforming it into a business—particularly landing the funding so critical to turning that concept into reality. Not everyone has access to a wealthy relative or angel investor, but thanks to social media and the Internet, inventors and entrepreneurs are finding the support they need through a concept known as crowdfunding—raising funds through special sites, such as Kickstarter, that leverage the extensive reach of the Internet and are set up to accept individual donations that add up to significant dollars.

Just ask Adam Morrison (ME, 2000), Marcie (Kam) Morrison (ME, 1999), David Moser (ME, 2002), and Zacheriah Cole (ME, 2000). The group cofounded DroneRafts LLC, an Indianapolis-based entrepreneurial enterprise

that's bringing to market WaterStrider, a flotation device that enables a drone to take off and land on water. "It turns out that a lot of drone users operate in and around water, or areas where water is a good place to take off and land," explains Morrison, who serves as head of engineering and technology. The product also helps drones achieve a smooth landing on dry but rough or uneven surfaces that could damage the drone or the camera that it often carries.

The entrepreneurs launched a Kickstarter campaign during the spring of 2016, seeking to raise at least \$24,000 to help bring its idea to market. "It was specifically for ramping up production," Morrison says. "While we invested a significant amount of our own money, it's that much more cash that we would have had to come up with."

The Kickstarter model allows backers to contribute to a project at varying levels, in exchange for a potential reward. If the project has



DroneRafts LLC is an enterprise involving alumni (from left) Adam Morrison, Marcie (Kam) Morrison, and David Moser. Missing from the photo is Zacheriah Cole. They all met as students on campus.

to do with creating a new product, the reward often is the product itself, at a discount price. Investors can be acquaintances of the project creators, interested observers, or potential customers. Like most investments, a Kickstarter contribution doesn't come with an ironclad guaranteed return, so it's up to the project principals to persuade potential investors that they're competent, reputable, and capable of delivering.

DroneRafts' campaign offered everything from a T-shirt for a \$25 contribution to a \$239 WaterStrider product for a contribution of \$139 to \$179 (the earliest backers got the best deal). With support from 159 backers, the campaign surpassed its target (collecting \$24,229) and by early August the company was preparing to ship the rewards to its backers.

(CONTINUED ON PAGE 28)

A Kickstarter campaign provided funding for DroneRafts to develop WaterStrider, a flotation device that enables a drone to take off and land on water.



TIPS FOR Crowdfunding

Have a great idea that you want to develop with the aid of crowdfunding? Before you jump in, consider these tips from alumni who've tested the waters: Beau D'Arcy (ME, 2003); Grant Hoffman (ME, 2003; MSBE, 2004), a Rose-Hulman professor of practice in entrepreneurship and entrepreneur; Ashvin Lad (CHE, 1996; MSBE, 1998); Adam Morrison (ME, 2000); and Phil Rodenbeck (ME, 2010; MS ME, 2012).



Plan Carefully:

"Be super careful about what crowdfunding means—it's not like free money," Morrison warns. Plan how you'll use your crowdfunding proceeds. "You have to deliver something, and that costs money."



Vet the Idea First:

"Talk to people who would be your potential customers and be sure they are able to see it as valuable," says D'Arcy.



Dig into Details:

"Don't underestimate the challenges of preparation and execution," Morrison says. Your campaign needs to be well thought out, with lots of details about your qualifications and product. "It's a lot harder to have a successful campaign than you might think."



Take Time:

"Don't rush into it," says Lad. "Take your time. Understand who your customers are and what rewards they'll want, and price accordingly."



Have A Clear Message:

"A lot of people are skittish about supporting crowdfunding," Morrison advises. The more you can spell out a reasonable, doable timeline, the more comfortable people will be in accepting your idea. "We didn't want to have people waiting forever."



Build Enthusiasm:

"Make sure you have momentum going into your campaign," says Rodenbeck. Blogs and the whole range of social media can help build a buzz about your product before you start your crowdfunding campaign. "A lot of campaigns fail because they didn't do momentum-building."



Investigate Platforms:

"It's important to look at the other crowdfunding platforms," D'Arcy says. "We used Kickstarter because it was one of the major players, but now there are lots of other crowdfunding platforms available."



Ask Questions:

Ask experts, fellow alumni, and other entrepreneurs for ideas and help, says Hoffman. This includes not being afraid to ask someone related to entrepreneurship in Rose-Hulman's Department of Engineering Management.



Think Long-Term:

Initial funding is great, but you need to attract the customers needed to sustain the venture. As Morrison points out, "Our objective is not to have a successful crowdfunding campaign, it's to have a business."

SMART IDEAS

Phil Rodenbeck's Visitor Watch Company provides well-designed, mechanical wristwatches. Most models sell out quickly after being introduced to the market.

(CONTINUED FROM PAGE 26)

Watch This

It's important to build valuable momentum before heading into the campaign, says Phil Rodenbeck (ME, 2010; MSME, 2012), whose one-month Kickstarter campaign raised \$99,075 (exceeding the original \$85,000 goal) to launch the Visitor Watch Company in Greenwood, Indiana, tapping into a community of people around the world who have a passion for well-designed, mechanical wristwatches. The campaign had 205 backers, typically paying \$480, who in return received a watch valued at \$650.

Rodenbeck used social media tools to get the word out and generate enthusiasm. It's a modern, powerful way to bring an inventive idea to fruition because it now makes it possible to do initial marketing without the big budget that has traditionally been necessary to gain traction for a product or service. "Kickstarter has lowered the barrier of entry of starting a company," he says.



Floating a Big Idea

D'Arcy used Kickstarter to share his entertainment concept, which needed a lot more explaining than a wristwatch. He's president of Breakwater Chicago, which he cofounded with vice president Ashvin Lad (CHE, 1996; MSBE, 1998) to create an offshore, floating luxury venue on Lake Michigan featuring a pool, restaurant, lounge, and other amenities. Not a low-budget idea.

A problem for entrepreneurs floating a brand-new concept, especially such an expensive project, is getting important supporters onboard. "We decided to launch a Kickstarter campaign as a means of gathering data and showing support," D'Arcy says. "Even backing us with one dollar was a sign of support, and that support meant so much more than just the money alone." The campaign drew the backing of 715 people who collectively pledged \$60,611, doubling a \$30,000 goal. The money funded activities, such as a 3D video and a scale model, to generate larger levels of support. Breakwater Chicago has sailed into the design stage, and a significant amount of additional capital will be needed for construction to begin.

Entrepreneurs Beau D'Arcy (left) and Ashvin Lad developed Breakwater Chicago in hopes of bringing a floating luxury venue to Chicago's Lake Michigan shoreline.

IT Baked Into Business Model

Archeologists believe that humans have been baking some form of bread for at least 30,000 years. So it's understandable that when most of us think of innovation, a bakery is not the first thing that comes to mind. It may be surprising, then, to consider that in the highly competitive restaurant market, the secret ingredient may well be information technology.

Perhaps no one understands that better than alumnus John Meister (EE, 1991), senior vice president and chief information officer of Panera Bread. Food innovation is important, but it is not the entire recipe for success.

When the bakery/café chain introduced chicken raised without antibiotics in 2004, it was one of the first to do so on a national scale. Customers quickly latched onto the idea, and soon consumer demand began to drive other restaurant chains to follow suit.

Pioneering the concept of providing 'clean' food and ingredient transparency, however, is not what earned Panera Bread the top slot as Fast Company's #1 Most Innovative Company in Food.



STORY BY
STACEY
MUNCIE

Smartphone apps, online ordering, and other digital tools are becoming ubiquitous in the restaurant industry. But Meister says Panera Bread's multifaceted Panera 2.0 initiative has differentiated it from competitors.

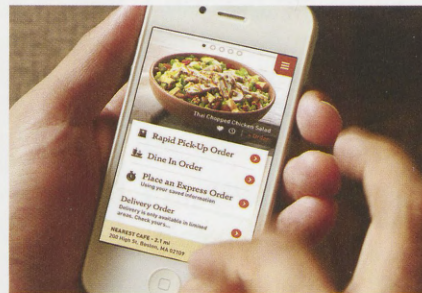
Meister has overseen the integration of digital

technology into the customer experience at the company's nearly 2,000 locations, which span 46 states, the District of Columbia, and Ontario, Canada. He is quick to point out that integrating technology into the dining experience was more than simply jumping on the latest trend.

"For us, the motivation wasn't to be first to the market with a certain type of technology. We were not interested in apps, kiosks, or online ordering for their own sake," he says.

Instead, he explains, Panera Bread's popularity had led to long lines and crowded dining rooms—particularly during lunch time—which frustrated customers.

"We asked ourselves, wouldn't it be better if we could build entirely new pathways for our guests to order, customize, pay, and pick up their orders that improved the experience from end-to-end?"



The Panera 2.0 platform provides multiple avenues of digital access and methods of payment, encourages ordering ahead and customization, and syncs with the MyPanera loyalty program. Users can place an order up to five days in advance via mobile devices. At the appropriate time, their food is prepared and placed on a separate shelf in the restaurant, allowing them to skip the line completely.

Patrons dining in can order food from their tables, and Panera staff uses RFID technology to locate them. In-store ordering kiosks allow customers to place their orders more quickly, with greater customization.

"We knew early on that the Panera 2.0 guest experience would only be as good as our ability to deliver on its promise for each and every order," says Meister.

He adds that customer response has been positive and the company's IT investment is paying off. Sixteen percent of total Panera Company sales are now ordered, produced, and paid for digitally, and the company is projecting that over 20 percent of the business will be digital by the year's end.



Bob Jacobs Innovates in Hotel Marketing

If you're checking the schedule of your favorite Major League Baseball team online, you might notice a little "S" alongside the ticketing information.

That "S" is Sheraton Hotels' logo, and clicking it gives you a quick and easy way to book a room with the global hotel chain—the official hotel of Major League Baseball.

This fan-friendly convenience is just one way the hotel industry is adapting in a rapidly changing and highly competitive marketplace. Other innovations include robust reward programs, dietary and fitness advisors, special local craft beer and wine offerings, keyless room entry (using your smart phone), and easy online booking.

Competition from accommodation-sharing websites and a younger, more digitally centered customer base have made this sort of evolution imperative.

"You have to continue to reinvent yourself. That's what marketers do," says Bob Jacobs (CHE, 1990), who has been carrying the marketing banner for Sheraton and Westin hotels since 2011 under the Starwood Hotel and Resorts corporate umbrella.

In addition to Sheraton's relationship with Major League Baseball, Jacobs introduced a RunWESTIN program to secure customer loyalty among America's 50 million avid runners. RunWESTIN members get local route maps, fresh running gear (including sneakers), and, in some locations, advice from a running concierge. For traveling marathon runners, RunWESTIN provides such services as transportation to a race, a complementary dinner for two, and late checkout on race day.

"RunWESTIN is something totally close to my heart," says Jacobs, a former Rose-Hulman track and field athlete who is an avid marathon and triathlon competitor today.



STORY BY
ARTHUR
FOULKES

Bob Jacobs has directed successful marketing campaigns for some of America's best-known brands, including Sheraton and Westin hotels, Crest, Scope, and Duracell. "You have to continue to reinvent yourself. That's what marketers do," he says.

So far, all of this innovation seems to be paying off. Industry wide, hotel revenues have been growing since 2009 and observers expect record profits this year.

"The marketing process starts by talking with guests and mining a lot of consumer data to learn what your guests are interested in," Jacobs says. "It's really a matter of being able to listen well."

That ability, combined with analytical thinking and a creative streak, have helped Jacobs enjoy a successful marketing career. It started at Procter & Gamble, directing marketing for Head & Shoulders, Crest, Pampers, and other well-known brands. It was Jacobs who conceived of using human-powered bicycles to charge Duracell batteries that illuminated the 2010 New Year's celebration in New York City's Times Square.

"That's an idea that I'm very proud of," Jacobs says.

A Top Choice in Engineering Education

College Choice, an independent online service providing resource materials for prospective college students and their families, is the latest national organization to name Rose-Hulman as America's top-ranked university offering undergraduate engineering degrees.

College Choice formulated its top-50 ranking after examining each institution's tuition costs, as reported by individual schools and CNN Money, and reputation in the engineering field, as reported by U.S. News & World Report, Forbes, and TES Global.

"This recognition, as with other high rankings received for return on investment and career placement, affirms our mission of providing the best undergraduate education in engineering, science, and mathematics in an environment infused with personal attention and support," says Rose-Hulman President Jim Conwell. "The ranking highlights the reputation Rose-Hulman enjoys globally among peer institutions."

About Rose-Hulman, College Choice reported: "Rose-Hulman Institute of Technology's 2,200 students gain not only a technical knowledge, but a hands-on education that teaches them the value of collaboration and teamwork."

College Choice's Top 10 Undergraduate Engineering Colleges featured:

1. **Rose-Hulman Institute of Technology**
2. Stanford University
3. Massachusetts Institute of Technology
4. University of California-Berkeley
5. Harvey Mudd College (California)
6. California Polytechnic State University-San Luis Obispo
7. University of Illinois-Champaign
8. Georgia Institute of Technology
9. Olin College of Engineering (Massachusetts)
10. California Institute of Technology

Females Make Up Record-Setting 30% of Freshmen



A record number of female students are attending classes on campus this fall, with women making up an all-time high 30 percent of the freshman class.

Rose-Hulman is also setting female freshmen enrollment records for computer science majors (34.6%) and physics, engineering physics, and optical engineering majors (30.6%), while female enrollments remain consistently strong in biomedical engineering (58%) and chemical engineering (36%).

Special efforts were made in the past year to increase female

enrollment, including an integrated marketing campaign, according to Jim Goecker, vice president for enrollment and strategic communications. A MarketWatch report also identified Rose-Hulman as a college "where female STEM students flourish."

"The record-breaking number of female students enrolling to Rose-Hulman is a tribute to the institute's environment of excellence and these students seeing themselves feeling at home on our campus," Goecker says.

Nationally, women made up 21.4 percent of students studying for bachelor's engineering degrees in the fall of 2015, according to the American Society for Engineering Education.

**THE 169
FEMALES IN THE
2016-17 FRESHMAN
CLASS ARE 40
MORE THAN
2015-2016**

Winning Spirit

JOHN MUTCHNER BEING RECOGNIZED
FOR ATHLETIC SUCCESS

STORY BY
DALE LONG
PHOTOS BY
BRYAN
CANTWELL

John Mutchner's name has been synonymous with Rose-Hulman athletics and, in particular, the basketball program he helped establish among the best in small-college athletics.

So it seems only appropriate that the institute's basketball court is being named in honor of the coach who paced the sidelines for a record-setting 341 victories, four NCAA Division III tournament appearances, numerous cannon blasts, and memorable overseas trips.

John Mutchner Court will be officially dedicated in Hulbert Arena of the Sports and Recreation Center as a special part of this year's Homecoming festivities. Former players, student managers, coaching colleagues, and friends are invited to join John; his wife, Norma; and family members at this celebration. (*See Homecoming events schedule on page 34*)

"This is quite an honor that recognizes my family and all of the great players that I was fortunate to have coached along the way. It wasn't always easy, but nothing comes along in life without a lot of hard work, dedication, and good fortune," says Mutchner during a recent interview in his Terre Haute home.

After a successful basketball and baseball career at Earlham College followed by U.S. Army service, Mutchner sought to continue his association with intercollegiate athletics as a coach. Rose-Hulman had a fledgling small-college athletics program forged by legendary coaches Phil Brown and Jim Carr. However, team budgets were sparse, facilities and equipment were paltry, and recruiting was nonexistent. Coaches had to organize teams in multiple sports, and there were many seasons in which victories were few and far between.

"[Rose-Hulman] did well with what they had. Really, it wasn't a good place to start a college coaching career," Mutchner reflects. "However, I had no track record in college coaching and few options to start things off. Rose-Hulman took a chance on me and I took a big risk with them."

There may have been even more doubts after his first basketball team won just five games during the 1963-64 season. However, two years later the Engineers had their first non-losing season in seven seasons and captured the Prairie Conference championship. Winning seasons became commonplace by the mid-1970s and crowds began filling Shook Fieldhouse to experience the excitement generated by the quality play on the court, the pregame antics (sirens, submarine crash dive claxon, large bells, a miniature cannon, "Give 'em Hell Rose" banner, and a loyal pep band) and halftime shows by Indiana State University's Sparkettes Dance Team and other entertaining acts.

"The sights and sounds, however brash and out of the ordinary for the times, brought people to see the teams play. The crowds brought more good players to the program. Those good players brought more wins," Mutchner says.

The roster of quality players included Don Ings (ME, 1970), the program's all-time leading scorer (2,083 career points), and the talents of Steve Van Dyck (EE, 1977), David Sutherland (ME, 1978), Mike Griggs (ME/MA, 1978), Roger Edelbrock (ME, 1978), and Mark Givan (CE, 1980)—the nucleus of the teams from the 1975-76 to 1977-78 seasons that posted a 63-23 record, three conference championships, and two NCAA tournament appearances. The 1976-77 team advanced to the quarterfinal round of the Division III tournament before losing to eventual national champion Wittenberg University.

Besides the aforementioned players, other top-notch small-college players that Mutchner brought to Rose-Hulman included future Athletic Hall of Famers Jim Baske (CE, 1981), Tom Butwin (ME, 1971), D.J. Cordero (AE, 1971), Tom Curry (ME, 1967), Ron Dale (EE, 1981), Gary Dougan (ME, 1973), Keith Oehlman (ME, 1982), Jim Pettee (CHEM, 1968), George Shaver (ME, 1969), Dean Stanley (ME, 1984), David Strange (ME, 1981), David Urbanek (ME, 1988), and David Yeager (ME, 1968).

Athletic Endowment Hits Home Stretch

The new athletic endowment fund-raising drive continues to make progress towards its initial \$1 million goal to secure financial gifts and pledges by Homecoming. Donations will support Rose-Hulman student-athletes and teams in achieving the highest level of excellence that has become an institute tradition.

Steve White (ME, 1973) and Linda White, and Morg Bruck (ME, 1969) and Nancy Bruck are among the latest co-chairs for the campaign, making a donation of \$50,000. They join other co-chairs Bill Fenoglio (ME, 1961), Jack Fenoglio (CHE, 1959), Don Ings (ME, 1970), Ray Jirousek (ECON/MA, 1970), John Mutchner (coach/athletic director), Pat Noyes (ME, 1976), and Denny Smith (ME, 1971).

New co-captains (\$5,000) since this spring are Ben Brian (CHE, 1982), Roger (ME, 1978) and Michelle Edelbrock, Vernon Gross (EE, 1961), Joseph (ME, 1980) and Alison Haniford, LaDonna Howard (friend), Stephen Jenison (CHE, 1981), Jason Karlen (CHE, 1992), Roger LaCosse (ME, 1971), Foster A. McMasters Jr. (BIO, 1970), Brent (EE, 1984) and Rhonda Mewhinney, Jeff Myers (EE, 1987), Michael Schneider (ME, 1978), Mike Van Stone (CHE, 1986), and Bill Welch (coach).

Learn more about the athletic endowment campaign at www.rose-hulman.edu/inthegame.

CAMPAIGN CONTACT:

Alumni and friends wishing to add themselves as campaign donors can visit www.rose-hulman.edu/give or contact:

Jim Bertoli
Senior Major Gifts Officer
Office of Institutional Advancement

Rose-Hulman Institute of Technology
5500 Wabash Ave.
Terre Haute, IN 47803

bertoli@rose-hulman.edu
812-877-8359

"Good players make for a good coach, and I was blessed to have some real good ones, along with being quality young men, throughout the years," remarks Mutchner, smiling while recalling the good times that included NCAA tournament teams during the 1980-81 and 1981-82 seasons.

Ings is among those players who look back fondly on their playing days with Mutchner, and is happy to see their old coach being honored for his service to Rose-Hulman.

"In the early years, the game was a learning experience for the players and John on the bench. We were all young and enjoyed playing the game," says the four-year starting player and varsity letterman. "John made the game fun and, most importantly, he let us showcase our many talents. He was a 'player's coach' and a father figure to many of his players."

Those fun times also had Mutchner taking teams to experience the world while playing in Russia (a first for a U.S. college squad) and Canada, along with multiple trips to Mexico, the Bahamas, Hawaii, and throughout Europe—a tradition that continues today.

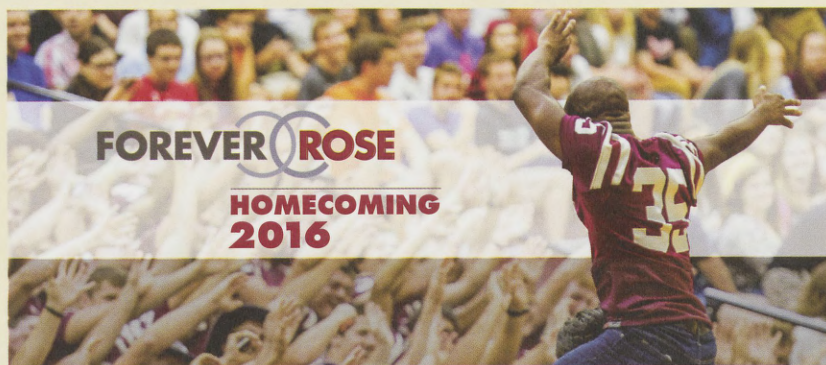
Mutchner's 25-year tenure (1963-88) also included coaching baseball for 15 years, along with serving as athletic director. He paved the way for adding sports programs and encouraged the expansion of the institute's athletic facilities, moves that eventually brought about today's Sports and Recreation Center.

"I tried to make it fun. The players had enough pressure put upon them in academics," says Mutchner, who faithfully attends Rose-Hulman home basketball and baseball games with Norma always alongside. "I had really smart players whom I knew were going to do great in their post-playing careers. Really, I was having the time of my life."

Off the court, Mutchner also has found success in land development and home construction in Terre Haute, is former president of the Terre Haute Homebuilders Association and Terre Haute Boys & Girls Club, and led Terre Haute's Riverscape Project, which advocated community development along the banks of the Wabash River.

John Mutchner's involvement at Rose-Hulman didn't end with retirement from his Athletic Hall of Fame coaching career. With wife Norma, he continues to attend games, and provided the Self Made Man Sculpture that stands prominently in front of the Sports and Recreation Center.

HOMEcoming



Check latest events at rosetem.rose-hulman.edu/events

WEDNESDAY, SEPTEMBER 28

9:30-11 a.m. | Fall Career Fair Expo | Hulbert Arena, Sports and Recreation Center

11 a.m. to 4 p.m. | Fall Career Fair | Fieldhouse, Sports and Recreation Center

THURSDAY, SEPTEMBER 29

6-7:30 p.m. | Early Bird Alumni Reception | Faculty and Staff Dining Room, Hulman Student Union
(Hosted by Student Alumni Association)

FRIDAY, SEPTEMBER 30

8:15 a.m. | Alumni Golf Outings | Hulman Links & Terre Haute Country Club Golf Courses

Noon | 1874 Heritage Society Luncheon | Kahn Rooms, Hulman Student Union,

5-7:30 p.m. | All Alumni Reception | Hatfield Hall Lobby

8:30 p.m. | Pep Rally/Queen Coronation/John Mutchner Court Dedication | Sports and Recreation Center (Bonfire to Follow Festivities)

9:30 p.m. | Graduates of the Last Decade (G.O.L.D.) Party | Copper Bar (private tent)
(Hosted by the Class of 2011)

SATURDAY, OCTOBER 1

8 a.m. | Rosie's 5K Fun Run/Walk | Bill Welch Outdoor Track, Sports and Recreation Center

8:30 a.m. | Alumni Awards Breakfast | Vonderschmitt Dining Room, Hulman Student Union

10:30 a.m. | Alumni Association Annual Meeting | Kahn Rooms, Hulman Student Union

11 a.m.-1 p.m. | Academic Department Open Houses | Throughout Campus

Noon | Tent City (Student, Greek & Special Organizations) | Parking Lot of Cook Stadium

2 p.m. | Football Game vs. Anderson University | Cook Stadium

4-6 p.m. | Rose-Hulman Ventures Open House | South Campus

6 p.m. | 50 Plus Golden Gala Reception | Faculty and Staff Dining Room, Hulman Student Union

6:30 p.m. | 50 Plus Golden Gala Dinner | Vonderschmitt Dining Room, Hulman Student Union

OTHER ALUMNI EVENTS

SEPTEMBER 8

Chauncey Day

OCTOBER 30

Indianapolis Colts vs. Kansas City Chiefs Game
and Ruth's Chris Brunch

BRITISH LANDSCAPES ALUMNI TRIP

MARCH 18-27, 2017

Featuring England, Scotland, and Wales

Contact Office of Alumni Affairs to view previously
recorded webinar for trip details.

New Director Ready to Forge Alumni Relationships

Ben Paolillo brings creative ideas and a wealth of experiences building lifelong alumni relationships to Rose-Hulman as the institute's new executive director of alumni affairs. He replaces Jim Bertoli, who has moved into a role as a major gift officer for the Office of Institutional Advancement.



In this new role, Paolillo will help develop and implement programs, services, and events that enhance relationships between the institute and its alumni and future graduates. This includes organizing special events, supporting alumni club activities, and providing lifelong services to alumni.

"I've always been impressed with the reputation of Rose-Hulman and its alumni," Paolillo says. "I look forward to the opportunity to continue the work that has been done while taking the opportunity to review the best way to further build alumni affairs operations to meet the institute's needs."

Paolillo strengthened institutional alumni participation and financial support in eight years as senior director of alumni clubs for the Purdue University Alumni Association. He worked directly with more than 85 alumni groups and their leaders, and reorganized the annual Club Leaders Conference to develop recognition and support programs. Recruit Them Once; Have Them for a Lifetime and Summer Ambassador picnics were two programs designed to develop students into active future alumni.

He was a member of Purdue's Alumni Association's staff since 2002, including a period as interim executive director. Paolillo also served as the university's head women's track and cross country coach for eight years and spent 17 years with the program. His teams won two Big Ten Conference championships and he was named the Big Ten Conference's Coach of the Year three times.

Fall Alumni Award Winners

HOMEcomings OCTOBER 1

Honor Alumni Award Recipients

F. William Grube (CHE, 1970)

Gregg Lowe (EE, 1984)

Jeff Papa (ECON, 1993)

Distinguished Young Alumni Award Recipients

Ben Cook (EE, 2010)

Keenan Long (ME, 2010)

Mike Reeves (CE, 2006)

Honorary Alumni Award Recipients

Ella Ingram

Associate Professor of Biology
& Biomedical Engineering

Robert Davignon

Project Manager
Rose-Hulman Ventures

ATHLETIC HALL OF FAME OCTOBER 29

Raymond Muskeyvalley
Basketball (BE, 2006)

Jake Vieck,
Football (ME, 2006)

Nathan Soyer
Baseball (ME, 2005)

CLASS NOTES

40s

Thomas W. Cundiff (CHE, 1948) joined surviving members of the U.S. Army's 446th Replacement Company of the 85th Battalion in being honored by the rural France town of Etrechy for helping liberate the community from Nazi German occupation in World War II. He spent 18 months as a staff sergeant and company clerk who helped U.S. soldiers rejoin their units after hospital stints or report for duty after arriving from America.

50s

Carl Herakovich (CE, 1959) published his latest book, *Mechanics IUTAM USNC/TAM: A History of People, Events, and Communities*. He is professor emeritus in the applied mechanics program of the University of Virginia's Department of Civil Engineering.

Joseph Moser (EE, 1959) retired after 50 years on the mathematics faculty at West Chester University.

60s

Norman Smiley (ME, 1968) retired from Dow AgroSciences after 45 years of service.

70s

Marshall Goldsmith (MATH ECON, 1970s) was ranked the No. 1 leadership coach by Top Global Gurus, an international research organization. His latest business management book, *Triggers*, was a *The New York Times* best seller.

80s

Richard Correll (CHE, 1986) is now commanding the U.S. Navy's submarine task force in Yokosuka, Japan.

Christopher Goss (ME, 1987) is now an elevator consultant with Lerch Bates after 22 years with Otis Elevator Company, where he most recently served as a mechanical engineering manager in Florence, South Carolina.

Daniel Vujovic (MA, 1987) is the director of client training for Intellum, a technology company that specializes in employee learning systems. He is the former senior learning design manager at Cornerstone OnDemand.

90s

Jeff Papa (ECON, 1993) was named a distinguished fellow by the Indianapolis Bar Foundation.

Agnes Berzsenyi (ME, 1995) received the Milwaukee Business Journal's 2016 Women of Influence Award.

Tiffany Trusty (EE, 1997; MSEM, 2008) is directing the apprenticeship program for Eleven Fifty, a Carmel, Indiana nonprofit dedicated to mentoring the next generation of software coders. She had been a leader for the for-profit Eleven Fifty Consulting after serving as a freelance software developer,



Smooth Operating with Kent McCorkle

Kent McCorkle (CHEM, 1991) and wife Kim wanted the best possible skin lotion for their toddlers, but were alarmed when they read the ingredients labels, even on organic-sounding products.

So Kent, who earned his chemistry PhD from Auburn University in 2003, got busy making his own skincare lotion, carefully excluding any potentially harmful ingredients, such as artificial fragrances and dyes, sulfates, phthalates, and parabens.

"We wanted all of our ingredients to be as safe and nontoxic as possible," Kent says. "It had to be good enough for our children."

After months of work and more than a dozen prototypes, BareBaby Organics premium moisturizing lotion was born. To earn a spot in their lotion, every ingredient had to score the best-possible rating on the Environmental Working Group's Skin Deep cosmetics database while meeting the Premium Body Care Standards established by Whole Foods.



Kent McCorkle developed BareBaby Organics to bring a premium moisturizing lotion for his family and others.

The McCorkles have been pleasantly surprised by their early success, says Kent, whose day job is Professor of Chemistry at MiraCosta College in Oceanside, California.

"One of the most gratifying things is how many people of all ages are really enjoying our product and seeing results," he says.

The lotion is now available at www.barebabyorganics.com and on Amazon, where the average of the first 93 customer reviews was 4.8 out of 5 stars.

and working at Motorola and Reddus. She also serves as the technology chair of the board of directors for Indianapolis' Women & Hi Tech.

00s

Adam Andres (MSBE, 2002) is an internal medicine physician in Franciscan St. Francis Health's IMPACT Center in Mooresville, Indiana. He earned his medical degree from the Indiana University School of Medicine, and completed volunteer service in the Philippines.



Robyn Kinsley (CHE, 2002) was promoted to vice president of transportation and emergency preparedness for The Chlorine Institute (CI), a technical trade association of companies involved in the safe protection, distribution, and use of chlorine and other chemicals. She helps manage CI's training activities, and represents CI members before government agencies and industry groups. Kinsley joined CI in 2007 and most recently served as the organization's senior director for transportation.



Valerie (Sharp) Morrow (EE, 2002) is the director of engineering for the Duck River Electric Membership Corporation. She has been an electrical engineer with the firm since 2014 and formerly was manager of engineering services with the Boone Rural Electric Membership Corporation in Lebanon, Indiana. Morrow has taught classes in engineering fundamentals and served on a variety of national engineering committees.



Adam Jarboe (ME, 2005, MSEM, 2007) is now leading the product equipment sourcing operations from Chick-fil-A's corporate offices in Atlanta. He formerly managed restaurant transformations for Taco Bell.

Aaron Dubin (CS, 2006) achieved Worldwide Top 3 and Americas Top 5 status on Bloomberg Aptitude Test's recent hall of fame list. His 730 final score placed in the 99th percentile out of more than 200,000 students who have ever taken the test.

Andrew Marcum (EE, 2006) earned a doctoral degree in electrical engineering, with a specialty on communications and signal processing, from Purdue University.

Matthew Wittstein (BE, 2006) earned a doctoral degree in kinesiology from the University of North Carolina at Greensboro.

Hillary (Hansen) Jeffrey (EE, 2007) was named a Technology & Innovation Fellow with the Consumer Financial Protection Bureau.

Robert Lemke Oliver (MA, 2008), an associate math professor at Tufts University, joined a scholarly colleague in uncovering a simple, previously unnoticed property of prime numbers: they repel other would-be primes that end in the same digit, and have varied predilections for being followed by primes ending in the other possible final digits. The discovery was featured in the March 13, 2016, issue of *Quanta* magazine.

Morgan Ericksen (AB, 2009) is now an operations manager at Owens Corning in Portland, Oregon. She had been in the company's leadership develop program since 2013.

Jessica Toth (CE, 2009; MSEM, 2012) is a supply chain project manager for Statoil's U.S. onshore operations. She had been a global project manager in a four-year tenure at Halliburton.

Lauren Griggs (BE, 2010) has been promoted to be a quality engineer at Boston Scientific, based in Bloomington, Indiana. She has worked for the company since graduation.

Katherine Kragh-Buetow (EP, 2010) has continued an interest in semiconductors by receiving her doctorate in materials science and engineering from Penn State University through the NASA Space Technology Research Fellowship program. She is now a process engineer for Intel.

Caroline Andersen (BE/ME, 2011) is now a maintenance supervisor with Unilever after working with PepsiCo for five years.

Elizabeth Malola (CHE/CHEM/MA, 2011) is a design engineer at ABS Engineering in New York City. She formerly worked at Genesis Plastics Welding and EnerDel in Indiana.

Debbie Davis-Brutchen (BE, 2012) earned a law degree from the University of Dayton, specializing in intellectual property law.

Charles McAnany (CHE, 2012) has received a prestigious Jefferson Fellowship from the University of Virginia, where he is pursuing a doctorate in chemistry. He was among 21 incoming fellows based on a commitment to becoming the next generation of STEM teachers, researchers, and public servants.

Jimmy Theis (SE, 2012) has been promoted to senior software engineer at Interactive Intelligence. He has worked for the Indianapolis-based company since graduation.

Tanya Colonna (BE/BCMB, 2013; MSEM, 2015) is chief executive officer for BlackTop Labs, a development firm for wearable technology devices, and has co-founded Tardigrade, a technology development and market strategy consulting firm. Both enterprises are based in Clemson, South Carolina.

Benjamin McDonald (EP, 2014) is a back-end developer for Hive in the St. Louis area after being a micro/nano technician for L.J. Gonzer Associates.

WE WANT YOUR NEWS!

Send news and photographs to
alumniaffairs@rose-hulman.edu

CLASS NOTES

Weddings

Billy Buell (ME, 2013) married **Kira Boswell (ME, 2014)** on July 11, 2015, in Cincinnati, Ohio. Billy works at Fiat Chrysler Automobiles US and Kira is in General Electric Co.'s Edison Engineering Development Program. The couple resides in Cincinnati.



Jared Richey (EE, 2013) married **Katelyn Gosnell** on April 9, 2016, in Saint Mary-of-the-Woods, Indiana. Jared is a lab operations senior electrical engineer at Cummins Inc. The couple resides in Crothersville, Indiana.

Noah Hamner (CHE, 2014) married **Vania Seng (CHE, 2014)** on March 19, 2016, in Terre Haute. Noah is a project engineer with ArcelorMittal and Vania is an industrial fire protection consultant with XL Catlin. The couple resides in Highland, Indiana.



Christopher Taylor (ME, 2014) married **Breanna Taylor** on June 15, 2016, in Sevierville, Tennessee. Christopher is a supply quality engineer with Crown Equipment in Greencastle, Indiana. The couple resides in Mansfield, Indiana.



Rosebuds

Alyssa (Riley) Hill (CHE, 2000) and husband **Chris** welcomed their second son, **Cameron**, on July 13, 2015. The family resides in Austin, Texas.



John Harmon (ME, 2006) and wife **Alicia Gehlhausen (CHE, 2006)** welcomed twins, **Jack and Ava**, on November 21, 2015. The family resides in Spartanburg, South Carolina.



Jared Stermole (CE, 2010) and wife **Terri** welcomed their second child, **Penelope**, on October 17, 2015. The family resides in Hughesville, Pennsylvania.



Heidi (Brackmann) Davidson (CHE, 2003) and husband **James** welcomed a son, **Hollis**, on February 5, 2016. The family resides in Mount Pleasant, South Carolina.



James Jordan (CPE, 2006) and wife **Amber Pennington (CS, 2006)** welcomed a daughter, **Adelaide "Addie"**, in June of 2015. The family resides in St. Louis.



Kristopher Stuckey (ME, 2010) and wife **Claire Larew (ME, 2010)** welcomed a son, **Adrian**, on March 2, 2016. The family resides in Indianapolis.



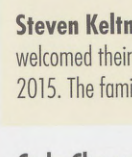
Josh Smith (CHE, 2004) and wife **Ashlee** welcomed their first child, **Elijah "Eli"**, on November 5, 2015. The family resides in Terre Haute.



Raymond Wise (EE, 2006) and wife **Therese Scheibelhut (OE, 2006)** welcomed their second son, **Patrick**, on January 26, 2016. The family resides in Metamora, Illinois.



Steven Keltner (ME, 2012) and wife **Stephanie** welcomed their second child, **Maribel**, on August 19, 2015. The family resides in Zeeland, Michigan.



Clint Weis (CS, 2005) and wife **Kelly** welcomed their second child, **Annaliese**, on February 23, 2016. The family resides in Indianapolis.



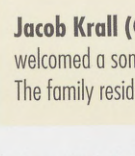
Cody Cheesman (ME, 2013) and wife **Lara Westwood (ME, 2013)** welcomed a daughter, **Elaina**, on March 1, 2016. The family resides in Greensburg, Indiana.



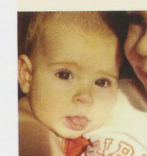
Chad Zarse (AB/BCMB, 2005) and wife **Emily** welcomed a daughter, **Zoe**, on January 30, 2016. The family resides in Indianapolis.



Jacob Krall (CS/SE, 2007) and wife **Jennifer** welcomed a son, **Jackson**, on January 27, 2016. The family resides in Greensboro, North Carolina.



Amy (Briola) Baker (OE, 2009) and husband **Jeff** welcomed their second daughter, **Gemma**, on April 8, 2016. The family resides in Pittsburgh.



Jordan Arnt (ME, 2014) and wife **Casey** welcomed a daughter, **Elizabeth**, on December 19, 2015. The family resides in Columbus, Indiana.

Making Sure Hollywood Gets It Right

Raymond Ahaus (ME, 2006) provided technical assistance for actor Gerard Butler and director Donovan Marsh as they prepared to film scenes of the upcoming movie *Hunter Killer*. The action drama, loosely based on George Wallace's *Firing Point* novel, examines an American submarine commander sent deep in Russian waters to save the elected Russian president in the midst of a military coup. Ahaus is operations officer for one of the U.S. Navy's nuclear propelled submarines. He tailored a set of fake operational briefings for Butler and Marsh for the movie and offered changes to the script so that scenes could be more authentic.



Raymond Ahaus (second from right) is featured between actor Gerard Butler and director Donovan Marsh as U.S. Navy officers gave insight on operating a nuclear submarine.

In Memoriam

Irvin H. Keeler (ME, 1942), 95, of Boulder, Colorado, died on April 7, 2016. He was a retired senior design engineer with General Motors Corp.

Richard M. Buchanan (ME, 1943), 94, of Boise, Idaho, died on March 22, 2016. He retired as a general sales manager for Morrison-Knudsen Engineers' railroad division.

Richard W. Van Kempema (CHE, 1943), 95, of Lakes of the Four Seasons, Indiana, died on July 3, 2016. He was chief engineer with Whiting Corporation.

George T. Wolf (EE, 1948), 94, of La Vida Llena, New Mexico, died on March 26, 2016. He retired as an engineer with General Electric Co.

William J. Frederick (ME, 1949), 90, of Minneapolis, Minnesota, died on December 23, 2015. He retired as a senior consultant at Northern States Power Company.

George A. Foltz (ME, 1949), 91, of Florence, Kentucky, died on

March 11, 2016. He retired as an engineer with Texaco Corp.

Roy H. Potts, Jr. (ME, 1949), 91, of Louisville, Kentucky, died on March 10, 2016. He retired from E I DuPont De Nemours and Company.

Alexander J. Vogl (ME, 1949; HD, 1998), 89, of Palm Beach Gardens, Florida, died on March 24, 2016. He retired as chairman of the Wilton Corporation after also serving as president for many years.

Robert F. Ricketts (EE, 1950), 88, of Granada Hills, California, died on April 2, 2016. He retired as owner of Ricketts Associates.

James E. Ingle (CE, 1953), 84, of Ellettsville, Indiana, died on February 8, 2016. He retired as vice president of engineering with Anadarko Petroleum Corporation.

William A. Seneff (CE, 1955), 82, of Greenwood, Indiana, died on February 12, 2016. He retired as a structural engineer with Jacobs Engineering Group.

Jack A. Wilcox (ME, 1957), 80, of Chesterfield, Missouri, died on March 30, 2016. He retired as president of Dynamic Enterprises.

Robert A. Mewhinney (EE, 1959), 79, of The Villages, Florida, died on May 6, 2016. He retired as director of intercollegiate sailing at Jacksonville University.

Charles R. Sechrest (ME, 1960), 78, of Elberta, Alabama, died on May 6, 2016. He retired as project manager with Ormet Corporation.

Richard F. Bonelli Jr. (CHE, 1966), 71, of Mattoon, Illinois, died on February 26, 2016. He retired as a consulting engineer with CVR Energy.

Robert W. Rose (CE, 1966), 71, of Phoenix, Arizona, died on July 15, 2015. He retired from DAUM Commercial Real Estate.

Don W. Johnson (ME, 1972), 67, of Kokomo, Indiana, died on March 19, 2016. He worked for Continental, Delco Electronics, and Delco Remy during his career.

Mark E. Cane (CHE, 1973), 65, of Burkburnett, Texas, died on March 30, 2016. He retired as senior manufacturing engineer with Delphi Corporation.

Gary R. Deem (CHEM, 1973), 64, of Danville, Illinois, died on March 19, 2016. He was a quality assurance manager at Creative Products.

Christopher R. Black (CE, 1977), 60, of Denver, Colorado, died on August 4, 2015. He was president of Black, Atwood & Associates.

Rodney L. Miller (EE, 1981), 56, of Fairpoint, New York, died on April 14, 2015. He retired from Eastman Kodak Company.

Jackie E. Taylor (ME, 1983), 59, of Montezuma, Indiana, died on February 14, 2016. He was a retired field engineer with White Construction.

Bailey

Challenge

BY PROFESSOR EMERITUS
HERB BAILEY



The Spring Challenge brought a record 109 solvers, meeting our goal of topping 100. Any respectable coach would increase the goal for this challenge to 120, but let's set the goal this time at 80.

FALL PROBLEM 1

The average age of Amy, Ben, and Chris is 9 years old. Four years ago, Chris was the same age as Amy is now. Ben's age three years from now will be two-thirds of Amy's age three years from now. Find their present ages.

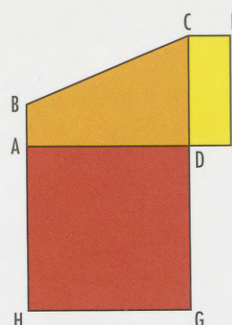
FALL PROBLEM 2

In the cryptogram shown the letters represent distinct digits. There are no carries in the addition. How many different addition problems could this cryptogram represent?

$$\begin{array}{r} \text{ONE} \\ + \text{ONE} \\ \hline \text{TWO} \end{array}$$

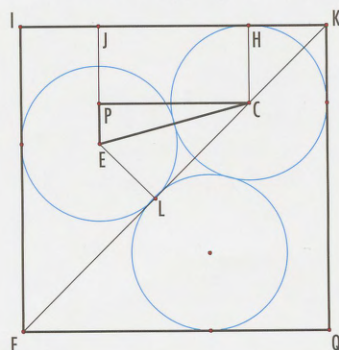
FALL BONUS PROBLEM

Given the trapezoid ABCD shown with $BC = AB + CD$, the rectangle DCEF with $DF = AB$, and the square ADGH. Find the area of the square if the area of the rectangle is 17.



SOLUTION TO THE SPRING BONUS

How long is the edge of the smallest square that can contain three non-overlapping circles of unit radius?



Let the vertices of the square be I, K, Q, and F. C will be the center of the circle tangent to sides KQ and KI, and E will be the center of the circle tangent to IF. Let J be the projection of E onto IK, P will be the projection of C onto EJ and L will be the point where circle E is tangent to the diagonal FK.

Angle LCP = 45 and angle LCE = $60/2 = 30$, where angles are in degrees. Thus angle PCE = $45 - 30 = 15$, $PC = EC \cos(15) = 2 \cos(15)$, and $IK = IJ + JH + HK = 1 + 2 \cos(15) + 1 \approx 3.932$.

Send your solutions to Herb.Bailey@rose-hulman.edu or to Herb Bailey, 6990 E. County Road 100 N., Apt. 207, Avon, IN, 46123. Alumni should include their class year.

Congratulations to the following solvers of the spring problems:

ALUMNI: T. Jones, 1949; C. Hirschfeld, 1954; B. Hall, 1955; J. Moser, 1956; H. Brown, 1957; D. Carrell, 1957; D. Bailey, 1959; J. Dhooge, 1960; T. Jaenke, 1960; J. Kirk, 1960; J. Przybylinski, 1960; T. Hill, 1961; R. Ireland, 1961; J. Tindall, 1961; J. Ray, 1961; J. Snyder, 1962; R. Lepp, 1963; A. Cleek, 1964; S. James, 1965; B. Kevorkian, 1966; A. McLaughlin, 1967; R. Dutton, 1969; K. Metz, 1969; D. Jordan, 1971; W. Pelz, 1971; J. Ray, 1971; D. Hagar, 1972; S. Jordan, 1972; T. Nelson, 1972; J. Sanders, 1972; M. Taylor, 1972; M. Marinko, 1973; M. Bailey, 1976; J. Jordan, 1976; B. Hunt, 1976; P. VandeMotte, 1977; T. Greer, 1978; M. Clouser, 1979; R. Priem, 1979; S. Bagwell, 1980; K. Davenport, 1980; R. Joyner, 1980; P. Gunn, 1981; S. Nolan, 1981; R. Roll, 1981; D. Gundlach, 1982; J. Willer, 1982; B. Downs, 1983; G. Fondaw, 1983; J. Marum, 1983; K. Shafer, 1983; M. Saltgaver, 1984; L. Beckman, 1986; D. Johnson, 1987; M. Lancaster, 1987; C. Abdnour, 1989; B. Burger, 1991; J. Harris, 1991; B. Heinz, 1991; P. Kimmerle, 1991; L. Moon, 1991; C. Schlimm, 1991; D. Keiter, 1992; B. Swanson, 1992; R. Antonini, 1993; M. Ray, 1993; G. Simons, 1993; M. Young, 1994; G. Wise, 1994; K. Hanley, 1995; M. Pilcher, 1998; C. Mahler, 2000; S. Tourville, 2005; M. Wittstein, 2006; J. Krall, 2007; D. Schluneker, 2008; M. Trowbridge, 2008; S. Ostling, 2009; A. Williams, 2009; B. Crosby, 2010; K. Kragh-Buetow, 2010; D. Schoumacher, 2010; M. Schoumacher, 2010; D. Straub, 2010; and D. Caldwell, 2011.

FRIENDS: M. Ashiru, C. Bailey, S. Compton, T. Cutaia, J. Denny, T. Domelle, B. Fears, J. Fonte, A. Foulkes, C. Hines, P. Hines, T. Kendall, A. Kremer, L. Kulbago, T. Kulbago, J. Ley, M. Lisby, L. Marks, L. Metcalfe, S. Pletcher, M. Ray, S. Ray, M. Rosene, and D. Voltmer.

SUNDAY SCHOOL LESSONS ADD UP TO LOVE OF MATH

Herb Bailey's math problems have been captivating Rob Hochstetler for most of his life.

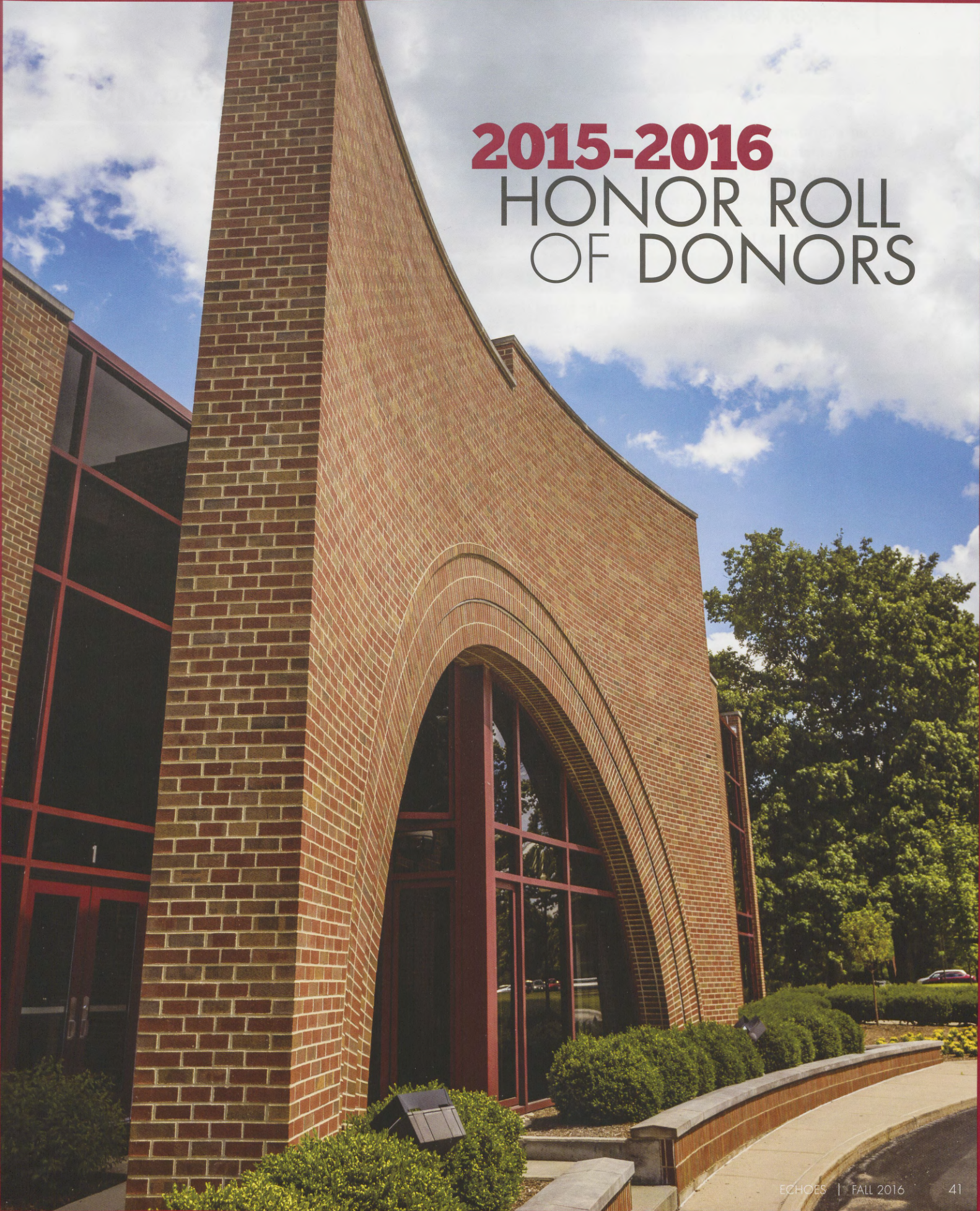
At the age of 11, Hochstetler started solving weekly math challenges following church Sunday School sessions led by Bailey and his wife. Those problems spawned a love of math riddles as Hochstetler won high school math contests, and, eventually, earned an electrical engineering degree from Rose-Hulman in 1991.

"The favorite question I got from Dr. Bailey as a kid was: In the equation $X^2 + 1 = 0$, solve for X. I thought about that problem for years. Who knew there was an imaginary number (i)?" says Hochstetler. "I see the Bailey Challenge problems as a chance to stay mentally sharp. It's nice to know I can still solve the problems."

Problems with physical descriptions are personal favorites for Hochstetler, who also enjoys how Bailey adapts math problems into everyday real-world situations.

"Any problem that has difficult geometry really forces me to reach back in my mind for solutions. I hit the problems the day after I receive *Echoes*. Then, I solve the problems over lunch at work," he says, adding, "Word problems that I had in school and through Dr. Bailey's problems set me on my career path."

Hochstetler recently completed his second year as president and chief executive officer of the Central Electric Power Cooperative, based in Columbia, South Carolina. He is a member of the Rose-Hulman Alumni Association's advisory board.



2015-2016 HONOR ROLL OF DONORS

HONOR ROLL OF DONORS

Thanks for Helping Rose-Hulman

One of my favorite inspirational quotes came from trailblazing physicist and mathematician Sir Isaac Newton, who once said, "If I have seen further than others, it is by standing upon the shoulders of giants."

Picking up on that theme, Rose-Hulman has remained a leader in undergraduate science, engineering, and math education through the goodwill and loyalty of people, organizations, and corporations highlighted in this year's Honor Roll of Donors. This special section recognizes donors making gifts from July 1, 2015 through June 30, 2016.

The impact made by our benefactors can be found throughout campus—from the visible examples like White Chapel (provided by John and Elizabeth White and family members), to the Schmidt Bell Tower (by Alfred Schmidt), and the Self Made Man Sculpture (by John and Norma Mutchner), naming just a few.

Then, this spring we broke ground on the expansion of the Hulman Student Union, with a lead gift provided by Mike and Linda Mussallem. (See Profile on Page 8)

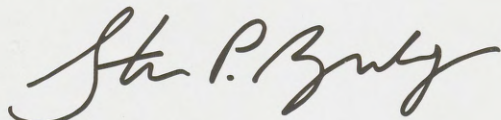
There's also those whose support is often less visible but certainly just as important. Those who have supported student scholarships, endowed a fund to enhance the work of our outstanding faculty, or support our Fightin' Engineer student-athletes (see pages 33 and 55). Thousands of alumni and friends annually support The Fund for Rose-Hulman.

All these efforts have made a positive difference on the "Rose Experience" and helped many of our students toward their journey to make a difference in the world.

There's much more to do. Top-level recognition among our higher education peers in science and engineering doesn't come without having quality students, a committed faculty and staff members, and cutting-edge classroom and laboratory facilities. And, all of this has a hefty cost.

So, we're proud to stand on your shoulders as we celebrate our proud past, celebrate our glorious present, and look forward to even better days in the future.

Best regards,



Steven P. Brady
Vice President for Institutional Advancement

The following pages recognize gifts from donors of \$250 or more received from July 1, 2015 to June 30, 2016. The Rose-Hulman website rose-hulman.edu/honorrolldonors provides a complete listing of all donors contributing during the 2015-16 fundraising year. Please direct questions or comments to the Office of Institutional Advancement at 812-877-8453 or DevelopmentOffice@rose-hulman.edu.

GIFT RECOGNITION

Chauncy Rose Millennium Society

The following lifetime gift recognition circles are determined by the total of all gifts received, including corporate matching gifts and matching gift expectancies.

Platinum Torchbearer: \$10,000,000

Diamond Torchbearer: \$5,000,000

Torchbearer: \$1,000,000

Chauncy Rose Society

Recognizing cumulative gifts made from the donor's first gift to Rose-Hulman through June 30, 2016, including corporate matching gifts and matching gift expectancies.

Chieftain: \$500,000

Fellow: \$250,000

Member: \$50,000

1874 Heritage Society

Recognizing alumni, parents and friends who have made a deferred and/or estate gift commitment to Rose-Hulman. Deferred and estate gifts may be made in the form of bequests, testamentary trusts, annuities, charitable trusts, gifts of real estate with life-retained interest, and other life-income agreements.

President's G.O.L.D. Circle

Recognizing cumulative young alumni giving for the first 10 years following graduation, including corporate matching gifts and matching gift expectancies.

Gold: \$5,000

Silver: \$2,500

Bronze: \$1,000

Annual Giving Circle

Recognizing annual gifts from July 1, 2015 to June 30, 2016, including corporate matching gifts and matching gift expectancies.

Herman Moench Circle: \$25,000

Hulman Circle: \$10,000

Founders Circle: \$5,000

Trustees Circle: \$2,500

Presidents Circle: \$1,000

Deans Circle: \$500

Rose and White Circle: \$250

Century Circle: \$100

Varsity R

This society recognizes annual gifts to the athletic department or recreational programs from July 1, 2015 through June 30, 2016.

1888 Circle

Hall of Fame: \$5,000 and above

All-American: \$2,500 to \$4,999

All-Conference: 1,000 to 2,499

Rosie's Circle

Gold: \$500 to \$999

Silver: \$250 to \$499

Bronze: \$100 to \$249

Century Circle: \$100

Chauncey Rose Millennium Society

Platinum Torchbearer \$10,000,000 and above

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Ms. Mari Hulman George H'98
Mr. and Mrs. Michael L. Hatfield '84 H'04
Mrs. Theresa Vonderschmitt

Diamond Torchbearer \$5,000,000 to \$9,999,999

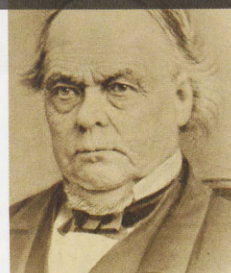
Mr. and Mrs. Carl Cook H'15
Mr. and Mrs. Gregg A. Lowe '84 H'14
Mr. and Mrs. Michael A. Mussallem '74 H'99
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Mrs. Christa Percopo

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Mrs. Marilyn Winters

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Mr. and Mrs. Fred O. Clayton '70
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Mr. and Mrs. Elmer A. Guerri '65
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Mrs. Martha O'Connor
Mrs. Marlene Herakovich and
Dr. Carl T. Herakovich '59
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Mr. and Mrs. David A. Jones
Mr. Philip S. Jones '56
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Mr. and Mrs. George Kyle '48
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Ms. Elaine Lee
**Mr. Frank H. Levinson '03 and
Mrs. Rebecca M. Levinson '05**
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Mr. and Mrs. Edward T. Mabley '47
Mr. James T. Malone '62
Ms. Kelsey E. Martin
Mr. and Mrs. Kenny M. McCleary '83
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Mrs. Mary Kate Miller
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Mr. William B. Nicewanger '63
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Mr. and Mrs. Allen Olinger
Mrs. Joanne Pease
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Mrs. Jean Reifenberg
Mr. and Mrs. D. Lynn Roberts '63
Mr. and Mrs. David L. Robinson '73
Mr. and Mrs. John M. Robson
Willis and Nan Rose '47
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Mrs. Mary Jane Stineman
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Mr. Lawrence D. Thomas '57
Mr. and Mrs. Timothy N. Tipton '78
Mr. and Mrs. Thomas O. Trueb '68
Mr. and Mrs. Jimmie J. Trueblood '77
Mr. and Mrs. Gary Tyrrell '90
D. James and Katherine Umpleby '80 H'16
Ms. Patricia A. Valentine
Mr. Richard W. Van Kempema* '43
and Mrs. Lillian Van Kempema
Mr. and Mrs. Vic Vickrey
Mrs. Rosemary Voges
Mr. Alexander J. Vogl* '49 H'98
and Mrs. Joanne Vogl
Dr. and Mrs. David R. Voltmer
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1874

Heritage
Society

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Couple Helping Future Students Ride to Success

As serious amateur bicyclists, Bob and Jeanne Evans know life is a lot like a cross-country trek. Along with a share of challenging hills and stubborn headwinds is the potential for breathtaking views.

Success in biking, as in life, also requires the right equipment. For Bob (ME, 1966), his Rose Polytechnic degree was an essential part of his successful career in the automotive industry. Now he and Jeanne want to help ensure future Rose-Hulman students have the financial resources needed to complete their own personal journeys.

"Rose opened some doors to me, giving me a good career," Bob says. "Rose did that for me, and Jeanne and I want to pay Rose back for that."

The couple has an endowed a future scholarship, funded through a retirement plan beneficiary designation. This is the most tax-efficient way for many families to make a charitable gift. The Evanses are longtime supporters of Rose-Hulman and members of the institute's 1874 Heritage Society.

The scholarship is specially designed to aid female students who graduated from small high schools. Bob and Jeanne

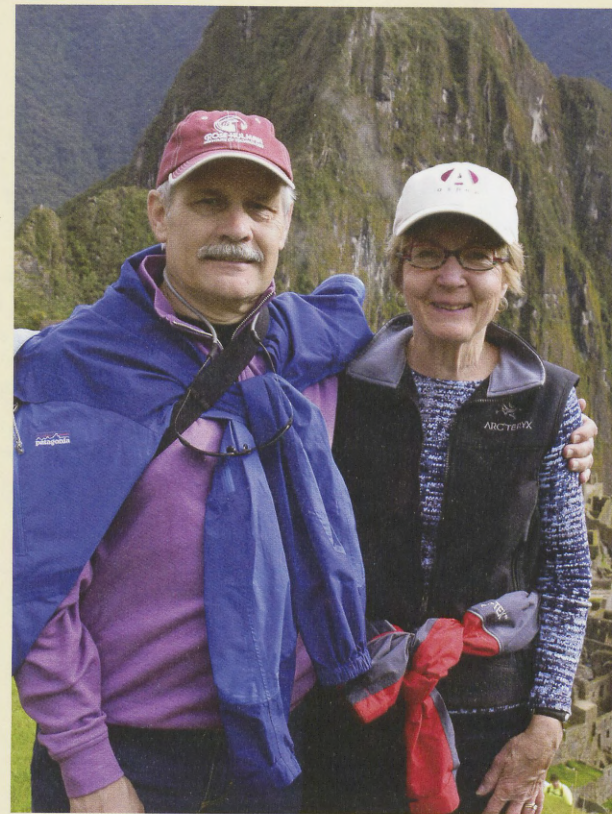
graduated from small schools, and coming from a small school can mean having fewer opportunities than other students, Bob says. He and Jeanne would like their scholarship to help address that imbalance.

By focusing on female students, the scholarship will also address the imbalance between men and women studying engineering, Bob says. Jeanne, a graduate of The Ohio State University who spent her career in education as a teacher and consultant, is especially interested in helping young women succeed.

"Young women are underrepresented in engineering," says Bob, who worked for Delphi Automotive in Dayton, Ohio, before retiring in 2006. "If we can encourage women to take up the profession, we want to do that."

The Evanses are looking forward to returning to campus this year, when Bob visits former classmates at his 50th class reunion during this year's Homecoming.

"Just graduating from Rose was an enormous event," he reflects. "You work very hard for four years, but after graduation everyone just suddenly disperses. It will be nice to step back and take a little time to appreciate what we did."



Bob and Jeanne Evans have embarked on challenging cross-country bicycle rides all over the globe. Now they are establishing a future endowed scholarship fund to help future engineering students get the education they need to reach their own spectacular heights.

HONOR ROLL OF DONORS

President's G.O.L.D. Circle

Recognizing young alumni 10-year cumulative giving through June 30, 2016.

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Mrs. Candice M. Wehmeier '10
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Don Sparks Honors Parents' Gift through New Scholarship

Don Sparks (ME, 1972) entered Rose-Hulman as a freshman in 1968 with bleak prospects of a glittering academic career. An initial assessment, commonly done in those days, estimated that he would graduate with a C grade-point average.

He was determined to prove that estimate wrong. "I beat the projection by quite a little bit," says Don smiling and recalling those early days on campus.

In the last few years, Don and his wife, Cindy, decided to give other young people the same opportunity he enjoyed by establishing the Ansel and Helen Sparks Memorial Scholarship in honor of Don's parents. They have generously decided to further support that scholarship through proceeds from their estate.

Established in 2013, the scholarship provides financial assistance for qualifying juniors and seniors from Vigo County, Indiana, where both Ansel and Helen were natives. The couple kept young Don intensely focused on his studies at Rose-Hulman, recalls Cindy.

"He took studying very seriously. He got that from his parents," Cindy recalls. "They would be very pleased by the scholarship."

Don adds, "We've been blessed. I think support of higher education, and Rose-Hulman in particular, is a very worthwhile thing to do."

After graduating from Rose-Hulman, Don went to work for Indianapolis Power and Light, Eli Lilly and Company, and Nabisco before finishing his successful 30-year career

with Alcon Laboratories as director of plant engineering, maintenance, and operations. He and Cindy live in Mansfield, Texas, where they enjoy the year-round golfing weather. They have a grown daughter, Kayla, who lives in Mansfield and works in elementary education.

"We've been blessed," Don adds. "I think support of higher education, and Rose-Hulman in particular, is a very worthwhile thing to do."



Don and Cindy Sparks found a way to honor Don's parents by establishing a scholarship in their name. "If Cindy and I can help in some small way, that's what we'd like to do," Don says.

Annual Giving Circles

Recognizing annual gifts of \$250 or more from July 1, 2015 to June 30, 2016.

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Honoring Classmate, Friend with a Scholarship and Long Walk

The ties that bound four freshmen on the soccer pitch in the fall of 1976 are helping Rose-Hulman students 40 years later through a legacy scholarship fund.

Ray Farmer formed an intramural soccer club with Class of 1980 classmates Blair Hughes (CHE), Bob Froetscher (ME), and Paul Curtin (CHE) that would be the origin of the sport being added to the athletic program in 1978.

They also shared a brotherhood as members of the institute's Phi Gamma Delta (FIJI) fraternity.

So when Farmer died unexpectedly in the spring of 2009, at the age of 51, the classmates came together to think of a way to honor their friend.

Farmer bequeathed nearly \$35,000 to Rose-Hulman. Hughes and Froetscher sought to use those funds to create a scholarship fund that would honor Farmer. With a minimum of \$50,000 needed for this type of fund, additional donations were solicited from former soccer players and FIJI alumni during the Class of 1980's 30-year reunion in 2010. They surpassed the goal, and the Ray Farmer Scholarship Fund was established.

Hughes has been making donations to the scholarship fund nearly every year.

In 2011, Farmer was recognized posthumously along with family members at the annual Homecoming soccer match between the junior varsity team and alumni players. Ray's son, a certified soccer referee, was an official for the game.



The inaugural varsity soccer team in the fall of 1978 had goalie Ray Farmer (wearing black jersey in first row, second from right), Blair Hughes (parted blond hair in middle row, sixth from right), Bob Froetscher (middle row, third from left), and Paul Curtin (second row, second from right).

Photo provided by Bob Froetscher.

The scholarship fund exceeded \$100,000 in 2015 after Curtin pledged \$1 for every mile completed in a 2,200-mile personal journey to hike the entire Appalachian Trail (celebrating his retirement). Other alumni, family members and friends added pledges—raising nearly \$20,000.

"The scholarship fund is a fitting tribute to Ray and what he meant to us and the soccer program," says Hughes, pointing out that Farmer was inducted into Rose-Hulman's Athletic Hall of Fame in 1994. "I believe that the one area that alumni can help Rose-Hulman is by making donations to significantly increase its endowment and to increase the number of available scholarships. I view our Ray Farmer Scholarship effort as a small step in making the college affordable for deserving students."



Current and past men's soccer players gathered with members of Ray Farmer's family to celebrate the establishment of the special scholarship in memory of the 1980 mechanical engineering alumnus. (Photo provided by Bob Froetscher)

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LEGEND: '00 — Alumnus/ae class year H'00 — Honorary degree recipient *Deceased

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MOUND ACE

STORY
BY DALE
LONG

It would seem natural for Rose-Hulman alumni to reach career summits in such fields as engineering, science, and business. However, it might be surprising to learn that one of our graduates stood tall on the pitcher's mound at the highest levels of professional baseball.

After a successful college career in his hometown of Terre Haute, Art Nehf (EE, 1914) became one of major league baseball's most dependable pitchers early in the 20th century, winning 184 games and two world championships during a 15-year career. He is the last pitcher to win back-to-back clinching games in the World Series (1921 and 1922), and set a record by being the first pitcher to have three hits as a batter in a World Series game.

That's the same game in which Nehf, pitching for the New York Giants, defeated legendary Hall of Famer Walter Johnson over 12 innings in the opening game of the 1924 World Series.

Crafty Pitcher Went the Distance—To World Series

Nehf also had an epic battle against another Hall of Famer, legendary New York Yankees' ace Waite Hoyt, over three games of the 1921 World Series. Nehf surrendered only nine hits in the first two games but lost both, as the Giants could only muster one run. However, pitching on two days of rest, he held the Yankees to four hits in his third straight complete-game performance. He preserved the decisive 1-0 series-winning victory by getting pinch-hitter Babe Ruth to ground out in the bottom of the ninth inning.

"If courage is the test of heroism, then Art Nehf...is the pitching hero of the World Series" wrote *The Sporting News* about Nehf's World Series performance.

Nehf overcame his short 5-foot-9 stature with pin-point pitching accuracy, a wicked curve ball, and underhand and sidearm left-handed delivery motions that he altered to baffle batters while pitching for the Boston Braves (1915–1919), Giants (1919–1926), Cincinnati Reds (1926–1927), and the Chicago Cubs (1927–1929). He had only 640 walks and 844 strikeouts over 2,707 career innings, and in one season completed 28 of the 31 games he started—remarkable statistics in any baseball era.

Hoyt recalled Nehf as "one of the best control pitchers I ever saw. He was a precise and careful fellow and very tough." And legendary Giants manager John McGraw once said that "Nehf is one of the finest, gamest pitchers the game has ever known."

Nehf pitched in five World Series, spitting his eight decisions, and had a 2.16 earned run average over 79 innings (among the top-10 all-time) while holding opposing hitters to a dazzling .174 batting average. His last big-league performance came as a relief pitcher as the Chicago Cubs lost the 1929 series to the Philadelphia A's.

Off the field, the studious and cultured Nehf was an exception to most baseball players of his era. He was raised to appreciate education, music and sports as the only child of a German-American family that owned a Terre Haute jewelry store. At Rose Polytechnic Institute, Nehf excelled as a three-sport athlete who also was elected president of his sophomore class and treasurer of the student council. His senior-year technical thesis examined a field control device used on an interurban railcar operating between Sullivan, Indiana, and Terre Haute.

After retiring from baseball, Nehf settled in Phoenix to become a respected and successful businessman. He suffered a debilitating heart attack in 1932 that forced him into permanent retirement, and died in 1960 at the age of 68 after a long battle with cancer.

Nehf's athletic accomplishments haven't gone unnoticed. Rose-Hulman's baseball field was named in Nehf's name in the 1960s and he was an inaugural class inductee in the institute's Athletic Hall of Fame. He also was inducted into the Baseball Hall of Fame in both Indiana and Arizona.

Echoes

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE
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PARTING SHOT

The White Chapel looks vibrant in any season, but its location nestled along trees on the west side of campus makes it even more picturesque each fall. See more campus beauty scenes by photographer Bryan Cantwell on pages 20-21.



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