

Fall 2017

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Echoes Staff

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FALL 2017

# Techoes

ROSE-HULMAN INSTITUTE OF TECHNOLOGY



### COLUMNS/ FEEDBACK

- 2 Message from the President
- 3 Elephant Ears:  
Flat Chauncey's  
Worldwide Adventure
- 28 The Bailey Challenge

### ROAD TO SUCCESS

- 4 Cover Story: Impact
- 11 Diversity Fueling  
Innovation
- 12 Kisha Bradley's Bright Idea
- 14 Innovation at Komatsu
- 16 Untapping Google Brain

4

TRAILBLAZERS  
Ingenuity and Impact

12

CHILD'S PLAY  
Growing STEM Interest

14

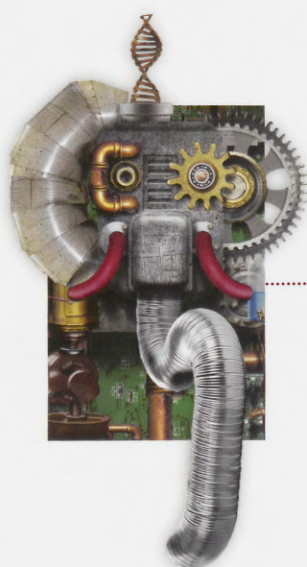
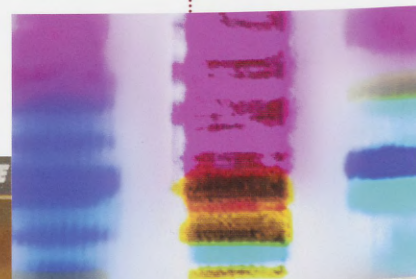
BIG IDEAS  
Smart Machines

16

DEEP LEARNING  
Cracking the Code

18

CHANGING LANDSCAPE  
A Growing Campus



### About the cover...All the elements that go into creating a **'fightin' engineer'**

Rose-Hulman alumni are tinkerers, problem-solvers, risk-takers and much more. Many of the elements of science, engineering and mathematics—when combined in unison by illustrator Becky Hochhalter—create a colorful depiction of Rose-Hulman's mascot, Rosie the Elephant. If you didn't see it on first glance, take another look. This beautiful artwork showcases some of the impactful elements in a Rose-Hulman Fightin' Engineer. The impact that our alumni, faculty, staff and students continue to have in solving today's complex problems—creating a better world—is the central theme of this fall issue.



26

NATURE'S BEAUTY  
Behind the Lens

37

GIVING BACK  
Honor Roll of Donors

22

ONE MAN'S IMPACT  
Economics Turns 50



52

CHERISHED MEMORIES  
Herman's Heroes



## SPECIAL FEATURES & NEWS

Photo Album: 26  
Capturing America's Beauty

Alumni News & Notes 29

Class Notes 30

In Memoriam 34

Rosebuds 35

Weddings 36

Honoring Our Donors 37

Memory Lane: 52  
Herman Moench Returns

Parting Shot: Back Cover  
Union Revisited

## CAMPUS CONNECTIONS

Land of Opportunities 18

In the Lab 20

Retiring Faculty 21

Remembering John Ying 22

Student Credentials 24

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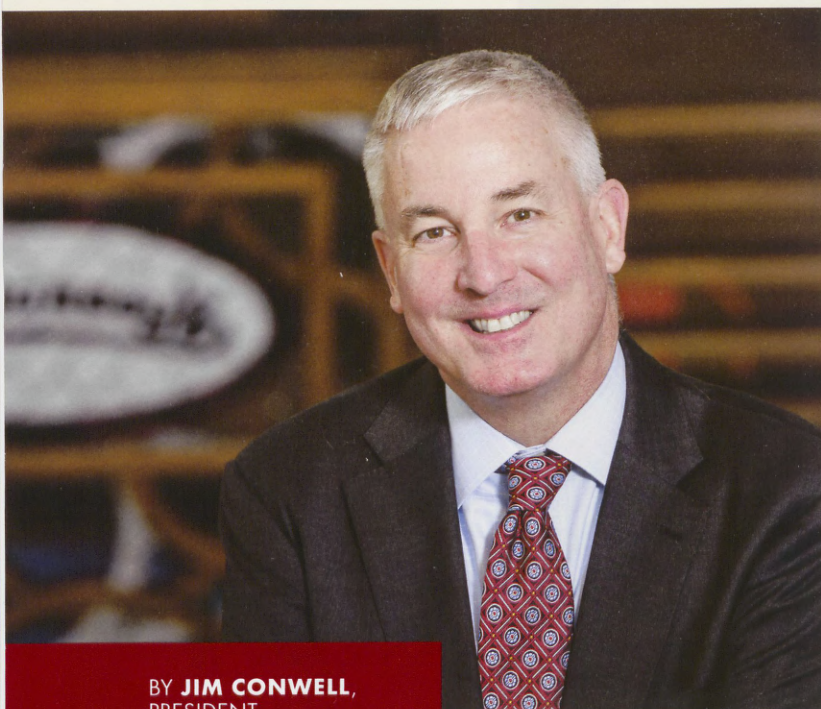
**ROSE-HULMAN**  
INSTITUTE OF TECHNOLOGY

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**W**e think of scientists, engineers and mathematicians as professionals who have mastered very difficult subject matter and have a deep level of expertise to offer their employers and communities. As alumni, you know how difficult your studies were and that feeling of satisfaction that came when you mastered the material, accepted your hard-earned diploma and went out into the world to your first job.



BY **JIM CONWELL**,  
PRESIDENT

conwell@rose-hulman.edu

But that's only a small part of the story—really only the beginning. The larger story is the tremendous legacy our graduates create—the impact they make through the work they do. Most of our incoming students probably aren't aware of all of the Rose-Hulman alumni—some who branched

off into medicine, law, research, military service and other fields—who have had a transformational effect around the globe since this institute opened its doors to its first students in 1883.

Our visionary founder, Chauncey Rose, not only saw the need for an engineering school in western Indiana, but also had the foresight to develop the nation's first Union Station in Indianapolis—a novel concept that created a central arrival and departure location for the various train lines that until then had each operated out of their own terminals scattered about the city. The reverberations of Chauncey Rose's leadership and vision are still being felt today—not just in Indiana but around the world.

Across the decades, Rose-Hulman has carried that baton forward, leaving a positive imprint across the globe by developing creative problem solvers who, in turn, have found innovative solutions to complex challenges in a variety of professions.

This issue of *Echoes* tells some of those stories—only a fraction, in fact. But the unifying theme (and one you should notice in every issue of *Echoes*) is IMPACT. I am proud of what we accomplish each day at Rose-Hulman. Each student who walks through our doors is capable of achieving great things, and we have the faculty and staff who can provide the knowledge and skills they will need to be successful. We expect each of those students to graduate in four years with the mindset of those who went before them: to make an impact on the world.

I hope you enjoy this issue and that it inspires you to share your own stories with us. Better yet—come to campus whenever possible to share them in person!

A handwritten signature in black ink, which appears to be "J. Conwell". The signature is stylized, with a large, looped initial "J" and a clear, legible last name.

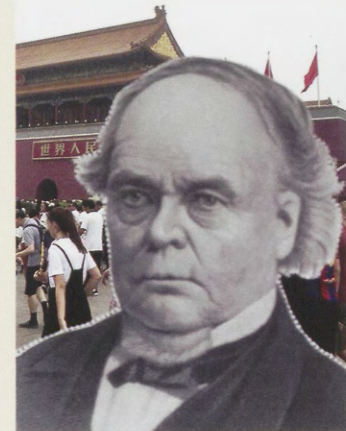


## Taking 'Flat Chauncey' Along for the Ride

Two hundred years ago businessman/entrepreneur Chauncey Rose traveled to Terre Haute, Ind., in hopes of expanding the country's railroad system to uncover the great industrial and commercial opportunities in what was then the American West. This summer, alumni took Chauncey on their travels. The Office of Alumni Relations distributed a cutout of Chauncey mounted on a Popsicle stick—a variation on the *Flat Stanley* books for kids—and asked alumni to send photos of themselves with Chauncey in locations around the world. Below are some of the many contributions.



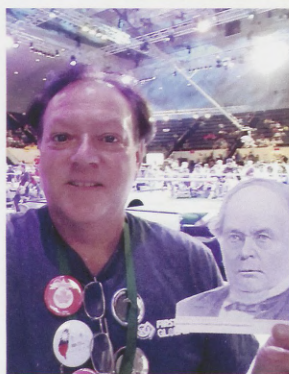
**Alexandra (Jantzen) Schroeder (BE, 2006) and Kyle Schroeder (ME, 2005)** took Flat Chauncey along as the couple visited Tiananmen Square in Beijing and the Great Wall of China. "We figured he (Chauncey Rose) may never have been there, just like us," Alexandra says. "We enjoyed being able to have something familiar with us and have some fun taking the photo. We probably got some curious looks along the way."



**Jason Karlen (CHE, 1992)** spent America's Independence Day in Boston, Mass., and took his Flat Chauncey to visit the historic USS Constitution battleship. "It seemed fitting," he adds. "I've collected Rose Poly memorabilia for several years and have always held Chauncey Rose in the highest regard."



Flat Chauncey assisted **Denny Colvin (CS, 1974)** in taking photographs in South Carolina of this summer's total solar eclipse, as part of the MegaMovie Citizen Science Project. And, of course, Chauncey wore eclipse protection glasses! "It was a fun idea," says Colvin. "This year's total eclipse was a unique event and I thought Chauncey should have been there to enjoy it... Terre Haute will be in or near the path of another total eclipse in 2024. Chauncey will be ready!"



**David Price (EE, 1986)** took Flat Chauncey along during travels to the Canadian Rockies and the FIRST Robotics Global Challenge in Washington, D.C. "I enjoyed the creativity aspect of the project...I thought it was a great way to help show the younger generation that the Rose-Hulman experience doesn't end at graduation. 'Forever Rose' means just that—forever."



Follow the many travels of Chauncey at #flatchauncey

We welcome getting feedback on stories in each issue. Send Elephant Ears items to: [dale.long@rose-hulman.edu](mailto: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.



STORY  
BY DALE  
LONGALUMNI  
LEAVE MARK  
ACROSS THE  
PROFESSIONAL  
SPECTRUMINGENUITY  
AND  
IMPACT

**THE SPARK OF AN IDEA** behind many of the crowning technological achievements of the 20th century—from the color television, semiconductor, transistor radio and putting man on the moon, to today's breakthroughs in the life sciences, computer software and electric-powered cars—can be traced back to the ingenuity of a Rose-Hulman alumnus.

Lessons learned on campus helped ignite the creative minds of such innovators as **Bernie Vonderschmitt**, a 1944 graduate whose groundbreaking contributions to the semiconductor industry and the production of the color television changed the landscape of business, culture and family lifestyles.

As NASA's first director of space flight programs, 1929 alumnus **Abe Silverstein** pioneered America's manned space missions that eventually put a man on the moon. The hybrid-pi transistor model created by **Lawrence Giacometti** (1938 alumnus) assisted in the development of today's hybrid electric vehicles. **Gary Boone** (1967) was the brainchild behind the world's first 8-bit microprocessor and single-chip microcontroller, paving the way for microcomputing.

Alumni have earned two of the most prestigious awards in technology: **Fred Garry's** groundbreaking work in jet engine development for General Electric earned the 1951 graduate the National Medal of Technology Award, while 1958 alumnus **Ernest Davidson's** research leading to the field of computational quantum chemistry earned the National Medal of Science.

**IN THIS ISSUE**, *Echoes* highlights alumni who achieved distinction—past and present—in a variety of fields. Clearly, this is not a complete list and we welcome learning about other alumni and their contributions.

Send information to [dale.long@rose-hulman.edu](mailto:dale.long@rose-hulman.edu).



## CARTER PROVIDES INTEL WITH 'INSIDE' TRACK

Having a business-savvy engineer in the marketing department certainly paid off for Intel. As vice president for marketing, **Dennis Carter (EE, 1973)** helped develop the "Intel Inside" slogan, along with its distinctive four-note musical identification tone. It has been an enduring advertising campaign and the focus of marketing case studies for more than 30 years. Intel was looking for ways in the late 1980s to get more of its flagship 386 processors and the next-generation 486 version to be featured in the growing personal computer marketplace. The strategy that Carter and his team developed was successful, with Intel developing into one of the most valuable brands in American business.

**Bernie Vonderschmitt (EE, 1944)** contributed to the development of the semiconductor and color television, two of the top technological achievements in the 20th century. After spending 34 years as a researcher with RCA Corp., he pioneered the programmable semiconductor chip and founded the Silicon Valley-based startup Xilinx Inc., the first company to separate the design of chips from its manufacturing practice.

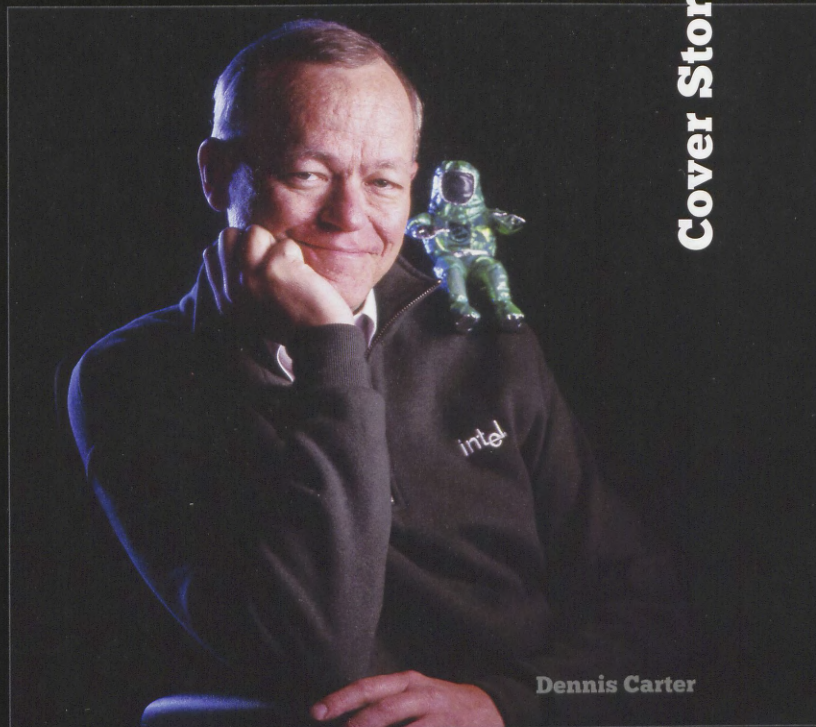


**Bernie Vonderschmitt**

**Gary Boone (EE, 1967)** helped pave the way for microcomputing, developing the world's first 8-bit microprocessor and single-chip microcontroller (for Datapoint), engine and powertrain electronic control systems (for Ford Motor Co.), and microcontrollers for calculator and watch applications (Litronix). He also worked for Texas Instruments, General Computer and Atari, managing the team that designed the graphics chip at the heart of Atari's popular computer game console.

**Lawrence Giacoletto (EE, 1938)** created the groundbreaking hybrid-pi transistor model, and played a key role in the development of the color

television, hybrid electric vehicles and other modern-day innovations. Listed among the American Men of Science, he also authored *The Electronics Designers' Handbook*.



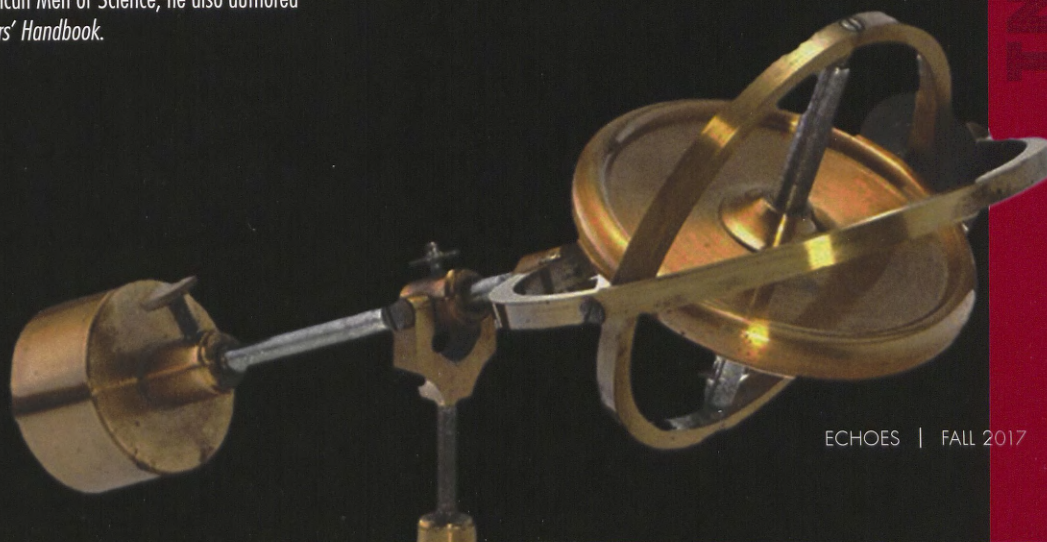
**Dennis Carter**

**Chris Mack (PH/CHEM/EE/CHE, 1982)** is a leading expert in semiconductor lithography who has spent the past 20 years training more than 2,000 lithographers from more than 200 countries throughout the world. He is currently writing, teaching and consulting in lithography.

**John Pies (EE, 1939)** created the first commercially sold transistor radio, the Regency TR-1, in 1954. It kicked off a worldwide demand for small and portable electronic products, such as the personal computer, that have become a part of people's everyday lives. Pies co-founded Regency Electronics Inc. in 1945.

**Roy Primus (MA, 1975)** is the senior principal engineer for General Electric's combustion systems division. He has been honored with the Global Research Tony Nerad Technical Achievement Award for sustained technical contributions over his career.

**Tony Coopridner (EE, 1986)** has been part of a variety of groundbreaking automotive initiatives as the most senior technical specialist within Ford's electronic component division.





# THE CORPORATE SUITE



Jim Umpleby

## UMPLEBY DIGS IN AT CATERPILLAR

**Jim Umpleby (ME, 1980; HDENG, 2016)** became chief executive officer of Caterpillar Inc. Jan. 1, 2017. Caterpillar is the world's leading heavy equipment manufacturer and one of the 30 stocks comprising the Dow Jones Industrial Average. Since taking over the helm, Umpleby and his management team have announced a new strategy to profitably grow the company. This new strategy focuses on improving margins, expanding offerings and services—especially in digital technology—and taking a disciplined approach to invest more resources in areas that present the best opportunity for future profitable growth. The company has emerged leaner and nimbler from the longest downturn in its 92-year history. In its second-quarter earnings release in July, the company raised its 2017 sales and revenues outlook to a range of \$42 billion to \$44 billion. Wall Street investors appear to like the company's performance and prospects; the stock price has hit record highs this year.

**Darin Moody (CHE, 1987)** is senior vice president of Eli Lilly and Co.'s global active pharmaceutical ingredient, dry products manufacturing and continuous improvement division. He has spent his entire career with the Indianapolis-based company, in leadership roles at Lilly's manufacturing plants throughout the world.

**Jeff Harrison (EE, 1989)** is president and CEO of Citizens Energy Group, a utility company providing services to approximately 400,000 customers in central Indiana. He joined the company in 2003 as director of market development, and progressed through positions of increasing responsibility in manufacturing and engineering.

**Steven McCracken (ME, 1975)** served as chairman and CEO of Owens-Illinois Inc. for just a short time (2004 through 2006) before his death, but his management decisions helped the Fortune 500 glass container company return to profitability after losing market share for several years. He also had a 30-year career in marketing at DuPont.

**Leroy Wilson (CE, 1922)** was president of AT&T from 1948 to 1951, where he helped bring the company out of financial difficulties through innovation, encouraging the development of Bell Laboratories. This brought new advances into the communications industry.

**Gregg Lowe (EE, 1984; HDENG, 2014)** has utilized his successful leadership skills to become president and CEO of Cree, a market-leading innovator of lighting-class LEDs and lighting products. He also was successful as a leader of Freescale Semiconductor and an executive of Texas Instruments' analog business.

**Rod Schrader (CE, 1984)** has brought innovation and new business practices as chairman and CEO of Komatsu America Corp., a manufacturer and supplier of earth-moving equipment. (See story on pages 14-15)



Jeff Harrison





## LIFE SCIENCES

## BERZSENYI AT THE FOREFRONT OF WOMEN'S HEALTH

Putting women in control of their health care is the primary concern of **Agnes Berzsenyi (MSME, 1995)** in her new role as president and chief executive officer of women's health within GE Healthcare. Since Berzsenyi was named to the post earlier this year, GE Healthcare has introduced a patient-assisted mammography device—a first for the industry. Mammography is one of the areas in GE Healthcare's women's health portfolio for which Berzsenyi drives strategic and commercial direction. She is a member of the GE Healthcare Women's Network and earlier this year was named among America's 100 "Women to Watch" in business by *Bizwomen* magazine.

**Michael Mussallem (CHE, 1974; HD, 1999)** is one of the nation's most influential health care leaders as chairman and chief executive officer of Edwards Lifesciences. Under his executive leadership since 2000, the California-based company has been at the forefront of patient-focused medical innovations for structural heart disease, as well as critical care and surgical monitoring.

**Niles Noblitt (BIO ENG, 1973)** co-founded Biomet Inc., a Warsaw, Indiana-based manufacturer of reconstructive hips, knees and shoulders, and a variety of orthopedic support devices.

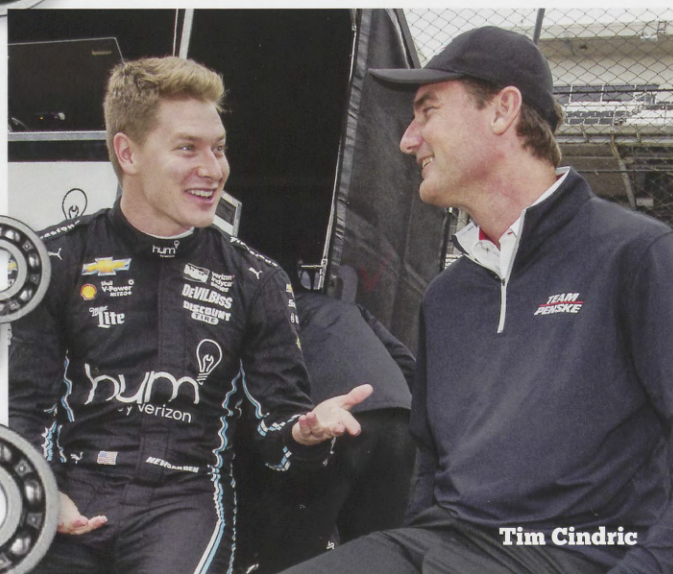


Agnes Berzsenyi

Cover Story

**James Gilman (BIO, 1974)** is chief executive officer of the National Institutes of Health's Clinical Center, the nation's premier biomedical research facility. The retired Army major general had a 35-year military medical career that included leading patient care at the Walter Reed Health Care System in Washington, D.C. Gilman is a board-certified internal medical doctor.

## CINDRIC PUTS PENSKE RACING IN WINNERS CIRCLE



Tim Cindric

Winning is nothing new for Penske Racing and its president, **Tim Cindric (ME, 1990)**. Under his management, Penske has won 100 IndyCar Series races, including six Indianapolis 500 victories, and six series championships. The latest came this year when he served as race strategist for driver Josef Newgarden.

**Art Nehf (EE, 1914)** won 184 games in 15 major league seasons as a baseball pitcher, including victories in deciding games for the dominant New York Giants in two World Series (1921 and 1922).

**Keenan Long (ME, 2010)** is using his knowledge as a former standout baseball player to introduce new technology to baseball and softball bats in his work as an advanced concepts engineer with Easton sporting goods. The new Torq bat features a rotating handle that helps the batter achieve better contact.

**Liz Evans (BSEE/MA, 2013; MSEM, 2015)** won five NCAA Division III national high jump championships (2011 to 2013) and competed in nine USA Track & Field National Championships, placing as high as third in 2015.

**Tony Allen Cooksey (CE, 1978)** was Rose-Hulman's first Division III track and field All-American (1975) and a four-time track All-American in three different events (triple jump, decathlon and long jump). He was a decathlon competitor at the 1980 and 1984 U.S. Olympic Trials.

## SPORTS



## HATFIELD A SERIAL SUCCESS STORY

A search for the definition of a serial entrepreneur may find **Mike Hatfield (EE/MATH ECON, 1984)** mentioned prominently. After all, he has four successful California-based startup enterprises in his portfolio, including Cyan, a global supplier of software defined networking tools (acquired by Ciena); Calix, a leading provider of high-speed access systems for communications service providers; and Cerent, a high-speed fiber optics systems company (acquired by Cisco for \$7 billion). He also has served in management roles for Ameritech.

**Felda Hardyman (1969, MA)** is a partner in Bessemer Venture Partners' Cambridge, Mass., office whose successful investments have included American Superconductor, African telecommunications provider Celtel, the MCAD leader Parametric Technology, and retailers Sports Authority and Staples. He is a former endowed professor and researcher at Harvard Business School.

**Jeff Ready (CS, 1996)** ranked on CRN's List of the Top 25 Innovators of 2017 for his contributions as co-founder and CEO of Scale Computing, the market leader for hyperconverged infrastructure built for the information technology departments at midsize companies.

**Will Ackerly (EE, 2004)** was named to Fortune's 2015 40 Under 40 list of most influential young people in business after the former National Security Agency technologist founded Virtru, a Washington, D.C.-based startup that specializes in providing encryption services to businesses and private computer users.

**Andrew Lee (EE/CS, 2006)** co-founded the San Francisco database startup Firebase and is now its director of engineering after it became part of the Google Cloud Platform. Firebase is a growing high-tech player, giving developers a tool to easily sync data across web and mobile applications.

**Dustin Sapp (CPE, 2001)** has moved his technology passions west as chief operating officer of Formstack, based in Colorado, after spending 15 years as a successful entrepreneur in Indianapolis. He was named the Indiana Chamber of Commerce's Indiana Vision 2015 Dynamic Leader of the Year for his efforts as co-founder of Oktiv, previously known as TinderBox. He also co-founded voice technology platform Vontoo and Nolnk, a medical device sales solutions company.

**Jeff Gilbert (BSME, 1985; MSEM, 2006)** has been leading and delivering technology solutions for more than 26 years. In 1988, he co-founded Carmel, Ind.-based Software Engineering Professionals with three other Rose-Hulman alumni to bring an engineering approach to software development. The company builds systems and products for several global clients.



Mike Hatfield

# ENTREPRENEURS



## PIONEERS

Cover Story

SILVERSTEIN TOOK  
GIANT STEPS FOR  
SPACE EXPLORATION

**Abe Silverstein (ME, 1929)** set the foundation for America's manned space missions that eventually put a man on the moon, as NASA's first director of space flight programs (from 1958 to 1969), and was the inspirational leader of the Lewis Research Center in Cleveland, Ohio. He is credited with starting the Mercury, Gemini, and Apollo space programs, and gained public and government support for space exploration. Silverstein was inducted posthumously into the National Aviation Hall of Fame in 2015 and awarded the acclaimed Guggenheim Medal.

**Ernest Davidson (CHE, 1958)** received the National Medal of Science and is a member of the National Academy of Science and American Association for the Advancement of Science for his groundbreaking work that led to the field of computational quantum chemistry. The retired University of Washington chemistry professor has authored research papers that have appeared in more than 400 scholarly publications.

**Fred Garry (ME, 1951)** received America's highest honor for science and technology, the National Medal of Technology Award, for his career achievements that helped General Electric become a world leader in jet engine manufacturing. He led GE's military engines division and its corporate engineering sector, and advocated expanding engineering opportunities for women and minorities.

**Don Lincoln (PH, 1986)**, a senior scientist in the area of particle physics at Chicago's Fermi National Accelerator Laboratory, contributed to the discovery of the Higgs boson, possibly the last missing piece of the Standard Model of particle physics. He has spent more than 20 years making the world of subatomic particles accessible to the public through his lectures, books, videos and articles.



Abe Silverstein

## Searching for All Alumni with Patents

Rose-Hulman is looking to compile a list of all alumni who have been associated with patents for innovations. This would be an impressive list that could be featured on campus in the future. Send information about the name and number of each patent to [dale.long@rose-hulman.edu](mailto:dale.long@rose-hulman.edu). (No patent-pending submissions)





## OSBURN STEERS NASA MISSIONS IN RIGHT DIRECTION

**Dick Osburn (MA, 1967)** provided a sure and steady hand over ground navigation at NASA's Mission Control for 11 Apollo missions, including the historic Apollo 11 moon landing. He was the first controller to report to flight director Gene Kranz that there had been a spacecraft anomaly on Apollo 13, eventually aborting the mission (documented in the movie "Apollo 13"). He also supported Skylab and Space Shuttle missions, and was head of NASA's ground navigation section from 1980 to 1985. He later moved to Rockwell Space Operations and worked on Space Shuttle missions until his retirement in 2003.

Dick Osburn

**Don Fordyce (ME, 1956)** and **Richard Wegrich (ME, 1958)** helped create key components for the Hubble Space Telescope, which has provided a glimpse into deep space. Fordyce was brought in to manage the Hubble program after having a successful career as vice president of Fairchild's space systems division. Wegrich directed development of the temperature control system for the telescope's eye piece.

**James Dunlop (EE, 1952)** developed the nickel-hydrogen battery that powered satellites, the Hubble Space Telescope and International Space Station. His prototype battery is on display at the Smithsonian Institution.

As engineers at Lockheed Martin, **Nicholee (Page) Nietch (ME, 2001)** and **Karl Ammerman (1996, CPE)** designed key elements of NASA's Juno space probe that is orbiting Jupiter. Nietch also worked on NASA's Spitzer Space Telescope, Mars Odyssey and the Mars Reconnaissance Orbiter.

**Steven Schmitz (ME, 2007)** is a senior manager for SpaceX, overseeing the design and analysis of avionics mechanical systems for Falcon 9 and Dragon space flight vehicles.

## WILKINS HELPS AFRICAN-AMERICANS TELL THEIR STORIES

Stories about the African-American experience have come to life at the National Museum of African American History and Culture in the nation's capital, through the efforts of **Robert Wilkins (CHE, 1986; HDENG, 2017)** and many others. Wilkins served on the Presidential Commission created by Congress to plan the museum and its location, part of the Smithsonian Institution. He also has made contributions to the nation as a public defender, defense attorney and, today, as a judge on the U.S. Court of Appeals for the Washington, D.C., Circuit Court.

**Al Yee (CE, 1948)**, a pioneer in the design of precast concrete structures for land and sea structures, was a consultant on the design and construction of such iconic building projects as the USS Arizona Memorial, one of the most visited and admired sites in America, and the 70-story Sail @ Marina Bay tower in Singapore. Yee was named a Titan of the precast/prestressed concrete industry and recognized by the American Society of Civil Engineers and Prestressed Concrete Institute.

**Marshall Goldsmith (MA ECON, 1970)** is sought by executives of Fortune 500 companies and world leaders as the No. 1 Leadership Thinker and No. 1 Executive Coach, named both by Thinkers50, sponsored by the Harvard Business Review. He is a best-selling business author of *What Got You Here Won't Get You There* (2007), *MOJO: How to Get It, How to Keep It, and How to Get It Back If You Lose It* (2010) and *Triggers* (2015).

**Fujio Matsuda (CE, 1949)** found success as president for a decade (1974 to 1984) at the University of Hawaii (the first Asian-American to lead a major U.S. university). Earlier, as head of the Hawaii State Department of Transportation, he contributed to the development of the state's transportation system (including highways, airports and shipping ports)—an achievement that earned him membership in the National Academy of Engineering in 1974. ■

Robert Wilkins



# Leveraging Diversity to Fuel Innovation

## GUEST EDITORIAL

**YAW ANING**  
CE, 2007  
CO-FOUNDER,  
STICKSNLEAVES

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*Indianapolis Business Journal*

The relationship between diversity and innovation is often hard to define. Most leaders accept that there are benefits to having a diverse workforce, but proving and quantifying direct impact is difficult.

Yet, several studies show diverse groups are more innovative than homogeneous ones.

According to a 2013 *Harvard Business Review* article, employees at companies that exhibit a diverse workforce are 45 percent more likely to report that their firm's market share grew over the previous year and are 70 percent more likely to capture a new market.

Research of the top firms in the Standards & Poor's 1500 Index found that firms with female representation in top management saw the value of their firms increase \$42 million, on average, from 1992 to 2006.

And, another report found that for every 10-percent increase in racial and ethnic diversity on the senior executive team, earnings rise 0.8 percent.

While these facts are clear, some of the world's most innovative companies continue to have a significant lack of diversity. Why is that?

Some of these challenges can be explained by the culture-fit paradox. In the early days of a new company, the recruited team resembles the founders because the team is recruited from the founding team's network. In most cases, that network is filled with like-minded people. The first hires set the culture, and to preserve that culture, leaders hire based on a candidate's ability to fit within that culture.

Hiring strictly for culture fit has far-reaching implications. A study by professors from the University of California found that Silicon Valley firms that hired on cultural fit, as opposed to skills or potential, were more likely to survive, and more likely to get to an initial public offering. But after IPO, these firms grew slower than ones that hired on skill or potential. The rigid culture that was formed made it difficult to adapt to change, and they struggled to innovate thereafter.

The basic explanation of this phenomenon is that hiring based on cultural fit breeds groupthink. A homogeneous team has members who are more likely to arrive at similar conclusions; dissenting opinions lead groups to look at problems and evaluate solutions differently.

Diversity is one of the cultural values for my agency, Sticksnleaves. We found that having representation on our team that was similar to the diverse set of end users and customers improved our ability to understand and solve their problems.

When a team member has similar experiences to a company's customers, the entire team better understands that customer.

When we noticed this occurring, we started recruiting candidates based on their ability to challenge the prevailing opinion and assumptions we use to build new tech products. We believe the team that will innovate over time is one that has broad, unique and diverse people collaborating. This change in mindset has helped us grow and innovate more effectively.

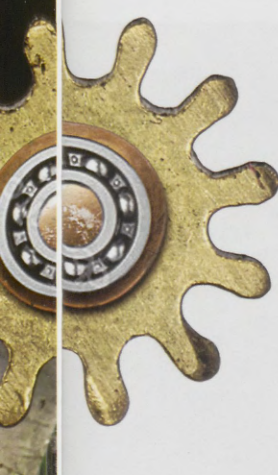
Creating an inclusive culture makes everyone feel comfortable sharing "out of the box" ideas. This culture must be cultivated by leadership. The Center for Talent Innovation noted that, without leadership's fostering a diverse culture of sharing, women are 20 percent less likely than straight white men to win endorsement for their ideas; people of color are 24 percent less likely; and members of the LGBT community are 21 percent less likely.

Leaders who encourage diverse voices to share their opinions are twice as likely as others to unearth valuable insights, and employees are 3½ times as likely to contribute their full innovative potential. The cost of exclusion is missed market opportunities. Diverse teammates might better understand unmet needs in overlooked markets.

Firms that want to avoid the culture fit trap and build an innovative firm should factor in diversity from the start. Hire employees based on their ability to enrich the existing culture rather than how they fit into it.



Yaw Aning





# CHILD'S PLAY

Igniting STEM Interests in Kids Through Wonder, Adventure

STORY BY  
DALE LONG  
PHOTOS BY  
CHRIS  
BENTLEY



Kisha Bradley's Bright Box ideas are gaining popularity with community groups throughout Sheffield and South Yorkshire, United Kingdom. She recently won the Sheffield SOUP crowdfunding competition.

Who knew that Play-Doh had conductive properties? Or, that stringing together balls of the playful material could illuminate a light-emitting diode? And, that those simple, squishy circuits are motivating the next generation of engineers, scientists and mathematicians?

Sculpting science from Play-Doh is one of the many bright ideas that has taken alumna Kisha Bradley halfway across the globe in hopes of bringing creativity and playful exploration to science, technology, engineering and math (STEM). At the same time, she's encouraging children, particularly girls, to take things apart, experiment and then make the objects better.

Bradley's entrepreneurial activity, Bright Box, is a creative space that has groups of kids in England's Sheffield community learning by doing, and having lots of fun along the way.

"There's something magical in seeing young girls having fun creating their own inventions," says the 2015 mechanical engineering graduate. "After all, they're going to be the ones making the inventions of the future."

She should know. Twenty years ago, Bradley saw a woman in a white lab coat demonstrating a science experiment at her school in Richmond, Indiana. The instructor poured liquid nitrogen over a balloon and tapped it with a ruler, causing it to burst into several pieces.





Children ages 7 to 11 are having fun learning about science, engineering and math concepts through many Bright Box projects.



"I had my mind blown that day and I was hooked. I wanted to know how everything worked," Bradley says, laughing while recalling the moment. "Before that day, I thought STEM career fields were just for boys. I thought there was no way a girl like me, mixed race and not knowing if I'd get three meals a day, could ever become an engineer."

Bradley realized her dreams after spending a year studying at the University of Stuttgart through the German Academic Exchange Service, working as an application engineer with Cummins Inc. and earning a master's degree in international business management from the University of Sheffield. She decided to stay in England to organize Bright Box.

Bradley's efforts are gaining momentum. She won this summer's Sheffield SOUP crowdfunding competition (with an \$1,150 prize) and received support from the Groundwork South Yorkshire Social Enterprise Exchange Program. This is helping bring Bright Box to underserved areas of Sheffield through workshops, makerspaces, community events and children's STEM-themed parties (see activity list at right). Once attended by a handful of children, these events now regularly attract hundreds of kids of all ages—and their delighted parents.

"We're on a mission to get more socially excluded kids to see that STEM can be fun and creative. Sixty-five percent of today's kids will work in jobs that do not yet exist, and we want to prepare them to have the creative skills to adapt from an early age through tech play and improved digital literacy," says Bradley, the self-proclaimed Chief Tinkerer of Bright Box.

And, as Bradley reminds us, it all started with a lady in a white lab coat.

"I want to be someone who inspires kids' lives, changes their perspectives of where they fit in the world, grows their confidence, and opens their minds that they can do anything," she says. ■



## A Few Bright Ideas

Kisha Bradley's Bright Box has organized some of the following activities and challenges to incite youth ages 7 to 11 to explore science, technology, engineering and math:

### MESSY MAKER LAB

Children spend Saturdays in hands-on activities and make projects that they design, becoming introduced to new tools and materials. These events include building propeller-powered boats and wind-up motorized cars, and creating Rube Goldberg cartoon-inspired machines from recyclable materials.

### BIRTHDAY PARTIES

STEM-theme playtime workshops are customized to match the birthday child's interests. These could involve building robots or creating animations.

### INVENTOR'S STUDIO

Kids imagine, make and play while tinkering with technology, tools and materials. These themed activities have such names as Hack Your Toys, Screaming Monsters, Spooky Stop Motion and Build A Village.



# MOVING MOUNTAINS

**A**utonomous vehicles may not be pulling up beside you on America's roadways anytime soon, but they already are helping mine the coal that's lighting your home and powering industry.

Look closely and you may no longer see Bob The Builder—or his associate, Wendy—behind the wheel of heavy-duty trucks, dozers, forklifts and other vehicles in operation at worksites throughout the country. And, those that aren't under autonomous control have a vast array of machine control-enabled technology that's driving efficiency, versatility and money savings to help businesses prosper in today's competitive economy.

STORY  
BY DALE  
LONG

Komatsu developed an "Innovative Autonomous Haulage Vehicle," featuring a cables structure, to maximize the advantages of unmanned operation. It was unveiled at last year's MINExpo in Las Vegas.





## GETTING SMARTER, AUTOMATED

"Machines have to be smarter and more automatic," says 1984 civil engineering alumnus Rod Schrader, who is chairman and chief executive officer of Komatsu America Corp., an entity with more than 20 years of experience in producing automated earth-moving equipment. This is giving the subsidiary of the Japanese-owned company a competitive edge over industry competitors.

More than 100 Komatsu-produced driverless trucks are using Global Positioning System and on-board radar technology 24 hours daily to move as much as 320 tons of land overburden, per trip, in mining operations throughout the world. The company has unveiled plans to develop a cabless autonomous hauler, and a Komatsu truck is the platform for a European consortium pilot program to develop the world's largest electric-powered haul truck.

Also, Komatsu introduced this year several new heavy equipment products with such features as intelligence machine controls, electronic-controlled hydrostatic transmissions, exhaust gas recirculation systems and variable motor turbochargers—striving to support Schrader's claims that Komatsu is the most innovative company in its industry.

"Our industry may be viewed on the outside as old, non-leading edge and filled with basic mechanical technology, but, over the last five to 10 years the amount of innovation and smart-system technology going into products in our industry is simply amazing," says Schrader in a telephone interview from Komatsu America's headquarters in Rolling Meadows, Illinois, a Chicago suburb. "The day is coming when the diesel engine will eventually be eliminated by electric-controlled vehicles within many of our product lines. That's a huge paradigm shift in our business."

Other modifications in Komatsu's annual \$18-billion global business have been non-technology specific, utilizing lessons learned from Schrader's numerous conversations with customers. The company took steps a decade ago to redefine its sales and support units by getting closer to the customer. It now has company-owned dealers strategically located in the eastern and western U.S. to have new and used construction equipment, parts and machine retooling mechanisms, and service capabilities on demand to meet customer needs. Komatsu's mining footprint expanded earlier this year with the acquisition of Joy Global Inc. and its rich line of products, services and technologies.

"Our business model is constantly changing. Today, we have to play every segment of the business, not just selling new equipment," says Schrader, who estimates that Komatsu America contributes the largest segment (as much as 23 percent) of the global company's annual sales. "The evolution for Komatsu, in recent years, has become focused on developing a keen interest in product distribution, rental and leasing, parts and servicing our products—all in an attempt at growing our product population."

## LEARNING TO LISTEN

Schrader has spent considerable effort during the past decade listening to the company's customers, along with business prospects, in the construction, utility, energy, forestry, manufacturing and mining industries. That valuable feedback has helped determine Komatsu's long-term direction within engineering, service support, finance and marketing divisions.

"For contractors, the price they're paid for moving a yard of dirt has been virtually unchanged over the past 20 years. What has made an impact is other business costs, which we can affect," says Schrader, who celebrated his 30th year with Komatsu late this summer. "Any way that we can improve efficiency and lower equipment costs for our customers is a winning proposition for us. That's where elements of innovation and customer service are key, and, fortunately we're on the leading edge in many of these key areas. I haven't been an engineer one day throughout my entire career here. Rather, I have been a listener, communicator and problem solver." ■



Rod Schrader

## IMPACTFUL ALUMNI

If soil and gravel are being transported or dug in America, there's a good chance it's being done with equipment manufactured by companies led by two Rose-Hulman alumni—Caterpillar CEO **Jim Umpleby (ME, 1980; HDENG, 2016)** and Komatsu America Inc. Chairman/CEO **Rod Schrader (CE, 1984)**.



View a computer graphics presentation of Komatsu's autonomous haulage vehicle at <https://youtu.be/SNlRmmPpIs>.



# BIG DATA

FINDING THE KEY  
TO UNLOCKING  
THE WORLD'S  
COMPLEX PROBLEMS




**T**he worlds of mathematics, science and computing are becoming aligned, like mixing liquids in a chemistry beaker, to explore the impossible, discover medical breakthroughs and make machines more intelligent—all in a concentrated effort to improve people's lives.

For instance, the development of deep neural “stacked information” networks combined with imaging processes for examining the neurosensory tissue within the core of the human eye is helping ophthalmologists improve the early detection rates for vision loss in diabetics. Elsewhere,

Ryan Poplin is leading Google's Brain Genomics Team.

STORY BY  
DALE LONG  
PHOTOS BY  
BRYAN  
CANTWELL





these deep learning models are helping pathologists better identify cancerous cells in hopes of correcting the one out of 12 breast cancer biopsies that are currently being misdiagnosed or undisclosed.

As you might suspect, Rose-Hulman alumni are in the thick of deep learning. Ryan Poplin, a 2004 computer science and mathematics alumnus, is leading Google's Brain Genomics Team that's looking to produce the short DNA fragments and any significant small differences within them—providing scientists and other researchers with the roadmap to unlock the building blocks to solving such genetic diseases as cystic fibrosis and sickle cell anemia, producing plants with a higher nutritional value or that can tolerate herbicides, and exchanging DNA from persons to solve genetic dysfunctions.

### ENDLESS POSSIBILITIES

"We're talking about a whole new world for everybody in science, engineering, computer science and math. The possibilities are quite endless," says Poplin. His team of five engineers is developing a variety of algorithms and problem-solving tools in computational genomics.

This relatively new process, known as "deep variant calling," is a vast improvement over conventional "variant calling" techniques, which produce thousands of errors and missed variants within each genome sequence segment. The approach helped Poplin and Google-affiliated Verily Life Sciences startup win the highest performance award for single nucleotide polymorphisms, or SNPs, in the Federal Drug Administration's 2016 variant calling challenge.

"Deep variant represents a significant step towards more automatic deep-learning approaches for developing software to interpret biological instrumentation data," says Poplin, who added to his academic credentials from Rose-Hulman with a master's degree in neural computation at Carnegie Mellon University.

He was the lead developer of the Genome Analysis Toolkit, a popular software package for processing next-generation DNA sequencing data. Poplin has

been sought as a keynote speaker at conferences and workshops throughout the country for his expertise in data science and computational genomics. Publications by Google Brain team members have been featured in leading computer science journals.

Poplin's team is taking advantage of technical resources available through Google and its parent company, Alphabet, to meet its research goals.

This produces intelligent machines and processes that will someday improve people's lives. This is done through deep learning research, a subfield of machine learning, that focuses on building highly flexible models that learn their own features, end-to-end, and make efficient use of data and computation.

### UNLOCKING POTENTIAL DISCOVERIES

"Our expertise in these systems is giving us the knowledge to build tools that are accelerating machine-learning research and unlocking its practical value," Poplin remarks in a telephone interview from Google Brain's offices amid Google's headquarters in Mountain View, California.

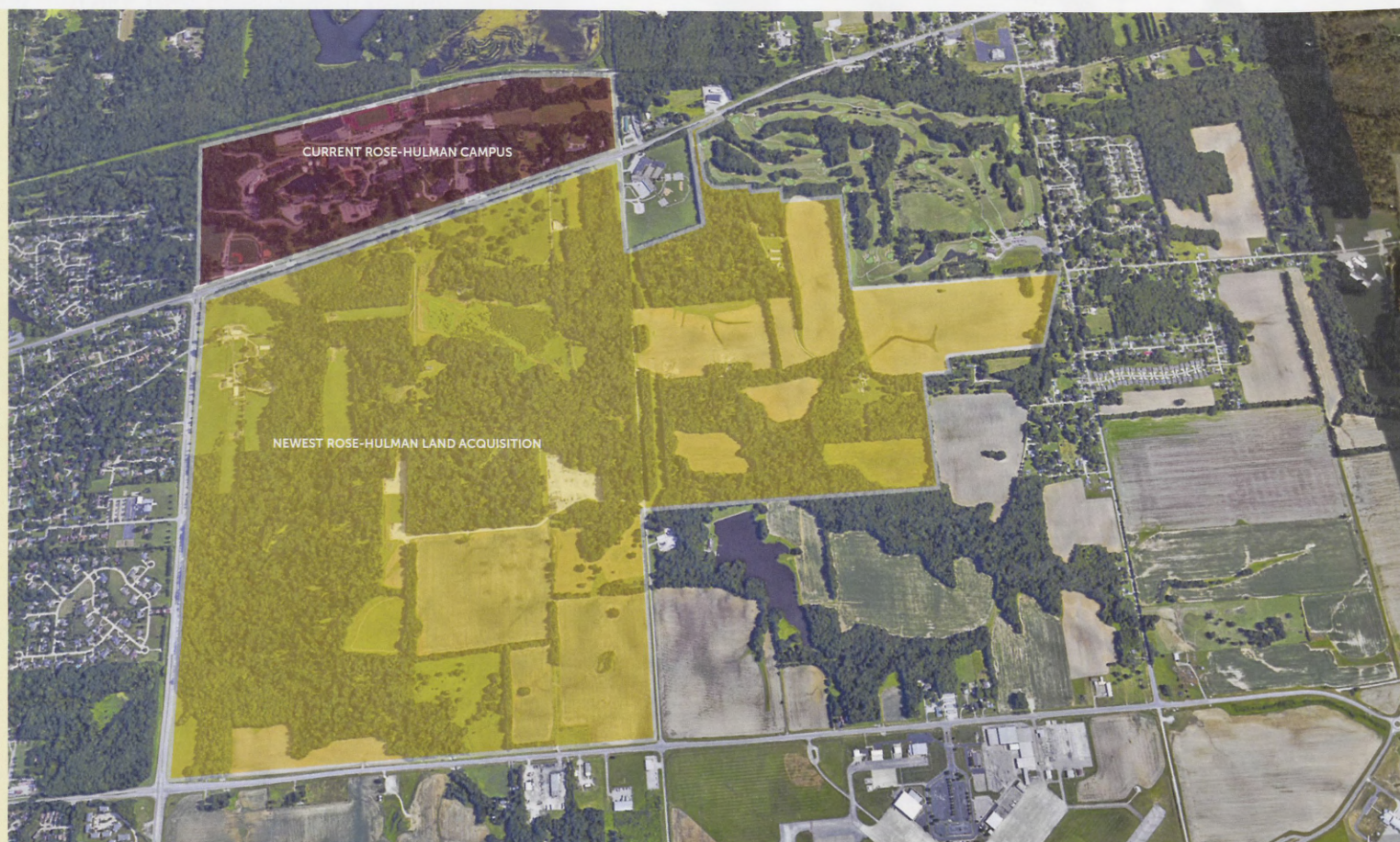
Google Brain researchers have the liberty of setting their own research agendas and determining level of engagement—from basic methodological studies or more applied research. Then, this work in genomic information is being shared with researchers, physicians and other professionals.

"Big genomic data is moving at such rapid speeds. We're talking in terms petabytes (a million gigabytes) rapidly growing toward exabytes (one quintillion bytes)," he says. "Through extensions to the Google Cloud Platform, the same technologies that power Google Search and Google Maps are securely storing, processing, exploring and sharing large, complex datasets that are valuable resources to everyone." ■



# Campus Landscape Expanding with Hulman Property Purchase

Rose-Hulman's new acreage (yellow area) is located just across Wabash Avenue from campus (red area on map), and stretches south to Indiana State Road 42.



**R**ose-Hulman's landscape expanded more than sixfold this fall when the institute purchased more than 1,100 acres of Hulman land across the highway from the campus.

"This is a game-changer for Rose-Hulman," said President Jim Conwell in announcing the purchase. "It offers the opportunity for us to imagine new possibilities to enhance and support existing educational opportunities for our students and develop new ones that will keep us at the forefront of science, engineering and mathematics education for decades to come."

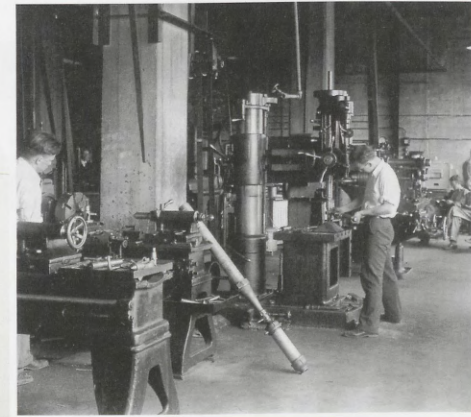






Check out a short flyover video that showcases the current campus landscape and addition after this acquisition. <http://bit.ly/2A2rzzc>

The campus has grown as the institute has increased in stature to become a national leader in science, engineering and math education.



The newly acquired property includes the former residence of Mari Hulman George, an historic family lodge, a number of outbuildings, and acres of farmland and forested terrain.

This land transaction continues the college's long association with the Anton "Tony" and Mary Fendrich Hulman family. It comes on the 100th anniversary of the Hulman family's 1917 donation of a 123-acre farm tract to Rose Polytechnic Institute, and the institute remains on the site today.

Other contributions by the Hulman family included a donation by Terre Haute businessman Herman Hulman Sr. to help the institute lure its first president, Charles Thompson, from his prestigious position at the Worcester Free Institute of Science (now known as Worcester Polytechnic Institute). A subsequent transfer of the assets of the Hulman Foundation to the institute in 1971 resulted in Rose Polytechnic's emergence as Rose-Hulman Institute of Technology.

"I am pleased that this property will remain in good hands," said Anton "Tony" George, Mari's son and a Rose-Hulman trustee. "This expansion of Rose-Hulman's footprint ushers in a new era of possibilities for the institute, building on a tradition of excellence as it focuses on enriching experienced-based, cross-cutting learning to prepare future generations of problem-solvers." ■



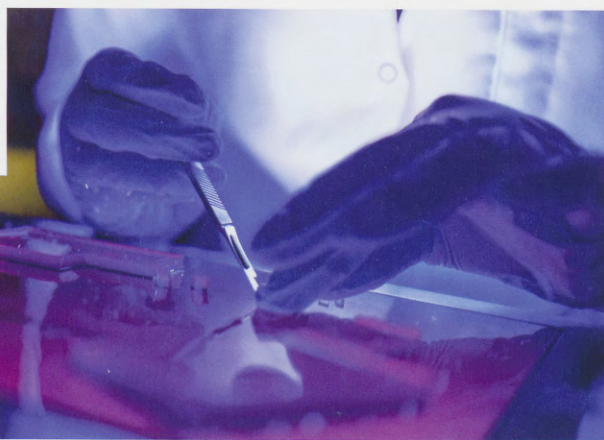


# GEM of an Idea

## IMPROVING PUBLIC HEALTH BY LINKING SCIENCE & ENGINEERING

Most breakfast cereals in the U.S. are packed with vitamins, so it can be easy for those of us stateside to take getting our daily requirements for granted. But in developing countries, getting a healthy diet can be much more difficult. In the case of vitamins B9 and B12, a shortfall in pregnant women can result in serious birth defects, including spina bifida and anencephaly. That's a problem a synthetic biology team of undergraduate students is working on campus to alleviate.

STORY BY  
ARTHUR  
FOULKES  
PHOTOS  
BY BRYAN  
CANTWELL



The multidisciplinary team is engineering the DNA of E.coli bacteria so that it will show when a woman is deficient in B9 or B12. If adopted and commercialized, their method would allow women to check for these deficiencies using a simple urine test, as opposed to much more expensive and infrastructure-intensive blood tests currently used.

"In some parts of the world, women don't even know they are deficient in these vitamins. We're giving them a way to test it out," says Audrey Brand, a junior optical engineering major and member of the team, which is entered in this year's International Genetically Engineered Machine (iGEM) competition (November 9-13 in Boston).

If successful, their work could signal a big advance in global infant and women's health, and allow women to test for vitamin deficiencies in the privacy of their own homes. The research could also pave the way for similar tests for other vitamin deficiencies.

"That's the way with the best research; it can do more than you think it can," says Alli Harpel, a sophomore chemical engineering major on the team.

iGEM, started in 2003 at Massachusetts Institute of Technology, is the world's premier student-centric synthetic biology competition, creating a growing repository of functioning biological parts (currently more than 20,000). Standardization and duplication of such systems is seen as critical for the growth and success of future genetic engineering.



Students Madison Muncie (left) and Julia Walsh are members of a synthetic biology team that's engineering the DNA of E.coli bacteria so that it will show when a woman is deficient in B9 or B12.

"iGEM is very much a research competition designed to advance synthetic biology," remarks Paul Earhart, a senior computer engineering major on the Rose-Hulman team. "Synthetic biology is in a transition phase from science to engineering."

Rose-Hulman's 2017 iGEM team consists of students from a variety of academic majors. The group also includes Madison Muncie, a junior biochemistry major; Julia Walsh, a sophomore biomedical engineering major; and Yifei Yang, a sophomore chemical engineering major.



Students spent this summer and fall working in the institute's synthetic biology laboratory to develop a project for the International Genetically Engineered Machine (iGEM) competition.



## Laxer, Mech Leaving Legacies

Cary Laxer and Andy Mech didn't intend to leave an indelible imprint on Rose-Hulman and its alumni, but that's what they've done through a combined 66 years of teaching, mentorship and friendship to others.

Both Honorary Alumni Award recipients are retiring from full-time faculty roles at the end of the fall academic quarter.

Laxer helped pave the way for enormous change within computer science education—on campus and across the country. Under his leadership as department chair from 2002 to 2015, the area grew in student enrollment and faculty stature, moved into renovated office space within Moench Hall and added an emphasis in software engineering, along with a major in international computer science.

To enhance students' global awareness, Laxer has taught a Computing in a Global Society course for 15 years. Students complete a collaborative project with peers at an international university. He took his final student group to Sweden's Uppsala University this fall to exchange project ideas. Each trip also features activities to help students experience the country's culture and lifestyles.

"Students need to have an understanding and appreciation for other cultures in order to work more effectively with others," he says.

Laxer's own international teaching journeys have taken him to institutions in Germany, Turkey, and Japan, and he has been a member of the institute's Faculty Without Borders group. He has served as an ABET computer science program evaluator and computer science education consultant.

Meanwhile, Mech has also expanded students' global horizons while teaching valuable lessons in renewable energy, utility power generation and turbomachinery. He spent this fall helping a student plan ways to bring water resources to an international orphanage,

and was a leading force in developing a course that has student teams creating appropriate technologies for people living in developing Third World countries.

"Students need to think on a global scale," the mechanical engineering professor says.

"Engineers have an opportunity to leave a legacy. They can provide water and energy resources to remote villages. They are wasting their abilities if they're not improving people's lives," he adds.

Mech's own Rose-Hulman legacy was cemented when he altered and added a second verse to the



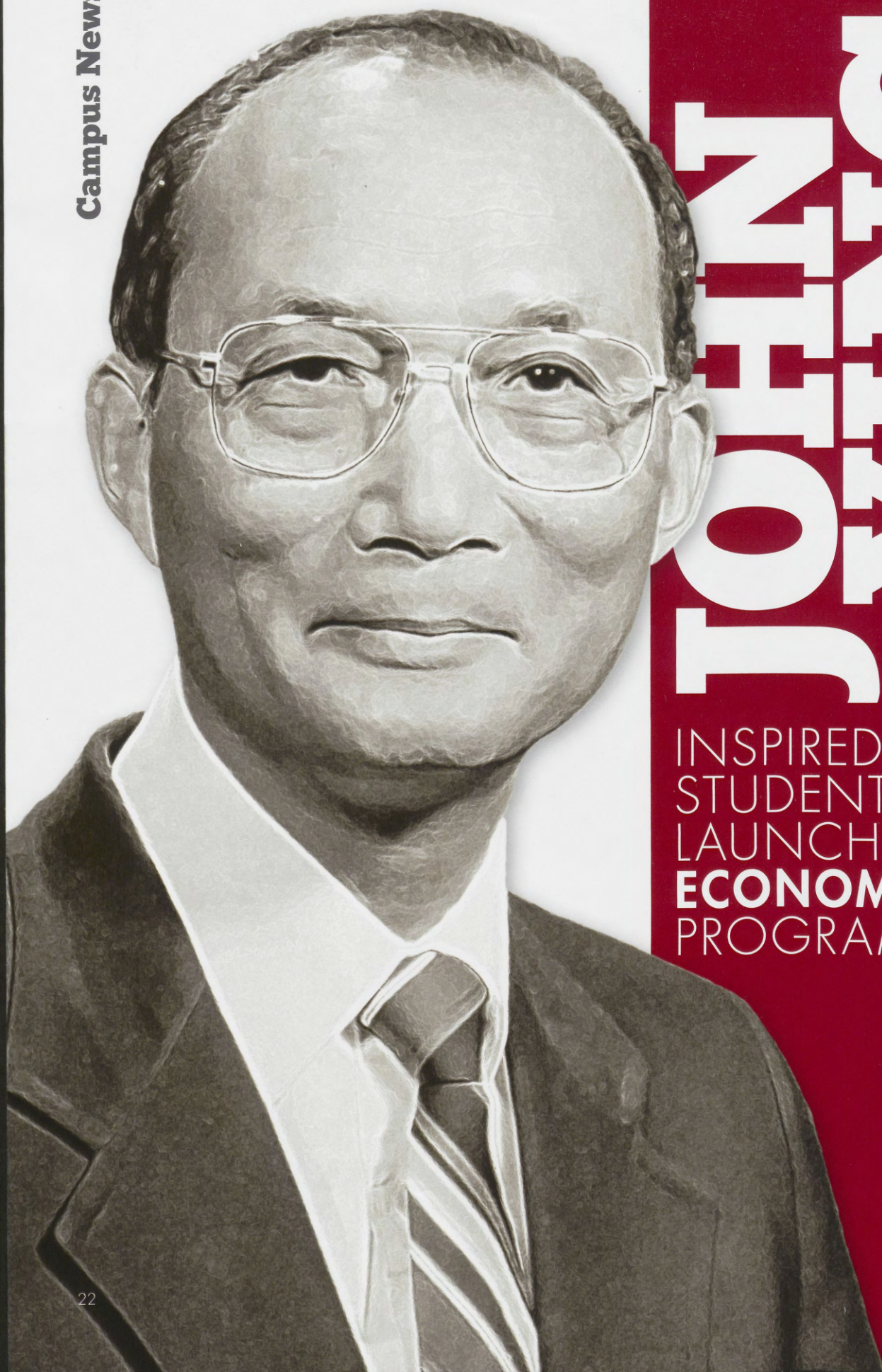
Andy Mech (left) and Cary Laxer are retiring at the end of the fall academic quarter after a combined 66 years of service to the institute and its students as valued educators and mentors.

institute's alma mater, originally written by his father, Raymond Mech. The new "Rose-Hulman, Our Alma Mater," introduced in 1998, replaced the original alma mater, "Sons of Rose," which had become outdated.

"The song is meaningful to me. I get a tear every year I hear it at Commencement or Homecoming," Mech says. "I believed this place was special enough that it needed a special alma mater."

STORY BY  
DALE LONG  
PHOTOS BY  
BRYAN  
CANTWELL





# JOYING

INSPIRED  
STUDENTS &  
LAUNCHED  
**ECONOMICS**  
PROGRAM

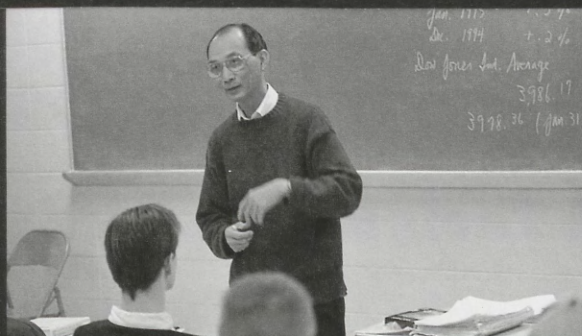
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## IMPACTFUL TEACHER



John Ying received numerous teaching awards during his 32 years on the Rose-Hulman faculty, including the Dean's Outstanding Teacher Award. He also was a guest lecturer at the Chinese Academy of Sciences, led a faculty trip to Japan and authored several scholarly articles.

John and his wife, Margaret, opened their home to host students, colleagues and faculty friends for friendly games of bridge and Ping-Pong. Margaret earned the President's Outstanding Service Award as a campus librarian.

(Photo courtesy Ying family)

**JOHN YING** would be proud of the economics program that he helped formulate 50 years ago, which laid the foundation for the accomplishments of its alumni.

In 1963, Ying arrived at Rose-Hulman to become the institute's first economics professor. During his 32 years with the institute, the native of Taiwan developed the economics degree program and taught hundreds of students the value of economics. His students became leaders in business, engineering, entrepreneurship and science. Several have followed Ying's footsteps as college professors and academic department heads.

Ying died this summer at the age of 84 in Seattle, Wash., where he and his wife, Margaret (a former campus library assistant), had settled in retirement among family and friends.

Rose-Hulman's economics program may be small, producing a handful of graduates each year, but its course offerings—introducing students to microeconomics, macroeconomics, international trade and globalization, and industrial organization—have become the foundation for the college's programs in entrepreneurship, engineering management and global studies. Popular elective economics courses cover such topics as game theory, money and banking, economic growth and development, as well as health, environmental and labor economics.

"The best thing about the way the economics education is structured at Rose-Hulman is that the economics degree is so heavily focused on mathematical modeling of highly complex systems. This is a great education for any future goals—economics, business and even academia," says Kyle Allen (ECON/ME, 2002), associate professor of biomedical engineering at the University of Florida, who routinely uses his economics preparation to manage a campus orthopedic research group.

Jeff Papa (ECON, 1993) says, "I occasionally questioned why the economics major required so many of Rose-Hulman's core courses in math and science, in addition to advanced economics courses. After graduating, it became clear that those courses—

and the institute's academic rigor—were invaluable and provided clear-cut advantages, placing graduates far ahead of our peers with economics degrees from other universities." (Papa went on to earn a doctorate in leadership and a law degree, and works for an Indianapolis law firm.)

Three economics faculty members have received the Dean's Outstanding Teaching Award—Ying (1972), Thomas Mason (1997) and Dale Bremmer (2002).

Bremmer admits that his teaching style and commitment to his students were inspired by Ying, whose classes on the principles of economics were favorite electives for students from multiple academic disciplines for 30 years. An avid fan of the Minnesota Vikings, and later the Seattle Mariners and Seahawks, Ying touched many lives through his generosity and integrity. He and Margaret opened their home to countless students, colleagues and friends to enjoy a delicious meal, a place to stay, a game of bridge and friendship.

"Dr. Ying would go out of his way to spend time talking with me—on any topic. He helped me when I needed help the most," says Marshall Goldsmith (ECON/MA, 1970), a best-selling author of leadership books who has earned distinction as an executive coach. "None of [my career success] would have been possible without Dr. Ying. Without his advice, caring and support, I would never have graduated from Rose-Hulman." ■



Memorial donations for an endowment in John Ying's honor are being accepted at Rose-Hulman through [rosetem.rose-hulman.edu/YingFund](http://rosetem.rose-hulman.edu/YingFund)

Read testimonials from alumni about John Ying at [www.rose-hulman.edu/yingletters](http://www.rose-hulman.edu/yingletters)



## Helping Students Tell Their Stories

### CREDENTIAL PROGRAM IDENTIFYING STUDENTS WITH ENTREPRENEURIAL-MINDED ATTRIBUTES

What are those attributes that give engineers, scientists and mathematicians an entrepreneurial mindset—exercising curiosity, making connections and creating value in their daily lives, workplaces and communities throughout the world?

**IS IT BEING A VISIONARY?**

**IS IT BEING AN OBSERVER?**

**IS IT BEING A NETWORKER?**

The highlighted traits above are among nine behavioral characteristics that students gain in classroom and in extracurricular activities that are being highlighted on campus this school year with credential badges, in a national pilot program through the Kern Entrepreneurial Engineering Network (KEEN). The 31-college organization includes such institutions as Georgia Institute of Technology, Arizona State University, The Ohio State University, Baylor University, Clarkston University, Villanova University and Worcester Polytechnic Institute.

This pilot showcases Rose-Hulman's role as a leader in undergraduate engineering education, says Anne Houtman, the institute's provost and chief academic administrator.

"We're helping students tell and document the story of their undergraduate careers," she says. "Our students, on many occasions, have difficulty putting into words those invaluable skills that are challenging to quantify."



Faculty leading the pilot credentialing program are (from left) David Henthorn, associate professor of chemical engineering; Rebecca DeVasher, associate professor of chemistry and biochemistry; and Ross Weatherman, professor of chemistry and biochemistry.

Yes, there's more to gauging the student experience than a grade-point average, adds Rebecca DeVasher, associate professor of chemistry and biochemistry. She has joined with colleagues David Henthorn, associate professor of chemical engineering, and Ross Weatherman, professor of chemistry and biochemistry, in working with KEEN officials and educators at other KEEN partner institutions over the past two

years to develop the credentialing program, which is seen as a trailblazing initiative in engineering education.

**KEEN**  
KERN ENTREPRENEURIAL  
ENGINEERING NETWORK

The credentials program highlights three key areas for developing an entrepreneurial mindset—creating value, curiosity and connection—endorsed by the Kern Entrepreneurial Engineering Network.



STORY BY  
DALE LONG  
PHOTO BY  
BRYAN  
CANTWELL

Credentials certifying the depth of an individual's qualifications are not new to American higher education, having been used for several years in business schools, and electronic credential programs are growing in popularity across other educational fields. But Rose-Hulman's program will be a first in science, technology, engineering and math (STEM) education.

"This credentials program, as we have helped develop, provides the perfect educational platform to match with Rose-Hulman's mission of providing our students with unique experiences and opportunities. It's a valuable tool that should be the wave of the future in STEM education," DeVasher says.

For instance, Henthorn serves as faculty adviser of the institute's Chem-E-Car student competition team. While developing a vehicle each year, students from a variety of academic majors learn to be a visionary, discoverer, observer, brainstormer, detective, mitigator and networker. Persisting through and learning from failure—The Epic Fail—is a significant learning experience gained in all competition teams, according to Henthorn.

"Whenever any of these skills are gained—in the classroom and laboratory or during the course of a student competition—a faculty member can file a letter of recommendation (with each institution's credentialing team) for a student to earn a credential," says Weatherman. Electronic badges are then awarded by a special credentialing course in the Moodle learning platform, and can be featured in a student's electronic portfolio or LinkedIn profile that can be viewed by prospective employers and graduate school admission offices.

The social media aspects of the program are especially attractive to today's college students, says DeVasher.

"There has been enthusiastic support from other STEM educators, students and employers. Now, we're putting things into practice. If it's going to succeed, it's going to be at Rose-Hulman," she states. ■

## Entrepreneurial Mindset Badges

The following credentials seek to recognize and endorse student achievement in traditional coursework and extracurricular activities. These core attributes have been cited by the Kern Entrepreneurial Engineering Network as important in developing engineers and scientists with an entrepreneurial mindset.

### CREATING VALUE BADGES



**The Visionary:** Recognizes opportunities to create extraordinary value ahead of the crowd.



**The Discoverer:** Finds opportunities to create extraordinary value in unexpected circumstances.



**The Epic Fail:** Persists through and learns from failure to create extraordinary value.

### CURIOSITY BADGES



**The Observer:** Dives deeply into why and how the world is changing, and its impact.



**The Brainstormer:** Asks great questions that reflect a broad curiosity about why and how the world is changing.



**The Disrupter:** Challenges accepted solutions.

### CONNECTION BADGES:



**The Detective:** Integrates information from many courses to gain insight.



**The Mitigator:** Weighs trends to assess and manage risk effectively.



**The Networker:** Talks in substantive ways to a wide range of people as a habit.

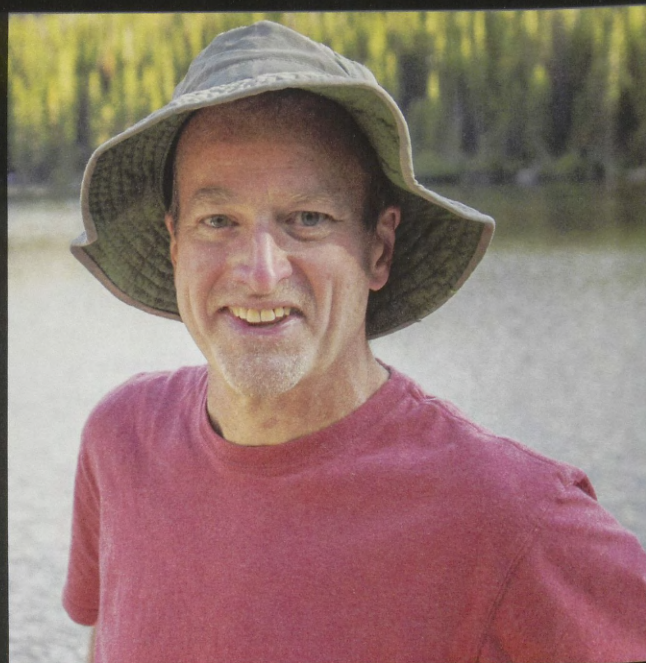


# Operation Perfection

by **Evan Kokoska**  
Chemical Engineering, 1989

By day, Evan Kokoska takes meticulous care as director of pediatric surgery at Indianapolis' Peyton Manning Children's Hospital to keep children healthy and active. On weekends and vacations, he uses a different set of tools—namely, a camera and editing software—to capture picturesque scenes throughout America, such as an eagle soaring above Smoky Mountain National Park, star trails over the Maroon Bells near Aspen, Colo., and a hummingbird fetching nectar from wildflowers on an Indiana farm. “One thing I love about photography is that I am always learning,” says Kokoska, who became an avid amateur photographer 15 years ago. The self-proclaimed perfectionist may take up to 1,000 images from one scene, just to get three or four photos worthy of showing to others. His goal is to produce five to 10 “really solid pictures” annually. “I am always trying to improve and hold myself to higher standards,” Kokoska says. “On the contrary to medicine, photography opens up the artistic side of my brain and, I believe, makes me more complete as a human. It also allows me to more fully understand and appreciate the skills and talents of the true artists.”

View more of Kokoska's work at [evankokoska.com](http://evankokoska.com).









# Bailey

# Challenge

BY PROFESSOR EMERITUS  
HERB BAILEY

You did well on the Spring Challenge, more than 120 solvers. We had correct solutions from alumni representing 50 different classes. The most solvers came from the Class of 1991, with seven (including the editor's featured solver Bob Burger), followed closely by five from the 1961 and 1983 classes.

Many have asked about our adjustment from assisted living to returning to having our own home. The short answer, it has been great. We have a super caregiver living with us and I am very good at warming Marie Callender's entrees and pies. The total cost is less.

## FALL PROBLEM 1

The six circles have equal radii and are tangent to their neighboring circles and to the sides of a rectangle. If the total area of the circles is  $2\pi$ , then find the area of the rectangle.

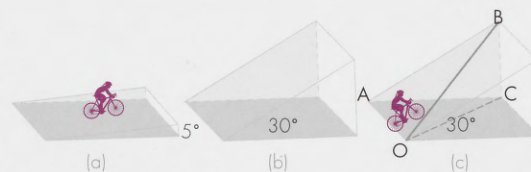


## FALL PROBLEM 2

Some of you have read the delightful book "Holes" about a boy named Stanley who must dig holes. Stanley digs at a constant rate and knows that he can dig to a depth equal to his height in exactly three hours.  $T_2$  hours after starting a new hole, he finds that his head is below ground level a distance that is three times the distance that his head was above ground at  $T_1$  hours after starting. If  $T_1 + T_2 = 7\frac{1}{4}$ , then find  $T_1$  and  $T_2$ .

## FALL BONUS PROBLEM

Suzie the cyclist can climb a five-degree hill but no steeper (fig. a). She needs to go up a 30-degree hill (fig. b). She does this by using a zigzag path with the first zig shown in (fig. c). Let  $\Theta$  be the angle AOC in degrees. If  $\Theta = 0$ , then she does not climb. If  $\Theta = 90$ , she is trying to go straight up the 30-degree hill and fails. Find the largest value of  $\Theta$  that she can maintain..

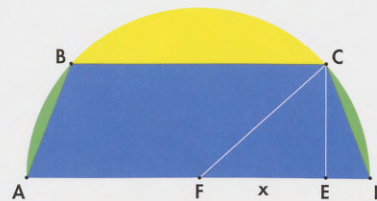


## SOLUTION TO SPRING PROBLEM 2

Let  $F$  be the circle center and  $CE$  be perpendicular to  $AD$ . If  $x$  is the length of segment  $FE$ , then  $2-x$  is the length of segment  $ED$ . Segment  $CE$  is the altitude of two right triangles and thus

$CE^2 = 1^2 - (2-x)^2 = 2^2 - x^2 \rightarrow x = 7/4 \rightarrow CE = \sqrt{15}/4$ . The area of a trapezoid is the average of the two bases multiplied by the height.

Hence the area  $ABCD = \frac{(4+7/2)}{2} \cdot \frac{\sqrt{15}}{4} = \frac{15\sqrt{15}}{16}$



**Send your solutions to [Herb.Bailey@rose-hulman.edu](mailto:Herb.Bailey@rose-hulman.edu) or to:  
Herb Bailey, 8571 Robin Run Way, Avon, IN 46123. Alumni should include their class year.  
Congratulations to the following solvers of the winter problems:**

**ALUMNI:** T. Jones, 1949; C. Hirschfield, 1954; J. Moser, 1956; A. Sutton, 1956; H. Brown, 1957; C. Ambuehl, 1958; D. Bailey, 1959; J. Kirk, 1960; R. Archer, 1961; L. Hartley, 1961; J. Ray, 1961; J. Tindall, 1961; B. Turecky, 1961; N. Hannum, 1962; J. Snyder, 1962; R. Lovell, 1963; S. James, 1965; A. McLaughlin, 1967; T. McLeish, 1968; R. Dutton, 1969; T. Bumgardner, 1970; G. Gladish, 1970; S. Jordan, 1970; E. Arnold, 1971; D. Jordan, 1971; W. Pelz, 1971; S. Sample, 1971; D. Hagar, 1972; G. Houghton, 1972; T. Nelson, 1972; J. Sanders, 1972; R. Collins, 1973; R. Kominarek, 1973; M. Marinko, 1973; J. Zumar, 1973; S. Sims, 1974; E. Boyer, 1975; P. Eck, 1975; J. Turner, 1975; M. Bailey, 1976; B. Hunt, 1976; J. Smith, 1977; P. Van de Motter, 1977; T. Greer, 1978; S. Warner, 1978; P. Hahn, 1979; R. Priem, 1979; J. Slupesky, 1979; K. Barrer, 1980; R. Joyner, 1980; J. Farrell, 1981; P. Gunn, 1981; S. Nolan, 1981; M. Taylor, 1982; J. Willer, 1982; B. Downs, 1983; T. Endress, 1983; M. Green, 1983; J. Marum, 1983; K. Shafer, 1983; D. Burdette, 1984; G. Shafer, 1985; C. Wilcox, 1985; S. Blonigen, 1986; B. Wright, 1986; D. Johnson, 1987; M. Lancaster, 1987; C. Regenauer, 1987; C. Abdnour, 1989; J. Allen, 1990; R. Burger, 1991; R. Hochstetler, 1991; P. Kimmerle, 1991; L. Moon, 1991; C. Schlimm, 1991; R. Wilkinson, 1991; J. Zamora, 1991; K. Koziol, 1992; E. Geib, 1993; J. Markwardt, 1995; M. Pilcher, 1998; C. Mahler, 2000; R. Calvert, 2002; J. Ford, 2005; J. Lange, 2005; B. Barnett, 2006; J. Przybylinski, 2006; V. Roczniak, 2006; T. J. Kennedy, 2008; B. Shover, 2008; M. Trowbridge, 2008; A. Raj, 2009; D. Straub, 2010; P. Klein, 2012; E. Evans, 2013; M. Laritz, 2016; and B. Kulbago, 2017

**FRIENDS:** A. Andrews, S. Bonney, J. Bruner, C. Cook, T. Cutaia, B. Harding, P. Hines, A. Hubbard, A. Karwoski, L. Kulbago, T. Kulbago, J. Ley, J. Marks, J. Martin, L. Metcalfe, P. Nilsen, L. Puetz, T. Robinson, M. Rosene, B. Schacht, B. Schoumacker, D. Tyrrell, D. Voltmer and S. Wong

## READY FOR ANY CHALLENGE

Bob Burger loves to solve complex problems, everything from those technical ones he encounters as a software researcher and developer at Beckman Coulter to the practical ones posed in *Echoes' Bailey Challenge*.

In fact, Burger has been one of the most faithful Challenge solvers, correctly answering 13 past problems, tying fellow alumni Hal Brown (CHE, 1957), Mark Bailey (CHE, 1976) and Rex Joyner (PH, 1980) for the longest track record of problem-solving success (according to our records).

"The Bailey Challenge is the first thing I read after the cover page," admits Burger, a 1991 computer science and mathematics graduate. "I remember starting to solve the Bailey Challenges the fall after I graduated in 1991. I've solved most of the problems ever since."

At Beckman Coulter, Burger specializes in developing robust software that helps simplify things for the customer. One of his programs plans and schedules laboratory automation equipment, and controls an automated liquid handler. Another uses a message-passing concurrency model to control a molecular diagnostic device, which helps prevent mysterious lockups and crashes.

Previously, Burger served as a systems programmer at Bristol-Myers Squibb and a research assistant at Indiana University's Department of Computer Science. During this time, he also earned a doctorate in computer science, completing the task in 1997.

Burger says that he was always encouraged and challenged by Rose-Hulman professors and mentors, including computer science faculty members Claude Anderson, Cary Laxer and Frank Young; mathematics faculty members Roger Lautzenheiser, Elton Graves, Ralph Grimaldi, George Berzsenyi and Al Schmidt; chemistry professor Bruce Allison; and mechanical engineering professor Andy Mech.

In between Bailey Challenges, Burger keeps his math skills sharp by solving a variety of math and logic-based puzzles, helping his eight home-schooled children with their math, and playing quick-thinking card games like euchre.



## Alumni Awards to Sprout in Spring

The Alumni Association will recognize March 24 those people whose success, hard work and service have improved the world, enhanced the institute's stature and made a difference in the quality of education on campus. This replaces the Homecoming Alumni Awards Breakfast event.

"We've moved the event to the spring to ensure our award winners get the recognition they deserve," says Ben Paolillo, executive director for alumni relations. "This is a perfect fit with Rose-Hulman's annual Attitude of Gratitude Week—a time when our students, faculty and staff thank those who have made Rose-Hulman the amazing place it is."

The following recognitions will be made this spring:

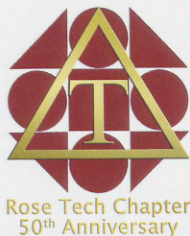
**Career Achievement Awards:** Honoring alumni who graduated more than 20 years ago (Class of 1998 or earlier) whose achievements in their profession have brought distinction to themselves, credit to the institute and benefit to their public or professional communities.

**Distinguished Young Alumni Awards:** Honoring graduates who have achieved significant success within the first 10 years after graduation in the areas of professional achievement, community service and commitment to Rose-Hulman.

**Honor Alumni Awards:** Recognizing alumni who have attained and maintained extremely high status in their chosen fields of endeavor and in their service to society.

**Honorary Alumni Awards:** Honoring one staff and one faculty member annually for their display of prodigious commitment to the institute.

**The Collegian Rose Award:** This new honor recognizes alumni who have returned as faculty and staff members to help elevate the institute's mission.



### Triangle Planning 50th Celebration May 4-6

On May 4, 1968, the Triangle chapter was installed as the fifth fraternity at Rose-Hulman, and the first fraternity chapter chartered on campus in more than 40 years. Now, the chapter has grown to become one of the most successful Greek organizations on campus.

Chapter members are planning a 50-year anniversary celebration May 4-6, 2018. All Rose-Hulman Triangle members, past and present, are invited to join in the festivities, which will include an open house, campus tours, and a special dinner May 5 at the expanded and renovated Hulman Student Union.

Many of the chapter's founding members are planning to participate in this important milestone in Triangle's history on campus, according to Toby Kraft (EE, 1970).

Keep track of updates about the anniversary celebration at [50th.rosetriangle.org](http://50th.rosetriangle.org).

Triangle members are asked to update their current contact information at [triangle.org/alumni/contact/](http://triangle.org/alumni/contact/) and RoseSTEM at <http://bit.ly/2xunF0q>. Members wishing to help plan the event should contact Steve Ahlbrand (EE, 1968) at [steve.ahlbrand@verizon.net](mailto:steve.ahlbrand@verizon.net), or Kraft at [toby@krafte.com](mailto:toby@krafte.com).

## Alumni Representing Class Decades on Advisory Board

Five alumni are now representing their graduation decades on the Alumni Advisory Board, after being elected this summer.

Representing the 1960s is **Nyle Riegle (EE, 1967)**, a retired senior director of business development for Computer Sciences Corporation after working at the Naval Surface Warfare Center at Crane, Ind.

For the 1980s, there's **John McClain (ME, 1981)**, a retiree from Caterpillar Inc., and **Kedar Murthy (CHE, 1984)**, vice president and general manager of Lehigh Technologies in Boston, Mass.

**Jason Karlen (CHE, 1992)** and **Alyssa (Perry) Lobo (ME, 1999)** are representing the 1990s. Karlen is senior resident engineering manager for Ford Motor Co.'s production plant near Louisville, Ky. Lobo is a quality assurance consultant for Eli Lilly and Company.



Riegle



McClain



Murthy



Karlen



Lobo

Representatives from the following decades are still being sought: 1960s, 1970s, 2000s and 2010. The nomination deadline is Dec. 31. If interested, contact Ben Paolillo at [paolillo@rose-hulman.edu](mailto:paolillo@rose-hulman.edu).

## Class of 2007 Trio Joining Jim Shaw in Athletic Hall of Fame

Record-setting student-athletes **Yaw Aning (CE, 2007)**, **Suzy (Carlson) Sundling (BE, 2007)** and **Ryan Schipper (CE, 2007)** will join former basketball coach Jim Shaw in being inducted into the institute's Athletic Hall of Fame in a special ceremony on December 2, starting at 11:30 a.m., in the Sports and Recreation Center. They also will be recognized that afternoon as part of a basketball doubleheader in Hulbert Arena.

Learn more about past Athletic Hall of Fame inductees at <http://bit.ly/2xoNLXd>.

## Price is Right to Lead Alumni Association

**Dan Price's** devotion to his alma mater has led the 1975 civil engineering alumnus to become president of the Alumni Advisory Board for the 2017-18 term, beginning July 1. He succeeds **Dedric Day (CHE, 2003)**.

"Without a doubt, attending Rose-Hulman was one of the best earthly investments I have ever made," he says. "Today, Rose-Hulman has nearly 16,500 alumni. This is a huge resource group to the current students and the institute. My desire is to better connect the alumni with the college by providing more information on how the institution is doing, updates on what's happening on campus and opportunities for alumni to give back."

Price retired after a rewarding career with Procter & Gamble. He now serves as a strategic account advisor for Encore, based in the Cincinnati, Ohio, area.



Price



## 60s

**Richard B. Esker (CHE, 1963)** received National Wildlife Refuge System's 2017 Refuge System Volunteer of the Year Award for his work at the Ohio River Islands National Wildlife Refuge in West Virginia. The retired engineer has used his technical expertise to design and construct kiosks, aquaculture systems, a tree nursery bed, bird and bat boxes, visitor center aquarium, refuge information signs and maps during more than 11,645 volunteer hours.



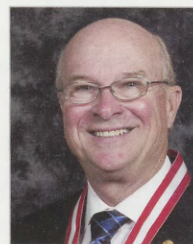
**John H. Ostendorf (PH, 1966)** has retired after 50 years of teaching and leadership in the Department of Physics and Engineering at Indiana's Vincennes University.

**Charles E. Petersen (ME, 1969)** has been appointed as a trustee for Cedarville University. He is the project manager for Petersen Engineering.

## 70s

**Charles M. Boesenberg (ME, 1970)** has retired as lead independent director with Boingo Wireless Inc., based in Los Angeles, Calif.

**Mark D. Rose (CE, 1972)** has been awarded the Boy Scouts of America's Silver Buffalo Award, the organization's highest honor. The Eagle Scout serves as scoutmaster, executive vice president of the Greater Tampa Bay Area BSA Council and chairs three national BSA committees. Rose is vice president of design and engineering at Busch Gardens in Tampa, Fla.



**Gregory C. Smith (ME, 1973)** has been named an independent director of Penske Automotive Group. He is a former vice chairman of Ford Motor Co., where he had a 30-year career. He also serves as a director of Lear Corporation, and formerly served as a director of Penske Corporation and the Federal National Mortgage Association (Fannie Mae).

**Thomas L. Turflinger (BSEE, 1974; MSEE, 1995)** is the author/co-author of over 60 research and special interest engineering papers. He has worked for Aerospace Corporation (Chantilly, Va.) since retiring in 2010 as a civilian employee with the Naval Surface Warfare Center in Crane, Ind.

**Thomas H. Heimburger (MA, 1975)** has retired after a 42-year career that included positions with the State of Oregon, Oracle and GTE.

**James (Jay) M. Schoonover (CHEM, 1978)** retired on July 1, 2017, after 39 years with FM Global.

**William G. Starr (EE, 1979)** retired from Cummins Engine in 2015 and started a second career as a web developer for JDR Web Solutions in Indianapolis, Ind.

## 80s

**E. Scott Cragin (BSME, 1981)** has entered phased retirement at Missouri Southern State University, where he taught marketing and management for the last 28 years. He will continue to help the college implement teaching open-book management techniques.



## Schindel Honored as International Systems Engineering Fellow

Expertise in the art and practice of systems engineering has earned **William (Bill) D. Schindel (MA, 1969)** recognition as an International Council on Systems Engineering (INCOSE) Fellow. This honor came at the organization's international symposium this summer in Australia, where Schindel also received the best paper award in the agile systems engineering category.

INCOSE Fellows are persons from government and industry who are applying knowledge and contributing to the practice of systems engineering in designing and acquiring systems; researchers developing new knowledge, pushing the theory forward; and educators disseminating knowledge and developing the next generation of successful systems engineers.

Schindel is a certified systems engineering professional who has practiced systems engineering for more than 30 years, now as president at ICTT System Sciences in Terre Haute, Ind. He chairs INCOSE's model-based systems engineering patterns working group, is president of INCOSE's Crossroads of America chapter and has assisted faculty in Rose-Hulman's Department of Engineering Management in teaching systems engineering concepts to graduate- and undergraduate-level students.



**Richard R. Roll (CE, 1981)** is now an environmental engineer for GHD Engineering's office in Buffalo, N.Y.

**James W. Ferguson (CS, 1983)** is the first research computing facilitator for the University of Oklahoma's Supercomputing Center for Education & Research. He spent eight years as director of education, outreach and training at University of Tennessee's National Institute for Computational Sciences.

**Stuart H. Guinther (CHE, 1984)** is the new manager at Keystone Cement Company's production facility in Bath, Pa. He has worked for 32 years in the cement industry, most recently being senior vice president of PENTA Engineering Corp. in St. Louis, Mo.



**Jeffrey A. Myers (BSEE, 1987/MSEM, 2003)** is now managing Louisville Gas and Electric and Kentucky Utilities Company's energy efficiency operations. He has worked for the utility company since 2011.

## 90s

**Brett Starr (ME, 1990)** is now a quality engineer with Adecco/Zimmer Biomet, where he has worked since 2016. He spent 18 years as a senior product engineer with Ausco Products.

**Ed Camden (EE, 1991)** has been named chairman of the Mesilla Valley Economic Development Alliance. As president of Southwest Steel Coil, Camden helped the Santa Teresa, N.M., company be selected Small Business Association Region VI Exporter of the Year.



**Brett Fathauer (ME, 1991)** was recently promoted to executive director of research and engineering for Cummins Turbo Technologies, based in Huddersfield, England.

**Kent L. McCorkle (CHEM, 1991)** was named the Honors Faculty Member of the Year as a chemistry professor at MiraCosta College in Oceanside, Calif.



**Robert (Rob) L. Williams (ME, 1991)** has started Sweet Science Ice Cream, a business in Terre Haute, Ind., that combines science and ice cream. He uses liquid nitrogen to flash freeze freshly made ice cream.

**Douglas P. Tougaw (EE, 1991)** has been elected vice president for finance with the American Society of Engineering Education (ASEE). He is chair of Valparaiso University's Department of Electrical and Computer Engineering, and has had several leadership roles in ASEE's Illinois/Indiana section.



**Rodney J. West (ME, 1991)** is a senior staff engineer for Schneider Electric. He has worked in the electrical industry for more than 25 years, and has 11 patents for electrical equipment and components.

**Jeffrey L. Papa (ECON, 1993)** has rejoined Barnes & Thornburg LLP as a partner for the Indianapolis, Ind., law firm. He specializes in immigration legal issues.

**John E. Prior (ME, 1996)** has been named vice president of SMA, leading the firm's management consulting practice. He formerly was a leader with Sonos, Treacy & Company and the Monitor Group, and has more than 20 years of experience with the Army.



## 00s

**Travis F. Hammond (CHE, 2000)** is a plant engineer/network reliability director with Sazerac Company, near Louisville, Ky.

**Dustin K. Sapp (CPE, 2001)** is now the chief operating officer for Formstack, an Indianapolis-based form management software company. He is working from Colorado to be in a healthy living climate conducive to managing the effects of Birt-Hogg-Dubé syndrome, a rare genetic disorder.

**Tracey (Neal) Lockhart (ME, 2002)** is now leading quality functions for Rolls-Royce's defense business operations, remaining at its Indianapolis, Ind., offices. She has worked in a variety of manufacturing positions with the company.



**Christopher P. Nicholson (CHEM, 2002)** has returned to his alma mater as a visiting assistant professor of chemistry. He had been an assistant professor and lecturer at the University of West Florida since earning a doctorate at the University of Notre Dame in 2010.



**Michelle D. Einhorn (CPE, 2003)** is a senior embedded software engineer for Design & Technical Services in Peoria, Ill. She formerly was a design engineer for Caterpillar and Dell Computers.

**Daniel P. Gallagher (ME, 2003)** is now a vendor strategic sourcing manager for Anthem Inc., based in Indianapolis, Ind. He had worked as a project and program manager for Liberty Mutual Insurance and Ascension Health.

**WE WANT YOUR NEWS!**

Send news and photographs to  
[alumniaffairs@rose-hulman.edu](mailto:alumniaffairs@rose-hulman.edu)



# CLASS NOTES

**Alexander J. Lo (CS, 2003)** has become a noogler employee for Google in New York City, after being chief software engineering manager with Flatiron Health and director of engineering for Nomi.

**Eric C. Soller (ME, 2003)** is the vice president of corporate development and strategy for BlueRock Therapeutics, a Cambridge, Mass., company that's working to develop breakthroughs in cell therapies for degenerative diseases such as Parkinson's and heart failure.

**Jonathon C. Fuller (CPE, 2004)** was among TechPoint's Tech 25 Class of 2017. He is the director of software engineering at Software Engineering Professionals in Carmel, Ind.

**Charles Greenlee (OE/EE, 2005)** is hardware engineer in Apple's feature exploration and prototyping division. He is a former technical project manager for Jabil and optical engineer with Lightwave Logic.

**James D. Mendez (PH, 2005)**, a 2017 Fulbright Scholar in Estonia, is spending this fall comparing the effectiveness of physics models for teaching chemistry in college classrooms. He is the chemistry program coordinator and assistant professor of chemistry at Indiana University-Purdue University's campus in Columbus, Ind.



**Rebecca M. (Johnson) Reck (EE, 2005)** received an apprentice faculty grant from the American Society of Engineering Education's educational research and methods division. She is an assistant professor of mechanical engineering at Kettering University (Mich.).

**Matthew D. Lovell (CE, 2006)** was named 2017 Outstanding Teacher of the Year by the Illinois/Indiana section of the American Society of Engineering Education. He is a civil engineering professor at his alma mater, and has added responsibilities as interim senior director for the Office of Institutional Research, Planning and Assessment.



**Derek W. Trobaugh (AB, 2006)** is now assistant professor and vaccine researcher at the University of Pittsburgh's Department of Immunology. He has taught and conducted research at the university since 2012, when he earned a doctorate from Pittsburgh.

**Richard L. Franko (CE, 2007)** is the chief business diplomat for LiveACID Software and an account executive for Venture Technologies West, both based in the Denver, Colo., area.

**Emma C. Hegwood (BE, 2007)** was a member of the inaugural graduating class at Marian University's College of Osteopathic Medicine. She is now a resident physician in the internal medicine department at St. Vincent Health in Indianapolis, Ind.

**Andrew M. Hunt (OE, 2007)** is a senior optical engineer with Ball Aerospace & Technologies, after four years as a project engineer for Research Electro-Optics. Both companies are based in Boulder, Colo.

**Samantha R. (Dick) DeVries (BSBE, 2008/MSME, 2010)** is a certified prosthetist with Prevail Prosthetics & Orthotics in Fort Wayne, Ind. She formerly worked for Prosthetic Solutions of Indiana, Prosolta and Wolf Technical Services.

**Christopher R. Valenta (EE/OE, 2008)** is a senior research engineer for Georgia Institute of Technology's Research Institute.

**Kyle R. Cornelius (BSME, 2009/MSEM, 2011)** has been promoted to senior produce cost manager for General Electric Aviation. He has worked in engineering and produce services for the company since 2011.

**Xander M. Huff (BSCPE, 2009/MSEE/CPE, 2011)** was promoted to software group manager within National Instrument's DAQ & Control SW division, based in Austin, Texas.

## 10s

**Christopher M. Wlezien (ME, 2010)** is the chief judge of the American Society of Mechanical Engineers' global human powered vehicle competitions. He also is senior mechanical engineer for LUNAR in Chicago, Ill.

**Jacob J. Carr (BSBE, 2011/MSME, 2013)** has become a senior development engineer for NICO Corporation, based in Indianapolis, Ind.

**Emily S. Dentler (BE, 2011)** is now a manager of quality systems integration for Johnson & Johnson's Ethicon Division, a segment of the company's medical device business.

**Emily (Emma) F. Dosmar (BE, 2011)**



has returned to campus as an assistant professor of biomedical engineering. She earned a doctorate in biomedical engineering from Illinois Institute of Technology in 2017, while being a visiting professor at her alma mater during the 2016-17 school year.

**Christian E. J. Hidden (CE, 2011)** is leading the estimating unit in the Charlotte, N.C., office for CBRE Group, a global commercial real estate services and investment company.

**Sara N. (Telezyn) Markowitz (BE, 2011)** has started an internship in the commercial leadership program at AbbVie, while studying for a master's of business administration degree at the University of Chicago. She spent nearly two years as a senior engineer for Typenex Medical in Chicago.

**David R. Silwanowicz (EE, 2011)** is an automotive field application engineer with Micron Technology, near Detroit, Mich. He formerly was an engineer with ZF TRW and Texas Instruments.

**Eric D. Schulte (CPE, 2011)** has been promoted to account manager for Texas Instruments' operations in Europe, Middle East and Africa. He has been a TI employee since 2012, and now lives in Stuttgart, Germany.

**Virginie A. Adams (BSCPE/MA, 2012; MSEM, 2013)** was recognized among TechPoint's Tech 25 Class of 2017, which highlights people who are considered critical and exceptional performers in helping the Indiana tech community grow. She is a senior technical program manager with Salesforce and started the Indianapolis chapter of Girl Develop It.

**Adam B. Furore (BE, 2012)** is a senior engineer specializing in hip development with Zimmer Biomet, where he has worked since 2014.

**Michael C. Meyer (BSCPE, 2012/MSEM, 2014)** earned a doctorate in computer science and engineering from Japan's University of Aizu last



## Cross' Industry Relationships are Solid as Steel



**John P. Cross'** expertise and reputation in the structural steel industry has earned him a promotion to vice president of special projects for the American Institute of Steel Construction in Chicago, Ill. He has led AISC's market development for nearly 15 years and its finance department for eight years.

In this new role, Cross will help increase AISC's standing within the industry, including organizing the annual SteelDay each fall, and continue imparting his knowledge of sustainability, market information and economic statistics.

The 1972 civil engineering alumnus has been involved in the engineering community for more than four decades, and has authored more than 50 publications

on various industry topics. Before joining AISC in 2001, Cross served as executive vice president of STS Consultants and regional vice president for Beling Consultants. He is also a director of the nonprofit People International organization.



## In It for the Long Run

Eight alumni met up to celebrate their completion of the 2017 Boston Marathon. The group included (from left)

**Mohith S. Kumar (ME, 2016)**, **Ryan J. Meyer (ME, 2015)**, **Robert B. Mayhew (ME, 2014)**, **Samuel A. Sobczak (ME, 2016)**, **Micah J. Aldrich (ME, 2012)**, **Derek S. Heeger (EE, 2014)**, **Stuart G. West (ME, 2015)** and **Kevin W. Mauser (CE/ME, 2016)**.

spring. He is now a teaching assistant at the university and continues to reside in Fukushima, Japan.

**Andrew J. Milluzzi (CPE/SE, 2012)** is now a systems engineer for Walt Disney Parks and Resorts' simulation and analysis team after earning a doctorate in electrical and computer engineering at the University of Florida.

**Whitney H. (Baenziger) Horsley (BE, 2013)** has started a pediatric residency at University of Wisconsin Hospitals and Clinics. She earned a medical degree last spring from Indiana University School of Medicine.

**Jessica L. N. Reames (CHE, 2013)** is an engineer specializing in mechanical fluids design and pressure vessels/systems with Deck Four Innovation at the Kennedy Space Center.

**Liz A. Evans (BSMA/EE, 2013; MSEM, 2015)** placed seventh after clearing 5'-10 $\frac{3}{4}$ " in the high jump at the 2017 USATF outdoor national championships.

**Noah A. Hamner (CHE, 2014)** was promoted to process engineer with Cook Pharmica in Bloomington, Ind., while his wife, **Vania A. (Seng) Hamner (CHE, 2014)**, is now an engineering consultant with XL Catlin, also in Bloomington.

**Adam J. Janeira (ME, 2014)** is writing, filming and producing commercial and entertainment videos for his independent film company, I'm The Villain Films ([www.itvfilms.com](http://www.itvfilms.com)). He formerly was a multimedia specialist for Bastian Automation Engineering and an executive producer for Hulu's "RocketJump: The Show."

**Cory J. Pardieck (BSBE, 2014/MSEM, 2016)** has returned to campus as assistant director of residence life in the Office of Student Affairs. He spent a year on the residence life staff at Michigan Technological University.



**Kendal J. Rosenbaum (CE, 2015)** is a project manager for CE Solutions in Carmel, Ind. He formerly was an engineer with KJG Architecture and Modjeski and Masters.

**Katelyn H. Stenger (ME, 2015)** has founded PHL Droplet to identify homes in the Philadelphia, Pa., area that are high-risk factors for lead contamination, a public health issue.

**Cassidy D. Cain (ME, 2016)** has become a mechanical designer for Col-Met Engineered Finishing Solutions, based in Rockwall, Texas.

**Dillon K. Reynolds (CE, 2016)** is a civil engineer in the water resource division for RQAW Corp. in Indianapolis. He formerly was a project engineer for The Schneider Corp.

### MAJORS KEY

BE: Biomedical Engineering	BIO: Biology	CE: Civil Engineering	CHE: Chemical Engineering	CHEM: Chemistry	CPE: Computer Engineering	CS: Computer Science	EE — Electrical Engineering
EM: Engineering Management	EN: Environmental Engineering	MATH: Mathematics	ME: Mechanical Engineering	OE: Optical Engineering	PH: Physics	SE: Software Engineering	



## In Memoriam



## Alfred Yee Set Award-Winning Career in Concrete

**Alfred A. Yee (BSCE, 1948; HD, 1976)**, 91, died April 21, 2017, in Hawaii. He was a pioneer in the design of prestressed/precast concrete structures and was a member of the National Academy of Engineering. Notable projects during his 65-year career included the USS Arizona Memorial at Pearl Harbor, the 70-story glass-clad Sail @ Marina Bay residential high-rise structure in Singapore and revitalization of the Waikiki War Memorial Natatorium. Yee had over a dozen patents for construction systems and devices, such as the Concrete Island Drilling System and Concrete Honeycomb Precast Framing System. He was named a Titan of the Precast/Prestressed Concrete Institute and received the Singapore Concrete Institute's Lifetime Achievement Award.

**James S. March (ME, 1943), 96**, died July 28, 2017, in New Smyrna, Fla. He retired after working as an engineer for Dow Chemical Co.

**James I. Moulton (CE, 1952)**, 89, died Aug. 3, 2017 in Penn Valley, Calif. He retired as a design specialist for Apple Inc.

**Thomas P. Reifenberg (ME, 1953)**, 87, died June 10, 2017, in Columbus, Ind. He retired as a plant manager for United Technologies' Amos Plastics division after also working in facilities engineering for General Motors.

**Charles R. Hayward (CHE, 1956)**, 82, died July 3, 2017, in Midlothian, Va. He earned several professional accolades during his career as a chemical engineer.

**John L. Bloxsome (EE, 1957)**, 81, died Aug. 29, 2017, in Lakewood Ranch, Fla. He retired as an engineer for IBM.

**John W. Crisp (EE, 1957)**, 83, died June 3, 2017 in Macungie, Pa. He worked as an engineer for Western Electric/AT&T for 27 years.

**Robert A. Fowler (ME, 1958)**, 86, died Aug. 7, 2017, in Danville, Ind.

**Joseph W. Andel (CE, 1962)**, 77, died July 17, 2017, in Woodridge, Ill. He designed water flow projects in and around DuPage County (Ill.) for highways, commercial properties and residential properties.

**Lawrence B. Hall (EE, 1964)**, 74, died June 8, 2017, in Hendersonville, Tenn. He had a 40-year career in sales for General Electric Co.

**Gus F. Carroll (PH, 1965)**, 73, died Nov. 27, 2016, in Los Gatos, Calif.

**Woodrow (Sandy) A. Sutton (CHEM, 1966)**, 72, died April 30, 2017, near Waterboro, S.C. He had lived in Green Cove Springs, Fla.

**Rudy G. Sanders (CE, 1967)**, 72, died June 14, 2017, in Pittsboro, Ind. He was a self-employed structural engineer at BIM Solutions.

**Gregory J. Dawe (ME, 1971)**, 68, died June 5, 2017, in Clayton, N.C.

**Mark E. David (CS, 1973)**, 65, died June 20, 2017, in Plainfield, Ind. He retired after being a longtime contract engineer for Eli Lilly & Co.

**David E. Stringfield (EE, 1987)**, 51, died July 3, 2017, in St. Louis Park, Minn. He had 33 years of fire protection safety experience, working as senior fire protection engineer for Burns & McDonnell and Summit Fire Protection, and being fire inspector for the University of Minnesota.

**Frederick (Fritz) E. Morgan IV (MA, 1996)**, 50, died July 8, 2017, in Daytona Beach, Fla. He was a manager at Down the Hatch Restaurant in Ponce Inlet, Fla.

**Jacob L. Kelley (CHE, 2014)**, 24, died Aug. 23, 2017, in Los Angeles, where he had been a graduate student at the University of Southern California.

## FACULTY/STAFF

**John T. Ying**, 84, died June 26, 2017, in Seattle. He was Rose-Hulman's first economics professor and developed the institute's economics degree program (see more on page 22-23) during a 32-year career on campus. He earned the Dean's Outstanding Teacher Award in 1972. Survivors include his wife, Margaret, who served as a member of the Rose-Hulman Logan Library staff, and daughters Evelyn, Angela and Helga. The couple opened their home to students, colleagues and friends to enjoy a delicious meal, a place to stay and friendship.

Memorial gifts in John Ying's honor are being accepted at Rose-Hulman through [rosetem.rose-hulman.edu/YingFund](http://rosetem.rose-hulman.edu/YingFund) or call 812-877-8139.

## SPECIAL FRIENDS

**Edward E. David Jr. (HD, 1978)**, 92, died Feb. 13, 2017, in Bedminster, N.J. He was a researcher who sought to make science more relevant and accessible to the public, and was director of the federal Office of Science and Technology under President Richard Nixon.



## Wiest Hoping to Launch Future Space Horizons

Amazon founder Jeff Bezos hopes private space exploration company Blue Origin will develop ways to have people living and working in space. And, **Heather Wiest (ME/ECON, 2011)** is hard at work striving to achieve that goal. The test facilities design engineer is designing fluid systems that will be used to launch the company's orbital rocket, New Glenn, from Cape Canaveral, Fla.

Wiest earned the Zonta International Amelia Earhart Fellowship in 2016 while pursuing a doctoral degree in aerospace engineering from Purdue University (completed in May 2017). The international honor annually recognizes 35 women seeking advanced degrees in aerospace-related sciences or engineering fields.

At Purdue, Wiest was awarded an outstanding service scholarship in 2016 from the College of Engineering for providing "outstanding service to the graduate student community." She plays an active role in the Society of Women Engineers—which she joined as a freshman at Rose-Hulman—and is chairing the organization's leadership coaching committee, which provides professional development and leadership training for SWE sections and their members. She is member of SWE's 2017 governance taskforce.



## Rosebuds

**Andrew Wlazlo (ME, 2000)** and wife, Mary, welcomed their fifth child, Veronica, July 22, 2017. The family lives in Grand Rapids, Mich.



**Christie (Shadrach) Maleski (CHE, 2002)** and husband, Mike, welcomed their second set of twins, Abigail and Brianna, April 26, 2017. Christie is a senior project engineer with Tremco. The family resides in Cleveland, Ohio.

**Kyle D. Allen (ME/ECON, 2002)** and wife, Stephanie, had a son, Ryan, April 4, 2017. Kyle recently was promoted to associate professor of biomedical engineering at the University of Florida, where he also is the associate chair of undergraduate studies.



**Christopher I. Meyer (CHE, 2004)** and wife, Jennie, had a daughter, Eleanor (Ellie), Aug. 2, 2017. She is the granddaughter of **Douglas W. Meyer (EE, 1973)**, and niece of **Jennifer M. (Meyer) Chagnon (CHE, 2002)** and **Jonathan W. Meyer (BSEE, 2007/MSEM, 2008)**.

**Adriana R. Platt (ME, 2005)** and **Morgan W. Reeder (EE, 2005)** adopted a daughter, Margaret (Maggie), who was born March 16, 2017. The couple lives in Hillsboro, Ore. Adriana is a business development manager with Intel and Morgan is a technical writer with PTIGlobal.



**Megan (Whitaker) Fruchte (BE, 2006)** and husband, **Jonathon Fruchte (ME, 2005)**, had their third child, son Benjamin, April 3, 2017. The family resides in Carmel, Ind. Megan is in technical services and sales

with Abbott Medical's cardiac rhythm management and electrophysiology operations, while Jonathon is a partner at Expected Behavior.



**Nicholas Philbrook (SE, 2006)** and wife, Lauren, welcomed a daughter, Delia, March 25, 2017. The family resides in Wakefield, Mass., where Nick is an infrastructure engineer at shoes.com.

**Erin (Craft) DeCola (CE, 2007)** and husband, Rick, had their second son, Vincent, March 5, 2017. The family resides in Holly Springs, NC.



**Brett Bueltel (EE, 2008)** and wife, Abby, welcomed their first child, Ainsley, June 3, 2017. Brett is a senior principal engineer and Midwest regional electrical group leader for Hazen and Sawyer in the Cincinnati, Ohio area.



**Jeremy L. Bultema (ME, 2013)** and wife, Jeannie, welcomed their first child, Deacon, April 28, 2017. The family lives in DeMotte, Ind., and Jeremy is a sales engineer at AIM Machinery.



**Katrina R. (Yoder) McCullough (EE, 2014)** and husband, **Wesley C. McCullough (EE, 2014)** had their second son, Markus, March 1, 2017. The family lives in Cedar Rapids, Iowa, where Wesley is a software engineer at Rockwell Collins. Katrina is a stay-at-home mother.

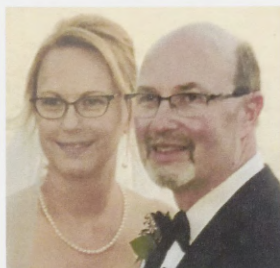
**WE WANT YOUR NEWS!**

Send news and photographs to  
[alumnirelations@rose-hulman.edu](mailto:alumnirelations@rose-hulman.edu)



# CLASS NOTES

## Weddings



**James A. Gryga (ME, 1981)** married Jayne Atkisson Oct. 15, 2016. The couple lives in Indianapolis, Ind. Retiring after 28 years at Rockwell Automation in Mequon, Wis., he soon became an engineering manager for Foresite, Inc. in Kokomo, Ind. He is responsible for new product development and production of existing products.

**Alison M. Bailey (EE, 2003)** married Andrew Medico July 8, 2017, on the schooner Thomas Lannon in Gloucester Harbor, Mass. The couple lives in Hanover, Md. Alison is a program manager with Northrop Grumman.



**L. Hardy Spry (CS, 2004)** married Danielle Ford Nov. 5, 2016, in Plainfield, Ind. The couple resides in Avon, Ind. Hardy is a principal consultant with Revelant Technologies. Alumni participating in the ceremony were Delta Sigma Phi fraternity brothers **Allen Snyder (ME, 2005)** and **Jeremy Sands (EE, 2004)**, along with Danielle's sister, **Jennifer Dillon (CS/MA, 2005)**.

**Abigail S. Richards (CE, 2006)** married **Josh M. Jacobs (CE, 2006)** May 6, 2017.



**Jenn Fischer (CHE, 2010)** married Justin Sparks May 13, 2017. They reside in Cincinnati, Ohio, where Jenn is a lead clinical research associate with Medpace, Inc. Alumnae participating in the ceremony were **Brittany Koob-Basu (CHE, 2010)**, **Pooja (Saxena) Mahlan (ME, 2010)** and **Jessica Zaiss-Bowman (CHE, 2011)**.



**Andrew T. Jordan (ME, 2012)** married Abigail Turner June 10, 2017, in Indianapolis, Ind. The couple resides in Decatur, Ill., where Andrew has a new job as a design engineer for Mueller Water Products.

**Ethan D. Nash (BE, 2012)** and **Leah Pelzel (BE, 2012)** were married Sept. 17, 2016. The wedding was attended by several alumni.



**Matthew J. Iwema (SE, 2013)** married Olivia Gregory Nov. 5, 2016, in Fort Wayne, Ind. They live in Indianapolis, Ind., and are expecting their first child in December. Matt is the operations lead for Eli Lilly & Co.'s Indianapolis-based parenteral manufacturing operations.

**Garrett G. Meyer (ME/MA, 2014)** and **Crystal L. Hurtle (ME, 2015)** were married June 3, 2017, in St. Louis, Mo. The couple resides in Cincinnati, Ohio, where Garrett works in thermal performance for Black & Veatch, and Crystal is a roller coaster engineer at The Gravity Group.



**Patrick R. Atkinson (ME, 2017)** married **Allison A. Phillips (CE/IS, 2017)** May 20, 2017, in Terre Haute, Ind. They now live in La Porte, Ind. Patrick works for ArcelorMittal and Allison is employed by Abonmarche Consultants. Alumni participating in the ceremony were **James Broughton (ME, 2017)**, **Natalie Buckley (CE, 2017)**, **Tom D'Agostino (EE, 2017)**, **Taylor Downs (CHEM, 2017)**, **Clark Harris (ME, 2017)** and **Michael Magill (ME, 2017)**.



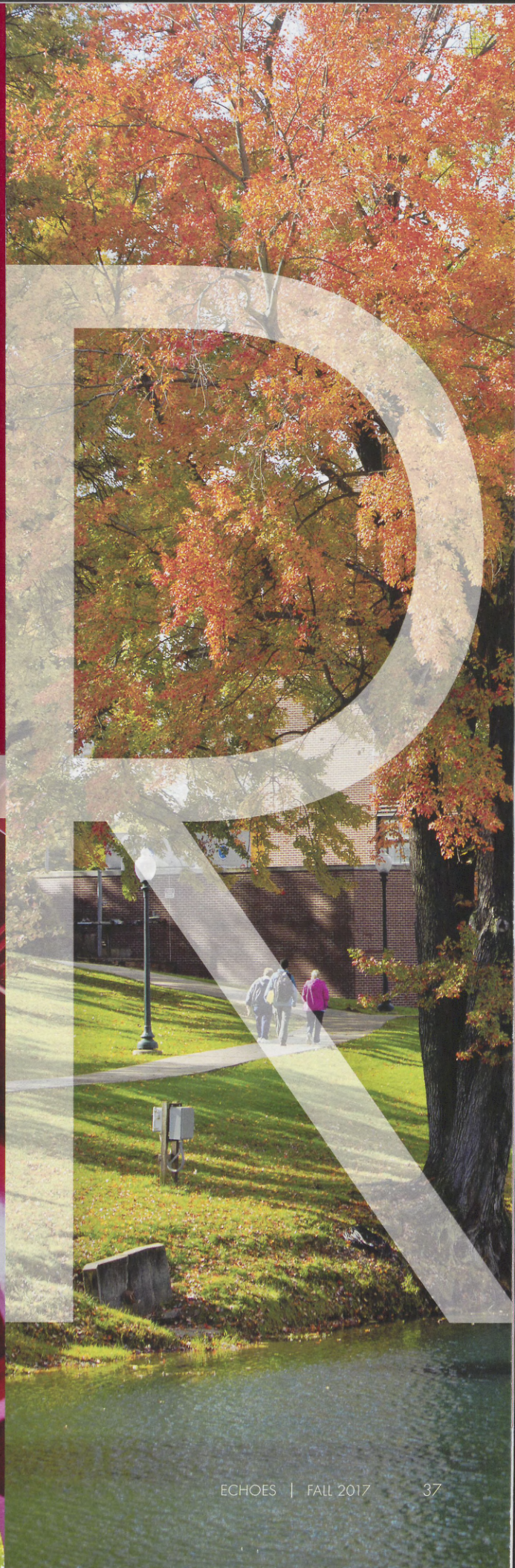
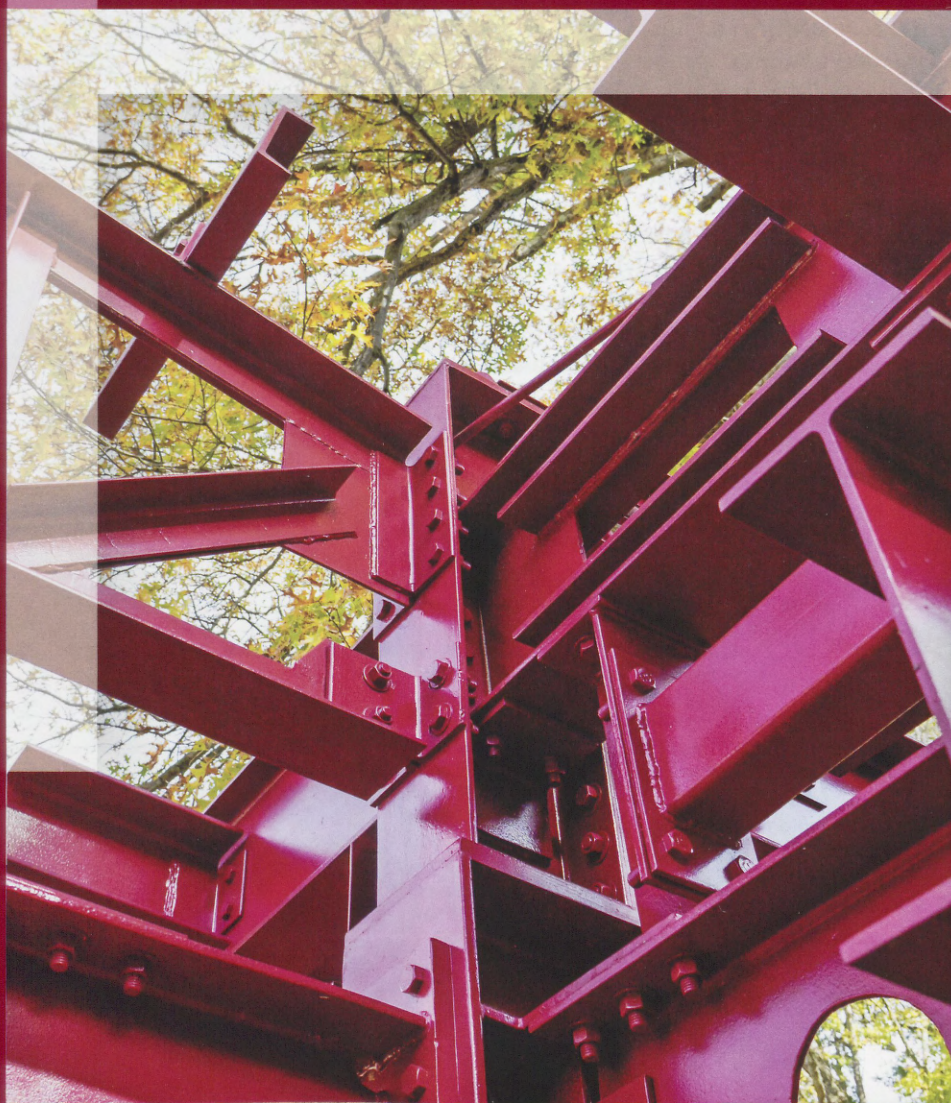
## Raising a Flag at Marathon for Dear Old Rose

Alumni raised a Rose-Hulman flag for one week over Marathon Petroleum's corporate offices in Findlay, Ohio, after raising more than \$1,300 to support the company's United Way campaign, largely through a silent auction. A flag-raising ceremony followed an after-work social event in which alumni gathered to share memories about their time at Dear Old Rose. Alumni participating in the flag raising were (from left) **David J. Anderson (ME, 2007)**, **Robert M. Crismyre (CHE, 2009)**, **Ronald A. Naliborski (ME, 1988)**, **Matthew J. Strabley (EE, 1988)**, **Ryan C. Dick (ME, 2016)**, **Caleb C. Comstock (BSCE, 2015; MSCE, 2016)**, **Taylor D. Lockhart (ME, 2016)**, **Christopher A. Meyer (CHE, 1989)**, **John Swearingen (CHE, 1981)**, **Jeffrey C. Iten (ME, 2002)**, **Ian N. Stallman (ME, 2001)**, **Jeffrey A. Sexton (CHE, 1989)**, **Brent R. Harris (ME, 1981)**, **Thomas O. McCormick (CS, 1991)** and **Matthew R. Baumgart (CHE, 2005)**. Other alumni supporting the campaign were **Michael C. Alles (CHE, 2005)**, **William M. Kepner (CHE, 1979)**, **Michael A. Korkos (EE, 1977)** and **David L. Whikehart (CHE, 1981)**.



**2016-2017**

**HONOR  
ROLL  
OF  
DONORS**





## HONOR ROLL OF DONORS

## Thanks for Helping Rose-Hulman

A pebble, no matter how big or small, has a resounding ripple effect after being tossed into a pool of water. Those ripples continue and, in many cases, their wave size increases throughout the course of their life cycle.

This is the same type of impact each name within this year's Honor Roll of Donors has had on Rose-Hulman's past, present and future—no matter how big or small the contribution.

Forever thankful for the scholarships that he received as a student, 2007 alumnus Nathan Carlson set a goal to give the institute \$50,000 by his 10-year reunion. He took advantage of Microsoft's payroll deduction and matching program to achieve it by this year's Homecoming.

Google employees Mike McDonald (Class of 2014), Alex Memering (Class of 2015) and Tyler Rockwood (Class of 2016) have given nearly \$30,000 cumulatively since graduation.

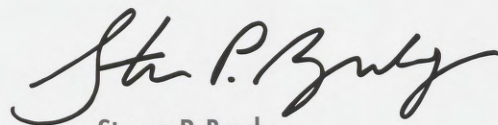
These gifts are providing supplemental learning experiences beyond the classroom in the Department of Computer Science and Software Engineering, through the sponsorship of hackathons and international study opportunities.

Rose-Hulman excels at transforming students into tomorrow's problem solvers as scientists, engineers and mathematicians. Although we earn accolades annually, there are more than 300 colleges and universities with endowments larger than ours. Those include the technological-based institutions with whom we regularly compete for students.

At just over \$200 million, Rose-Hulman's endowment limits our ability to provide competitive scholarships and financial aid. In fact, we take between \$35 million and \$40 million annually from our budget to address this shortfall in assistance to our students. A higher endowment would allow us to ease the pressure on our own operating funds, while doing the same for prospective students and their families with limited budgets.

There can be no more important mission at Rose-Hulman than giving undergraduates the best science, engineering and math education in an environment of individual attention and support. Currently, about 30 percent of our alumni give to the annual fund each year. More pebbles creating ripples in the water, increasing our annual giving rate to 50 percent—achievable in the past—would help advance Rose-Hulman's mission and drive us into the future.

I hope you will join me in making an impact on Rose-Hulman and the lives of our students. Reach out to me at [brady1@rose-hulman.edu](mailto:brady1@rose-hulman.edu) or 812-877-8784. I look forward to working with you to support Rose-Hulman.



Steven P. Brady

Vice President for Institutional Advancement

The following pages recognize gifts from donors of \$250 or more received from July 1, 2016 to June 30, 2017. The Rose-Hulman website [rose-hulman.edu/honorrollofdonors](http://rose-hulman.edu/honorrollofdonors) provides a complete listing of all donors contributing during the 2016-17 fundraising year. Please direct questions or comments to the Office of Institutional Advancement at 812-877-8453 or [DevelopmentOffice@rose-hulman.edu](mailto:DevelopmentOffice@rose-hulman.edu).

## GIFT RECOGNITION

### Chauncey 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**

### Chauncey Rose Society

Recognizing cumulative gifts made from the donor's first gift to Rose-Hulman through June 30, 2017, 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, 2016 to June 30, 2017, 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, 2016 through June 30, 2017.

#### 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 HD'98  
Mr. and Mrs. Michael L. Hatfield '84 HD'04  
Mrs. Theresa Vonderschmitt

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

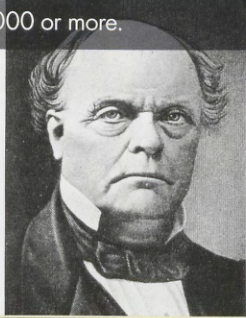
Mr. and Mrs. Carl Cook HD'15  
Mr. and Mrs. Gregg A. Lowe '84 HD'14  
Mr. and Mrs. Michael A. Mussallem '74 HD'99  
Mr. and Mrs. Niles L. Noblitt '73 HD'96  
Mrs. Christa Percopo

### Torchbearer \$1,000,000 to \$4,999,999

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Mrs. Stephanie Salter

Mr. and Mrs. Gregory L. Gibson  
'84 HD '17  
Mr. and Mrs. David L. Hannum '81  
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'69 HD '13  
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Mr. Jack W. Ragle HD '89  
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## Chauncey Rose Society

This Society recognizes alumni and friends whose cumulative gifts total \$50,000 or more.

### Chauncey Rose Chieftains \$500,000 to \$999,999

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Mr. William B. Nicewanger '63  
Dr. and Mrs. John L. Nichols  
Mr. and Mrs. James V. Nordmeyer '78  
Mr. and Mrs. Patrick J. Noyes '76 HD '16  
Mr. and Mrs. Edward A. Oblon '84  
Mr. and Mrs. William M. Olah '74  
Mr. Christopher A. Olinger '15  
Mr. and Mrs. Allen Olinger  
Mr. Stephen J. O'Neill '63  
Mrs. Joanne Pease  
Mr. and Mrs. Robert W. Pease '80  
William C. and Phyllis L. Perkins '60  
Mr. and Mrs. Jeffrey Perry  
Mr. and Mrs. Dan J. Price '75  
Dr. and Mrs. George F. Rapp HD '93  
Mrs. Jean Reifenberg  
Mr. and Mrs. D. Lynn Roberts '63  
Mr. and Mrs. David L. Robinson '73  
Mr. and Mrs. John M. Robson  
Gerald and Margaret Rose '57  
Willis and Nan Rose '47  
Mr. and Mrs. Milton M. Sanders '58  
Mr. and Mrs. Robert J. Schacht '72  
Mike Schipper and Joanna Brell '82  
Mrs. Georgia Schmidt  
Mr. and Mrs. Richard E. Schue '75  
Mr. Norman G. Schuld '65

Mr. and Mrs. E. Mark Schulz '76  
Mr. and Mrs. R. Allen Shipp '78  
Mr. Gregory M. Shutske and  
Mrs. Maria A. Markovich '71  
Mr. and Mrs. William W. Sisson  
Mrs. Mary K. Small  
Brodie Smith '06  
Mr. and Mrs. Dennis A. Smith '71 HD '16  
Mr. Donald E. Smith\*  
Mr. and Mrs. Donald L. Sparks '72  
Mr. John P. Sparks '81  
Mrs. Charlotte Stearley  
Mr. Douglas Stewart  
Mrs. Betty Stiles  
Mrs. Mary Jane Stineman\*  
Mrs. Florence Stoelting\*  
Mr. and Mrs. Robert J. Stone '86  
Mrs. Naomi L. Summerlot  
John and Anne Swearingen '81  
Mr. and Mrs. Charles E. Sweeney '72  
Mrs. Ronni Templeton  
Mr. and Mrs. Thomas E. Templeton  
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 HD '16  
Ms. Patricia A. Valentine  
Mrs. Lillian D. Van Kempema  
Mr. and Mrs. Vic Vickrey  
Mrs. Rosemary Voges\*  
Mr. Alexander J. Vogl\* '49 HD '98 and  
Mrs. Joanne Vogl  
Dr. and Mrs. David R. Voltmer  
Mr. and Mrs. John S. Walden '62  
Mr. and Mrs. Roger C. Ward '71  
Mr. and Mrs. Dennert O. Ware  
Mr. Mark H. Ware '00  
Mr. Scott C. Webb '90  
Mr. J. Prewitt Wehle\* '47 and Mrs. Mary Wehle  
Mrs. Evelyn Weibel  
Mr. and Mrs. William W. Weil '58  
Mr. William M. Welch  
Mr. and Mrs. Joseph A. Wendel '95  
Mr. and Mrs. David L. Whitehart '81  
Ms. Linda E. White  
Mr. and Mrs. David A. Whiteley '78  
Mrs. Bonnie Wilcox  
Mr. M. Andrew Williams '88  
Mr. and Mrs. John S. Willian  
Mr. and Mrs. Douglas S. Winner '74  
Mrs. Marian Woosley  
Mr. and Mrs. Nathan H. Wright '88  
Mr. Alfred A. Yee\* '48 HD '76 and  
Mrs. Elizabeth Yee



1874

## Heritage Society

This society recognizes alumni, parents, and friends who have made a deferred and/or estate gift commitment to Rose-Hulman.

Mr. James S. Abel '65  
 Mr. and Mrs. Donald J. Almquist HD '93  
 Mr. Jerry D. Badger '62  
 Mr. and Mrs. Scott R. Bagwell '80  
 Mrs. Priscilla Baker  
 Mr. and Mrs. Dennis C. Banks '70  
 Mr. David J. Baumann '77  
 Mr. and Mrs. James R. Baumgardt '70  
 Mrs. Mildred L. Benning  
 Mr. and Mrs. Myer Berman '58  
 Mr. Cameron C. Betz '12  
 Mr. and Mrs. Jerry W. Bissey '72  
 Mr. and Mrs. Wesley J. Bolsen '00  
 Mr. and Mrs. John Brabender '81  
 Mr. and Mrs. Bradley E. Braun '01  
 Mr. and Mrs. James A. Brewer '05  
 Mr. and Mrs. Robert E. Bright '57 HD '01  
 Barlow and Ursula Brooks '59  
 Mr. and Mrs. H. D. Brown, Jr. '57 HD '00  
 Mr. and Mrs. Timothy G. Brown '82  
 Mr. and Mrs. Morgan M. Bruck '69  
 Mr. and Mrs. Ronald L. Brunner '52  
 Paul and Jean Buechler '76  
 Mr. and Mrs. Scott N. Carney '77  
 Donald Carrell '57  
 Dr. Mary Ann Carroll  
 Mrs. Jennifer M. Chagnon '02 and  
 Mr. Armands Chagnon  
 Mr. and Mrs. John S. Chinn '56  
 Mr. and Mrs. Richard M. Christman '72  
 Mr. and Mrs. Morris L. Cleverley '62  
 Mr. Denny W. Colvin '74

Mr. Richard L. Conn\* '76  
 Mr. and Mrs. Robert L. Cannon '73  
 Mrs. Ruby Cooney\*  
 Terry P. Corbin '70  
 Mr. and Mrs. Kenneth Cornelison '74  
 Mr. and Mrs. William Correll  
 Mr. and Mrs. B. Guille Cox, Jr. HD '02  
 Mrs. Marilyn S. Cranin  
 Ms. Patricia D. Cunningham '00  
**Mr. William R. Dalter '68**  
 Mr. and Mrs. Eric W. Dany '69  
 Mr. and Mrs. Richard Dougherty '63  
 Mr. and Mrs. Darrin L. Davidson '86  
 Mrs. Margaret M. Davis  
 Mr. and Mrs. Mitchell D. Day '87  
 Ms. Karen A. DeGrange  
 JQ and Ellen Delap '70  
**Mr. and Mrs. Michael B. DeZearn '76**  
 Mr. Martin A. Dixon '75  
 Peter and Vicki Doenges '69  
 Mr. and Mrs. B. William Dudley '65  
**Mr. James D. Dunlop, II\* '52 and**  
**Mrs. Gana Dunlop**  
 Mr. Paul G. Earle '70  
 Mr. and Mrs. Gary A. Eck '78  
 Mr. and Mrs. R. Alan Englehart '69  
**Ms. Ashley M. Erffmeyer '08**  
 Dr. Michael A. Evans HD '11 and  
 Mrs. Andrea Terrell  
 Robert and Jeanne Evans '66  
 Mr. Lon D. Farr '07  
 Mr. and Mrs. Mac Fehsenfeld '52 HD '95

Mr. and Mrs. Terrence L. Fenimore '65  
 John and Margo Fenoglio '59  
 Mr. William R. Fenoglio '61 HD '87 and  
 Mrs. Stephanie Salter  
 Mr. David K. Finrock '76  
 Mr. Raymond L. Fischer '90  
 Mr. and Mrs. William E. Fleenor '70  
 Mr. and Mrs. Jack L. Foltz '57 HD '99  
 Mr. and Mrs. Kevin H. Forbes '85  
 Mr. and Mrs. Michael D. Foster '94  
**Rick and Carol Foster '70**  
 Mrs. Susan Frischkorn  
 Marshall and Ginny Garino '61  
 Mr. and Mrs. Baron G. Gemmer '85  
 Mr. Paul J. and Mrs. Elaine Georgas, Jr. '77  
 Mrs. Marcella Gercken in honor  
 of Rollin M. Schahfer\* '24  
 Mr. John Gersting, Jr.  
 Mr. and Mrs. William L. Gibson '74  
 Mr. and Mrs. James W. Gidcumb '76  
 Mr. Edward Gillum  
 Mr. Steven C. Goble '71  
 Mr. Fred W. Goetsch, Jr. '57  
 Mr. and Mrs. Eduard L. Goheen '60  
 Mr. and Mrs. Charles Good  
 Mr. and Mrs. Paul G. Goss '64  
 Mr. Robert W. Grabbe '74  
 Mr. and Mrs. Fred J. Gradous, Jr. '49  
 Mr. and Mrs. L. Joseph Grafé '69  
 Mr. and Mrs. Charles W. Graham '76  
 Mr. Jarrod K. Gray '02  
 Mr. Michael Griswold

**Damon and Teri Ground '82**  
 Mr. and Mrs. Thomas F. Gruenholz '71  
 Mr. and Mrs. James R. Grundy '67  
 Mr. and Mrs. Elmer A. Guerri '65  
 Mrs. Marcella F. Guthrie  
 Mrs. Carolyn J. Guzik '12  
 Lieutenant Timothy P. Hachfeld '08  
 Mr. and Mrs. Denzil L. Hammond '50  
 Mrs. Muriel K. Hannig\*  
 Dr. and Mrs. G. Felda Hardyman '69 HD '13  
 Mrs. Evelyn A. Haring  
 Mr. and Mrs. W. Kent Harris  
 Mrs. Myma Hart  
 Rex and Marge Hauser '54  
 Mr. and Mrs. Donald J. Heath '52  
 Mr. and Mrs. James R. Hegarty '76  
 Dr. Carl T. Herakovich '59 and  
 Mrs. Marlene Herakovich  
 Mr. and Mrs. James W. Hicks '73  
 Mr. and Mrs. M. Troy Hill, Jr. '61  
 Rob and Linda Hochstetler '91  
 Mr. and Mrs. David D. Hoecker '69  
 Mr. and Mrs. David L. Hohlfeldt '69  
 Mr. and Mrs. William A. Holmes '67  
 Alan and Peg Hoskin '68  
 Mr. and Mrs. Ronald D. Hough '73  
 Frank and Linda Huff '60  
 Mr. and Mrs. Donald M. Ings '70 HD '99  
 Mr. Howard H. Irvin\* '43 HD '87  
 Mr. and Mrs. David M. Jakso '68  
**Mr. Robert H. Jones '68**  
 Dale Jeffers\* '47 and Mrs. JoAnne Jeffers

Dr. and Mrs. Donald Jennermann  
**Mr. and Mrs. Ronald R. Jennings '60**  
 Mr. Wilfred Johnson '55  
**Mr. and Mrs. William B. Johnson '60**  
 Mr. and Mrs. Donald G. Jones '80  
 Mr. Philip S. Jones '56  
 Mr. John W. Katzebeck, Jr. '67  
 Mrs. Frances B. Keating  
 Jeff and Lorna Keeler '66  
 Mr. and Mrs. Edward P. Kelley '64  
 Mr. R. Tim Kelley\* '49 and  
 Mrs. Barbara A. Kelley  
 Mr. and Mrs. David J. Kelton '67  
 Norm and Teri Klein '72  
 Mr. Charles F. Kleptz\* '58 and  
 Mrs. Arlene Kleptz  
 Bruce and Susan Kopf '64  
**Mr. and Mrs. Douglas E. Krause '66**  
 Dr. and Mrs. Lloyd O. Krause '40  
 Mr. and Mrs. George Kyle '48  
 Mr. and Mrs. Roger K. LaCosse '71  
 Mr. Gregory A. LaPrest '13  
 Cary and Norma Laxer  
 John "Pete" Lee '45  
 Mr. and Mrs. David N. Leiendecker '80  
 Mr. and Mrs. Larry F. Leonard '52  
 Mrs. Jo Leshner  
 Dr. and Mrs. Henry S. Lewandowski '82  
 Mr. William A. Lindstaedt '86  
 Mr. William B. Lipp '73 and Dr. Fay Kandarian  
 Ryan '98 and Mandy Loftus '00  
 Mr. Milton J. Lowenstein '48 HD '95



**"Keeping Rose-Hulman No.1 is an ever-increasing challenge – it will require world-class facilities and professors, and a much larger endowment to sustain both. It's gratifying to be able to give back to the institute that provided me with so many great, memorable experiences."**

— **Jim Gidcumb (CHE, 1976)**, who has joined his wife, Cathy, in generously providing annual financial support to the institute and are members of the Chauncey Rose and 1874 Heritage giving societies. Jim, a football and tennis standout for the Engineers (worthy of Athletic Hall of Fame induction), has been president of the Rose-Hulman Alumni Association and coordinator of alumni activities in St. Louis, where the couple lives.



## 1874 Heritage Society continued

Mr. and Mrs. James M. Lowes '70  
 Mr. and Mrs. Ronald L. Loyd '72  
**Mr. Gregory D. Lyons '06 and  
 Mrs. Jessica R. Lyons '07**  
 Mr. and Mrs. Edward T. Mabley '47  
 Mr. and Mrs. Fred Maienschein '45  
 Mr. and Mrs. John K. Malmquist '69  
**Mr. Paul R. Mason '56 and  
 Mrs. Sylvia Jane Mason\***  
 Mr. and Mrs. Jeffery A. McBryer '73  
 Mr. and Mrs. Kenny M. McCleary '83  
 Thomas O. McCormick '91  
 Mr. and Mrs. Jeffrey S. McCreary '79 HD '04  
 Mr. Eddie G. McCullough '84  
 Mr. and Mrs. Lantz McElroy '88  
**Mr. and Mrs. Timothy M. McGrath '80**  
 Mr. and Mrs. Walter R. McIndoo '56  
 Mr. and Mrs. Michael J. McPherron '79  
 Mrs. Alane Meis and Mr. Lucien Meis  
 Mr. and Mrs. Karl C. Menke '81  
 Mr. and Mrs. Bradley A. Miller '94  
 Mr. and Mrs. James R. Milne '86  
 Mr. and Mrs. John C. Minor '91  
 Mr. David Mitchell\* '48 HD '83 and  
 Mrs. Geraldine Mitchell  
 Ralph Mitchell\* '47 HD '94 and  
 Mrs. Sue Mitchell\*  
 Mr. W. Darin Moody '87  
 Dr. and Mrs. Noel E. Moore  
 Mr. and Mrs. Joseph G. Moser '56  
 Mrs. Nena Moss  
 Mr. and Mrs. Robert E. Munyon '75  
**Mr. and Mrs. Robert L. Murray '64**

Mr. and Mrs. Brent H. Mutti '96  
 Arthur and Jo Ann Nelson '75  
 Mr. and Mrs. John R. Nelson '77  
 Mr. William B. Nicewanger '63  
 Mr. and Mrs. Niles L. Noblitt '73 HD '96  
 Dr. and Mrs. C. Mallory North  
**Mr. and Mrs. Patrick J. Noyes '76 HD '16**  
 Mr. Kenneth C. and Mrs. Marjorie Oberst '72  
 Mr. Lawrence L. Ogborn\* '54  
 Mr. and Mrs. William M. Olah '74  
 Mr. and Mrs. Stephen J. O'Neill '63  
**Mr. and Mrs. David E. Orr '96**  
 Dr. and Mrs. William G. Owens  
 Mr. and Mrs. Robert L. Overpeck '57  
 Mr. and Mrs. Mark T. Owens '72  
 Mr. and Mrs. Norman L. Owens '78  
 Mr. and Mrs. Adam M. Parin '02  
**Mr. and Mrs. Jack E. Parks, Jr. '71**  
 Dr. Dennis J. Paustenbach '74 HD '07  
**Mr. and Mrs. Wolfgang Pelz '71**  
 Mrs. Sue E. Penrose  
 Mrs. Christa Percopo  
**William C. and Phyllis L. Perkins '60**  
 Mr. Gary W. Phipps '60  
**Mr. David S. Price '86**  
 Mr. and Mrs. Fredrick L. Queary '90  
 Mrs. Jean E. Raab  
 Mr. Jack W. Ragle HD '89  
 Ms. A. Janet Raines  
 Dr. and Mrs. Arthur L. Rawlings '85  
 Dr. Nina M. Ray

Mr. and Mrs. Ron E. Reehling  
 Mr. Ronald G. Reeves '58 HD '97  
**Mr. and Mrs. Stephen W. Reiss '66**  
 Mark Renholzberger '82  
 Mr. and Mrs. Gary M. Reynolds '63  
 Mr. Daniel J. Rich '92  
 David L. and Linda C. Roberts '63  
 Brent and Diane Robertson '62  
 Mr. and Mrs. David L. Robinson '73  
 Mr. and Mrs. Gilbert L. Robinson '63  
**Dr. and Mrs. Keith Rockey**  
**Mr. and Mrs. Douglas W. Roof '69**  
 Gerald and Margaret Rose '57  
 Mr. and Mrs. Burton E. Rossiter '69  
 Mr. Robert L. Royer '49  
 Mr. and Mrs. John N. Royse HD '00  
 Mr. and Mrs. Paul E. Rupprecht, III '80  
 Mr. Randy G. Russell '79  
 Mr. and Mrs. Milton M. Sanders '58  
 Mr. and Mrs. Paul D. Scheibelhut '71  
 Gary and Judy Schomer  
 Mr. and Mrs. William M. Schott '74  
 Mr. and Mrs. Robert W. Schwier '49  
 Mr. and Mrs. Donald W. Scott  
 Mrs. and Mrs. Joseph D. Sereno '82  
**Mr. and Mrs. Kirk E. Shafer '83**  
 Mrs. Louise Shattuck  
 Mr. and Mrs. Gene Y. Shin '96  
 Mr. and Mrs. L. Donald Simpson '57 HD '94  
 Mrs. Mary K. Small  
 Brodie Smith '06

Mrs. Carol Smith  
 Mrs. Cathy Smith\*  
 Mr. and Mrs. P. Carter Smith '56 HD '92  
 Mr. and Mrs. Robert E. Smith  
 Dr. and Mrs. John T. Snow '68  
 Mr. Allen L. Snyder '05  
**Mr. and Mrs. Allen W. Snyder '87**  
 Mr. and Mrs. Peter J. Soller '83  
 Mr. and Mrs. Donald L. Sparks '72  
 Mr. Delbert C. Staley HD '81  
 Mr. and Mrs. Daniel C. Starr '75  
 Doug and Kris Stearley '79  
 Mr. and Mrs. Robert J. Stearley '57  
 Mr. Jeffrey L. and Mrs. Suzanne Sterrett '83  
 Mr. and Mrs. Richard D. Stiles '76  
 Jim and Cathy Story '73  
 Stephen and Barbara Sucher '76  
 Mrs. Naomi L. Summerlot  
 Mr. and Mrs. Raymond L. Summerlot '74  
 Dr. James and Isabel Summers '62  
 Mrs. June Swango  
**Mr. and Mrs. Charles E. Sweeney '72**  
 Mr. Petras J. Swissler '12  
 Gary and Carolyn Tate '58  
 Mr. and Mrs. James E. Tatooles '55  
**Mr. and Mrs. John F. Teskey '78**  
 Mr. Lawrence D. Thomas '57  
 Mr. and Mrs. Gerald L. Thomas  
 Mr. John V. Tittsworth\* '49 HD '80  
 Mr. Jeffrey Tunis  
 Mr. and Mrs. Gary Tyrrell '90  
 Mr. and Mrs. Erwin A. Ulbrich, Jr. '54

Mr. and Mrs. Ronald W. Vahle '56  
 Mrs. Lillian Van Kempema  
 Mr. and Mrs. John VanEtten  
 Mrs. Theresa Vonderschmitt  
 Mr. and Mrs. Robert F. VonStralendorff '83  
 Mr. and Mrs. Joel R. Waldbieser '60  
 Mr. and Mrs. Kenneth D. Walter '83  
 Mr. Dale L. Wedel '86  
 Mrs. Evelyn Weibel  
 Mrs. Erica M. Weiler '02  
 Mr. William M. Welch  
 Mr. Joseph A. Wellings '68  
 Mrs. Norma R. Welsh  
 Mr. and Mrs. Richard F. Werking '53  
 Mr. and Mrs. George R. West '84  
 Mr. and Mrs. John D. West '79  
**Mr. and Mrs. Douglas M. Wheaton '74**  
 Mr. and Mrs. Charles E. Wickersham '73  
 Mr. and Mrs. Matthew C. Wiesenberg '78  
 Mr. and Mrs. David P. Wildemann '84  
 Mr. Thomas M. Wilhoite '66  
 Mr. M. Andrew Williams '88  
 Mr. Clyde F. William '52 HD '95  
 Mr. and Mrs. Jacque R. Wilson '96  
 Mr. Larry R. Wilson '59  
 Mrs. Marilyn Winters  
 Mr. Robert G. Woolf '90  
 Mr. and Mrs. James L. Worick '49  
 Mr. and Mrs. Xiaofeng Xu '95  
 Mr. and Mrs. David W. Zabel '86  
 Mr. Roger Zygmunt

**"It's a life-long connection. At Rose-Hulman, you got a good education from people who really cared about you. The education I received laid the foundation for a good life for both of us."**

— Art Nelson (ME, 1975), who joined wife, Jo Ann, in establishing the Nelson Memorial Scholarship Fund, named in honor of Art's late parents, Arthur and Grace Nelson. Art and Jo Ann are Chauncey Rose Society members.





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

Recognizing young alumni 10-year cumulative giving through June 30, 2017.

**Gold**  
**\$5,000 and above**

Mr. Kyle M. Beaty '10  
 Ms. Abigail K. Bennett '10  
 Mr. Brian P. Buetow '11  
 Mr. Nathan A. Carlson '07  
 Mr. Andrew T. Compton '07 and  
 Mrs. Melissa A. Grette-Compton '07  
 Mr. Matthew D. DeVries '08 and  
 Mrs. Samantha R. DeVries '08  
 Ms. Ashley M. Erffmeyer '08  
 Mr. Elliot I. Goodman '07  
 Mr. Michael D. Gough '07  
 Mr. Michael R. Haughney '07  
 Mr. Sean B. Jessup '08  
 Mr. Andrew T. Jordan '12  
 Mr. Steven T. Juggle '07  
 Mrs. Elizabeth J. Krasowski '09  
 Mr. Keenan C. Long '10  
 Mrs. Rachael L. Lynch '07  
 Mr. Michael P. McDonald '14  
 Mr. Alexander J. Mullans '13  
 Mr. Kevin P. Newcomer '09  
 Mr. Christopher A. Olinger '15  
 Mr. Kyle D. Overmyer '09 and  
 Mrs. Dianna Artigue Overmyer '04  
 Dave Schluneker '08  
 Mr. Derek J. Stouder '09 and  
 Mrs. Amanda P. Stouder '08  
 Ms. Krista M. Telljohann '12  
 Mr. Matthew A. Trowbridge '08  
 Mr. Eric W. Volz '07  
 Mr. Kevin A. Wells '12

**Silver**  
**\$2,500 to \$4,999**

Mr. Joel M. Anderson '07  
 Mr. Jacob A. Beaty '12  
 Mr. S. Charles Bennett '09  
 Mr. Joshua W. Burbink '09  
 Mr. Riley S. Buttry '07  
 Mr. David J. Cloutier '07  
 Alex Cook '07  
 Nicholas '09 and Amanda Corkill '10  
 Alan Crague '12  
 Mr. Noah L. Desch '07 and  
 Mrs. Rebecca J. Desch '07  
 Ms. Morgan C. Dumm '12  
 Mr. Timothy L. Ekl '11  
 Mr. Thomas W. Eline '08  
 Julie Fisher '12  
 Ms. Lindsey M. Frothingham '07  
 Mr. Jeffery J. Gauthier '08  
 Mr. Matthew J. Iwema '13  
 Mr. Albert C. Johnson '11  
 Alexandra Joyce '08  
 Mr. Christopher J. Kragh-Buetow '10 and  
 Mrs. Katherine C. Kragh-Buetow '09  
 Mr. Gregory J. Laudick '12  
 Mr. Matthew B. Longbrake '07  
 Mr. Peter T. Maginot '10 and  
 Mrs. Megan F. Maginot '10  
 Mr. Matthew A. Mayer '07  
 Mr. Alexander J. Memering '15  
 Mr. Mark A. Memering '08  
 Mr. Jonathan W. Meyer '07  
 Mr. Matthew J. Moravec '13  
 Mr. Kevin T. Nelson '08  
 Mr. Stephen C. Owen '11 and  
 Mrs. Theresa R. Owen '11  
 Mr. Juan L. Paz '07 and  
 Mrs. Jennifer M. Paz '09

Dr. Ross R. Poland '07  
 Mr. Colin S. Shipley '10 and  
 Mrs. Natalie M. Shipley '11  
 Dr. Amanda E. Gehring '08 and  
 Mr. Ryan M. Smeltzer '10  
 Mr. Daniel L. Stanage '10  
 Mr. Daniel R. Wismer '09

**Bronze**  
**\$1,000 to \$2,499**

Mr. Robert J. Adams '11  
 Mr. Micah J. Aldrich '12  
 Mr. David J. Anderson '07  
 Mr. Joseph K. Ausserer '10  
 Mr. David M. Baty '09 and  
 Mrs. Sarah A. Baty '10  
 Mr. David M. Bauman '07  
 Mr. Jerry C. Belton, II '11  
 Mr. Joseph A. Berg '07  
 Mr. Gregory Blachut '11  
 Mr. Bryce Borchers '09  
 Mr. Michael J. Brandell '07  
 Ms. Jasmine M. Browne '11  
 Mr. Glen T. Buckner '09  
 Mr. Thomas M. Buetow '08  
 Mr. Daniel R. Burnos '08  
 Mr. Kevin M. Butler '09 and  
 Mrs. Kathryn E. Butler '10  
 Mr. Landry A. Carbo '10  
 Mr. Pablo C. Corrales '09  
 Mr. Andrew B. Corsten '11  
 Ms. Samantha M. Danesis '10  
 Mr. Benjamin M. Decker '09  
 Mr. Richard A. Dempsey '12  
 Mr. Joel M. Derby '07  
 Mr. James V. DiStefano '07  
 Mr. Richard T. Do '07  
 Mr. Gregory P. Dopka, Jr. '08  
 Mr. Neil R. Dorsey '13 and  
 Mrs. Anna E. Dorsey '13  
 Mr. Kyle M. Douglass '07  
 Ms. Stephanie L. Drenten '11  
 Mr. Justin A. Druba '10 and Mrs.  
 Mychal A. Druba '11  
 Ms. Emily L. Eckstein '13  
 Mr. Jeremiah M. Edwards '13  
 Mr. David E. Ellestad '09  
 Mr. Alexander T. Fine '07 and  
 Mrs. Sarah M. Fine '08  
 Ms. Emma Fitzpatrick '15  
 Mr. Thomas P. Foulkes '15  
 Mr. Kristopher M. France '16  
 Mr. Ted E. Frater '10  
 Mr. Matthew B. Fuson '13  
 Mr. Christopher J. Galler '11  
 Mr. Scott A. Gallmeier, II '12  
 Mr. Paul M. German, III '09  
 Mr. Jonathan C. Gissentanner '13  
 Mr. Aaron M. Golliver '16  
 Mr. Ryan T. Groh '08 and  
 Mrs. Jennifer L. Groh '09  
 Mr. Maxwell A. Grove '12  
 Lieutenant Timothy P. Hachfeld '08  
 Mr. Nicolas S. Hamilton '09  
 Mr. Noah A. Hamner '14 and Mrs.  
 Vania A. Hamner '14  
 Mr. Christopher P. Hansen '08  
 Mr. Adam J. Hirsch '07 and Mrs.  
 Jennifer M. Hirsch '07  
 Mr. Matthew J. Hollander '08  
 Mr. Douglas J. Howell '08  
 Mr. Marshall C. Hudson '09  
 Mr. Mark J. Intihar '09  
 Mr. Mitchell P. Ishmael '11  
 Mr. Benjamin E. Jackson '09  
 Ms. Shannon R. Jaquess '07

Mr. Eric M. Kamer '13  
 Mr. Charles E. Key '07 and  
 Mrs. Caroline E. Key '06  
 Mr. Javid A. Khan '07  
 Mrs. Erin L. Kimble '10  
 Mr. Kenneth A. Kowalik '07  
 Mr. Casey D. Langdale '15  
 Mr. Benjamin T. Lauer '08  
 Kristina Lawyer '08  
 Mr. Christopher M. Leahy '08  
 Mr. Jack G. Lee, IV '11 and  
 Mrs. Amber M. Lee '11  
 Mr. Nicholas R. Lester '08  
 Mr. Christopher K. Lippelt '16  
 Mr. Gregory D. Lyons '06 and  
 Mrs. Jesseca R. Lyons '07  
 Mr. John E. MacAslan '14  
 Mrs. Jessica M. Maslan '11  
 Ms. Kylie M. McCollum '15  
 Mr. John D. McLaughlin '11  
 Mr. Benjamin R. McNeas '13  
 Mr. Luke A. Mehringer '12  
 Mr. Phillip N. Meiser '09  
 Mr. Ryan J. Meyer '15  
 Mr. George A. Mills '07  
 Mr. Calvin S. Mlynarczyk '12  
 Mr. Michael A. Mrozek '09  
 Mr. Eric A. Nees '07  
 Mr. Jordan T. Nielson '12  
 Mr. Elijah T. Parker-Reyes '12  
 Mr. Ryan N. Parnas '10  
 Mr. Cole C. Pearson '11  
 Captain Daniel L. Pechacek '07  
 Mr. Andrew J. Pinkstaff '09 and  
 Mrs. Katrina N. Pinkstaff '09  
 Mr. John S. Pinkus '08  
 Mr. Michael J. Pridal-LoPiccolo '11  
 Mr. Robert H. Purvines '07  
 Mr. Thomas S. Reives '08

Mr. Michael D. Reust '08  
 Mr. Kyle A. Rhodes '10  
 Mrs. Rachel N. Roberts '08  
 Ms. Angelica Rodriguez '15  
 Mr. Guillaume D. Rousson  
 Mr. Philip N. Scherer '12  
 Mr. Nicholas S. Schmidt '07  
 Mr. Eric M. Schue '07  
 Ms. Melissa N. Schwenk '12  
 Mr. James A. Sedoff '09  
 Mr. Martin H. Seese '11  
 Mr. Jonathan P. Seger '10  
 Mr. Brenon T. Smith '09  
 Mrs. Heidi L. Stamets '07  
 Ms. Annmarie D. Stanley '11  
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 Mr. Todd M. Stout '07  
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**"I wouldn't have been able to go to Rose if not for the generosity of others," says Tim Hachfeld (EE, 2008), who attended Rose-Hulman through a scholarship provided by benefactors John and Elizabeth White. Tim applied his technical skills and love of his country in an eight-year stint with the U.S. Navy, serving as an officer (reaching the rank of lieutenant) aboard the U.S.S. Georgia, a nuclear-powered submarine. For years, he has included Rose-Hulman as a beneficiary of his life insurance policies. "Faced with my Navy life insurance policy, I looked back at the people or organizations that had had the biggest impact on my life," he says. Rose-Hulman seemed an obvious choice.**

— Tim Hachfeld (EE, 2008)



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#### Varsity R Club Patrons

This club recognizes alumni, faculty, staff, parents and friends who made gifts totaling \$250 or more to the Varsity R Club from July 1, 2016 through June 30, 2017.

This group gives alumni, alumni athletes, parents, faculty, staff members, and friends of the institute a way to join together to support current and future Rose-Hulman student-athletes.

#### 1888 Circle

1888 is the first year Rose-Hulman participated in intercollegiate athletics.

Hall of Fame: \$5,000 and above  
All-American: \$2,500 to \$4,999  
All-Conference: \$1,000 to \$2,499

#### Rosie Circle

Rosie the Elephant first appeared in 1923 to rally the Fightin' Engineers to a 19-0 victory over Indiana State University in the homecoming football game.

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The Varsity R Club has made improvements to the weight room and Hulbert Arena in the Sports and Recreation Center to support Rose-Hulman students and athletic teams.





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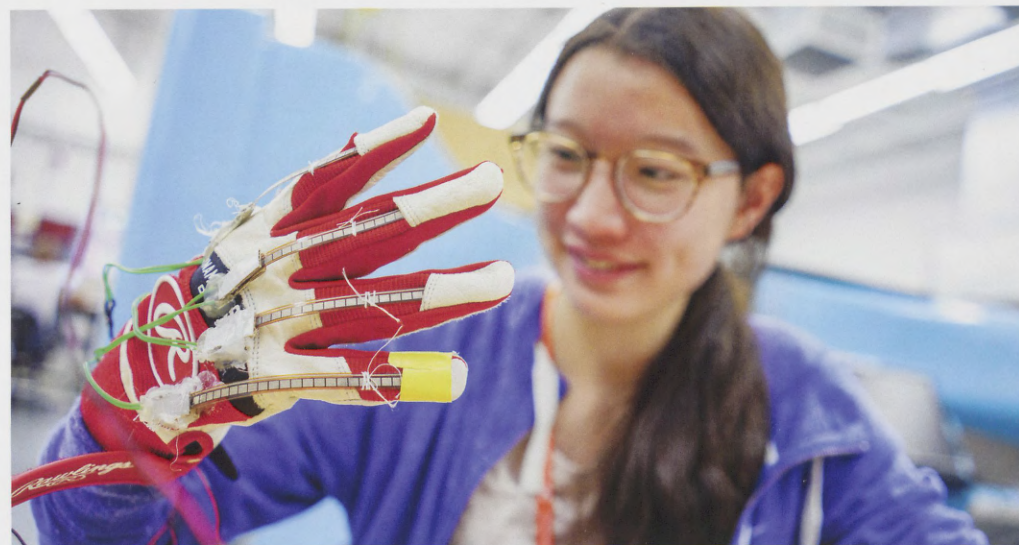
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# MOENCH APPRECIATED

STORY BY  
ARTHUR  
FOULKES  
PHOTOS  
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## HERMAN MOENCH'S WORK MAY HAVE BEEN SERIOUS, BUT HE WASN'T

**T**he Board of Managers paused and asked Herman Moench, then senior vice president of Rose-Hulman Institute of Technology, to excuse himself from their October, 1977 meeting. The long-time professor and administrator felt uneasy as he stepped into the hall, wondering what he might have done to deserve disciplinary action.

When invited back a few minutes later, board members were smiling as they announced they had just voted to rename the institute's primary academic building—known for a half-century as the Main Building—Moench Hall in his honor. He later quipped that it would have been simpler if he just changed his name to “Main.”

Herman Moench wore many hats during his 60 years on campus. In the 1920s, he was an electrical engineering student who alternately hitchhiked or rode on a 1915 Indian motorcycle from his parents' home on South 15th Street. After graduating in 1929, he worked for Bell Telephone Labs in New York City for a year, and then returned to Rose Polytechnic Institute to become a professor of electrical engineering. Over the course of more than five decades he would hold the titles of department head, dean of engineering, dean of faculty, acting president (twice) and finally, senior vice president. Along the way, he pursued his main love—teaching.



Born in 1908 in Terre Haute, Herman A. Moench (EE, 1929) was part of Rose-Hulman as a student, alumnus, professor and administrator until his retirement in 1986. He remained a part of the campus community until his death, at 81 years old, in the spring of 1990.





As a professor, Moench was “tough and demanding,” says former student Ron Reeves (EE, 1958). His finals were hours-long marathons and he scored by subtracting the number of wrong answers from the number correct. On one final, Reeves recalls, a zero earned a ‘B’ grade and the top score was 12. Still, Reeves says, “there was nothing he wouldn’t do for students who needed help. He would be upset if you didn’t ask for help.”

Moench “put students first,” remembers Rick Ditteon (PH, 1974), who now holds the title of Herman A. Moench Distinguished Professor of Physics. He is the last active faculty member to have had Moench as a professor.

“To Herman, teaching was the most important thing,” Ditteon says.

Keith Hoover (EE, 1971), who retired as the Moench Distinguished Professor in 2015, remembers his late professor as “one of the most significant persons in my life.” He fondly recalls Moench hosting cookouts for his students at his home, featuring heavily seasoned “Moench burgers” and, always, a cold keg of beer. As part of the festivities, the professor would hide a radio transmitter powered

by a car battery somewhere in the woods nearby.

Students would use hand-held receivers to locate the electronic device.

“Sometimes we would find it using our home-built [receivers], and other times we would just stumble over the car battery,” Hoover says.

Moench had a lifelong passion for radio and, especially, ham radio. As a student, he broadcast play-by-play of Rose Poly basketball games (despite an almost complete ignorance of the sport) on Terre Haute’s first, primitive radio station, WRPI—an experimental A.M. campus station sanctioned by the U.S. Department of Commerce in the 1920s. He was the faculty mentor of the large and active Rose Tech Radio Club, which remains the college’s oldest student organization. His radio call signal, W9NZH, is etched just below his name on his granite grave marker just a mile from campus in Highland Lawn Cemetery. The initials RHIT are above his name.

A tall man at six-feet-two with a trademark goatee and mischievous smile, Moench was a guiding and inspiring presence on campus for more than five decades. He understood the school from the perspective of a student, an alumnus, a professor, an administrator and an active member of the Terre Haute community. His personal motto, as recorded by campus historian William Pickett, could be the school’s unofficial slogan: “Take your work seriously, but don’t take yourself too seriously.” He added to that his philosophy of teaching: “It’s not important where students start, it’s where they end up that counts.” ■

## CLASS OF 1967 BRINGS MOENCH BACK TO CAMPUS



**Herman A. Moench, PE**  
Dean Moench was a caring educator, adviser and friend to our class and all at Rose-Hulman for more than a half century.  
Dedicated October 7, 2017  
Gift from the Class of 1967  
Sculptor: Bill Holmes (ME, 1967)

When the Class of 1967 arrived at Rose Polytechnic Institute in the fall of 1963, Herman A. Moench greeted each one of the green freshmen with a warm smile and a firm handshake.

From that day on, Moench would be an inspiring, supportive and almost mythical figure that they never forgot. Classmates marked their 50th reunion this year by having a bust of their beloved educator mounted outside a well-used entrance to Moench Hall. It was dedicated during Homecoming earlier this fall.

“This is a gift from our class,” Chuck Webb (EE) says. “Herman meant a lot to us.”

Bill Holmes (ME), who sculpts as a hobby, created the bust, breaking one of the cardinal rules of his artwork: You’re never supposed to show a subject’s teeth in a sculpture. However, Moench’s gap-toothed smile was too much a part of the man to ignore.

“He always had a smile for everyone,” Holmes remarks. “That’s how I depicted him.”

### MOENCH MEMORIES

Pass along your special memories about Herman Moench and the influence he had on you, your days on campus and your career to [dale.long@rose-hulman.edu](mailto:dale.long@rose-hulman.edu). We may share these stories in Elephant Ears items (page 3) in future issues.



The Class of 1980 created special mugs to celebrate Moench’s many contributions to the institute.



# Echoes

## ROSE-HULMAN INSTITUTE OF TECHNOLOGY

5500 WABASH AVENUE  
TERRE HAUTE, IN 47803

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### PARTING SHOT

The renovated Hulman Memorial Student Union has become an attractive beacon on campus, with several new and improved features—including a light tower that embodies the heart of campus life—that welcomed alumni during this year's Homecoming. There's more coming to the building before the project's completion next spring. (Photo by Bryan Cantwell)



**STAY CONNECTED** with Rose-Hulman through our website [www.rose-hulman.edu](http://www.rose-hulman.edu).  
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