



FALL 2026

The Bent

Of Tau Beta Pi

THE ENGINEERING HONOR SOCIETY



**Young Leadership
Profile**

**2026 Awardees
and Scholars**



The Bent

Of

Tau Beta Pi

The Engineering Honor Society

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Affiliate, *American Association for the Advancement of Science (AAAS)*.

On the COVER: Katie Gardner, co-founder and CEO of Terrament.

The background features the Mountain Con Mine headframe in Butte, Montana. This former hard rock mine was established in the late 19th century and was part of Butte's extensive copper and silver mining industry.

Cover artist: Dali Polivka



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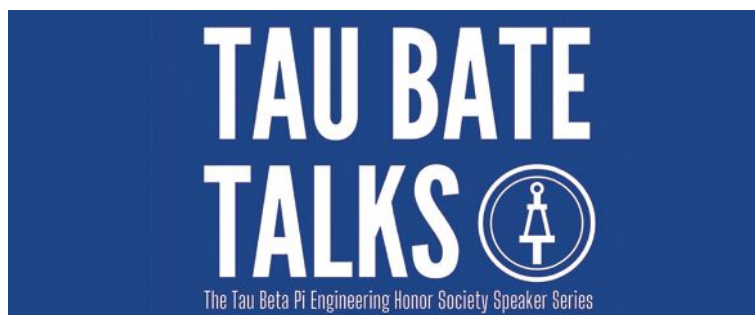
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COUNCIL'S CORNER

Ron M. Hickling, CA E '80, TBPI 2026 Executive Councillor

CONVENTION: A LOOK BACK AND ENVISIONING ITS FUTURE

This October, Tau Beta Pi will hold its 120th Annual Convention. It has been more than 130 years since the first Convention was held in Cleveland, OH. Of course, much has changed since that Convention, but the changes that have had a direct impact have happened in the last six decades:

1. **1969** — Women were given full membership status. Tau Beta Pi has been fortunate in that of the women initiated, a large number become chapter and organizational leaders. This has been reflected in the number of women that serve as Convention delegates.
2. **1974** — The merger of Tau Beta Pi and Sigma Tau resulted in an explosive growth in the number of collegiate chapters, and accordingly the number of delegates to the Convention.
3. **1982** — With the introduction of the Laureate Award, the Association began honoring not just chapters, but also individual members. Subsequently, other individual awards were introduced: Outstanding Advisor Award (1994), Distinguished Alumni Award (1997), and McDonald Mentor Award (2006).
4. **1988** — The Engineering Futures Program* was first introduced and subsequently conducts sessions both at the Convention and on campuses directly for chapters.
5. **Since 1988**, we have introduced other activities at Convention including a Professional Development Program, Recruiting Fair, and NEST Program, all of which exist in a standalone capacity, apart from the “actual” Convention, which according to Article V, Section 4 of TBP’s Constitution is one of the two governing bodies of the Association.

I would propose that the distinction I make between “the Convention” in the vernacular (i.e., the assembly of Tau Bates from around the nation, and now internationally) and

the Convention in its formal definition (the annual legislative meeting of the Association) is not a trivial one. It has been at the center of much of the growing pains, where the challenges in the allocation of both time and money for its conduct have proven daunting. To understand these challenges, a brief history of the Convention since the inception of the District Program might be instructive.

In the early 1980s, student attendees to Convention were designated in one of two ways: “delegate” or “alternate delegate.” Only the delegate was funded by the Association, although many alternates were funded by the chapters themselves or received partial funding by a local alumni chapter. Some chapters brought multiple alternates using the automobile reimbursement policy as a funding source for the travel. These alternates often attended different meetings than the delegate in an effort to better understand the issues being considered at a particular Convention. With the introduction of Engineering Futures*, the Association began to envision a future where students would attend a Convention for some purpose other than participating in governance — picturing the modern “non-voting delegate,” an attendee with interest in the direction of the Association, but not in the exercise of governing it.

None of this is necessarily a bad thing as Convention provides all Tau Bates the opportunity to work on leadership skills, interact with their peers, and get a true sense of the size and diversity of the Association’s membership. However, it does create different constituencies with different expectations from their attendance.

Council’s Corner continues
on page 3.

Let’s take a look at the governance piece. Over the last few decades, a number of changes in the Convention have taken place, including:

- A complete rewrite of the Constitution & Bylaws that resulted in a number of items that previously required amendments being moved to policies, which require a simple majority to approve. While good, it has increased the workload for committees as more policies are referred to the Convention for review.
- Additionally, a case can be made that the amount of business moving through the Convention and the details being reviewed by committees to prepare their reports has increased over time in volume and complexity.

In the face of these challenges, it would be prudent to take a step back and consider the following:

- What environment would produce the best-informed Convention delegation offering the optimal direction to the Executive Council?
- What would comprise the most effective way for the Engineering Futures Program* to be delivered?
- What does a successful Recruiting Fair look like?
- Are there synergies between these objectives? To what extent are these multiple objectives in tension?

Activities held at Convention (such as Professional Development & Recruiting Fairs) have been constrained by necessity to competing for attention (and time) with the Business Agenda. One way to ameliorate this competition would be to reimagine an extended week where a dedicated leadership and career development conference follows the Convention instead of being held concurrently. But that would require designing a new “business model” to “Convention Week.”

*See page 45 for Program Renaming.

YOUR LETTERS

Send letters to d.lane@tbp.org. Text may be edited for length and clarity; not all letters can be published.

Initiation Language

While reading Sue Holl's description of her 1976 initiation ceremony, I could not help but recall my initiation, 50 years ago, at the TN Alpha Chapter and how my experience was so different. I remember the language was exclusively about and for males, which made it feel unwelcoming to me. At the time, there were very few women in engineering, and I was the first ever accepted to graduate school in my department.

So, I went back and complained to my department chair, William T. Snyder, Ph.D., *TNA '54*, (you might know him because he became UTK Chancellor in 1992). Since the Association's headquarters is in Knoxville, Dr. Snyder told me to go over to the Tau Beta Pi office, which was one building away, and tell them what I thought. So I did walk over, **and they were wonderful**. They said essentially, you're right, so we'll give you a copy of the initiation and let you rewrite it. And I did, with as few changes as possible and as subtle as I could, but still I rewrote the ceremony so that women after me would feel like they belonged.

Charlotte E. Behm, TN A '76

Giant Telescopes

I wanted to tell you that I immensely enjoyed Trudy's article in the Summer issue on telescope development in the 1800s. But more than that, I'm also reporting that I have enjoyed every one of her dozens of articles over the years.

Always well-researched and with plenty of technical detail for engineers (but still accessible for non-engineers!). Her articles are hard to put down and genuinely fun to read! I'm so glad and grateful for her skills in blending knowledge, creative writing, human interest, and technology! Keep it up.

John E. Schechter, OH B '80

I appreciated Trudy Bell's excellent cover article about the giant telescopes of the 1800s. As a member of the Delaware Astronomical Society, I knew that organization would also find it interesting, and was pleased to share the article with a wider audience.

Thomas L. Lapp, WV A '85

In Memory Of

My husband, **Kenneth E. Olson, IL G '57**, was a lifetime subscriber to the magazine. He passed away last year and I'm writing to inform you that his name should be removed from your mailing list.

Through these many years, which involved several changes of address, he steadfastly read your quarterly publications. Even though he was 89 years old, he still showed interest in the articles you published.

I apologize for not notifying you sooner, but I have been overwhelmed by various obligations. Keep up the good work in creating such a worthwhile publication.

Erna R. Olson (member's wife)

Council's Corner from page 2.

The possibility of such a reimagining could have benefits to the attendance and financial impact on the Association. It should come as no surprise that next to Fellowships & Scholarships, Convention is usually the largest single expenditure for the Association. Holding a Convention has required cash flow outlays as high as \$666,000 and resulted in net costs as high as \$352,000, in 2022 inflation adjusted dollars.

The reality is that the cost of the Convention per initiated member has risen steadily to above \$40 while the assessment per initiate (Convention component of the Association's portion of the initiation fee) has remained \$10 since 2015.

The Executive Council and the Convention established a Convention Fund decades ago to help cover some of the associated costs, but the value of the fund falls short of the desired level to meet its goal of covering 75% of the costs of the voting delegate expenses. And although programs such as the Chapter Endowment Initiative are attempting to address this challenge, reducing the

current pressure the Convention places on the Association's budget would not only avoid the need to raise the Convention assessment but also continue to deliver career programs that are more effective for both students and alumni alike.

Naturally, redesigning the Convention (the largest annual gathering of the Association) is akin to trying to steer a large aircraft carrier and one should not be so naïve as to think changes could be made quickly. However, success in doing so has benefits that go beyond the obvious financial ones by improving the image and "branding" of the Association and creating new opportunities for its members.

.....
RON HICKLING, a senior systems engineer for Creative Digital Systems Integration, developing digital beam forming antennas, has a B.S. in electrical engineering from the University of California, Los Angeles. He began his career at Hughes Aircraft Co. as a Hughes Masters Fellow, co-founded startup TechnoConcepts, Inc., and is a senior member of IEEE. He joined the TBII Executive Council in 2021.

WHO'S WHO IN TAU BETA PI

Recognizing Tau Bate accomplishments.

Samuel Graham Jr. Ph.D.

Florida Eta '93

was named the 2026 Richard Chu Award recipient for Excellence in Thermal and Thermo-Mechanical Management of Electronics, a prestigious recognition given by IEEE. A pioneer in advanced thermal metrology techniques & the electro-thermal design of WBG electronic devices for RF power and optoelectronic applications, he is dean of the School of Engineering and a professor at the University of Maryland.



Arvind Raman Ph.D.

Indiana Alpha '93

was confirmed, in May, by the U.S. Senate as the fifth undersecretary of commerce for standards and technology and will also serve as director of the National Institute of Standards and Technology (NIST). He previously served, since 2023, as dean, College of Engineering at Purdue University, and his research has focused on atomic force microscopy, human biomechanics, and electronics manufacturing.



Zachary S. Siegel

New Jersey Delta '25

was selected as a 2026 Hertz Foundation Fellow. The nation's most competitive doctoral fellowship in science & technology, Hertz Fellows receive up to five years of financial support. Zachary is a Ph.D. student in the Computer Science and Artificial Intelligence Lab at MIT, where he works at the intersection of robotics, cognitive science, and artificial intelligence. He also founded the Youth Passion Project 501(c)(3).



John L. Hennessy Ph.D.

Pennsylvania Theta '73

was selected as the 2026 recipient of the Marconi Society Lifetime Achievement Award in honor of a distinguished career and his work on Reduced Instruction Set Computer (RISC) architecture. Developed in the 1980s, RISC changed how processors are designed and underlies much of modern computing. He's the Knight-Hennessy Scholars director at Stanford University and served as the school's 10th president.



Ron R. Repsher P.E.

Mississippi Alpha '10

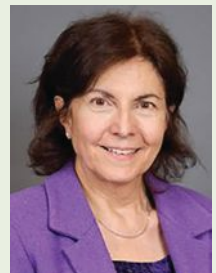
was chosen as the next Chief Executive Officer of the 1803 Electric Cooperative, Inc. (providing wholesale power and delivery service in Louisiana) by its board of directors, beginning May 30. Ron has a B.S. in electrical eng'g and an MBA from Mississippi State Univ. with 20+ years of experience in the generation & transmission cooperative system — from technical matters to senior strategic leadership.



Janis P. Terpenney Ph.D.

Iowa Alpha '81

has begun her term as the 145th president of the American Society of Mechanical Engineers, the Society announced during its annual meeting. An ASME Fellow, she currently serves as program director at the National Science Foundation, primarily focused on smart/intelligent manufacturing and systems. Janis is a rotator on loan from George Mason Univ., as a professor of systems eng'g & operations research.



In March, The Minerals, Metals & Materials Society (TMS) announced their 2026 class of Fellows, four of whom are Tau Bates. They are:

Glenn S. Daehn Ph.D., *IL G '83*
The Ohio State University

Uday B. Pal Ph.D., *PA B '84*
Boston University

John R. Scully Ph.D., *MD A '80*
University of Virginia

James A. Yurko Ph.D., *MI G '97*
Apple



The American Society of Mechanical Engineers (ASME)

recently announced the election of its new members to serve on the Board of Governors (2027-29) and the nominees for 2028-30 during its annual meeting on June 7.

- **Alisa Morss Clyne** Ph.D., *CA G '96*, has been elected to serve.
- **Oscar Barton Jr.** Ph.D., P.E., *DC A '84*, has been selected as a nominee.

GAME CHANGER EXHIBIT AT THE 2026 FIFA WORLD CUP

For more information about the exhibit, visit: www.DallasFWC26.com/

Learn more about Dr. Isaacs, on her feature page at www.ifthenshecan.org/game-changers/jessica-isaacs/

This summer, as Dallas welcomes a global audience for the 2026 FIFA World Cup, thousands of fans streaming into the FIFA Fan Festival™ at Fair Park will be greeted by something unexpected: 26 lime green, life-sized 3D-printed statues of women — not athletes, but scientists, engineers, technologists, and mathematicians whose work powers the sports world from behind the scenes. Among them is Jessica L. Isaacs, Ph.D., P.E., (**image right**), a biomechanical engineer, Fulbright Fellow, and proud Pennsylvania Iota Chapter ('06) member. For the Tau Beta Pi (TBP) community, her story is one worth celebrating — not only for the remarkable career she's built at the intersection of engineering and sports safety, but for what she represents: a living example of what it means to pursue engineering with integrity, ingenuity, and a commitment to making the world safer and more equitable.

A LEGACY OF ENGINEERING EXCELLENCE

Dr. Isaacs comes from a family for whom engineering is more than a profession — it is a shared passion and a way of thinking about the world. She is also a second-generation Tau Bate — her father is Richard Isaacs, *MA Delta '80*.

At Widener University, Dr. Isaacs was inducted into TBP in 2006 while completing her B.S. in mechanical engineering. She not only excelled academically, but demonstrated a broad engagement with the engineering community. Later, Dr. Isaacs returned to her alma mater as a visiting mechanical eng'g assistant professor, where she taught undergrad courses and advised student chapters of the Society of Automotive Engineers and Engineers Without Borders.

"Engineering is about solving problems that matter," Dr. Isaacs has said of her work. Her career has been defined by exactly that principle — from the laboratory to the courtroom, crash test facilities to the CBS television studio, she has consistently applied rigorous engineering science to questions with real-world consequences for human safety.

Article and above image with statue courtesy of Jessica Isaacs.



BUILDING A CAREER AT THE INTERSECTION OF MECHANICS AND INJURY

Dr. Isaacs went on to earn M.S. and Ph.D. degrees in mechanical eng'g and mechanics from Drexel University, where her doctoral research brought her to the frontier of spine biomechanics. Her work focused on the effects of degeneration and aging on the intervertebral disc, as well as the development of injectable hydrogels. Her academic journey took an international turn when she was awarded a Fulbright Fellowship at Tel Aviv University, to investigate computational biomechanical models for the diagnosis and management of lumbar spine pathologies and studied fiber-reinforced bio-composite materials. The Fulbright experience deepened her appreciation for the global nature of engineering challenges and reinforced her commitment to bringing rigorous scientific methodology to complex problems. Today, Dr. Isaacs works for a scientific consulting firm, where she applies a multidisciplinary background to evaluate injury mechanisms and risk across a wide range of scenarios. Her work is technically demanding and wide-ranging with expertise spanning motor vehicle/bus collisions, occupational incidents, and recreational activities.

BRINGING ENGINEERING TO LIFE ON THE NATIONAL STAGE

In addition, Dr. Isaacs has become a visible advocate for STEM education and for the role of women in engineering. She was recently featured on CBS's *Mission Unstoppable* (Season 7, Episode 14), the Emmy-nominated television series produced in partnership with the IF/THEN® Initiative. In her appearance, Dr. Isaacs demonstrated the biomechanical principles underlying helmet design and injury mitigation using ATDs — translating complex engineering concepts for a broad public audience and showing viewers, especially young girls, that engineers are the people who keep athletes safe. Her ability to communicate the relevance of engineering to everyday life, and particularly to the sports that captivate so many young people, is precisely what brought her to the attention of the IF/THEN® Initiative and earned her a place among those selected.

#IFTHENSHECAN

Launched in 2019 by Lydia Hill Philanthropies, the initiative was created to empower current STEM innovators and inspire the next generation of pioneers by elevating women in STEM as role models. The initiative's flagship public exhibit made history as the largest assembly of statues of real women ever displayed at one time, featuring 120 statues of contemporary women in STEM. Since its debut, the exhibit has traveled to ten locations nationwide — including the Smithsonian Institution (D.C.) — reaching more than five million visitors.

This summer, the initiative launches its second chapter — Game Changers, which expands the initiative's reach into the world of sports during the biggest sporting event on the planet. The exhibit features 26 statues of women from 11 U.S. states whose STEM careers are directly fueling the global sports industry. Each statue is paired with a digital story — accessible via QR code — featuring photos and videos that bring each woman's journey and career to life.

"WE HOPE EVERY YOUNG PERSON WHO EXPERIENCES THIS EXHIBIT LEAVES BELIEVING THERE IS A PLACE FOR THEM IN STEM. IF THEY CAN SEE IT, THEN THEY CAN BE IT." — LYDIA HILL

YOUNG LEADERSHIP PROFILE #3

This series explores what it means to be a leader through the lives of member engineers who attained leadership positions in their fields.

KATIE GARDNER

MID-CAREER REFLECTION FROM A SERIAL CHANGER

WHEN I EXPLAIN MY CAREER PATH AND CREDENTIALS TO THOSE WHO HAVE JUST MET ME, I OFTEN GET THE REACTION THAT MY CURRENT JOB SEEMS TO BE PERFECTLY TAILORED FOR MY BACKGROUND — A TRUE CULMINATION OF THE WORK I'VE DONE, WITH SOME WONDERING IF I DESIGNED IT ALL THAT WAY. ANYONE MORE THAN A DECADE INTO THEIR WORKING LIFE KNOWS HOW RARE THAT WOULD BE! CAREER PATHS ARE ALMOST NEVER LOGICAL, AND MINE IS NO EXCEPTION TO THAT RULE.

My name is Katie Gardner, and I am the co-founder and CEO of Terrament. We build patented underground gravity storage in existing mines to tackle the growing energy crisis driven by data centers and aging infrastructure. We do this by providing inexpensive, utility-scale, long-duration storage to pair with renewables for remote critical mineral mines and data centers needing quick energy.

I'm a licensed professional mine engineer (Ina., NV) and bar certified lawyer in California, and hold a J.D. from Penn Law and an MBA from the Wharton School. I attended the University of Kentucky for my B.S. degree in mining engineering and was a proud member of the KY Alpha Chapter, where I served as secretary.



Wharton Energy Conference co-chairs: (left to right) Katie, Hilary Cody, and Hayley Nystrom.



FRAMEWORK

I will be the first to attest that this current role, however, was not part of a grand plan to revolutionize the world of electrifying mines or to bring new life to brownfield sites. My life plan revolved around a vague idea that I would work in “business” and make some sort of difference in the world, whatever that meant. I have changed my mind so many times in my career about what I planned to do “when I grew up.” In retrospect, the throughline of my career now seems obvious — I’ve continued to focus on infrastructure and natural resources, especially on innovations that help modernize traditional industries — but this was not what was going through my head in moments of decision.

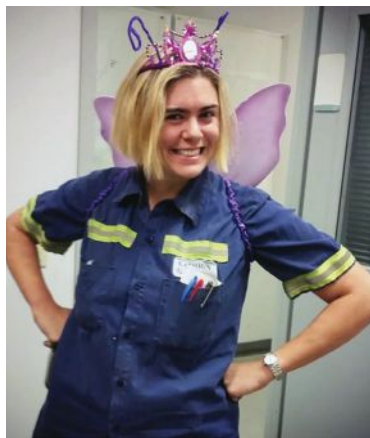
EDUCATION PATH

My decision to pursue engineering as an undergraduate was not via the normal path, meaning when I initially applied to college. Instead, I entered university in Washington, D.C., as a business major. This lasted a whole two months, after which I quickly changed to archaeology, which lasted another month. I then switched to the University of Kentucky and landed in a geology class. Now, I will mention, my father is a mining engineer and my mother is a dentist, so I had some exposure to the sciences. Plus, physics and statistics were among my favorite subjects in high school. However, I had sworn to be neither an engineer nor in health care, so these careers were initially out. My sophomore year, when I was continuing to pursue geology, I took a class with a number of mining engineers, as this was a required course for them as well. They had met my father before and quickly decided to recruit me to mining. Playing in the dirt was really fun, after all, and the engineers were the ones who got to blow things up, unlike the geologists. This was a convincing argument, and after chatting with a number of professors and students, I made the decision to



Katie holding a gold bar at her first job at Newmont in Elko, Nevada.

switch into engineering after a year and a half of school. Fortunately, I had already taken a number of calculus courses and other foundational courses, but I went in knowing I was adding at least a year onto my time in college. I've never regretted that decision. Engineering was a haven for me with smaller classes (past the large intro courses), a tight-knit community, and great job prospects that would take me to (what seemed to me) exotic locations. It was a true community within a large state school where I had previously felt a bit lost. It gave me both purpose and something to be passionate about. This passion continued for several years after I entered the workforce as a staff engineer on an underground gold mine site in rural northeastern Nevada. I progressed through a rotational program, spending time in surveying, mine ventilation, drill & blast design, operational planning, and long-term planning. I even had an office underground for a period of six months, rarely seeing daylight as we'd go underground before 7 a.m. and return aboveground often after the sun had set.



Posing as a "wind fairy" for Halloween — Katie's second rotation in engineering was as a ventilation engineer, nicknamed "wind fairies" by the miners.



THE PROFILE

NAME: Katie Gardner

CURRENT POSITION: Co-Founder and CEO, Terrament, Inc. (2025-present).

BIRTHPLACE: Lexington, KY, 1990.

HIGHEST DEGREES: J.D, University of Pennsylvania Carey Law School, 2020; MBA, The Wharton School, University of Pennsylvania, 2020.

CAREER HIGHLIGHTS:

Newmont Mining Corporation, Mine Engineer 2013-17; Banyan Infrastructure, various positions culminating in Head of Product, 2019-25.

HONORS: Wharton Social Impact Initiative: Impact Analysis Accelerator WISE Fellowship, 2019; University of Kentucky College of Engineering Alumni Association Senior Leadership Award, 2013; Mining Department Academic Excellence Award for Graduating Class, 2013.

GREATEST ACCOMPLISHMENT:

Co-founding Terrament and working to become a funded startup building our gravity energy storage system in unused mines.

FAMILY: Minwoo, husband, 2024.

LEADER MOST ADMIRER: All of the mentors I've had as I've developed in my career, from my undergrad time through all of my jobs (Jenessa, Pete, Cynthia, Janet, Cheryl, Stephanie, and many more). Seeing thoughtful leadership first hand is the most inspiring thing to me.

HOBBIES: I live in Santa Monica, so being outside! Triathlons, mountaineering and hiking, beach volleyball, golf, writing fiction, and skiing.

FAVORITE BOOKS: Too many to count, but *The Lord of the Rings*, *Dracula*, *Portrait of Dorian Gray*, and anything by Brandon Sanderson.

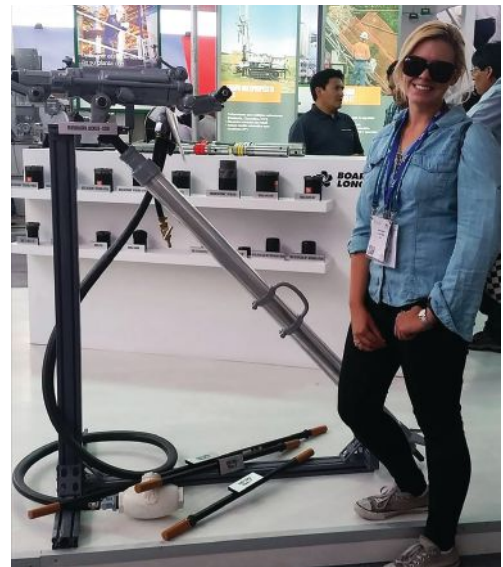
PERSONAL MOTTO: "Put one foot in front of the other" – a silly song from an old claymation movie, but it's a reminder that progress is one step at a time!

IF YOU COULD DO ONE THING OVER:

Focus more! I've always tried to do so many things in life, but the best times have always been when I focus on a few things and enjoy what is in front of me.



Katie with her Terrament co-founder, Eric Chaves (left), at the Los Angeles Cleantech Incubator.



Posing with a "jackleg" at a mining conference in Arequipa, Peru.

My favorite period during this time was working as an operations planner; I loved interacting with all of the different divisions on the site to create a business plan for the next month. Mine sites in many ways function as independent businesses within a larger organization, and I found this fascinating.

Working as a site engineer was an incredible way to start my career, but I began to feel an itch to do something new and to learn new skills.

I'd always found the idea of going to either law school or business school to be a potential next step after working on a site, these were both graduate degree programs that could help me transition to a more business focused role. As it came down to deciding which, however, I couldn't make up my mind. That is when I learned dual degree programs existed, so I thought "Great, now I can procrastinate that decision another few years!"

I ultimately attended the joint J.D./MBA program at the University of Pennsylvania. I found this was yet again another smaller community within the large MBA and law programs, giving me some focus but also room to explore.

It was during my time at UPenn that I began to explore the world of energy, from working at a law firm that focused on global energy projects (including many oil and gas operations) to learning about CleanTech and environmental law. When it came down to deciding which career path to pursue, I ended up managing to find a role that used both.

ENERGY SOLUTIONS

When I entered graduate school, I had never heard of CleanTech and was generally unfamiliar with the tech world in general. This was 2018, when CleanTech was just starting to have a resurgence after the first wave ("CleanTech 1.0") collapsed around 2012 due to low demand, high risk, and high costs (ever heard of Solyndra?). Developments in climate had not gone away; however, there were some winners from 1.0, like Tesla and Sunrun, and technologies like solar and batteries continued to develop. Demand for these technologies also grew, and I gravitated towards the idea of innovative energy solutions. Unsexy infrastructure, after all, was what I was passionate about.

I ended up finding a small, pre-seed SaaS software startup based in San Francisco via a flier in the Wharton Energy Club newsletter (that I answered two months late). The work fascinated me, as it was focused on digitizing complex legal contracts that outlined "project finance" agreements.

Project finance is a niche type of funding that is the standard way of financing any large infrastructure assets, from oil & gas platforms, to bridges, and power plants.

However, renewable energy and sustainable infrastructure are often small and distributed, but banks and financial institutions still want to use project finance as these assets carry the same risks as larger projects. This makes managing these loans cumbersome and expensive, ultimately adding friction to getting projects built. As a J.D. with an MBA, I found this to be the perfect intersection for the next phase of my career.

Unfortunately, I graduated in May of 2020, which was a tough time for both graduates as well as small startups. Fortunately, the company was in good shape, and I was able to work remotely until they could afford to hire me full-time.



Katie at a famous underground mine headframe in Butte, Montana.



Katie and Eric Chaves at Newlab in Brooklyn, New York.

I spent the next five years working there, focusing on product management, ultimately as the head of product, leading a team of designers and managers to develop our software offerings. Product management was exactly like my role as an operations planner on the mine site. I brought together people from all parts of the company to plan where our business was going, and both roles lived heavily in Gantt charts.

HARDWARE STARTUP

Ultimately, I left the company after a number of changes occurred, both internally and within the larger ClimateTech ecosystem. While contemplating what to do next, I reconnected with a contact, Eric Chaves, made via an online Slack network for climate folks, specifically in a mining and climate channel. He was working on an innovation that combined mining, clean energy, and large-scale infrastructure projects.

Eric is a technologist with a design mind and had come up with an innovative idea that he patented. He just needed someone to help him commercialize the technology. And fortunately, that was the skill set I had spent years setting myself up for.

Currently, I work as the co-founder and CEO of a small, pre-seed startup, Terrament, and I focus on the commercialization of the technology as well as managing the business, which primarily includes fundraising and growing the team.

I never imagined that I would run a hardware startup, nor did I imagine that I'd be working in energy storage. However, all of the previous skills I learned in the other stages of my career led me to this role. The operations planning, engineering reviews, and comfort working on a large industrial site came from my time as a mining engineer. The passion for sustainable infrastructure and interest in financing

infrastructure came from my time in leadership at a startup. And now, I'm developing a passion for navigating the complexities of managing my own early-stage startup that is developing a hardware product, including fundraising and securing pilot agreements.

YOU'VE GOT THE SKILLS PURSUE YOUR PASSIONS

The path to get here was more wandering than I expected, but every step built on the one before, even when they didn't look connected at the time. If there's a throughline, it was never the plan itself. Instead, it was the willingness to keep following the next interesting problem. It turned out that engineering was what made the leaps possible, as the degree and experience gave me a foundational set of skills upon which to build. So if your career doesn't look the way you pictured it in your first calculus class, don't worry. Mine didn't either.

Kathryn Gardner, J.D.
Kentucky Alpha '13

Kathryn Gardner

Executive Council CANDIDATES

The Executive Council is our board of directors consisting of nine members who are alumni and serve a three-year term. The Executive Council names its own officers: *Chair*, who is also President of the Association; *Vice Chair*, who is also Vice President; *Secretary*, *Treasurer*, and five *Councillors*.

In accord with the Constitution, three members of the Executive Council are elected to three-year terms by the Convention each year. The terms of Vice President Colleen Hill-Stramsak, Treasurer Henry Houh, and President Thomas Pinkham expire on December 31, 2026. In response to the call for candidates, the following individuals were nominated.

NOMINEES FOR 2026-28:



COLLEEN L. HILL-STRAMSAK, P.E.

MICHIGAN EPSILON '00

Nominated by the Southeastern Michigan Alumni Chapter. Colleen has B.S. and M.S. degrees in civil engineering (specializing in transportation) from Wayne State University (WSU), where she served as MI Epsilon Chapter president and treasurer.

After graduation, Colleen worked for a regional consulting firm, Hubbell, Roth & Clark, Inc., helping communities with various engineering projects. After 20 years in consulting, she joined the Macomb County Department of Roads and has worked as the traffic safety engineer for the last three years leading a team that addresses citizen concerns. Previously, Colleen managed the FHWA Safe Streets and Roads for All Grant to develop the Macomb County Comprehensive Transportation Safety Action

Plan using data-driven analysis to guide safety project development.

She has been a MI Epsilon Chapter Advisor since 2003 and was elected Chief Advisor in 2026. Colleen has served on the TBII Executive Council since 2024, on the International Board of Direction for the Institute of Transportation Engineers from 2012-14, and on the WSU Civil and Environmental Engineering Advisory Board since 2022, including mentoring the transportation portion of senior design for several semesters.

Colleen has held leadership roles with the Southeast Michigan Alumni Chapter, volunteered for Regional Science Olympiad tournaments, and her husband, **Steve Stramsak, P.E., MI H '01**, is a senior project manager at Spalding DeDecker.



HENRY H. HOUH, Ph.D.

MASSACHUSETTS BETA '89

Nominated by the Central Connecticut Alumni Chapter. Henry holds four degrees from the Massachusetts Institute of Technology: a B.S. in electrical engineering & computer science; a B.S. in physics; and master's and Ph.D. degrees in electrical engineering & computer science.

He currently works independently as a technology consultant and a technical expert witness, having previously assumed key roles in various venture-backed startups, including chief technologist and CTO. Recently, Henry founded several education-oriented companies, such as Einstein's Workshop, a hands-on STEM learning center for kids specializing in robotics, coding, and inventing, and BlocksCAD, which provides online educational 3D CAD tools for kids used globally in makerspaces and schools.

Henry holds eight U.S. patents and six international patents, has served on the board of the MIT Alumni Association, and is a board member of the Discovery Museum and the Reading Symphony Orchestra.

He plays the violin and viola and is a regular member of the Boston Civic Symphony and MIT Summer Philharmonic Orchestra. Additionally, Henry was a producer/executive producer for the 10,000 Maniacs' 2013 & 2015 albums and the 2025 OK Go album, and as a former member of the MIT Blackjack Team, appeared in the movie "21."

Residents of Lexington, MA, he and his wife, **Lisa, MA A '91**, have three children and are now empty nesters.



THOMAS A. PINKHAM IV

MASSACHUSETTS EPSILON '88

Nominated by the New York Pi and Rochester Alumni Chapters. Tom earned a B.S. in electrical engineering from Northeastern University and attended IMD Business School in Lausanne, Switzerland, as part of an Executive Development program.

After 30+ years, he recently retired as Global Key Account Program Manager for Kodak Moments. In this role, he managed critical relationships with major global customers, aligned product roadmaps with client priorities, and directed the rapid deployment and reliable operation of retail photo systems and image delivery networks. His career in product commercialization honed a sharp business acumen, an objective view of organizational strengths and weaknesses, and a proven ability to manage product delivery effectively within resource-limited environments.

Prior to joining the Executive Council in 2024, Tom spent 33 years as a TBIT District 2 Director (NY & NJ). During that time, he coached chapter leaders and advisors, advised Convention committees, participated in key award-selection processes, and developed a deep understanding of collegiate chapters, volunteers, governance, and institutional priorities. He is eager to continue leveraging his skills to strengthen HQ operations, enhance member programs, and drive the future growth of Tau Beta Pi.

He lives in Rochester, NY, with his wife, Jo Ellen, and two college-aged sons. He has been active as a Council Committee member for Scouts BSA (formerly Boy Scouts), as well as for his son's large troop.



CHRISTOPHER STEMPLE

ARIZONA ALPHA '10

Nominated by the Arizona Alpha Chapter. Chris has four degrees from the University of Arizona — B.S. in electrical engineering, M.S. in biomedical engineering, M.S. in engineering management, and an MBA.

Chris has 16 years of professional experience across a variety of roles, including owning and operating an engineering consulting company, semiconductor R&D as a program manager at Texas Instruments, global supply chain management and proposal development as a senior manager at Raytheon, and is currently the director of electronic fire control at Day & Zimmermann, supporting the defense industry.

A TBIT District 13 Director since 2015, he serves as AZ Alpha Chapter Chief Advisor, and as an undergraduate held the position of AZ Alpha Chapter president. Chris is also on the board of directors for the Tucson Alumni Chapter and on the executive committee for the Young Leaders Unity affinity group of United Way of Tucson and Southern Arizona. He's pursuing this position to elevate his contributions to the Association, leveraging his experience to ensure the organization remains strategically focused on the student experience while adapting to the ever-changing engineering landscape.

Outside work and volunteering, Chris is an avid car enthusiast and his ideal Saturday would be spent out in the garage, maintaining and modifying one of his classic American muscle cars or motorcycles.



ANITRA C. WILSON, Ph.D.

FLORIDA ALPHA '91

Nominated by the Florida Alpha Chapter. Anitra graduated magna cum laude with a B.S.E.E. from Southern University and A&M College, and earned an M.S. and Ph.D. in electrical engineering, from the University of Florida (UF).

Dr. Wilson is a co-founder and member of Management and Technology Solutions Group, LLC, founded in 2009, and a philanthropist. She has other work experience in academia and in the private sector.

She joined Tau Beta Pi during her graduate studies at UF and participated in chapter activities there. Dr. Wilson is a former Advisor to the Florida Eta Chapter and a certified CyberAmbassador. She also has experience teaching electrical engineering and computer science courses at the undergraduate & graduate levels, conducting research, managing external grant funding, and fulfilling other academic duties. She is a recipient of teaching awards and other accolades.

Dr. Wilson is a member of the IEEE Global Policy Caucus (appointment from Jan. 1, 2025 to Dec. 31, 2026) and four technical committees of the IEEE Power Electronics Society (TC 3, TC 4, TC 6, and TC 11). She also has held leadership roles within IEEE, including serving as chair of the IEEE-USA Energy Policy Committee in 2022.

She wants to serve on the Executive Council to contribute to the overall governance, leadership, and legacy of Tau Beta Pi. Additionally, Dr. Wilson wants to introduce new programs and opportunities that will resonate, engage, and help increase membership.

Association Awards

★ Laureates

Four Laureates have been selected in the 43rd year of Tau Beta Pi's annual program to recognize gifted engineering students who have excelled in areas beyond their technical majors. Award categories include arts, athletics, diverse achievements, and service. Recipients will receive a \$2,500 cash award and a commemorative plaque. This year's Laureates bring the total number of Tau Bates to 135 since the program began in 1982.



KARTHIK BOREGOWDA

FLORIDA ALPHA '23

Karthik has been selected as a **2026 TBP Laureate** for achievements in service. He's currently pursuing a Ph.D. in environmental engineering sciences at the Univ. of Florida, where he previously earned an M.E. and graduate certificate.

He's developed the ZipTree educational search tool to identify resilient trees by ZIP code. The interactive resource is for engineers, agriculturists, environmental professionals, wildfire experts, and restoration practitioners. Accessible at www.zip-tree.com, it covers 40,000+ ZIP codes and 600 tree species with expansion plans to support rural communities and urban planning in wildfire-prone regions.

Karthik's academic research has focused on PFAS and helping agencies and communities navigate operational continuity challenges during PFAS contamination. Additionally, his passion for integrating engineering with community service, energy equity, and environmental stewardship shines through his volunteer work as an energy coach at the Community Weatherization Coalition, where he was recently elected to the Advisory Board. Karthik's transformative work has lifted rent burdens for low-income families, prevented homelessness, conserved resources, and fostered a more sustainable community.

Karthik's impact has strengthened Tau Beta Pi's presence on campus, particularly after the pandemic, while providing invaluable service to the FL Alpha Chapter. His visionary leadership has elevated member engagement and enriched the candidate experience for which he's been honored with the Univ. of Florida's most prestigious recognitions, including the 2025 Presidential Service Award. He was cited in his nomination for showing the initiative and drive that demonstrates how engineers can foster civic responsibility and contribute meaningfully to a liberal culture that values empathy, social awareness, and action.



TOVA E. FINK

NEW YORK BETA '26

Tova's achievements in the arts have led to being named a **2026 TBP Laureate**. She recently graduated from Syracuse University with a biomedical engineering degree and studied abroad for a year (2024) at the University of New South Wales (UNSW).

Tova began playing the flute in middle school and continued through high school as part of the concert and marching bands. Alongside musical involvement, she was committed to athletics, competing in soccer, lacrosse, and basketball. Service was also a defining component of her development, leading Heroes for Children initiatives as a teen board chair. As an undergraduate, music has remained a central avenue through which she has fostered both liberal culture and community. As a flute player, Tova's been an active member of the Pride of the Orange Marching Band, Sour Citrus Society Pep Band, and Syracuse University Concert Band. Through rehearsals, event performances, and concerts, she has helped cultivate school spirit and these ensembles have created spaces where students of diverse academic backgrounds collaborate toward a shared artistic goal.

In addition, Tova has sought leadership roles that cultivate an inclusive and supportive campus culture. She's served as NY Beta Chapter vice president and Tau Beta Sigma (honorary band sorority) recognitions chair. As a university physics coach since spring 2025, Tova collaborates with TAs to lead weekly laboratory sections of approx. 25 students.

While studying abroad, she participated in the UNSW Wind Symphony and on the university's lacrosse team. These experiences broadened Tova's understanding of how engineering education, artistic expression, and athletics remain deeply interconnected across cultures.

In support of her nomination, a professor said, "What I find most compelling about Tova is her authenticity. She leads without seeking recognition, contributes without hesitation, and approaches every opportunity with humility and purpose."

★ Laureates



SADIE S. MEYER

NEW YORK BETA '26

For her achievements in service, Sadie has been selected as a **2026 TBP Laureate**. Having recently completed a B.S. in biomedical engineering and B.A. in mathematics, with a chemistry minor at Syracuse Univ., she plans to pursue an M.D. after a gap year internship.

Knowing that her life began as a statistical improbability has shaped Sadie's understanding of medicine as a practice grounded in determination and guided by science. Motivated by her mother's experience with in vitro fertilization, she aspires to help other families achieve successful outcomes through a career as an OBGYN/reproductive endocrinologist, combining patient care with clinical engineering research to advance assisted reproductive technologies and expand access to women's healthcare.

Sadie's undergraduate research includes developing a shape-memory polymer biomaterial scaffold that can eradicate biofilm maturation on its surface, leading interdisciplinary biomaterials research across two laboratories, and working alongside global researchers for a summer in Japan.

She's served as NY Beta Chapter president and vice president, demonstrating leadership and dedication to the Association. During this time, Sadie has guided the chapter through a period of transition, strengthening the organization while fostering a culture of engagement and service. She's overseen five initiation cycles and expanded membership to 100+ members, the largest cohort in NY Beta's history, and also recruited two new faculty advisors to ensure continued stability.

Additionally, with service as the Multicultural/Interfaith Cabinet Chair of Syracuse Hillel for two years, Sadie established interfaith connections and dialogue on campus through her involvement on the Student Assembly of Interfaith Leaders.

A nationally recognized researcher (Goldwater Scholar), Sadie was championed for being a passionate team player, exhibiting a commitment to service, and making an impact through her scientific communication skills and expertise.



HU (OLIVER) ZHAO

ALABAMA ALPHA '21

Oliver has been named a **2026 TBP Laureate** for diverse achievements. He's a Ph.D. student in civil & environmental engineering at Texas A&M Univ. with civil B.Eng. degrees from Beijing Univ. (BUCEA) and Auburn Univ., and an M.S. from UCLA.

Born in Jinan, China, to an aircraft engineer and nurse, Oliver was attentive to the relationship between systems and people from a young age. Music had an early influence on his development in liberal culture through years of violin study. By the time he entered engineering, he had already been shaped by music, travel, endurance, and observation.

At BUCEA, he performed in the Symphony Orchestra as principal violist and won first prize in the poetry recitation competition. Since arriving in the U.S. to continue his eng'g education, Oliver has focused on writing, including becoming a columnist for this magazine and the *Aggie Voice* of Texas A&M. Through these publications, he's detailed his own vulnerabilities and invited engineers to think about resilience not only as a technical concept, but a human one.

Oliver's leadership is notable because it was exercised after a traumatic brain injury in 2023 and a lengthy recovery. Within a year of returning to public life, he was elected TX Delta Chapter president and served concurrently as secretary and social chair during a period of chapter rebuilding. His nomination by the TX Delta Chapter proudly recognized Oliver, "... not simply for the breadth of his accomplishments but for a sustained pattern of contribution across artistic practice, writing, civic engagement, and student leadership. In each of these areas he has strengthened communities and institutions through creativity and public purpose."

Oliver is currently researching urban resilience, which includes analyzing large datasets, however his approach and sense of social awareness allow him to look deeper at the adaptive behavior of those under stress. Through this work his "ability to connect people to purpose and translate vision to action" continues to elevate those around him.

Association Awards

★ McDonald Mentor

Established in 2005, the Tau Beta Pi-McDonald Mentor Award celebrates **excellence in mentoring and advising among educators and engineers who have consistently supported the personal and professional development of their students and colleagues.** It recognizes those who have shown true concern for individuals, supported an environment for developing talents, and earned respect and recognition in their field and the greater community.



MATTHEW W. PRIDDY Ph.D.

MISSISSIPPI ALPHA '08
NOMINATED BY MS ALPHA

Matthew Priddy **has been named the 2026 TBP-McDonald Mentor.** He is an associate professor in the department of mechanical engineering at Mississippi State University (MSU) and director of the Computational Mechanics & Materials Laboratory research group.

Dr. Priddy will receive \$1,000, a bronze engraved medallion, and a replica lapel pin. A \$1,000 grant will be presented to the Mississippi Alpha Chapter for nominating him.

Established by the Association and Marion and Capers W. McDonald, NC G '74, the McDonald Mentor Award recognizes engineering educators or professionals in industry, government, or service organizations.

He obtained civil engineering degrees (B.S. and M.S.) from MSU and a Ph.D. in mechanical engineering from Georgia Tech.

Dr. Priddy joined MSU as a visiting professor in 2016, became an assistant professor in 2017, and was elevated to associate professor in 2023. The primary research focus of his lab is the advancement of computational solid mechanics for engineering materials used in multiple applications, including additive manufacturing, civil structures, and orthopedic implants.



It is unique for a group of Tau Beta Pi alumni across multiple disciplines to agree on a statement of objectivity, but that is exactly what happened when five recent MS Alpha Chapter graduates put together Dr. Priddy's nomination packet. They all concur that he was one of the most impactful mentors and educators during their undergraduate careers.

Dr. Priddy pursued a career in academia specifically to mentor students, and that is exactly what he's done. The MS Alpha Chapter is lucky to have Dr. Priddy in a leadership role as he mentors all the students he comes across, not just the ones he teaches and who perform research under him.

He embodies the definition of an advocate and mentor through tireless dedication to student growth, early-career development, and encouragement. His commitment and actions

have left an indelible mark on the engineering community and across the entire MSU campus.

Throughout Dr. Priddy's career, he's mentored 83 undergrad researchers, 22 master's students, and had four Ph.D. students graduate successfully. Dr. Priddy's dedication is evident having written 200+ letters of recommendation and many of his students receiving the most prestigious scholarships and awards in the country. Thanks to his guidance, students have also become industry leaders.

As a MS Alpha Chapter Advisor since 2018, Dr. Priddy regularly hosts grad school discussions, leads by example, and offers support to chapter officers while still letting them figure out how to effectively run a chapter. When TBP students bring forward ambitious ideas to increase engagement within the Society, he ensures that they have the resources to turn those ideas into reality.

When discussing examples of Dr. Priddy's influence, a letter of recommendation stated that, "He is constantly using his influence and connections to help others navigate hard situations, find new opportunities, or grow in any other number of ways."

For pushing his mentees beyond their own limiting beliefs and influencing others to carry forward his approach to engineering practice, **we honor Dr. Matthew Priddy as the 2026 TBP-McDonald Mentor.**

★ Outstanding Advisor

The Tau Beta Pi Outstanding Advisor has been named since 1994 and recognizes outstanding performance among the Chapter Advisors of the Association. Selection is made by a committee of deans at engineering colleges and past award winners.



JOEL K. NESS

Ph.D.

IOWA ALPHA '92
NOMINATED BY ND BETA

Joel Ness, Chief Advisor to the North Dakota Beta Chapter, is **the 2026 TBP Outstanding Advisor**.

He will receive \$1,000, a commemorative plaque, and a \$1,000 grant will be presented to the University of North Dakota (UND) engineering discretionary fund.

The Outstanding Advisor Award recognizes chapter advisors, lauds excellence in engineering education, and in the ethical practice of engineering.

Dr. Ness has served as Chief Advisor to the ND Beta Chapter for 27+ years. His consistent leadership and sustained excellence have shaped lofty standards despite the chapter's small size.

He earned a bachelor's degree in mathematics from Mayville State Univ., an M.S. in applied mathematics from UND, and a Ph.D. in engineering mechanics from Iowa State Univ. Dr. Ness joined the faculty at UND in 1994 and recently announced his retirement as a professor.

Dr. Ness remains an active member of a local jazz band where he plays trumpet. He is also a local farmer and owner of J & K Ness Farms in Minnesota producing wheat, soybeans, and other small grains.



His mentorship inspires officers, guiding them into successful roles which enables the chapter to make bold new enhancements.

A recent example is a fundamental shift to the tutoring system, allowing easier access. Such actions ensure the longevity of the chapter and demonstrate a true alignment with the Association's goals.

Dr. Ness' leadership has seen the chapter grow from only a few members to more than 50. In addition, his strategy for continued improvement has seen new projects and events, such as an annual Pi Mile Run, volunteering with First Robotics, and hosting Engineering Future Leaders sessions. These activities provide service to the local community, leading to several TBP Chapter Project Awards and the first ND Beta Laureate in 2008.

To cap off the list of substantial projects, Dr. Ness found that a new Bent monument was necessary to improve the chapter's image on campus. Several alumni stepped forward and donated to this cause which illustrates Dr. Ness' influence and long-lasting impact. In the end, \$20,000 was raised and the new Bent monument was erected in 2018.

During his 32-year career, his research interests include mechanical design, mechanical vibration, and mathematical modeling. He's been nominated and awarded several teaching awards, including the UND Outstanding Student-Athlete Mentor in 2025.

A former colleague and current university president had this to say in his recommendation, "Joel has been a cornerstone of engineering education at UND. As a longtime instructor in foundational courses such as statics and dynamics, he has shaped the academic experience of nearly every engineering student who has come through the institution. He understands that excellence in engineering education is not just about individual achievement, but about building systems where students support one another."

For his passion and support, for being a role model to the ideal of a chapter advisor, and for enduring quality in advising, teaching, mentorship, and service, **Dr. Joel Ness is the 2026 Tau Beta Pi Outstanding Advisor.**

Association Awards

★ Distinguished Alumni

Distinguished Alumni are **recognized for their demonstration of outstanding adherence to the ideals of Tau Beta Pi (integrity, breadth of interest, adaptability, and unselfish activity) and for fostering a spirit of liberal culture in society.** The 2026 awardee profile follows and the press release is available at: <https://www.tbp.org/press-releases.cfm>



GERALD D. GRIFFIN

INDIANA ALPHA '56

In recognition of a *distinguished technical career advancing space flight and contributions to improving society*, Gerry Griffin **has been named a 2026 TBP Distinguished Alumnus.**

Mr. Griffin received a B.S. in aeronautical engineering from Texas A&M University and was commissioned as a 2nd Lieutenant in the U.S. Air Force. After flight training, he served as weapons systems officer in the 84th Fighter Interceptor Squadron flying F-89J Scorpion and F-101B Voodoo aircraft. He was promoted to 1st Lieutenant before leaving active duty and then Captain before leaving active reserve.

Mr. Griffin joined NASA in 1964 as a flight controller at the Manned Spacecraft Center. In 1968, he was named a flight director and assigned to the first crewed mission of the Apollo Program. He served as flight director during all of the Apollo manned missions, including nine missions to the Moon, six with lunar landings. His "Gold Team" conducted half of the Apollo lunar landings and was scheduled for the Apollo 13 landing, but after an oxygen tank explosion they played a key role in the safe return of the astronauts.

He became Johnson Space Center's third director (1982-86) and was responsible for NASA's prime center for human space flight R&D and operations. Because of his real-life role as a flight director, Gerry served as a technical advisor for the movie *Apollo 13*. He's since worked on four other feature films, and is a member of the Screen Actors Guild.

On July 4, 2025, Mr. Griffin's community in Hunt, TX, was devastated by a flood with the loss of many lives, homes, and businesses. The local preservation society was tasked with care of the area's infrastructure and culture. When the flood took place the organization needed to raise money and allocate the funds for the community. Until the end of 2025, Gerry served as Executive Director of the allocation committee, and helped in any way he could.

In addition to his career accomplishments, Mr. Griffin is an avid supporter of higher education as demonstrated through involvement on numerous boards and councils.

Gerald D. Griffin is the fourth recipient of the **Asad M. Madni Distinguished Alumnus/Alumna Award**. Dr. Madni, CA E '69, made a gift in 2023 to permanently endow this award to annually recognize one Tau Bate with this distinction. He believes that a successful professional career includes philanthropy and considers it a privilege to give back and recognize those who echo the same value system.

2026 Convention Join us in Tucson, AZ!

- **October 8 - 10 at The Westin La Paloma Resort & Spa**
- **Hosted by the Arizona Alpha (at U of A) and Tucson Alumni Chapters**
- **Professional Development, Recruiting Fair, and much more ...**

Details at: www.tbp.org/convention.cfm or contact tbp.convention@tbp.org.



This image was generated using Google Gemini.

The STORY BEHIND The PHOTO

Announcing the Fall 2026 “Caption This Photo” Contest!

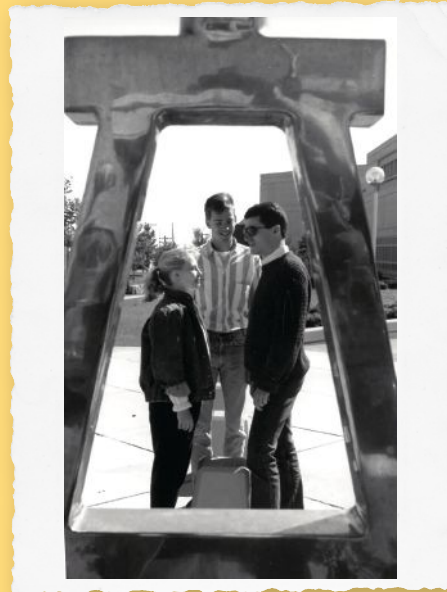
Three delegates from the University of Virginia (VA Alpha Chapter) created a memento of the 1989 Convention in Columbia, SC. Bretton S. Alexander, '89, Steve D. Hollo, '88, and Jennifer A. Turns, '89, can be seen through the Bent monument. What's your vantage point?

DEADLINE: NOVEMBER 1

Questions? Contact d.lane@tbp.org

How to Enter: Send us your witty caption(s) for this image. If the judges vote yours as one of the **top three** (and you have not been a previous winner), **we'll send you a TBP t-shirt of your choice!**

Submit your entry using this form: <https://www.tbp.org/?CaptionSub> or mail to The Bent of Tau Beta Pi, Caption Contest, P.O. Box 2697, Knoxville, TN 37901-2697.



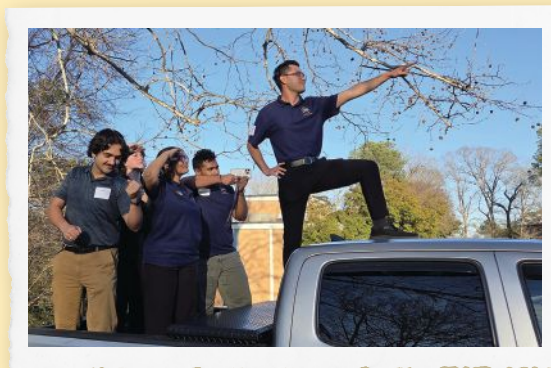
WINNERS of the Summer 2026 “Caption This Photo” Contest:

The judges reviewed 36 captions created by 24 Tau Bates. You can read all entries, including captions and results from recent contests, at <https://www.tbp.org/bent-features.cfm#caption>. *If you are interested in serving as one of our judges, contact Dylan Lane at d.lane@tbp.org.*

1st PLACE:

“The original crossing had a boat. This version has better load capacity?”

Eric M. Lussier, TN A '96



▲ Florida Iota Chapter attendees at the District 5 Conference prepare for a daunting voyage across the UGA campus for the group picture.

**CONGRATULATIONS
TO OUR WINNERS!**

2nd PLACE:

“And here you can see a group of engineers in the wild. Careful not to disturb them (or) they will start explaining formulas.”

Haley R. Glenn, NC H '26

3rd PLACE:

“Tau Beta Pi — coming soon to a river near you.”

Allison M. Zak, MA E '27

4th PLACE:

“Beyond infinity is impossible. How about ‘to googolplex and beyond?’”

Scott W. Sibley, PA G '80

BRAIN TICKLERS



Results From Spring

Perfect Scores

*Kuhn, Walter A. OH A '81

Other

Baker, Tommy	Member son
Bertrand, Richard M.	WI B '73
Couillard, J. Gregory	IL A '89
Cross, Harry L.	MI I '65
Dickson, Charles T.	GA A '84
Eckley, Paul L.	NV A '75
Eid, Ronald J.	CA A '77
*Gerken, Gary M.	CA H '11
Golemme, Steven S.	IL A '20
Grewal, Kalwant S.	TX H '73
Griggs Jr., James L.	OH A '56
Homburger, Paul A.	CA A '83
Kovalick, Albert W.	CA H '72
Lalinsky, Mark A.	MI I '77
Marks, Lawrence B.	NY I '81
McHenry, S. Dale	MO B '81
Norris, Thomas G.	OK A '56
Pendleton III, Winston K.	MI I '62
Roggli, Victor L.	TX I '73
Rowe, David L.	Member brother
Rowe, Steven A.	ME A '81
Schwam, Susan E.	WA A '88
Schwam, Freely	Member spouse
Seigel, Timothy J.	PA A '80
Strong, Michael D.	PA A '84
Tellechea, Gabriel	TX A '87
Todd, Michael M.	DE A '73

*Denotes correct bonus solution

Spring Review

The most answered question was #5 (Atomic Math) and it also received the most correct solutions (80%).

The problem with the second most correct answers (78%) was #3 (Monkeys at typewriters).

The length of the baseball seam (Question #1) proved to be the most tricky, as only 25% of the submitted responses were correct.

Summer Answers

1: The local solar time is **3:26pm**.

The relationship between the angles for azimuth α , declination δ , latitude λ , hour-angle h , and zenith θ is defined by $\cos(\alpha) = (\sin(\delta) \cos(\lambda) - \cos(h) \cos(\delta) \sin(\lambda)) / \sin(\theta)$. The azimuth is measured from 0° due north, so when the flagpole's shadow is due east, the sun is at $\alpha = 270^\circ$. Given that, $\cos(\alpha) = 0$, which makes the zenith angle irrelevant. This simplifies our equation to $\cos(h) \cos(\delta) \sin(\lambda) = \sin(\delta) \cos(\lambda)$, or $\cos(h) = \tan(\delta) / \tan(\lambda)$. Using $\delta = 23.5^\circ$ and $\lambda = 35^\circ$, $\cos(h) \cong 0.6209764$ and $h \cong 51.61253^\circ$. At 15° per hour solar time, h is approximately 3.440835 hours or 206.4501 minutes after noon.

2: The probability of a full house flush is **15 / 913952** $\cong 1.64 \times 10^{-5}$. The first card drawn establishes both a rank and a suit, and can be chosen in 52 / 52 ways. A second rank is then chosen from the remaining 12 ranks, and the two ranks can be distributed across the five card hand in $\binom{5}{2} = 10$ ways. Given that the last four cards have 52^4 possibilities, the probability is $(10)(12) / 52^4 = 15 / 913952$.

3: The lowest center of gravity for the can is **18.00 mm**. The center of gravity is defined as the sum of the moments divided by the sum of the weights. Define the mass of the fluid $m_f = \pi ZY(D/2)^2$, the mass of the sides of the can $m_s = \pi DHX$ and the mass of the bottom of the can $m_b = \pi X(D/2)^2$. The respective heights are $h_f = Z/2$, $h_s = H/2$, $h_b = 0$. The combined center of gravity is expressed as $(m_f h_f + m_s h_s + m_b h_b) / (m_f + m_s + m_b)$, or $CG = [(\pi ZY(D/2)^2)(Z/2) + (\pi DHX)(H/2) + (\pi X(D/2)^2)0] / [\pi ZY(D/2)^2 + \pi DHX + \pi X(D/2)^2]$. Compute $\partial CG / \partial Z$ and setting to 0, we get $0 = DYZ^2 + 2X(D + 4H)Z - 4H^2X$.

Solving for Z , $Z = [V(X^2(D + 4H)^2 + 4XYDH^2) - X(D + 4H)] / DY$. Using the provided values, $D = 66$ mm, $H = 122$ mm, $X = .00054$ g/mm², and $Y = .001$ g/mm³ which results in $Z \cong 17.9985$ mm.

4: The maximum number of floors in the building is **14**. Group the floors in pairs and let each floor-pair be serviced by exactly three elevators. That is, $(7 \text{ elevators} \times 6 \text{ floors per elevator}) / 3 = 14$ floors. Here is one possible solution indicating which floors each elevator stops at:

- 1, 2, 3, 8, 9, 10
- 1, 4, 5, 8, 11, 12
- 1, 6, 7, 8, 13, 14
- 2, 4, 7, 9, 11, 14
- 2, 5, 6, 9, 12, 13
- 3, 4, 6, 10, 11, 13
- 3, 5, 7, 10, 12, 14

On an abstract level, the solution is an extension of a construct called a Fano plane. It can be proved that 15 floors is not possible by applying the Schönheim bound for pairs: $C(n, k, 2) \geq \lceil [n/k] \lceil (n-1)/(k-1) \rceil \rceil$. For $n = 15$ and $k = 6$, this bound indicates that eight elevators would be necessary for coverage.

5: The probability that the three randomly chosen pieces form an acute triangle is **3ln(2) - 2 $\cong$.079442**. Assume the length of the original rod is 1. Let X be the point of the first break and Y the second break. Call the three lengths $x = X - 0$, $y = Y - X$, and $1 - x - y$. The portion of the x - y plane that comprises all possible samples consists of a right triangle with vertices at $(0,0)$, $(1,0)$ and $(0,1)$ with an area of 0.5. Observe that for $x, y, 1 - x - y$ to form sides of a triangle, it is necessary and sufficient that each of the three values are less than or equal to 0.5. On the x - y plane in the diagram, this is the gray triangle with vertices at $(1/2, 0)$, $(1/2, 1/2)$ and $(0, 1/2)$, and a total area of $1/8$. Thus, the probability that two randomly chosen values form a triangle is $1/8 / 1/2 = 1/4$.

5: Continued For the three lengths to form an *acute* triangle, the sum of squares of two sides must be greater than the square of the third side. Conversely, a triangle is obtuse if the sum of squares of two sides is less than the square of the third side. Due to symmetry, the obtuse condition occurs in three regions of the sample space. Consider the case where $1 - x - y$ is the longest side; this occurs when $(1 - x - y)^2 > x^2 + y^2$ or $y < (1 - 2x) / (2 - 2x)$, as illustrated by the yellow arc in the diagram. Computing the area of this obtuse region between the boundary $= 0.5 - x$ and the yellow arc, integrate the difference over x . That is $\int ((1 - 2x) / (2 - 2x) - (0.5 - x)) dx = \int ((1 - 2x) / (2 - 2x) - (0.5 - x)) dx = (x^2 + x + \ln |x - 1|) / 2$, and evaluating from $[0, 0.5]$ gives $3/8 - 1/2 \ln(2)$. Since there are three obtuse regions of the same size, the area of the acute region is $1/8 - 3(3/8 - 1/2 \ln(2)) = -1 + 1.5\ln(2) = (3\ln(2) - 2) / 2$. Given the total sample region has area $1/2$, the final probability is $3\ln(2) - 2$.

BONUS:

It takes an average of **2.8** pan weighings to find the real coin mixed in with nine fakes and it takes an average of **3.6** weighings to find the two real coins mixed in with eight fakes that are known to be lighter.

In the first case, name the coins by the ten letters A-J. For weighing #1: compare ABC against DEF. Weighing #2: compare BGH versus ADI. After two weighings, we can conclude if J is real (both weighings equal) or A is real (both weighings are unequal, and the A side is light or heavy both times). Otherwise, conduct a third weighing, ABH versus CFG, which will give enough information to determine which of B-H is heavy or light. The expected value is therefore equal to $((2 \times 2) + (3 \times 8)) / 10 = 2.8$.

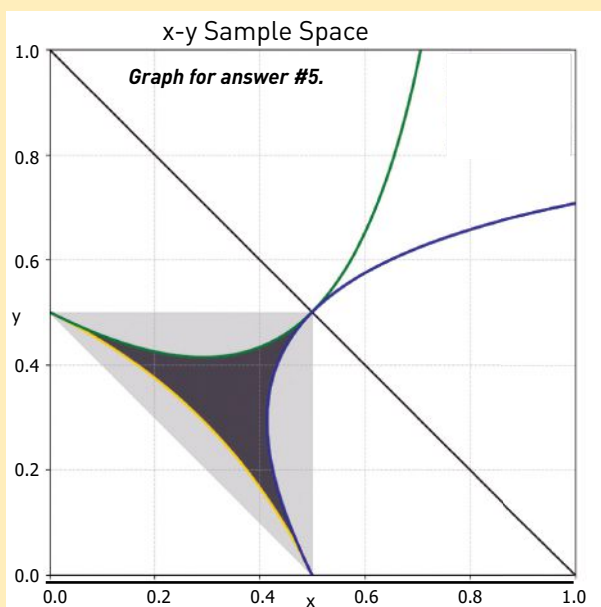
For the second case, we know that the real coins are heavier than the fake ones, but our decision tree is complicated by the need to identify two coins.

There are $\binom{10}{2} = 45$ outcome pairs possible. Again, we name the coins A-J. In the first weighing, compare three coins on each pan: ABC against DEF.

If the scale balances in weighing #1, then either ABC and DEF each have one real coin, or GHIJ has both. For weighing #2, compare one coin from each initial group against two of the unweighed coins, e.g. AD against GH. Skipping the tedious details, this branch allows 6 outcome pairs to be determined in 3 total weighings, and 9 pairs require 4.

If weighing #1 is unequal, and ABC is heavier, DEF must be fake. Either ABC has both real coins, or both ABC and GHIJ each have one. For weighing #2, compare A vs. B, and in weighing #3 compare G vs H. Again, this path yields 6 outcome pairs in 3 total weighings, and 9 pairs require 4 weighings.

Alternatively, the same logic applies if DEF is the heavier pan in weighing #1, but substituting DEF for ABC.



Legend for graph (above):

- Triangle Region
- Acute Triangle Region
- $y = 1 - x$
- $(1 - x - y)^2 = x^2 + y^2$
- $(1 - x - y)^2 = x^2 + y^2$
- $(1 - x - y)^2 = x^2 + y^2$

COMPUTER BONUS:

1017×2⁷⁷⁴ is the smallest integer that fails the round-trip conversion from 10-bit binary floating format to 4-digit decimal and back. The integer rounds up to 1018×2⁷⁷⁴ through the two conversions. Five other integers less than 512×2⁶³⁹⁹ also fail the full circuit trip. Of the five, two, 1010×2¹²⁵⁹ and 512×2²³²³ round up, and three, 1022×2²⁸⁰⁷, 1019×2⁴³⁶⁵ and 1014×2⁴⁸⁵⁰ round down.

New Fall Problems

1: Add Them Up

Solve the following cryptic addition; the usual rules apply (no leading zeros, different letters are different decimal digits, same letter is same digit).

```

  S C A N
+ T H E S E
- - - - -
D I G I T S

```

— Mathematical Puzzling
by A. Gardiner

BTs continue on page 39.

TBP SCHOLARS

Scholarships have been awarded to 256 undergraduate members for the 2026-27 year.

The Fellowship Board announced the selection of 256 engineering students from 743 applicants. Most recipients will receive \$2,000 for one year and a few will receive \$1,000 for one semester. This year, a total of \$498,000 was awarded. All TBP Scholarships are given on the competitive criteria of high scholarship, campus leadership and service, and promise of future contributions to the engineering profession. These awards bring the total to 4,912 scholarships granted since 1998.

Nicholas D. Abram DC A '27
Campbell No. 61 | Computer science

Prisha Agrawal MD A '27
Nagel No. 73 | Chem. & biomol. eng'g

Hamna Ali MD B '27
Dodson No. 107 | Chemical eng'g

Elizaveta J. Aliyanaya FL A '28
Nagel No. 74 | Mechanical eng'g

Carl Jacob M. Alvez UT B '28
Pasadyne No. 4 | Chemical eng'g

Carter R. Amaba FL A '27
Althouse No. 18 | Electrical eng'g

Matthew J. Amidon MI Z '27
Nagel No. 75 | Electrical eng'g

Shashwat Anand MN A '27
Spirit of Apollo No. 13 | Aerospace eng'g

Vikram Anantha MI I '28
Stabile No. 1565 | Computer science

Quinn A. Angell CT A '27
Soden No. 33 | Chemical eng'g

Dylan J. Anuskiewicz CA A '27
Forge No. 181 | Nuclear eng'g

Dev Jyoti Ghosh Arnab MI A '27
Stabile No. 1566 | Computer science

Andrea C. Bailey MS A '27
Stabile No. 1501 | Mechanical eng'g

Abigail M. Baines PA A '27
Stabile No. 1567 | Civil eng'g

Eitan Bajwol Gomberoff IN A '27
Stabile No. 1568 | Computer eng'g

Pranati H. Bala MA E '28
Stabile No. 1492 | Industrial eng'g

Eban M. X. Barrett AL A '27
Brems No. 37 | Aerospace eng'g

Ariante Bastos Cerdas KS I '27
Lugannani No. 3 | Mechanical eng'g

Benjamin D. Bates NC A '26
Stabile No. 1562 | Mechanical eng'g

Dylan M. Baumgartner SD B '27
Record No. 2117 | Mechanical eng'g

Camille J. Bautista MS A '27
Stabile No. 1569 | Biomedical eng'g

Sophia D. Beix MN A '27
Stabile No. 1570 | Biomedical eng'g

Zachary S. Beneke AL E '27
Stabile No. 1502 | Mechanical eng'g

Zachary L. Berde MA E '28
Stabile No. 1503 | Mechanical eng'g

The following scholarships are named for members:

Linda M. Abriola, Ph.D., *PA Z '76*, and her brother, Joseph L. Abriola Jr., *TN B '80*, established the Gloria and Joseph L., *PA Z '48*, **Abriola Scholarship** in memory of their parents.

Henry M. Alford, *MS A '27*, left a bequest sufficient to permanently endow the **Alford Scholarships**.

The **Althouse Scholarship** honors Ernest E. Althouse, *PA A 1926*, who left a bequest.

Past Association vice president Bill Beans, Ph.D., *OH I '53*, established the William and Zeda **Beans Scholarship**.

Thomas R. Berthold, *IL A '70*, established the **Berthold Scholarship**.

The **Bloomberg Scholarship** is named for Michael R. Bloomberg, *MD A '64*.

Marian K. and John H. Brems Jr., *MI I '46*, left a bequest to fund the **Brems Scholarships**.

Ruth M. and Cleveland L. Campbell, P.E., *IA A '47*, permanently endowed the **Campbell Scholarships**.

The **Dechman Scholarship** was established by David, *VA B '82*, Ken, and Jim Dechman, *TX A '89*, to honor their father, Don A. Dechman, *TX A '57*, on his 80th birthday.

The **Dodson Scholarships** are sponsored by the late Charles R. Dodson, *MD B '30*.

The **Elovitz Scholarship** was established through a gift by Kenneth M. Elovitz, *PA A '75*.

Nick A. Farmer, *MD B '68*, established the **Farmer Family Scholarship**.

Charles O. Forge, *CA I '56*, left a bequest to support the **Forge Scholarships**.

The **Fue Scholarship** recognizes Harold C. Fue, *IL A '57*, who left a bequest.

The **Griffin Scholarship** is in recognition of Gerald D. Griffin, *IN A '56*, a 2026 recipient of the TBP Distinguished Alumni Award.

James C. Lugannani, *NJ A '81*, established the **Dorothy Hopp Lugannani and Robert Lugannani Scholarship** to support 1st generation college students and immigrants/refugees.

All Scholars submitted a short bio that has been posted on our TBP website at:
<https://www.tbp.org/memb/ScholarArchives/ScholarBios/ScholarBios26-27.pdf>

Kristi K. Bez IA A '27
Stabile No. 1504 | Mechanical eng'g

Aadil Bhat CA Y '28
Stabile No. 1571 | Computer eng'g

Alisha M. Bhat CA E '27
Forge No. 182 | Bioengineering

Nathan E. Bolima MD A '28
Dodson No. 109 | Mechanical eng'g

Elizabeth D. Bozard SC B '27
Stabile No. 1572 | Civil eng'g

Therresa Sharlene Budihardjo MI I '26
Stabile No. 1573 | Chemical eng'g

Xiangbo Cai MI A '27
Stabile No. 1552 | Elec. & comp. eng'g

Dahlie R. P. Cañalita MI Z '26
Stabile No. 1574 | Electrical eng'g

Marin E. Cantrell CA A '27
Stabile No. 1575 | Biomedical eng'g

Kailyn N. Carmichael VA B '27
Stabile No. 1558 | Aerospace eng'g

Lauren N. Carnevale NY T '27
Stabile No. 1576 | Biomedical eng'g

William H. Carroll NC Z '28
Stabile No. 1554 | General eng'g

Benjamin Y. Cavanagh NH B '27
Stabile No. 1577 | Computer eng'g

Caden P. Chavalitanonda OK A '27
Brems No. 41 | Aerospace eng'g

Ryan W. L. Chen CO B '27
Brems No. 39 | Aerospace eng'g

Chloe Cheng CA E '27
Forge No. 184 | Materials sci. & eng'g

Kimathi I. Choma KS I '27
Stabile No. 1578 | Biomedical eng'g

Colby K. Christenson ND A '28
Stabile No. 1495 | Indust. & mgmt. eng'g

Phoebe Ellin G. A. Chua PA Z '27
Abriola No. 3 | Biomedical eng'g

Cody Chun IN I '27
Stabile No. 1579 | Computer eng'g

Allison J. Chung GA A '27
Stabile No. 1507 | Mechanical eng'g

Giovanni C. Ciro NJ E '27
Stabile No. 1580 | Elec. & comp. eng'g

Hailey N. Clingan TX A '27
Scribner No. 93 | Environmental eng'g

Dylan M. Conover UT B '27
Stabile No. 1508 | Mechanical eng'g

Ryan A. Crosby AL A '26
Stabile No. 1564 | Mechanical eng'g

Madeleine H. Cunningham CA E '27
Forge No. 183 | Chemical eng'g

Michael D. M. Curry LA A '27
Skaggs No. 32 | Electrical eng'g

Hayden H. Davies MO B '27
AL Power No. 23 | Nuclear eng'g

Margaret R. Davisson SC B '27
Stabile No. 1581 | Biomedical eng'g

Reema Dawar NY A '27
Stabile No. 1582 | Biomedical eng'g

The **Lyons Scholarship** is given in memory of Eddie L. Lyons, *CA II '76*, thanks to gifts from his wife Nancy E. Zeigler-Lyons.

The **Nagel Scholarship** is given in honor of Robert H. Nagel, P.E., *NY A '39*, for his service as Editor & Secretary-Treasurer from 1942-82 and as Secretary-Treasurer Emeritus from 1982-97.

Thomas A. Nelson, *CA A '49*, left a bequest to establish the **Nelson Scholarship**.

The **Pasadyn Scholarship** has been awarded through a gift from Ronald C. Pasadyn, P.E., *OH E '70*, to establish the Judith L. and Ronald C. Pasadyn Scholarship Fund.

The **Record Scholarships** commemorate Leroy E. Record, *KS A '29*, whose generous bequest will provide earnings to support awards in perpetuity.

The **Rushing Scholarships** have been awarded through a gift from Jay A. Rushing, Ph.D., *TX A '76*.

The **Schwaller Scholarship** commemorates Shawn R. Schwaller, *SD A '95*, whose friends and family established a fund in 2007.

A bequest from A. Clayton Scribner, *NY I '29*, permanently endows the **Scribner Scholarships**.

The **Sickafoose Scholarship** is named for Kathleen A. and Robert D. Sickafoose, *IL B '50*, who left a bequest.

Glenn A. Skaggs, *MD B '57*, left a bequest to permanently endow the **Skaggs Scholarships**.

The **Soden Scholarships** were established by Archie D. Soden, *CA A '51*.

The **Spirit of Apollo Scholarship** is supported by an anonymous donor to honor the legacy of the U.S. NASA Apollo program.

The **Stabile Scholarships** are named for Vincent A. Stabile, *NY A '40*.

A corporation sponsors the remaining scholarship:

The Alabama Power Foundation, Inc., made a gift in 1995 to endow an **AL Power Scholarship**.

TBP SCHOLARS

Continued

Dominic M. De La Torre CA Δ '27
Dodson No. 110 | Biomedical eng'g

Zachary P. Dean MT A '27
Stabile No. 1509 | Mechanical eng'g

Olivia R. DeBoer CA Ω '27
Stabile No. 1555 | Engineering

Arianis Delgado Vazquez PR A '27
Stabile No. 1493 | Industrial eng'g

Caroline B. Devlin LA A '27
Rushing No. 6 | Civil eng'g

Sierra N. Dewald OH K '27
Stabile No. 1583 | Civil eng'g

Daniella A. Dordesi MI Θ '27
Stabile No. 1584 | Electrical eng'g

Nicholas P. Dorgan CA Δ '27
Forge No. 189 | Biomedical eng'g

Danielle M. Dougherty FL B '26
Stabile No. 1625 | Mechanical eng'g

Lizi Ebralidze FL B '27
Stabile No. 1510 | Mechanical eng'g

Sabrina Elgazzar NJ A '27
Stabile No. 1585 | Electrical eng'g

Jackson W. Elrick MO A '27
Stabile No. 1511 | Mechanical eng'g

Jonathon D. Falconer SD A '27
Stabile No. 1586 | Biomedical eng'g

Madison C. Fanning IL A '27
Berthold No. 5 | Bioengineering

Nicolena A. Fazio NY Θ '27
Sickafoose No. 16 | Chemical eng'g

Evan W. Fender OH M '27
Stabile No. 1512 | Mechanical eng'g

Dawson A. Finnegan MS A '27
Stabile No. 1513 | Mechanical eng'g

Alyssa I. M. Flores TX Λ '26
Stabile No. 1624 | Mechanical eng'g

Trevor Frank GA Δ '28
Lyons No. 16 | Biochemical eng'g

Luca C. Freise MI Λ '27
Record No. 2118 | Mechanical eng'g

Hunter G. Geibel OH I '27
Stabile No. 1587 | Civil eng'g

Quinton B. Geller PA Δ '27
Stabile No. 1498 | Materials sci. & eng'g

Kia Ghods NJ Δ '27
Stabile No. 1588 | Computer science

Karissa M. Ginoza CA Δ '27
Nelson No. 5 | Mechanical eng'g

Diego Gomez Bello FL B '27
Record No. 2071 | Biomedical eng'g

Nicholas R. Gonzalez TX Θ '27
Stabile No. 1615 | Electrical eng'g

Natalia G. Gonzalez Cerda TX B '27
Stabile No. 1596 | Civil eng'g

Alyson A. Goodwin AL Γ '27
Record No. 2072 | Biomedical eng'g

Owen H. Gray PA A '27
Stabile No. 1591 | Chem. & biomol. eng'g

Supraj Gunda NJ Δ '27
Stabile No. 1606 | Computer science

Eden A. Hall CO A '27
Elovitz No. 3 | Metall. & mat. eng'g

Emily P. Hammer PA I '27
Record No. 2073 | Biomedical eng'g

Jacob M. Hanson IN A '28
Griffin No. 1 | Mechanical eng'g

Steven T. Harris CA Θ '26
Stabile No. 1617 | Biomedical eng'g

Jack A. Hasker NJ Δ '27
Stabile No. 1548 | Oper. res. & fin. eng'g

Kiera Heavey DE A '27
Scribner No. 92 | Environmental eng'g

Kristina N. Heins PA Λ '28
Record No. 2074 | Bioengineering

Diego E. Hernandez Parets FL B '27
Record No. 2075 | Biomedical eng'g

Khufu M. Holly Jr. SC B '27
Record No. 2076 | Biomedical eng'g

Jonathan R. Hood NJ A '27
Stabile No. 1605 | Mechanical eng'g

Benjamin R. Horner SD B '27
Stabile No. 1597 | Civil & environ. eng'g

Madelyn Hotaling FL A '27
Stabile No. 1515 | Mechanical eng'g

Dakota K. Hudson OK Γ '27
Stabile No. 1616 | Electrical eng'g

Amy V. Ianev CA Y '27
Rushing No. 4 | Civil eng'g

Lydia V. Iliev CO Δ '27
Rushing No. 5 | Civil eng'g

Benjamin D. Isaacson TX A '28
Record No. 2077 | Biomedical eng'g

Nora Q. Jennings KS A '27
Record No. 2078 | Chemical eng'g

Elizabeth I. Jenulis PA A '27
Record No. 2079 | Bioengineering

Matthew S. Jones KY A '27
Stabile No. 1607 | Computer science

Sulayman A. Khan MD B '27
Dodson No. 106 | Bioengineering

Hunter J. Kilgore AL E '27
Dechman No. 12 | Chemical eng'g

Olivia A. King MO E '27
Record No. 2080 | Biomedical eng'g

Osemudiam B. Kingsley-Odia NY P '27
Stabile No. 1592 | Chem. & biomol. eng'g

Leance K. Kiningu LA Γ '27
Skaggs No. 33 | Electrical eng'g

Gunnar H. Kirk GA A '27
Stabile No. 1516 | Mechanical eng'g

Noelle A. Klima IL A '28
Scribner No. 91 | Environmental eng'g

Jason A. Koenings FL B '27
Record No. 2081 | Biomedical eng'g

Buse Koldas MD A '27
Stabile No. 1593 | Chem. & biomol. eng'g

Henry E. C. Kopp MN A '27
Stabile No. 1517 | Mechanical eng'g

Grace W. Korkmaz MI A '26
Stabile No. 1598 | Civil eng'g

TBP SCHOLARS

Continued

Melody J. Kusters AZ A '27
Record No. 2082 | Biomedical eng'g

Nadia P. Krueger FL I '27
Stabile No. 1518 | Mechanical eng'g

Michael L. Krumland-Dunning CA Σ '27
Record No. 2083 | Computer eng'g

William E. Kunzendorf FL A '27
Stabile No. 1519 | Mechanical eng'g

Pei-Pei Kuo CA T '27
Forge No. 187 | Chemical eng'g

Adekunmi O. Lala PA Z '27
Stabile No. 1520 | Mechanical eng'g

Lauren J. Lamberson NY Γ '27
Record No. 2119 | Biomedical eng'g

James H. Lee RI A '27
Record No. 2085 | Chemical eng'g

Rachel Lee NY I '27
Record No. 2084 | Chemical eng'g

Rachel Y. Lee CA A '27
Forge No. 180 | Materials sci. & eng'g

Brayden J. Lexow KS Γ '27
Stabile No. 1590 | Biological sys. eng'g

Yutong Liang NC Γ '27
Stabile No. 1601 | Elect. & comp. eng'g

Nathan S. Liu CA A '27
Forge No. 178 | Chemical eng'g

Emma K. Lovell MS A '27
Record No. 2086 | Biomedical eng'g

Jomyuth Luangtana-anan NY P '27
Stabile No. 1599 | Civil eng'g

Amanda C. Luyks CA Θ '27
Stabile No. 1521 | Mechanical eng'g

Benjamin S. Lynch NY Y '27
Stabile No. 1550 | Systems eng'g

Sara B. Maggio OH A '27
Record No. 2087 | Biomedical eng'g

Samantha T. Magowo NY K '27
Record No. 2088 | Biomedical eng'g

Sambhav Maloo IL A '29
Fue No. 3 | Material science

Abigail M. Marciniak CA T '27
Forge No. 188 | Biomedical eng'g

Jonathan H. Martinez NM B '27
Campbell No. 62 | Mechanical eng'g

Miriya Mayenkar CA A '27
Forge No. 177 | Bioengineering

Mallory E. McCarron IA B '27
Record No. 2089 | Biomedical eng'g

Kelly E. McConekey NC A '27
Stabile No. 1522 | Nuclear eng'g

Colt J. McGuire CA T '27
Stabile No. 1523 | Mechanical eng'g

Kelsey L. McLennan MI A '27
Stabile No. 1560 | Applied eng'g sci.

Benjamin D. Mechels MN A '29
Stabile No. 1608 | Computer science

Elanor L. Mehen OK Γ '27
Stabile No. 1496 | Indust. eng'g & mgmt.

Nicholas Miller TX E '27
Stabile No. 1549 | Petroleum eng'g

Ahan B. Mishra NY Δ '26
Stabile No. 1609 | Computer science

JohnPaul E. Mitiguy IN Γ '27
Stabile No. 1525 | Mechanical eng'g

Rusheel R. Mittakanti TX E '27
Record No. 2090 | Biomedical eng'g

Evan P. Moffett PA B '27
Stabile No. 1499 | Materials sci. & eng'g

Blayne Montaque DC A '27
Stabile No. 1526 | Mechanical eng'g

Julia D. Montgomery WI A '29
Record No. 2091 | Biomedical eng'g

Ajani A. Moss DC A '27
Soden No. 34 | Chemical eng'g

Ntsika Mtwa RI A '27
Stabile No. 1527 | Mechanical eng'g

John D. Muhlnner OH A '27
Stabile No. 1528 | Mechanical eng'g

Samantha P. Muller IL B '27
Stabile No. 1561 | Architectural eng'g

Felix Munoz Rodriguez MA H '27
Record No. 2092 | Biomedical eng'g

Grace D. Murphy CA M '27
Forge No. 186 | Mechanical eng'g

Jack A. Myers SD A '27
Stabile No. 1529 | Mechanical eng'g

Ajay Narayan TX A '27
Record No. 2093 | Biomedical eng'g

Luan M. D. Nguyen OK B '27
Stabile No. 1618 | Elec. & comp. eng'g

Martin Nguyen CA H '28
Brems No. 38 | Aerospace eng'g

Matthew H. Nguyen MA K '27
Skaggs No. 34 | Electrical eng'g

Nathan H. Nguyen MI Z '27
Stabile No. 1530 | Mechanical eng'g

Tristan L. Niewenhuis SD A '27
Record No. 2094 | Computer eng'g

Maria G. Obert KY A '29
Record No. 2095 | Biomedical eng'g

Abbie E. O'Brien NY Θ '27
Record No. 2096 | Chemical eng'g

Diego Ocaranza Nuñez PA Δ '27
Record No. 2097 | Bioengineering

Logan H. Oden OH Γ '27
Beans No. 4 | Comp. sci. & eng'g

Carlos S. Olmedo Iñiguez FL A '27
Record No. 2098 | Chemical eng'g

Mazin Omer WV A '26
Stabile No. 1551 | Mech. & aero. eng'g

Evelyn R. Osborn MN B '28
Record No. 2099 | Chemical eng'g

Grant C. Ozaki NC A '27
Stabile No. 1500 | Materials sci. & eng'g

Alaric Y. Pan GA A '27
Skaggs No. 30 | Electrical eng'g

Yutong "Michelle" Pan CA E '27
Alford No. 30 | Electrical eng'g

Nicholas B. Pappas OH Γ '26
Farmer Family No. 3 | Comp. sci. & eng'g

TBP SCHOLARS

Continued

James W. Parker Jr. TX A '28
Record No. 2100 | Biomedical eng'g

Maddox J. Parsons KY A '27
Record No. 2101 | Chemical eng'g

Tyler C. Patay CO B '28
Record No. 2102 | Biomedical eng'g

Jordan K. Payne AZ B '27
Stabile No. 1547 | Mechanical eng'g

Daniela Y. Pérez Oliveras PR A '28
Stabile No. 1531 | Mechanical eng'g

Kathleen L. Perry OH Δ '27
Stabile No. 1532 | Mechanical eng'g

Elizabeth A. Perusse ND Δ '28
Stabile No. 1533 | Mechanical eng'g

Haidyn P. Peterson OK A '27
Stabile No. 1610 | Computer science

Khue N. Phan GA A '27
Stabile No. 1594 | Chem. & biomol. eng'g

Mariana Prado IL Γ '27
Stabile No. 1494 | Industrial eng'g

Eduardo Prado Flores NY A '27
Stabile No. 1534 | Mechanical eng'g

Mason G. Rabtzw NJ Z '27
Record No. 2103 | Computer eng'g

Saket P. Ram PA Δ '27
Record No. 2104 | Bioengineering

Hansini Ramachandran CA Δ '27
Nelson No. 6 | Elec. & comp. eng'g

Tanusri Ramakrishnan NJ B '27
Stabile No. 1602 | Elec. & comp. eng'g

Frederick A. Raquet OH N '27
Stabile No. 1619 | Electrical eng'g

Brianna L. Reid MA Δ '27
Stabile No. 1600 | Civil eng'g

Max C. Richardson RI B '27
Stabile No. 1535 | Mechanical eng'g

Kaylee P. Roberts IN Δ '27
Stabile No. 1536 | Mechanical eng'g

Emma G. Roden MS A '27
Record No. 2105 | Biomedical eng'g

Nathan J. Roe MN A '27
Stabile No. 1611 | Computer science

Zach J. Rogers IN A '27
Stabile No. 1537 | Mechanical eng'g

Zachary G. Rubenzahl PA E '27
Stabile No. 1538 | Mechanical eng'g

Ethan R. Rudman WI Δ '27
Record No. 2106 | Biomedical eng'g

Lucy Rudolph VA E '27
Stabile No. 1595 | Chem. & life sci. eng'g

Gavin P. Russo AZ B '27
Stabile No. 1539 | Mechanical eng'g

Ahmad A. Saad UAE A '26
Stabile No. 1505 | Computer eng'g

Xzavier D. Sablan CA Ω '27
Stabile No. 1556 | Engineering

Gehres C. Sakadales FL A '26
Stabile No. 1506 | Mechanical eng'g

Mya L. Schlepp WA A '27
Scribner No. 94 | Environmental eng'g

Elizabeth L. Schloss OH Θ '27
Record No. 2107 | Chemical eng'g

Sophia G. Schoch IN Δ '27
Stabile No. 1540 | Mechanical eng'g

John W. Schoonenberg IV CO A '27
Schwaller No. 16 | Mechanical eng'g

Jessica Slaughter MD Δ '27
Dodson No. 108 | Computer eng'g

Kassidy E. Smith MA E '27
Record No. 2108 | Bioengineering

Noah E. Smith NC Z '26
Stabile No. 1514 | Biomedical eng'g

Thea L. Spellmeyer PA Γ '27
Pasadyne No. 5 | Chemical eng'g

Kiley F. Stahl RI B '27
Record No. 2109 | Biomedical eng'g

Sydney M. Stapleton GA B '27
Scribner No. 95 | Environmental eng'g

Lauren E. Starr IN Γ '27
Stabile No. 1541 | Mechanical eng'g

Alexis Stus TX I '27
Stabile No. 1553 | Elec. & comp. eng'g

Venkat Subramanian NJ Δ '27
Stabile No. 1612 | Computer science

Jack C. Sullivan SC B '27
Stabile No. 1559 | Aerospace eng'g

Evelyn Sun NY O '27
Stabile No. 1613 | Computer science



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TBP SCHOLARS

Continued

Julianne H. Sweet OH Ξ '27
Record No. 2110 | Biomedical eng'g

Rhyder P. Swen OH A '27
Stabile No. 1614 | Computer science

John P. Szczublewski NY Π '27
Stabile No. 1620 | Electrical eng'g

Eliza S. M. Tabachnik RI A '27
Stabile No. 1542 | Mechanical eng'g

Sarah M. Tague MO A '26
Stabile No. 1524 | Biomedical eng'g

Tooba Tanveer TN Z '28
Stabile No. 1543 | Mechanical eng'g

Keane J. Tao VA A '27
Record No. 2111 | Biomedical eng'g

Mallory Thomas NY A '27
Scribner No. 90 | Earth & environ. eng'g

Meredith N. J. Tiderington IN A '27
Skaggs No. 31 | Electrical eng'g

Kathryn E. Tracy IN Δ '27
Stabile No. 1563 | Biomechanical eng'g

Grant L. Trazo CA Θ '27
Alford No. 31 | Electrical eng'g

Trevor J. Tucker LA Γ '27
Stabile No. 1544 | Mechanical eng'g

Blake M. Tumpey GA Δ '27
Stabile No. 1589 | Biological eng'g

Alexis G. Vallier NY Γ '27
Farmer Family No. 4 | Elec. & comp. eng'g

Katrin H. Vilinsky PA Γ '27
Record No. 2112 | Chem. & biom. eng'g

An X. Vo TX A '27
Record No. 2113 | Biomedical eng'g

Cheng-Yu Wang MA Z '27
Stabile No. 1622 | Electrical eng'g

David Wang NJ Δ '27
Stabile No. 1603 | Elec. & comp. eng'g

Guido Wanschelbaum SD A '27
Stabile No. 1497 | Industrial eng'g

Kylie S. Weems NC Z '27
Stabile No. 1557 | Engineering

Erika A. Weidner TX B '27
Record No. 2114 | Chemical eng'g

Julia M. Werther LA A '27
Rushing No. 7 | Civil eng'g

Bryleigh E. Wickham LA Γ '27
Record No. 2115 | Biomedical eng'g

Maxwell W. Wickland OH A '27
Stabile No. 1623 | Electrical eng'g

Kylie A. Wishneski PA A '27
Record No. 2116 | Bioengineering

Kyle P. Wodehouse DE A '27
Soden No. 35 | Chemical eng'g

Pattaraphon Wongchamcharoen CAA '27
Forge No. 179 | Ind. eng'g & opp. res.

Kendal M. Wright TN A '27
Stabile No. 1545 | Mechanical eng'g

Shuyi Yan MD A '27
Bloomberg No. 20 | Biomedical eng'g

Aijia Yang CA Ψ '27
Stabile No. 1546 | Mechanical eng'g

Lexi R. Yearout OH B '27
Stabile No. 1621 | Civil eng'g

Samantha A. Zaloudek MI A '27
Record No. 2120 | Chemical eng'g

Mohammad Zanganeh Niazab VA Δ '27
Stabile No. 1604 | Elec. & comp. eng'g

Athena P. Zapantis MD A '27
Rushing No. 8 | Civil eng'g

Vivian Zhang GA A '27
Brems No. 40 | Aerospace eng'g

Ellen Zheng MA H '27
Record No. 2122 | Computer eng'g

Iris Zheng MD A '27
Record No. 2121 | Biomedical eng'g

Ellen S. Zulkarnain CA E '27
Forge No. 185 | Mechanical eng'g

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CHAPTER ENDOWMENT INITIATIVE

The Chapter Endowment Initiative (CEI) program, launched in Spring 2014, allows alumni, companies, and foundations to permanently endow the Association's activities that support any of our 259 active collegiate student chapters.

Newly Received Gifts & Pledges

Henry "Hank" Herzing, Ph.D., IL Γ '59

ILLINOIS GAMMA — **\$107,416**

Northwestern University

Tina and Michael Pierce, CO A '89/'90

COLORADO ALPHA — **\$30,000**

Colorado School of Mines

Richard L. Berkman, P.E., CDR USN (ret.),

VERMONT BETA — **\$25,000** (VT B '69)

Norwich University

Nick A. Farmer, MD B '68

TEXAS DELTA — **\$25,000**

Texas A&M University

Robin D. Becker, Ph.D., NY K '76

NEW YORK KAPPA — **\$20,000**

The University of Rochester

David D. Kilzer, IA A '96

IOWA BETA — **\$20,000**

University of Iowa

Rick O. Ayres, IL Γ '79

INDIANA DELTA — **\$5,195**

Valparaiso University

MINNESOTA ALPHA — \$5,195

University of Minnesota-Twin Cities

Gregory L. Fennes, NY Δ '79

ILLINOIS ALPHA — **\$7,500**

University of Illinois at Urbana-Champaign

David J. Cowan Jr., P.E., FL E '14

FLORIDA EPSILON — **\$5,000**

Florida Atlantic University

Brian M. Crawford, IA A '04

MINNESOTA ALPHA — **\$5,000**

University of Minnesota-Twin Cities

Cherri M. and Jack W. Musser, CO A '72

COLORADO ALPHA — **\$5,000**

Colorado School of Mines

Edward S. Pierson, NY B '58

NEW YORK BETA — **\$5,000**

Syracuse University

Barbara and †Ralph A. Rockow, OH Γ '58

ANY CHAPTER — **\$5,000**

Robert L. Smialek, OH A '65

OHIO ALPHA — **\$5,000**

Case Western Reserve University

MINIMUM GIFT AMOUNT:

The minimum gift being accepted for this initiative is \$5,000. All checks received that are designated for this initiative in an amount less than \$5,000 will be paid into Tau Beta Pi's annual fund which supports the same programs as the initiative.

HOW YOU CAN HELP:

There are a number of ways to support this initiative. Checks can be made to: Tau Beta Pi – The Engineering Honor Society
Attention: Curtis Gomulinski,
Executive Director, P.O. Box 2697,
Knoxville, TN 37901-2697.
Other options include gifts of highly appreciated stock held for over one year as well as matching gifts, IRA rollover gifts, and including Tau Beta Pi in your estate plans.

TAX-DEDUCTIBLE:

Gifts through this initiative will be reflected in an individual's total giving to TBPI. As a non-profit organization, we are exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Code. Your gift is tax-deductible to the full extent allowed by law.

Endowed Chapters (38) with \$100,000 or more in cash & pledges:

ARIZONA ALPHA

Univ. of Arizona — **\$105,000**

CALIFORNIA DELTA

Univ. of Southern California — **\$100,000**

CALIFORNIA EPSILON

Univ. of California, LA — **\$100,000**

CALIFORNIA UPSILON

CA State Univ., Sacramento — **\$100,000**

COLORADO ALPHA

Colorado School of Mines — **\$125,000**

COLORADO ZETA

U.S. Air Force Academy — **\$100,000**

FLORIDA GAMMA

Univ. of South Florida — **\$105,000**

FLORIDA ZETA

Florida Inst. of Tech. — **\$104,000**

ILLINOIS ALPHA Univ. of Illinois at

Urbana-Champaign — **\$195,020**

ILLINOIS GAMMA

Northwestern Univ. — **\$138,273**

INDIANA GAMMA

Univ. of Notre Dame — **\$125,000**

IOWA ALPHA

Iowa State Univ. — **\$110,289**

LOUISIANA ALPHA

Louisiana State Univ. — **\$100,000**

MARYLAND BETA

Univ. of Maryland — **\$135,000**

MASSACHUSETTS BETA

MIT — **\$103,000**

MICHIGAN BETA

Michigan Tech. Univ. — **\$100,000**

MICHIGAN GAMMA

Univ. of Michigan — **\$204,912**

MICHIGAN EPSILON

Wayne State Univ. — **\$250,000**

MICHIGAN ZETA

Kettering Univ. — **\$100,000**

MISSISSIPPI ALPHA

Mississippi State Univ. — **\$125,000**

MISSOURI BETA

Missouri Univ. of S&T — **\$125,000**

MISSOURI GAMMA

Washington Univ. — **\$100,000**

NEW JERSEY ALPHA

Stevens Institute of Tech. — **\$105,228**

NEW JERSEY DELTA

Princeton Univ. — **\$100,000**

NEW YORK BETA

Syracuse Univ. — **\$107,357**

NEW YORK GAMMA

Rensselaer Polytechnic Inst. — **\$110,000**

NEW YORK DELTA

Cornell Univ. — **\$105,000**

OHIO ALPHA

Case Western Reserve Univ. — **\$105,000**

OHIO BETA

Univ. of Cincinnati — **\$100,000**

OHIO GAMMA

Ohio State Univ. — **\$100,000**

OHIO EPSILON

Cleveland State Univ. — **\$100,000**

SOUTH DAKOTA ALPHA

SD Mines — **\$204,675**

TENNESSEE ALPHA

Univ. of Tennessee — **\$105,000**

TEXAS ALPHA

Univ. of Texas at Austin — **\$200,000**

TEXAS BETA

Texas Tech Univ. — **\$100,113**

VIRGINIA ALPHA

Univ. of Virginia — **\$115,000**

WEST VIRGINIA BETA

West Virginia Tech. — **\$108,000**

WYOMING ALPHA

Univ. of Wyoming — **\$100,000**



The goal of the Chapter Endowment Initiative is to endow all collegiate chapters to provide permanent funding for the activities that benefit the students of those chapters. Chapters with support above \$80,000 are eligible to receive grants for their activities; Headquarters will contact the chapters once funding is available. Cash and pledges are listed below.

ALABAMA ALPHA
\$15,000

ALABAMA GAMMA
\$40,000

ALABAMA DELTA
\$5,000

ALABAMA EPSILON
\$5,000

ARIZONA BETA
\$10,000

ARKANSAS ALPHA
\$5,000

CALIFORNIA ALPHA
\$50,000

CALIFORNIA BETA
\$50,084

CALIFORNIA GAMMA
\$72,000

CALIFORNIA ZETA
\$82,000

CALIFORNIA ETA
\$35,000

CALIFORNIA THETA
\$5,000

CALIFORNIA LAMBDA
\$5,000

CALIFORNIA MU
\$5,000

CALIFORNIA NU
\$5,000

CALIFORNIA SIGMA
\$10,000

CALIFORNIA TAU
\$5,000

CALIFORNIA PSI
\$40,000

COLORADO BETA
\$25,000

CONNECTICUT BETA
\$5,000

DELAWARE ALPHA
\$10,000

D.C. ALPHA
\$5,000

FLORIDA ALPHA
\$15,000

FLORIDA BETA
\$10,000

FLORIDA EPSILON
\$19,659

GEORGIA ALPHA
\$60,886

ILLINOIS BETA
\$5,000

INDIANA ALPHA
\$50,000

INDIANA BETA
\$10,000

INDIANA DELTA
\$30,195

INDIANA EPSILON
\$30,000

IOWA BETA
\$55,000

KANSAS BETA
\$5,000

KENTUCKY ALPHA
\$40,000

LOUISIANA BETA
\$10,000

LOUISIANA GAMMA
\$5,508

LOUISIANA EPSILON
\$15,000

MARYLAND ALPHA
\$12,500

MARYLAND GAMMA
\$10,000

MARYLAND EPSILON
\$5,000

MASSACHUSETTS EPSILON
\$5,000

MASSACHUSETTS THETA
\$10,000

MICHIGAN ALPHA
\$50,000

MICHIGAN ETA
\$5,075

MICHIGAN IOTA
\$8,040

MICHIGAN LAMBDA
\$10,000

MINNESOTA ALPHA
\$55,195

MONTANA ALPHA
\$5,000

NEBRASKA ALPHA
\$75,000

NEW HAMPSHIRE BETA
\$10,200

NEW MEXICO BETA
\$20,000

NEW MEXICO GAMMA
\$8,000

NEW YORK ETA
\$5,000

NEW YORK THETA
\$20,000

NEW YORK KAPPA
\$47,571

NEW YORK MU
\$15,000

NEW YORK NU
\$5,000

NEW YORK RHO
\$5,725

NORTH CAROLINA EPSILON
\$5,000

OHIO DELTA
\$35,000

OHIO IOTA
\$5,000

OHIO MU
\$10,000

OKLAHOMA GAMMA
\$5,000

OREGON ALPHA
\$10,000

PENNSYLVANIA BETA
\$45,301

PENNSYLVANIA GAMMA
\$5,000

PENNSYLVANIA DELTA
\$5,000

PENNSYLVANIA ZETA
\$10,000

PENNSYLVANIA ETA
\$10,000

PENNSYLVANIA THETA
\$50,000

PENNSYLVANIA MU
\$5,000

PENNSYLVANIA LAMBDA
\$30,000

PUERTO RICO ALPHA
\$15,000

RHODE ISLAND ALPHA
\$20,000

RHODE ISLAND BETA
\$20,000

TENNESSEE BETA
\$10,000

TEXAS GAMMA
\$5,000

TEXAS DELTA
\$55,000

TEXAS EPSILON
\$50,389

TEXAS ZETA
\$15,000

TEXAS ETA
\$15,000

TEXAS THETA
\$5,000

TEXAS IOTA
\$5,000

TEXAS KAPPA
\$5,000

TEXAS LAMBDA
\$10,000

TEXAS NU
\$40,031

UTAH ALPHA
\$5,000

VERMONT ALPHA
\$10,000

VERMONT BETA
\$55,000

VIRGINIA BETA
\$90,069

VIRGINIA EPSILON
\$30,000

WASHINGTON ALPHA
\$20,000

WISCONSIN ALPHA
\$53,120

WISCONSIN BETA
\$5,000

WISCONSIN GAMMA
\$5,000

WISCONSIN EPSILON
\$5,000

ANY CHAPTER
\$60,000

THE CHAPTER ENDOWMENT INITIATIVE:

You can learn more about the progress and developments of the CEI on our website, <https://www.tbp.org/?CEI> or by contacting Director of Development & Communications Sherry Jennings-King, *TN Alpha '93*, by phone at **(612) 226-2922** or by email at s.jennings-king@tbp.org.



Chapter Endowment Initiative Challenge Matches

There are currently seven open challenge matches where alumni have stepped forward to incentivize giving from alumni. The minimum amount accepted for a match is \$5,000.



Daniel M. Brandt, IN D '74, launched a challenge match of \$20,000 toward the endowment of the Indiana Delta Chapter at Valparaiso University. One gift was procured and three more gifts of \$5,000 are needed to complete this challenge.



University of Rochester

Robin D. Becker, Ph.D., NY K '76, initiated a challenge match of \$20,000 toward the endowment of the New York Kappa Chapter at The University of Rochester. Four gifts of \$5,000 are needed to complete this challenge.



David D. Kilzer, IA A '96, launched a challenge match of \$20,000 toward the endowment of the Iowa Beta Chapter at the University of Iowa. Four gifts of \$5,000 are needed to complete this challenge.



Robert H. Tolson, VA B '58, launched a challenge match of \$25,000 toward the endowment of the Virginia Beta Chapter at Virginia Tech. To date, three matches have been received — two more are needed to complete this challenge.



UNIVERSITY OF MINNESOTA

James B. Planeaux, Ph.D., IN G '82, initiated a challenge match of \$20,000 toward the endowment of the Minnesota Alpha Chapter at the University of Minnesota-Twin Cities. Two gifts were made and two gifts of \$5,000 are needed to complete this challenge.



**TEXAS A&M
UNIVERSITY®**

Nick A. Farmer, MD B '68, initiated a challenge match of \$25,000 toward the endowment of the Texas Delta Chapter at Texas A&M University. Five gifts of \$5,000 are needed to complete this challenge.



Robert "Dudley" White, VA A '76, initiated a challenge match of \$20,000 toward the endowment of the Virginia Epsilon Chapter at Virginia Commonwealth University. Two gifts have been received and two more gifts of \$5,000 are needed to complete this challenge.

Henry “Hank” Herzing

IL Gamma '59

*Paul H. and Henry G. Herzing Endowment for the
Illinois Gamma Chapter at Northwestern University.*

In 2025, Herzing University celebrated their 60th anniversary, with campuses in multiple states across the country, online coursework, and a nursing program. However, Hank Herzing did not plan to found a university, let alone study engineering.

“I had no idea what an engineer was. The only engineer I knew of was the guy who was running the train that went by our house.”

His family’s wishes for him to go to college were a “driving force.” His brother went to nearby Northwestern University, the closest school with an engineering program. Hank was good at math, so he went there as well, attending on an ROTC scholarship.

He had an interest in atomic physics, protons, synchrotrons & cyclotrons, and landed a co-op job at Argonne National Laboratory in the physics department. He worked with a Van de Graaff generator, and designed an effective magnetic device with the assistance of personnel in the machine office and technicians. Herzing notes that this teamwork was critical to his work being successful; an important lesson for engineers to understand, “I enjoyed that system of being able to put something together and getting the other people involved to get it done.”

He was initiated into Tau Beta Pi in 1959 and saw it largely as an honorary recognition. After school, his U.S. Navy service brought him to White Sands Missile Range in New Mexico, a “very formative” experience as he recalls it. “What I learned is, if I have a really strong feeling about something, I’ve got to stick with it.”

After the Navy, he went to work at Litton Industries, where they were providing navigation equipment for what was nicknamed the “computer plane” (an A6A all-weather attack plane). The work was exhausting, but he designed a successful noise filter and troubleshooting procedures.

In 1964, he came across a fortuitous advertisement in the *New York Times* — a job listing for a computer school director. With his wife being a teacher,



Hank Herzing

they envisioned it could be a good match for their family, and sent off for information. It turned out to be a franchise, and soon enough he was the director of the Electronic Computer Programming Institute in Milwaukee, which would become Herzing College in 1996.

The early years saw ups and downs, but the school eventually grew steadily, expanding geographically and diversifying their programs. One of the best, yet unexpected discoveries of the job is the “metamorphosis” he’s observed in thousands of students. “We found out that we just changed their whole image and self-confidence level. This is much more than just training people. You’re giving them a whole new outlook on their lives and what they’re capable of.”

He recounts the story of a Herzing College student whose family told her she should drop out because it would be too difficult. He observed an instructor encouraging her to stay, and the difference this supportive, caring environment made. “A couple of years later, she came back all dressed up and said, ‘They’re sending me to Europe on a project.’ That was the tangible enjoyment.”

“It’s been a really great ride, a real joy,” Hank says. “I don’t think I would have enjoyed anything more than what I’ve done.” Herzing says he took notice that Tau Beta Pi had become more active. He respects that it’s a recognition of



Paul Herzing

academic achievement, and focuses his philanthropy on “educational endeavors,” so, the Chapter Endowment Initiative was a fitting choice. Hank’s generous gift memorializes his brother, Paul, and endows the IL Gamma Chapter at Northwestern University. He strongly believes in the importance of engaging with contemporaries in the real world, an experience made available in organizations like Tau Beta Pi.

“[In] the classroom, you learn the technical aspects, but the real life aspects accomplishing something, working with people — you’re going to learn from working together.” The opportunity to hear different perspectives is also crucial. “Just like in engineering, there may be a couple different ways to solve the problem,” he points out.

His advice for students is to diversify their knowledge, and never stop pursuing education. Herzing lives by this, having picked up windsurfing and voice lessons — he can now sing in multiple languages. Graduating from college is “just the beginning of the learning process,” he says. “Keep studying because it’s going to be more satisfying to you. And you’re probably going to have a more successful life, both from a standpoint of your own feeling of success and accomplishments, as well as what you can do. I look at life as being a journey to try to develop all your talents.”

Tina & Michael Pierce

CO Alpha '89/'90

*Tina L. and Michael C. Pierce Endowment for the Colorado Alpha Chapter
at Colorado School of Mines.*

Tina and Michael Pierce met at Colorado School of Mines. Both were chemical engineering majors at the fairly small campus and they frequently crossed paths. First, they shared a calculus class, where Tina often did homework for other courses having already mastered calculus in high school, Michael points out. Tina always liked science and math, and her sixth grade teacher even told her parents that she'd make a great engineer. At Mines, she diligently concentrated on her studies, and enjoyed the closeness of the Mines community.

Michael describes himself as "always a geek in school" and "science-oriented." He spent a lot of time programming on his computer and excelled at science. Mines was nearby, fit his academic interests, and his brother attended, so it was a logical next step. He juggled marching band ("music was my outlet," he explains) and part-time jobs, including programming for the National Center for Atmospheric Research in Boulder, alongside his classes through college. The Colorado Alpha Chapter at Mines wasn't particularly active at the time, but they recognized the invitation as an academic achievement and knew it would look impressive on their resumes.

After graduating in 1989, Tina went to work for Phillips Petroleum Company in the upstream drilling and production division, working with compressors and gas gathering systems. In 1995, she decided it was a good time to raise her family, and has no regrets. "She raised a really smart daughter of ours," Michael says.

Michael received a second bachelor's degree in mathematics with computer science, graduating in 1990. He started out at ARCO Oil & Gas as a facilities and production engineer before joining Ortloff Engineers LTD as a process engineer.



He continued with Ortloff (which was sold to Honeywell in 2022) until his retirement, eventually becoming senior engineering manager of Natural Gas Liquids (NGL) Technologies. He did plant design for cryogenic NGL processing and some geothermal consulting, and points out that it was ultimately a technology company. His position combined his expertise in chemical engineering with computers. "We called it the fun job. It was basically computer simulations all the time," he says. He appreciated the small business environment and was "always driven to do something new and creative."

The Pierces' renewed connection to Tau Beta Pi was thanks to *The Bent* magazine. Tina subscribed and stayed up to date on the Association, reading the issues cover to cover. "I came to appreciate what Tau Beta Pi does," she says, and was particularly impressed by the introduction of the K-12 MindSET program. When the Front Range Alumni Chapter reactivated in 2012, they were at the first meeting. "Accessibility of [the] administration" and the general personality of the organization further encouraged them to get involved.

Over several years, they contributed to their alma mater's Chapter Endowment Initiative (CEI) fund before fully endowing it this year. "We're honored that we're able to make a contribution," Tina shares. They like that their generosity goes towards sending students to Convention and creating a student experience that they may not have had. "I think it can help them interact with the community around them and maybe inspire younger students to become engineers, and we can always use more engineers," she says. Michael notes that it was Tina's idea to start supporting the CEI program, and while it's a joint gift, he specifically wanted her name to go first.

As alumni, they value interacting with other engineers who "think like we do" and share that "common thread." Whether touring chemical plants or attending baseball games, their involvement is both educational and a social outlet. Tina currently serves as Front Range Alumni Chapter vice president.

The couple enjoys running, cooking, traveling, and home renovation projects. They both appreciate the opportunity to interact with Tau Bates at nearby schools, and offer advice for aspiring engineers:

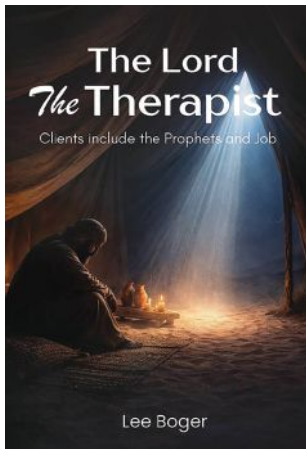
- Learn a little bit about a lot of things.
- Know what's going on around you.
- Don't be so focused on your particular specialty that you don't realize who may affect you or who you may affect.
- It's very important to know where you fit into the whole process.

"If you get an opportunity to try something different, not necessarily in your field of study, but something related — do it. Just try to get all the experiences you can, because it will probably help you at some point in the future," Tina advises. "You can learn something new from everyone you meet," she adds.

Authors

Recently published a book? If so, we would like to recognize you! Send details and a cover image to d.lane@tbp.org.

Note: Due to the popularity of this section, submissions are first come, first served, as room allows. Thanks!



Lee C. Boger
Michigan Zeta '80

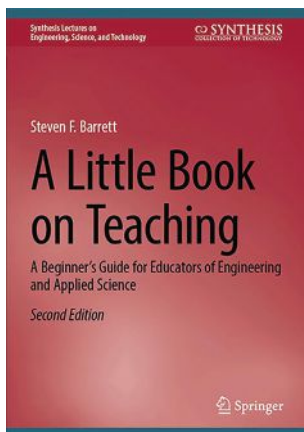
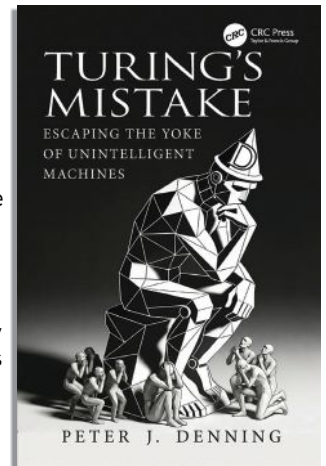
The Lord The Therapist

Have you ever considered the Lord as a therapist? An effective therapist listens, earns your trust, validates your emotions, and helps you process life's challenges toward healing and growth. This book describes how the Lord engaged with the Prophets and Job to help them manage their emotions, which included depression, anxiety, loss, and anger. Lee has 14 years of experience in automotive crash sensing applications and works as an expert witness.

Peter J. Denning, Ph.D.
New York Xi '64

Turing's Mistake

The quest for Artificial General Intelligence (AGI) is based on two assumptions: human intelligence is computational & does not require a living body. Most human intelligence depends on tacit knowledge, which we can act on but not describe, and cannot encode into a machine. AGI is leading to a society in which low-intelligence machines coerce us into practices we do not choose. Reclaiming our humanity is the key to escaping this yoke. Professor Denning has authored 14 books and is ACM past president.



Steven F. Barrett, Ph.D., P.E.
Colorado Zeta '79

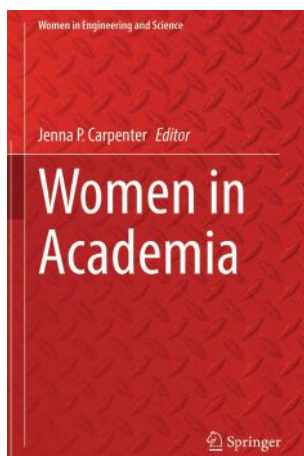
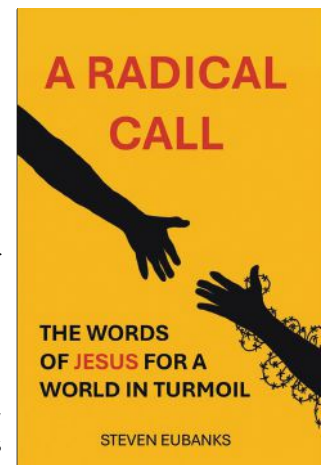
A Little Book on Teaching: A Beginner's Guide for Educators of Engineering and Applied Science

Steve has released a new edition of his book, originally published in 2012 as part of the "Synthesis Lectures on Engineering, Science and Technology" series. Intended to give guidance to new faculty members in engineering and applied sciences as they begin their careers in the classroom, it also contains information for seasoned teachers. Steve is the University of Wyoming COE associate dean.

Steven E. Eubanks, P.E. (ret.)
Texas Eta '95

A Radical Call: The Words of Jesus for a World in Turmoil

This radical call challenges our comfortable lives, priorities, and our prejudices. It is not so much a call to be a missionary or minister but to let go of all that we hold dear so that we can bring hope to the hopeless and good news to a world in need. Steven recently retired, previously worked in several positions in the City of Fort Worth's Stormwater program, and formerly served as co-chairman of the Texas Floodplain Management Association's Stormwater Committee.



Jenna P. Carpenter, Ph.D.
Indiana Alpha '83

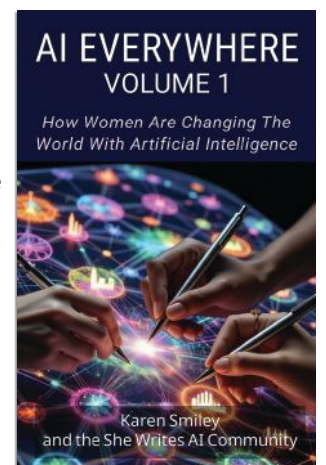
Women in Academia

Published by Springer Nature, the book provides an overview of the history and contributions of academic women in engineering and computer science, both within their own institutions, as well as at the national level. The current status of these women's accomplishments, challenges, and opportunities for the future are also included. Dr. Carpenter served as the sole editor and wrote a chapter on "Academic Women in the National Academy of Engineering."

Karen J. Smiley
Pennsylvania Lambda '82

AI Everywhere, Volume 1: How Women Are Changing The World With Artificial Intelligence

After a 30+ year career in corporate R&D leading and contributing to 14 U.S. patents, Karen founded the She Writes AI Community (shewritesai.org) of people in 60+ countries writing about AI and data. This series offers accessible human-centered guides to living and working in an age of intelligent machines, authored by experts. Each volume helps readers learn how to use AI as a practical tool without losing their creativity.



IN THE COLLEGES

Tau Bates having an impact at institutions of higher learning.

Mahesh Banavar Ph.D.

New York Theta '10

Mahesh has been appointed academic dean at Clarkson University. In this role, he'll lead the faculty in advancing education and research connecting technical excellence with meaningful impact. Mahesh is also a professor of electrical & computer eng'g having joined Clarkson in 2014. A leader in STEM education, he researches signal processing, machine learning, and artificial intelligence.



Allison M. Beese Ph.D.

Pennsylvania Beta '05

Allison was named the senior associate director of Penn State's new National Security Institute. A DOD-designated University Affiliate Research Center, she'll help bring together interdisciplinary teams of researchers working in the defense and national security space. A professor and assoc. head of materials science & eng'g, Allison is an expert in additive & advanced manufacturing.



John K. Estell Ph.D.

Ohio Zeta '84

John has received a Division Best Paper Award as first author at each of the past three ASEE Annual Conferences (2024–26). Each recognized scholarship in a different area of eng'g education research, with two papers also earning conference-level recognition, underscoring the breadth of his contributions. John is endowed chair of engineering sciences at Ohio Northern Univ.



SPOTLIGHT: USF Love Story Leads to Community Commitment

— Two former members of the University of South Florida's cheerleading team have made a gift in support of the Nault Center for Entrepreneurship to establish the Hafer THRIVE Entrepreneurship Program. The estate gift includes an endowed fund to provide coaching and educational resources for students pursuing innovative business ventures. **Andy J. Hafer, Ph.D., FL G '88**, and his wife, Eileen, have been among USF's biggest cheerleaders since meeting at tryouts and eventually becoming team co-captains. Andy went on to earn an MBA and a Doctor of Business Administration at USF. A successful serial entrepreneur, he's a former Nault Center executive director and has chaired its board since 2023.

Industry Partnership with Center for Advanced Vehicular Systems

— Mississippi State University manufacturing experts and students are leading a collaboration with Bollinger Shipyards and technical services firm CHAND to strengthen workforce training in the shipbuilding industry through the development of an Integrated Logistics Support (ILS) curriculum. ILS is a unified technical analysis and management discipline that ensures naval ships, aircraft, and weapon systems can be effectively operated and maintained throughout their entire life cycle. The collaboration addresses workforce challenges facing shipbuilding and other sectors with a curriculum that includes multiple training modules introducing foundational ILS concepts, along with a train-the-trainer component.

Ayanna Howard Ph.D.

Ohio Gamma '99

Ayanna has joined Spelman College (GA) as its 12th president. Most recently, she was dean of engineering at The Ohio State Univ. and currently sits on the Board of Directors for Autodesk and Motorola Solutions. A nationally recognized leader and expert in robotics, artificial intelligence, and human-centered technology, she previously co-founded an education tech company and worked at NASA's Jet Propulsion Laboratory.



Hamid Jafarkhani Ph.D.

Maryland Beta '93

Hamid is the inaugural recipient of the Marconi Award for Innovation in Wireless Communications. A Distinguished Professor at the University of California, Irvine, he's the former Director of the Center for Pervasive Communications. Hamid was a Principal Technical Staff Member at AT&T Labs, invented space-time block coding with his colleagues, and is a top 10 most-cited researcher in the field of computer science.



Kai H. Kaoni P.E.

Arizona Gamma '06

Kai was recently promoted to Endowed Distinguished Professor of Infrastructure at Northern Arizona University. He's the first faculty member appointed to the new role with support from an investment from the Beavers Charitable Trust and several construction companies. Kai said, "The commitment resulted in a new curriculum where students learn about the infrastructure and challenges we face as a nation."



Eric M. Lussier P.E.

Tennessee Alpha '96

Eric has joined his alma mater at the University of Tennessee (UTK) as an assistant professor of practice in industrial and systems eng'g. He holds B.S. and M.S. degrees from UTK and after three decades in manufacturing, operations leadership, and consulting, including serving as principal at NEXT LEVEL Partners, Eric continues to engage with industry through consulting and professional service.



Beth Moses

Indiana Alpha '92

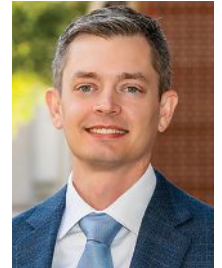
Beth will begin teaching classes at Purdue University this fall as an associate professor of engineering practice. A professional astronaut and aerospace engineer, she's a Purdue alumna with decades of experience at NASA and in commercial spaceflight. With six suborbital spaceflights, Beth is the world's most-flown female astronaut and has conducted materials research in parabolic flight.



Mark C. Schall Jr. Ph.D.

Iowa Beta '10

Mark was announced as the new chair of the department of industrial and systems engineering at Auburn University. He's also professor & director of the Human Integration Systems Center since 2022. His expertise is in occupational ergonomics and human factors eng'g, and Mark develops measurement techniques to enhance exposure assessment and improve workers' health.



FACILITIES: Historic Drexel Endowment —

A gift from the Howley Foundation, an educational nonprofit led by **W. Nicholas Howley, PA Z '75**, and his wife will create the College of Engineering and Computing at Drexel University through the merger of the College of Engineering, Informatics, and Computing, and Biomedical Engineering. Titled the Nick Howley College of Engineering and Computing, a portion of the donation will go to upgraded labs and learning spaces for students, to be named the Howley Family Immersive Learning Center. Additionally, 10,000 square feet, at 32nd and Market Street, will be converted into the Walter N. Howley Jr. Innovation Garage, a collaborative space showcasing the work of Drexel's engineering and computing student organizations.

Funding Approved for Engineering Building —

The FAMU-FSU College of Engineering has received the final piece of state funding needed to complete Building C, a new facility that will expand the college's existing campus at Innovation Park with new classrooms, teaching labs, and collaborative learning spaces. The joint institution's last major facility opened in 1998. Since then, undergraduate enrollment is up 22% and graduate enrollment is up 44% over the past five years, pushing totals past 3,700 students from Florida A&M Univ. and Florida State Univ. The roughly 164,000-sq. ft. building will add hands-on instructional space, plus a new plaza and auditorium. It will also become the engineering village's main entrance, reshaping how students and visitors move through campus.

Howard A. Stone Ph.D.

California Lambda '82

Howard was honored during Princeton's Class Day ceremony with the annual distinguished teaching award. A professor of mechanical & aerospace engineering, he was recognized for his dedication to teaching inside the classroom and beyond. Howard is the New Jersey Delta Chapter Chief Advisor and his research interests are in fluid dynamics, especially as they arise in applications at the interface of eng'g, chemistry & physics.



Mitchell L. R. Walker II Ph.D.

Michigan Gamma '99

Mitchell began his new role as dean, college of engineering at Georgia Tech in June. A member of the faculty since 2005, he's held several leadership positions, including associate dean for academic affairs and current director of the High-Power Electric Propulsion Lab. Mitchell is a respected leader in advanced propulsion research, an AIAA Fellow, and serves as an associate editor for the *Journal of Spacecraft and Rockets*.



Steve E. Watkins Ph.D.

Missouri Beta '83

Steve was named to the inaugural class of IEEE-Eta Kappa Nu's Advisors of Distinction. The award recognizes long-term service to HKN chapters with Watkins having advised the chapter at Missouri S&T for 33+ years. Steve is a professor of electrical and computer engineering at S&T, where he serves as MO Beta Chapter Chief Advisor and is also a TBP Executive Councillor and current Association Secretary.



Race Car Ramp Action

ILLINOIS ALPHA STEM FAIR EXHIBIT

By: Megan Harrison, IL Alpha '26

BACKSTORY

Megan helped co-found the Illinois Alpha Chapter's K-12 Outreach Program after joining as an initiate. In the couple of years since, the chapter has hosted more than a dozen events with local schools and it has become one of the chapter's most popular events. However, central Illinois isn't just a good place for classroom visits. Each spring, the University of Illinois hosts "Engineering Open House," the largest student-run STEM fair in the United States, which attracts thousands of visitors. During the two-day event, students showcase projects from their research groups and campus organizations, and while

IL Alpha has had exhibits in the past, this year the K-12 outreach committee wanted to do something special. A majority of the visitors are elementary school students and families with younger children. Most of the exhibits are meant to show the technical expertise of the students, but IL Alpha wanted to design an exhibit specifically with the young audience in mind.

Designing an interactive exhibit that can teach engineering principles to hundreds of young children was no easy task. Planning began in the fall semester with a small committee of about 10 members. After going through a variety of ideas, the decision was made to do something that six-year-olds and twenty-year-olds alike would enjoy building and racing — custom race cars.





Above image: Race cars with clay tops and 3D-printed bases.
Image left: Katie Gardener at the STEM fair.

THE PLAN

Next, the IL Alpha Chapter spent the semester planning and outlining the project. The main obstacle was designing an exhibit where each person would get hands-on experience, while also being able to accommodate hundreds of visitors within the budget of a student-run organization.

By the beginning of the winter break, the plan was in motion. Chapter members would design a variety of race car tops and bottoms that would be 3D-printed. Visitors would select their designs, assemble/click them together, decorate with stickers, and then race them down a multi-lane ramp. To stay within budget, while still allowing attendees to take their cars home, futuristic designs were decided upon with flat-bottom vehicles traveling down the ramp at low friction (as opposed to using wheels).

WHAT COULD GO WRONG

With the spring semester came a larger initiation class, so the K-12 committee split into two groups. The first group continued to work on the Engineering Open House project, while the second resumed planning new stations for the chapter's regular classroom visits, so there wasn't a year-long gap in regular planning. Committee meeting times and a few special work sessions were used to design the 3D models for the car components and create a blueprint for the ramp. Finally, plans were made with a 3D printing shop on campus to determine a timeline to make sure all of the components were ready in time for the event in April.

Everything went smoothly until Murphy's Law inevitably kicked in. About a week before the event, the 3D printing shop reached out to inform the chapter that they wouldn't be able to complete the top components of the cars in time for the event.

After a bit of chaos in the committee's group chat, a plan B was devised, and at the last minute a trip to Michael's ended up being the best part of the exhibit.

HANDS-ON ACTIVITY

With the 3D-printed bases and ramp, we could still explain to visitors the concepts of friction and 3D printing. However, a large selection of clay allowed the students to mold their own tops, leading to some interesting conversations about the benefits and drawbacks of technology. A few of the original tops that had been printed were still on hand, but the majority of visitors said they actually preferred being able to mold their own tops. In addition, the younger kids were more engaged when they were able to design a portion of the car and the word "aerodynamic" was thrown around more times than could be counted.

Over two days, 700 people visited the IL Alpha Chapter's exhibit from elementary classes to families, and even some engineering classmates. At least three members of the chapter manned the exhibit at all times, so

visitors could talk about the exhibit or engineering in general. Just like with previous K-12 events, volunteer guides were created so any member could volunteer, not just those on the K-12 Committee.

The 3D-printed race car exhibit was nowhere near the most technical exhibit at Engineering Open House, and even with the success of the last minute switch, it was far from perfect. But watching all of the kids come through, asking questions about engineering, wanting to race against "real engineers," and applying basic physics concepts to their designs — meant the exhibit achieved its original goal. Megan started the K-12 outreach program to get kids interested in engineering, but that isn't accomplished with perfect exhibits, or the fanciest and most innovative design. Kids get interested in science by letting them spend time with people who are genuinely passionate about what they do, and are willing to take a few hours out of their day to sit and do hands-on activities alongside them.



Image right: Race cars travel down the ramp.
Visit the Engineering Open House website for more information at: <https://www.eohillinois.org>.

CHAPTER ETERNAL

Our fellow Tau Bates who are gone, but never forgotten.

The condensed style of these notices is necessary due to the Association's large membership and space limitations in *The Bent*. You may contact the Editor for additional facts (if available) concerning the following deceased members. The assistance of all is earnestly sought in reporting the deaths of Tau Bates, including full name and date of death. You may report the death of a member by sending an email to tbp.memberupdate@tbp.org. Members 100 or more years when passing are identified with "**Cent.**"

ALABAMA

ALPHA AL A

Penn Jr., William, '46, March 17, 2022. **Cent.**
Atherton, William C., '48, January 1, 1985.
Wingate, Robert T., '58, February 20, 2025.
Till, William A., '82, June 9, 2025.
Whited, Kimberly Suzanne, '90, Feb. 2, 2025.

BETA AL B

Morere, Herlihy J., '48, November 26, 2009.
Thomas, Lawrence Randall, '48, Jan. 1, 1991.
Lee, Cullen Quincy, '54, Jun 25, 2007.

ARIZONA

ALPHA AZ A

Edwards, Richard M., '41, May 16, 2020.
Pfeiffer Jr., John Finlay, '49, Feb. 8, 1996.
Arch, Clifford J., '50, March 23, 1977.
Grimes, Myron John, '50, January 1, 2014.
Lewellyn, Jack Richard, '51, January 1, 1983.
Mertz, Joseph B., '51, February 10, 2006.
Manning, Glenn Gordon, '52, March 17, 1999.
Baldwin, Harold Louis, '54, Feb. 13, 2006.
McSpadden Jr., William R., '56, May 28, 2026.
Peters, William C., '57, February 5, 2019.

BETA AZ B

Story, Franklyn H., '81, March 25, 2026.

DELTA AZ Δ

Smith, Jeromy Douglas, '16, June 15, 2026.

ARKANSAS

ALPHA AR A

Exall, John S., '49, September 12, 2001.
Harrell, Jack W., '49, May 1, 2002.
Lundgren, John L., '50, January 26, 2010.
Ziegler, Norval Finn, '52, June 18, 2026. **Cent.**
Trigg, William Walker, '56, June 14, 2026.

CALIFORNIA

ALPHA CA A

Vogel, Harold W., '50, April 9, 2016.
Brunner, Russell K., '52, November 18, 2012.

BETA CA B

Jackson, Weldon Hampton, '54, April 4, 2014.

GAMMA CA Γ

Mapel, William J., '43, no details.
Small, Sam W., '47, no details.
Bogue III, Marcus Cook, '68, June 2, 2026.

DELTA CA Δ

Nelson, Lewis A., '49, January 15, 2015.
Swajian, Arthur, '52, July 26, 2013.

ZETA CA Z

Javete, Donald F., '51, January 27, 2023.

ETA CA H

Boilard, Dennis Irving, '58, December 1, 2017.

THETA CA Θ

Heiskell, Jon Milton, '65, March 20, 2026.

PI CA Π

Poteet, Robert Eugene, '48, June 26, 2015.

COLORADO

ALPHA CO A

Poulter, Glenn J., '50, April 18, 2010.
Hollingsworth, James S., '58, Feb. 19, 2016.
Hagen Jr., Raymond W., '70, Nov. 30, 2021.

DELTA CO Δ

Clark, John R., '92, May 4, 2026.

CONNECTICUT

BETA CT B

Leonard, Frederick J., '51, Dec. 11, 2021. **Cent.**
Ellefsen, Marvin Kendall, '52, March 9, 1995.
Klopfenstein, Rex Carter, '59, no details.

DELAWARE

ALPHA DE A

MacDonald, Allan Gordan, '49, Jan. 1, 1983.
Wright III, Carroll Quinn, '49, Jan. 1, 1998.
Zack IV, Henry J., '52, November 24, 2013.
Apostolico Jr., Martin A., '54, July 15, 2026.

FLORIDA

GAMMA FL Γ

Clarke, Reed, '97, February 13, 2026.

GEORGIA

ALPHA GA A

McLain, Donald R., '53, November 12, 2021.
Moore Jr., John F., '64, November 11, 2025.
Drawdy, Jean Elizabeth, '78, Feb. 20, 2026.
Kemp, David A., '83, June 20, 2023.

ILLINOIS

ALPHA IL A

Thyson, Noel Austin, '60, May 2, 2026.
Spitzer, Robert Edward, '61, April 5, 2026.

BETA IL B

Nelson, Lawrence E., '52, Dec. 10, 2023.
Lewis, Ronald Ellsworth, '55, Dec. 5, 2021.
Kusner, William John, '59, May 15, 2026.

GAMMA IL Γ

Greene, James Neal, '57, May 15, 2025.
Olson, Kenneth E., '57, January 11, 2025.

INDIANA

ALPHA IN A

Williams, Carl Lee, '49, May 9, 2013.
Staib, Richard Otto, '56, November 20, 2021.
Belovich, Joseph F., '58, April 19, 2026.
Niemoeller, Donald E., '58, April 22, 2016.
Hale, David Charles, '59, January 15, 2026.
Morelli, Richard S., '64, August 1, 2026.
Schultz, Kenneth E., '64, February 27, 2026.
Yokomoto, Charles F., '64, March 29, 2026.
Wilder, William C., '66, March 30, 2026.
Falstreu, Ronald Harold, '70, Sept. 30, 2023.
Collier, Theodore R., '78, June 11, 2024.
Willis, Paul A., '78, no details.
Neff, Douglas J., '83, July 22, 2026.

GAMMA IN Γ

Sponseller, David L., '53, September 25, 2025.
Maus, Leo Donald, '63, September 21, 2025.
McCaffrey Jr., David S., '64, April 27, 2026.

IOWA

ALPHA IA A

Hall, Jerry L., '59, May 30, 2026.
Buchanan, David Leigh, '79, June 28, 2026.

BETA IA B

Lammers, Leon, '59, December 5, 2025.

KANSAS

GAMMA KS Γ

Scholer, Charles Frey, '56, November 6, 2025.

KENTUCKY

ALPHA KY A

Haynes, Leonard Stallard, '49, Aug. 11, 2004.
Bittle, David F., '59, January 21, 2026.

BETA KY B

Wong, Julius P., '60, January 12, 2026.



Arkansas Alpha '52

Norval F. Ziegler

June 18, 2026

Spent his career working in the Physics Division at the Oak Ridge National Lab (TN); ultimately retiring as chief engineer of the 25-megavolt tandem accelerator program. He was author or co-author of 50+ technical papers.



Delaware Alpha '54

Martin A. Apostolico Jr.

July 15, 2026

Lead project engineer on the only Satellite Display System in the world at the time (1960), co-authored two patents — the first allowed the use of laser beams for road grading, and served as DE Alpha Chapter vice president.





Massachusetts Beta '60

Roger G. Mark, M.D., Ph.D.

July 14, 2026

Advanced biomedical eng'g at MIT/Harvard Medical School. His innovations in computerized physiologic monitoring laid the foundation for modern intensive care monitoring systems and his lab developed open-access physiologic data-bases that transformed research worldwide.



Massachusetts Epsilon '64

Richard H. Sioui, Ph.D.

June 13, 2026

An authority in industrial diamond and cubic boron nitride technology, he was awarded nine U.S. patents and numerous foreign patents. At Norton Co., advanced to become Director of Superabrasive Technology and later Research Director of the Superabrasive Division.

LOUISIANA

ALPHA LA A

Goins, Truman, '50, November 19, 2004.
Tyson, John A., '67, February 1, 2014.
Franklin Jr., Duard D., '74, April 3, 2026.
Freasier, Raymond E., '75, February 14, 2003.

GAMMA LA I

Walia, Sukhdev S., '69, May 6, 2026.

MAINE

ALPHA ME A

Fletcher, Lewis Austin, '72, February 5, 2026.

MARYLAND

BETA MD B

Schulman, Joseph Robert, '44, Aug. 15, 2019.
Straley, Harry D., '60, no details.
Booth, Andrew William, '64, April 7, 2026.
Horton, Stuart M., '82, no details.

MASSACHUSETTS

BETA MA B

Dumas, Federico J., '59, June 14, 2026.
Mark, Roger Greenwood, '60, July 14, 2026.

DELTA MA A

de Marcken, Christian W., '60, Nov. 1, 2025.

EPSILON MA E

Berg, Charles Adolph, '56, March 17, 2026.
Sioui, Richard H., '64, June 13, 2026.

ZETA MA Z

Lovell, Bernard Wentzel, '57, July 8, 2026.

MICHIGAN

ALPHA MI A

Kinney, Edward T., '52, July 28, 2021.
Reynolds, Douglas Deane, '67, no details.
Robson, Sherri Ann, '88, August 3, 2025.

BETA MI B

Sikkenga, Donald Peter, '56, June 28, 2023.
Hooper, James R., '60, January 1, 2022.

GAMMA MI I

Bevans, Herbert Miller, '42, July 6, 2019.
Gerbstadt, George F., '49, Sept. 5, 2024. *Cent.*
Kleekamp, Charles W., '58, May 9, 2025.
Newhof Jr., Thomas, '60, June 24, 2025.
Crane, Bradford H., '61, February 28, 2020.
Colling, Kenton Henry, '65, August 4, 2026.
Ditz, Robert Lange, '65, May 19, 2025.

DELTA MI A

Huebner, Charles A., '58, December 29, 2024.
Kuchta, Anthony S., '65, May 23, 2026.

ZETA MI Z

Soblesky, L. Thomas, '56, May 7, 2013.
Morman, Kenneth Francis, '58, May 17, 2020.

MINNESOTA

ALPHA MN A

Fillmore, Jay P., '61, February 22, 2024.
Bateson, George Francis, '68, March 6, 2026.

MISSISSIPPI

ALPHA MS A

Mills, Richard H., '60, May 20, 2026.
Coley, James William, '61, July 22, 2026.

MISSOURI

ALPHA MO A

Wilson, Richard E., '77, January 29, 2014.
Brown, Mark E., '99, May 17, 2025.

BETA MO B

Mullen, James Gentry, '55, January 23, 2017.
O'Brien, G. Michael, '63, January 10, 2026.
Fournelle, Raymond A., '64, July 19, 2026.
Gruber, Myron Edward, '64, April 27, 2026.

GAMMA MO I

Nakasato, Jiro, '48, March 20, 2018.
Polk, Charles, '48, no details.
Adams, Lavert Atkins, '49, no details.
Wendt, Michael John, '58, May 22, 2025.
Jirauch, Charles William, '66, March 3, 2025.

MONTANA

ALPHA MT A

Johnson, Andrew Edward, '50, Nov. 9, 2017.

NEW HAMPSHIRE

ALPHA NH A

Sherman, John L., '54, Sept. 14, 2025. *Cent.*

NEW JERSEY

ALPHA NJ A

Schultz, Sheldon, '54, January 31, 2017.

BETA NJ B

Van Hart, David Carter, '55, January 1, 2018.

GAMMA NJ I

Bluish, Joseph A., '51, April 24, 2025.
Rosenstark, Sol, '58, April 20, 2025.
Amato, Wayne Stephen, '63, Jan. 24, 2026.
Miloscia, Lawrence George, '63, Dec. 25, 2022.
Olenick, Dennis M., '69, March 13, 2023.
Rees, Alfred L., '71, January 14, 2016.

NEW YORK

ALPHA NY A

Stallkamp, John A., '46, June 28, 2026. *Cent.*

BETA NY B

Spearot, James Anthony, '67, May 21, 2025.
Poole, David Robert, '69, October 18, 2024.

GAMMA NY I

Lee Jr., George Henry, '38, no details.
Daub, Leland Andrew, '51, Sept. 6, 2010.
Zobel, William M., '55, March 1, 2025.
Ash Jr., Raymond Houston, '60, no details.

DELTA NY A

Newkirk, John Burt, '41, February 9, 2019.
Chalfant, Richard D., '54, May 4, 2026.

EPSILON NY E

Crisi, Aldred Renato, '41, December 25, 2016.
Greif, Robert, '58, January 1, 2026.
Bauman, Burton Laurence, '59, Feb. 28, 2026.
Feldman, Robert E., '59, December 19, 2024.
Marino, Patrick J., '60, July 6, 2026.
Sloan, Erwin H., '62, November 22, 2022.

ZETA NY Z

Petrozziello, Frank A., '45, no details.

IOTA NY I

Cheng, Shang-I, '45, March 18, 2017.
Schwenk, Kenneth R., '66, January 25, 2026.

KAPPA NY K

Hart, Harry J., '41, November 30, 2011.

LAMBDA NY A

Onsdorff Jr., Edwin Henry, '43, May 16, 2007.

MU NY M

Bogardus, Russell C., '69, July 4, 2026.

NU NY N

Lee, George C., '55, February 21, 2026.

NORTH CAROLINA

ALPHA NC A

Long, Leonard Wood, '43, May 8, 2012.
Baker, Fred Eugene, '60, February 19, 2026.
Holoman, Stuart B., '65, February 7, 2023.

GAMMA NC I

Farquhar, Thomas L., '69, October 14, 2024.

DELTA NC A

Chesson, Robert Lynn, '91, June 6, 2025.

NORTH DAKOTA

ALPHA ND A

Erickson, John Axel, '51, April 21, 2024.
Viezbicke Jr., Peter Paul, '52, Dec. 1, 1993.
Loll, Marvin B., '58, April 2, 2026.

BETA ND B

Swanson, Jeffery J., '82, December 13, 2020.
Poppke, Richard Alan, '88, May 5, 2025.

OHIO

ALPHA OH A

Orner, Peter A., '57, August 1, 2023.

BETA OH B

Colclaser, Robert G., '56, March 4, 2020.
Cook, Paul Andrew, '60, June 3, 2026.
Fee, David A., '70, May 24, 2026.

GAMMA OH I

Huguenard, Cletus Morton, '51, Aug. 1, 1984.
Martin, Richard T., '61, no details.
Carlton, Bruce Frederick, '72, no details.
Forry, Mark E., '74, September 17, 2023.
Dale, John Lipscomb, '92, November 24, 2023.

THETA OH O

Hoeffel, James D., '59, January 21, 2024.
Bernhardt, Robert Edward, '67, May 4, 2026.

IOTA OH I

Sharko, Walter, '54, May 29, 2026.

OKLAHOMA

ALPHA OK A

Doremus, Roswell C., '52, Sept. 14, 2012.

GAMMA OK I

Rowland, James R., '62, April 17, 2026.

CHAPTER ETERNAL

Continued from page 37

OREGON

ALPHA OR A

Simon, Robert Haskell, '41, January 1, 2004.

GAMMA OR Γ

Mueller, Wendelin Zaneta, '13, no details.

PENNSYLVANIA

ALPHA PA A

Evon, Joseph, '49, February 20, 2017.

Greenawald Sr., Ralph A., '50, Nov. 8, 2012.

Goldsborough, John Paul, '56, March 3, 2024.

BETA PA B

Cohen, Ralph David, '47, October 26, 2017.

GAMMA PA Γ

Fratangelo, Peter H., '52, Jan. 8, 2025. *Cent.*

DELTA PA Δ

Bianchi, Louis R., '51, February 9, 1979.

Dickinson, John D., '51, Aug. 1, 2025. *Cent.*

EPSILON PA Ε

Farrar, Andrew, '58, May 23, 2026. *Cent.*

Mallay, James Francis, '59, January 1, 2026.

ZETA PA Ζ

Griffin, Phyllis Kay, '64, March 17, 2026.

Carson, Thomas C., '65, April 19, 2013.

ETA PA Η

Swartz, William Ewing, '54, May 6, 2026.

TENNESSEE

ALPHA TN A

Rice, Arthur Roland, '52, January 1, 2010.

Carden Jr., William H., '59, May 26, 2026.

King III, Philip Woodson, '66, June 26, 2026.

Fogelman, Carolyn Hahs, '82, June 17, 2026.

BETA TN B

Morton, Wayne King, '63, May 28, 2026.

Kemp, James Alexander, '92, June 9, 2024.

TEXAS

ALPHA TX A

Courtney Jr., Lonzo C., '58, March 22, 2026.

Ince, Richard W., '60, May 31, 2026.

Hasty, James Hicks, '68, January 14, 2018.

Kiehne, Thomas M., '84, June 10, 2026.

BETA TX B

Gilbert, Charles Wade, '49, January 11, 2020.

Ellisen, Arthur Raymond, '62, Sept. 14, 2024.

Davis, Lonnie Dean, '78, February 23, 2026.

DELTA TX Δ

Mitchell, Melvin Malone, '52, March 29, 2026.

Baker Jr., Roy Verble, '61, March 16, 2022.

ZETA TX Ζ

Wilson, Jeff B., '85, no details.

KAPPA TX Κ

Mulholland, Richard F., '82, no details.

UTAH

ALPHA UT A

York, William Burne, '50, February 21, 2007.

BETA UT B

Herget, Sheldon M., '72, October 3, 2022.

VIRGINIA

ALPHA VA A

Marsh, Harold Milton, '60, July 15, 1997.

Parrish Jr., Edward A., '64, May 28, 2026.

BETA VA B

Davis Jr., Carlisle Ragland, '58, April 24, 2026.

Bucklen, Jerry Coleman, '62, May 11, 2023.

WEST VIRGINIA

ALPHA WV A

Britton, Jack L., '58, June 17, 2026.

WISCONSIN

ALPHA WI A

Olson, Robert Eugene, '49, June 27, 2016.

Kopisch, Arthur Frank, '50, April 26, 2008.

BETA WI B

Weber, Robert J., '49, March 28, 2026.

Heiting, Leo N., '59, August 10, 2021.

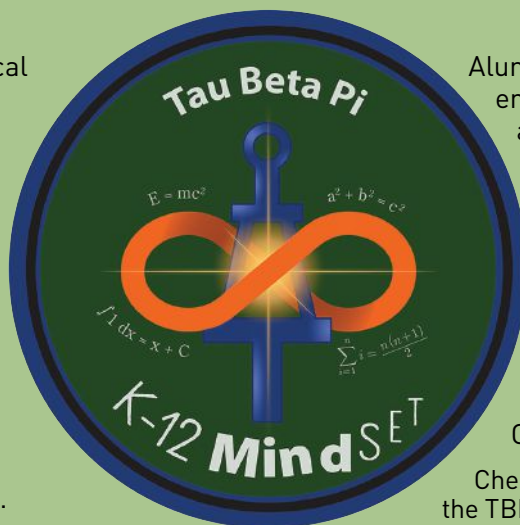
ASSOCIATION PROGRAM SPOTLIGHT: K-12 MindSET

Stew Baskin, *FL E '13*, MindSET Committee Chair

With the goal of partnering with local schools to establish and host math and science intervention projects, MindSET has been bringing TBP chapters and K-12 students together for nearly 20 years.

Hands-on MindSET activities will assist students in making the connection between math, science, and the world around them. This can contribute to improved performance in these disciplines and lead to a greater interest in pursuing STEM careers.

MindSET uses engineering modules focused on kinesthetic learning and designed to reinforce the concepts being taught in the classroom.



Alumni and collegiate chapters are encouraged to host activity sessions and are eligible for MindSET grants to cover the cost of materials.

Participating chapters can expect to build camaraderie amongst organizers and volunteers, improve image and visibility on campus/in the local community, and increase recognition when pursuing Chapter Project Awards.

Check out the available resources on the TBP website and get started hosting a MindSET project. Also, be on the lookout for details regarding the upcoming fall educational webinar. Send questions to tbp.mindset@tbp.org and visit <https://www.tbp.org/k12-mindset.cfm>.

2: Leading Roles

Tom, Dick, and Harry have the star parts in their school play this term. The plot concerns three giants: Og, who always speaks the truth, Gog, who never does, and Magog, who speaks as he pleases. Each boy has taken to living his own part, of course, and is driving us all mad. Knowing only this much and seeking to discover which boy has which part, I asked Tom and Dick which part is Harry's. They both gave the same answer. I also asked Dick and Harry which part Tom is playing, and they both gave the same reply. At this stage I did not have enough data to deduce who had each part. So, I asked Tom point blank which giant he is playing and was then able to deduce from his reply how all three parts have been assigned. What are they?

— A Tantalizer by Martin Hollis,
in *New Scientist*

3: Space Compound

A space probe has returned with a load of rocks from the third moon of Uranus. To the amazement of scientists, examination of the rocks revealed the presence of a new element which they named Hokium (Ho). Their studies showed that the nucleus of Hokium has protons and neutrons arranged in the form of a solid triangular hexahedron — a geometrical arrangement with six triangular faces, each of which is an equilateral triangle, and resembles 2 regular tetrahedrons base to base.

To calculate the properties of Hokium, a new quantum number was needed, which the scientists appropriately called the Barnum number. This number represents the number of nuclear particles along the edge of any of the triangular faces of the hexahedron. Currently, the scientists are feverishly trying to synthesize the next two elements in the series, i.e., if the Barnum number of Hokium is B, then the Barnum numbers of the next two elements are B + 1 and B + 2.

In anticipation of success, the elements have already been named Humbugium (Hu) and Malapropium (M). The reason the scientists are working so hard is that they believe a compound of the three elements, HoHuM, will have extraordinary properties, such as the ability to grow hair on a billiard ball. Such a compound would have obvious commercial value. The total number of nuclear particles (neutrons and protons) in this compound would be 31,311. What is the Barnum number of Hokium? (Note: as an example, the number of nuclear particles in the nucleus of an element of Barnum number 4 would be 30 and of Barnum number 5 would be 55.)

— *Mathematical Puzzles for
Beginners & Enthusiasts*
by Mott-Smith

4: Passwords

Acme, Inc., has instituted a new computer password policy to prevent use of easily guessed passwords, such as birthdays and pet names. Each password is to consist of four characters chosen from the following groups: 26 capital letters, 26 lowercase letters, numerals 0 through 9, and 32 special characters (@, #, \$, etc.). If each password must use characters from at least three of the four character groups (for example, A1%C), how many different passwords are possible (order matters; characters may repeat)?

— Robert M. Carver, *OH K '87*

5: Squares

Find the smallest set of three squares (of integers) in arithmetic progression such that the square root of each of them is 1 less than a square of an integer.

— Evans & Martin, 1873

BONUS: Chords in a Circle

In a circle whose circumference is C there are placed at random M equal chords, each subtending

an arc A. Find the chance that none of the chords will intersect, where $C = M \times A + N \times A$. Assume $A = 1$ and M and N are integers. Express your answer as a closed form formula in terms of M and N. As a check of your formula, what is the smallest value of N needed so that for $M = 17$, the chance of no chords overlapping is greater than 50%?

— Whitworth, c. 1880

COMPUTER BONUS: Pair of Smith Numbers

A Smith number is a composite number, the sum of whose digits equals the sum of the digits of all its prime factors. The smallest Smith number is $4 = 2 \times 2$. The sum of the digits of 4 is 4, and the sum of digits of its prime factors is $2 + 2 = 4$. Another example is $666 = 2 \times 3 \times 3 \times 37$ with a digit sum of 18 for both 666 and its prime factors. The smallest pair of consecutive Smith numbers is 728 and 729. What is the next such pair?

— Prime Numbers,
the Most Mysterious Figures in
Math by David Wells

Email your answers (plain text only) to any or all of the Fall Brain Ticklers to BrainTicklers@tbp.org or by postal mail to **Dylan Lane, Tau Beta Pi, P.O. Box 2697, Knoxville, TN 37901-2697.**

The method of solution is not necessary and the Computer Bonus is not graded. Where possible, exact answers are preferable to approximations. The cutoff date for entries to the Fall column is the appearance of the *Winter Bent* in late December (the digital distribution is several days earlier). We welcome any interesting problems that might be suitable for the column. Dylan will forward your entries to the judges who are: **J. C. Rasbold, OH A '83;** **J. R. Stribling, CA A '92;** **K. D. Berthold, TX B '04;** and the columnist for this issue,

— F. J. Tydeman, *CA A '73*

ASSOCIATION BRIEFS

SUMMER LEADERSHIP GATHERING

Tau Beta Pi's Association Officials gathered in Knoxville, TN, for a June Meeting. All members of the Executive Council, Program Directors, and District Directors were invited.

President Tom Pinkham led the meeting with assistance from TBP Headquarters staff. Pinkham reported that on Saturday, June 27, the focus was on topics to drive improvements and growth of the Association.

The evening prior, everyone met to socialize and enjoy a Tennessee River cruise aboard the *Volunteer Princess*. Some of the items discussed include:

- A new initiative to increase the number of **Engineering Future Leaders sessions (see [page 45](#) for program info). ** District Directors will raise awareness amongst collegiate chapters to the benefits of hosting this acclaimed program.
- Progress on the 2025 Strategic Goal for Membership Growth and discussed plans for a survey.
- An interim report of a task force documenting best practices for Association Officials at Convention.

A comprehensive slide deck from the meeting is available on our website at: www.tbp.org/?JuneMeet

Top Left: Officials enjoying the ride on the riverboat — (L to R) Marla Peterson, David Cowan Jr., Christie Hasbrouck, Lisa Matta, and Tom Pinkham.

Left: All attendees together for a group image at the 2026 June Officials Meeting.

ASSOCIATION OFFICIALS WELCOME

Christie Hasbrouck, Ph.D., P.E., IN E '16, is now a District Director. Already serving as an Engineering Future Leaders Facilitator, Christie will serve District 3 in both capacities.

See full Officials listings with contact info at: <https://www.tbp.org/leadership.cfm>





THE Bulletin

Of Tau Beta Pi

A Publication
for the
Collegiate
Chapters &
Advisors

**2026
AND BEYOND**

IN THIS ISSUE

Receive unique
content based on
your Association

Stay current
on deadlines
and event

Shorter articles with
images and direct links to
more information

Opt in/opt out options
for alumni



A Storied Past and Exciting Future

This fall *The Bulletin* of Tau Beta Pi will cease being published quarterly and moving forward will be incorporated with the eNotes into monthly emails. Be on the lookout for the new targeted format for access to essential information and timely highlights.

The purpose of *The Bulletin* is to disseminate news and information about the Association of special interest to the collegiate chapters. It's been an important vehicle for the annual sharing of instructions from the Executive Council & Headquarters staff to the chapters on election and initiation procedures and for the exchange of chapter project ideas.

Taking a look back, the first issue of *The Council Bulletin* was published in 1925 and the 1926 Convention recognized its importance by creating the office of Assistant Editor of *The Bent* and defined the duties of editing the publication. It was published as the collegiate chapter edition of *The Bent* until 1941, when its editorial affairs were separated from those of the official quarterly magazine. The 1984 Convention changed the name of the publication to *The Bulletin*, and in 2008 the Executive Council decided that future issues of *The Bulletin* would be published exclusively in digital format and no longer printed and mailed to members.



TAU BATE TALKS

The Tau Beta Pi Engineering Honor Society Speaker Series



BEYOND THE BLUE-PRINT: REIMAGINING THE ENGINEERING JOURNEY

By: Matthew Eisenberg, NJ Alpha '69

When wearing the Tau Beta Pi Bent, we carry a symbol of distinguished scholarship and exemplary character. But beyond our academic credentials and technical titles lie a vast, interconnected tapestry of human experience. Tau Bates are not just analytical thinkers; we are explorers, creators, builders, and pioneers who shape the world in uncommon ways.

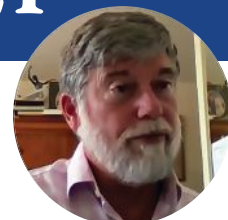
Five years ago, the alumni chapter officers from Atlanta and San Francisco recognized a unique opportunity — to create a virtual hearth where members from across the globe could gather and share these extraordinary journeys. So, they launched a monthly live presentation series designed to offer a slightly technical slant on fascinating, real-world experiences.

Since its inception, this initiative has hosted 48 remarkable sessions. We have journeyed into the cosmos with astronauts, stepped inside the high-stakes logistical machine of Operation Warp Speed, submerged into the deep ocean aboard military submarines, and navigated the frontier of self-driving cars.

THE CROSSROADS OF ENGAGEMENT: DESIGNING OUR NEXT CHAPTER

The success of this series belongs entirely to our community, dedicated committee members, volunteer speakers, and most importantly, **you**, our audience.

However, as the world has adjusted to a fast-paced digital landscape the past couple of years, we've seen our live attendance numbers quiet down. In engineering, an underperforming system isn't a failure; it's an invitation to optimize, and we want to revitalize this incredible forum, but cannot do it in a vacuum. We need your engagement, ideas, and leadership to chart the path forward.



Challenges & Solutions for Farming on the Moon

Missed a past session? The complete archive of presentations is accessible on the TBP website at: www.tbp.org/tau-bate-talks.cfm.

Audience surveys compiled during our foundational seasons provided a brilliant wishlist of complex, forward-looking topics that members remain hungry to explore. Though these suggestions were gathered a few years ago, the technical and societal challenges they address are more relevant today than ever. They serve as an excellent blueprint for what we can build next. Our community has expressed interest in:

- **The Frontiers of Energy & Infrastructure:** The future of the American electric grid, next-generation battery development, and the scalability of renewable energy.
- **The New Space Age:** Hypersonic aircraft state-of-the-art developments and challenges facing the commercial space industry aiming for Mars.
- **Emerging Tech & Workplace Shifts:** The tangible impacts of Artificial Intelligence and Robotic Process Automation on professional engineering jobs, quantum physics, and advanced semiconductors.
- **Engineering for Good:** At the intersection of engineering and societal challenges, including recycling innovations, sustainable food & agri-tech, and organizational pathways for Diversity, Equity, and Inclusion.

HELP DIRECT THE FUTURE: JOIN OUR COMMITTEE

To transform this enduring wishlist into the next season of presentations, we need to strengthen the engine behind the scenes, and are actively looking for passionate Tau Bates to **join our presentation committee**.

If you have a knack for networking, event curation, or a desire to help steer the cultural and intellectual future of Tau Beta Pi, your voice is needed.

As a committee member, you'll have a hand in scouting speakers, identifying high-interest topics, and finding new ways to keep Tau Bates connected.

A CALL FOR VOICES: SUGGEST A SPEAKER

Of course, a committee needs stories to amplify. We know that within our network there are untold adventures.

Do you know a peer whose career or hobby embodies the fascinating, cross-disciplinary spirit of our Society? Have you founded a business, managed an infrastructure feat, or transitioned into technology policy/public office?

You do not need to be a seasoned keynote speaker or have a fully polished presentation to participate. We want recommendations, ideas, and introductions to the charismatic Tau Bates who can help us launch our next era of talks.

SHAPE THE FUTURE OF TAU BATE TALKS

Whether you want to share your own expertise, nominate a colleague, or join our committee to help plan future events, we want to hear from you!

Send an email to tbp.talks@tbp.org with the subject line "Tau Bate Talks Engagement" and let us know how you'd like to get involved.

We invite you to explore the archive, find inspiration, and help us build the future of this series, together.

Alumni Spotlight

Rashi M. Gupta, TN B '26

My name is Rashi Maya Gupta, and I graduated from Vanderbilt University in December 2025 with a double major in engineering science and chemistry.

Tau Beta Pi was among the most meaningful parts of my undergraduate experience. I joined the Tennessee Beta Chapter as a junior and quickly became involved, eventually having the privilege of serving as chapter president. Being elected president remains one of the happiest and proudest moments of my academic career. Leading our chapter gave me the opportunity to work alongside an incredible group of students who were passionate about service, scholarship, and supporting one another throughout our rigorous curriculum. The friendships I built and the lessons I learned through my involvement with Tau Beta Pi have stayed with me long after initiation.

Today, I am a medical student at the Cleveland Clinic Lerner College of Medicine pursuing my M.D., and I find myself using the skills I developed as an engineer every day. Engineering taught me to think critically, approach complex problems systematically, and never stop asking questions — invaluable qualities in medicine and research.

Looking back, Tau Beta Pi was much more than an honor society to me. It became a community that challenged me to become a better leader, teammate, and person. The organization gave me opportunities to grow outside the classroom and instilled values of integrity, service, and lifelong learning that continue to guide me today. I am incredibly grateful for everything Tau Beta Pi has given me, and I hope to stay involved as an alumna so I can help future members have the same rewarding experience.

To current Tau Bates, I encourage you to say yes to opportunities that push you outside your comfort zone. Whether it's serving as an officer, attending Convention, or simply getting to know members in your chapter, the experiences and relationships you build will stay with you long after you graduate.



GET TO KNOW RASHI:

- Enjoys playing golf and crocheting sweaters for friends and family;
- Loves finding ways to combine engineering, medicine, and research to improve patient care.



The Second Mountain: Why Engineering Needs Translators

BY ERIC M. LUSSIER, P.E., TN A '96

In January 2026, I traded airports for classrooms.

After more than thirty years in manufacturing, private equity, and consulting, I hung up my suitcase and became a full-time professor of practice at the University of Tennessee.

Standing in front of 115 engineering students on my first day, I realized I was about to tackle a different problem. My job was no longer improving factories and businesses; it was to help develop the engineers who would someday lead those transformations themselves. Over time, I came to realize that engineers are fundamentally translators.

Early in my career, a Japanese mentor taught me that improvement was never really about tools; it was about helping people see problems differently and apply sound principles consistently. That lesson followed me through consulting and leadership roles and ultimately shaped my approach to teaching. In the classroom, I realized my new challenge was not solving problems myself, but helping students learn how to solve them.

For many engineers, the **first mountain** is about learning to apply technical knowledge. We enter the profession equipped with equations, analytical methods, and problem-solving frameworks. Over time, we discover that success depends on something more.

We must learn how to apply those ideas within organizations, projects, teams, customers, and real-world constraints. In other words, we learn to bridge theory and practice.

In my client work with portfolio companies and private equity-backed businesses, I learned that organizations do not transform because they adopt a framework. Instead, it's because they learn. The lesson extended far beyond organizational transformation.

While working in practice, I saw this pattern repeatedly. Engineers convert customer needs into requirements; requirements into designs; designs into products; data into decisions; strategy into execution; and theory into practice. In many ways, engineering itself is the discipline of translation. The best engineers are not necessarily those who know the most, but rather the ones who can take complex ideas and make them useful.

Throughout my career, I worked with organizations implementing Lean, Six Sigma, strategy deployment, and countless other improvement frameworks. The organizations that succeeded were rarely the ones with the most sophisticated tools. They were the ones that understood the principles behind the tools and adapted them to their own circumstances. Engineering works much the same way.

When I walked into the classroom, I expected my primary job would be transferring knowledge. Instead, I discovered that students were already surrounded by information. What they wanted was context. They wanted to understand how concepts would be used, where trade-offs emerge, and how experienced engineers make decisions when the answer is unclear. Engineering education often focuses on finding the correct answer. Engineering practice frequently involves choosing among several imperfect answers while balancing cost, quality, safety, schedule, reliability, and risk. The challenge is rarely identifying a technically feasible solution; instead, it is determining which solution best fits the broader system.

When classroom concepts were connected to real-world situations, the engagement was immediate. Students were not simply looking for answers; they were trying to develop judgment. A student can solve an engineering economy problem on paper. A practicing engineer must decide whether to invest millions of dollars with incomplete information and live with the consequences.

Throughout my career, I often believed that the primary constraint was access to knowledge. Today, that assumption seems increasingly outdated.

My students carry more information in their pockets than I had access to during much of my early career. They can search formulas, watch tutorials, and increasingly use artificial intelligence to generate answers in seconds.

Engineering has never been fundamentally about information. It has always been about judgment: the ability to evaluate trade-offs, navigate uncertainty, and make sound decisions when the answer is not obvious. This is what ultimately distinguishes engineering practice from engineering theory. Engineers are asked to make decisions under uncertainty while balancing cost, quality, safety, schedule, reliability, and risk.

Information can be downloaded.

Judgment must be developed.

Wisdom is often transferred one conversation at a time.

In *The Second Mountain: The Quest for a Moral Life*, David Brooks describes life as a journey across two mountains.

The first mountain is about achievement. We build careers, earn credentials, gain experience, and pursue success. For many engineers, the first mountain includes designing products, improving systems, leading teams, and solving increasingly difficult problems.

The second mountain is different. It is less about accomplishment and more about contribution. It asks a different question. Not, "What can I achieve?" but, "What can I give back?"

For engineers, the second mountain often involves becoming a translator for others. We mentor younger engineers, coach project teams, sponsor senior design projects, teach, share lessons learned from successes and failures alike, and help shorten learning curves by translating experience into wisdom.

The goal is not to provide all the answers; rather it is to help others ask better questions and avoid mistakes we once made ourselves. Every engineer can do this. Some serve as mentors while others open doors for young professionals, host interns, advise student organizations, sponsor capstone projects, or teach as adjunct faculty. The specific role matters less than the willingness to invest in the next generation.

Tau Beta Pi calls its members to serve with integrity, character, and a commitment to the profession. One of the most meaningful ways experienced engineers can serve is by helping develop future engineers. In a world where information has become abundant, the need for experienced translators may be greater than ever. Knowledge can be accessed instantly. Judgment, wisdom, and professional perspective still must be developed through experience and shared through relationships. Looking back, I realize I was fortunate to have mentors willing to invest in me. The second mountain offers an opportunity to do the same for others.

Engineering's greatest legacy may not be the factories we improve, the products we design, the software we write, or the systems we build — it may be the engineers we help develop.

In a profession built on solving problems, perhaps the most important problem we can solve is ensuring the next generation is better prepared than we were.

.....
ERIC LUSSIER recently joined the University of Tennessee as an assistant professor of practice in industrial and systems engineering. After more than three decades in manufacturing, operations leadership, and consulting, including serving as Principal at NEXT LEVEL Partners, he returned to his alma mater to help prepare the next generation of engineers. Eric holds both B.S. and M.S. degrees in industrial engineering from UT and continues to engage with industry through consulting, speaking, and professional service.



Program Renaming

The first "Engineering Futures" session was conducted at the 1988 Convention in Iowa, evolving from chapter officer training that identified a need to provide members with opportunities to build professional skills. Since its inception, one challenge has been its name which does not easily convey its purpose. In an attempt to address this, the Executive Council approved a three-year trial of a new name for the program. As of this fall, **Engineering Futures is now Engineering Future Leaders (EFL)**. The content and structure of the program remain the same, but hopefully the new name will help clarify the EFL program's goal of enhancing the skill set of members as students and throughout their careers.

Online Content for You

Looking for something from a previous issue or want to share content with a colleague, family member, or friend?

You can find previous features from the magazine back to 1979 on our website. One month after each *Bent* is published, the features, Caption Contest, and Brain Ticklers from that issue are posted in PDF format at: www.tbp.org/?Features

Reach out to d.lane@tbp.org with any questions or related requests.

ALUMNI NOTES

Your fellow Tau Bates are interested in news about **you**.



No
Image
Available

ALABAMA GAMMA '82

Jimmy R. (Rusty) Williams

Rusty was recently selected as president and CEO of the Utilities Technology Council, which brings together professionals and advocates on behalf of the energy, utility, and critical infrastructure industry. Rusty has spent his entire 40-year career in the sector, is a Professional Engineer, and received his BSEE from UAB.

CONNECTICUT BETA '89

William E. Villano

William was inducted into the University of Connecticut Academy of Distinguished Engineers in May. An electrical eng'g principal fellow at Collins Aerospace with 37 years of experience developing safety-critical embedded control electronics, he has B.S. degrees in biological science and environmental eng'g and 19 U.S. patents.

FLORIDA ALPHA '04

Rebecca A. Lewis

Rebecca has started a new position as vice president FPL Transformation with Florida Power & Light. She's been working at NextEra Energy, Inc. since 2015, most recently as VP of Internal Audit. Her degrees (MBA and B.S. in industrial eng'g) are from the Univ. of Florida where she served as FL Alpha Chapter president.

MAINE ALPHA '80

Jonathan W. Ladd

Jonathan has been appointed to the Board of Directors for Nanalysis Scientific Corp. He is an experienced technology executive and former CEO of NovAtel Inc. With a track record of scaling global technology businesses, experience in capital markets, and B.S. in surveying engineering, Jonathan currently serves on several boards.

NEW YORK THETA '71

Doug P. Collette

Doug has received the Golden Knight Award from Clarkson University for distinguished achievement and service. As a U.S. Navy researcher, he helped develop the world's first commercial narrowband two-way radio system and had a 50+ year career in telecommunications and network engineering with four co-inventor patents.



NEW YORK OMICRON '79

Ronald N. Segall

Ron recently retired after 46 years in the aircraft industry and FAA. With this knowledge and experience, he's founded Sea-Gal Aero., a consulting LLC, based in Atlanta, GA, to focus on aerospace eng'g services specializing in aerodynamics, flight test, propulsion, and FAA certification. Ron is also active in writing AIAA technical papers.



OKLAHOMA GAMMA '75

Ed G. Stokes P.E.

Ed volunteers as chair of the Oklahoma State Univ. CEAT Strategic Advisory Board and leads the "Oklahoma STEM Pipeline Partnership." He focuses on strengthening K-12 STEM education and technology innovation across the state. Ed worked nearly 40 years at ConocoPhillips and is a past OK Gamma Chapter president.



UTAH ALPHA '13

Christopher "Kiffer" Creveling

Kiffer has joined the Univ. of Wisconsin's dept. of mechanical engineering as assistant teaching faculty. He researched the strength of adhesion between the different layers of the human eye while completing his Ph.D. at the Univ. of Utah. Kiffer is a professional sports photographer and has covered events ranging from the NBA to NCAA.



VIRGINIA ALPHA '06

Matthew J. Geary

Matthew, director of user research and insights at Lenovo, helped create the program that powered the Intelligent Command Center used to organize the FIFA World Cup 2026. The centralized real-time operations platform gave FIFA a holistic, live view of everything happening across the tournament.



WISCONSIN EPSILON '15

Katy Jenkins Ph.D.

Katy recently joined Daylight Solutions as a senior project engineer. She's also been selected for a 2026 Wisconsin Alumni Foundation Forward Award from the University of Wisconsin and was recognized for being a startup co-founder based on research/patent from her Ph.D. work. Katy is a past WI Epsilon Chapter vice president.



Send news about civic activities, honors, weddings, promotions, etc. to Tau Beta Pi, P.O. Box 2697, Knoxville, TN 37901-2697 or to d.lane@tbp.org. Deadlines: November 1 for **Winter** issue and February 1 for **Spring** issue. Include head shot, name, address, chapter/class year, and email address or phone number. We cannot accept graduation announcements. Thank you!



COLORADO DELTA '83

Scott L. Delp Ph.D.

The California Gamma Chapter at Stanford University presented Dr. Delp with the 2025-26 Teaching Award at the department's commencement ceremony on June 14.

A professor of bioengineering and mechanical engineering, he was recognized for his mentorship in cultivating the next generation of innovators. Dr. Delp, director of the Wu Tsai Human Performance Alliance, earned his Ph.D. at Stanford and said, "This award was a big surprise, and I was happy it wasn't just for me but for the whole teaching and lab team."

Senior Sydney Barta, CA G '26, presented the award and described Dr. Delp as being well-renowned and famous in his field, but still incredibly humble. As an approachable person, he became a pivotal mentor helping Barta develop as a bio-mechanics researcher on her path to becoming a physician.

She also said, "Through experiences with him and his lab, he has consistently fostered an environment that encourages curiosity, collaboration, and innovation. He challenges students to think critically while also making complex biomechanical concepts exciting."



Scott Delp (right) receives the Stanford Teaching Award from Sydney Barta (left).

2026 Astronaut Scholars

The Astronaut Scholarship Foundation (ASF) has announced the 2026 Astronaut Scholar Class. This year, ASF awarded 79 scholarships to students from 54 different universities across the nation. Astronaut Scholarships are awarded to students in their junior and senior year of college studying science, technology, engineering, or mathematics with the intent to pursue research or advance their field upon completion of their final degree. See the list of Tau Bates selected below. The full list can be found at www.astronautscholarship.org/scholars/alumni/.

In addition, the ASF has named **Jarret M. Lafleur, Ph.D., GA A '07**, as the 2026 Neil Armstrong™ Award of Excellence recipient. He is chief engineer for Hypersonics at Ursa Major Technologies, a venture-backed aerospace and defense company delivering breakthrough hypersonic solutions powered by liquid rocket engines, solid rocket motors, and space mobility systems.

2026 TAU BATE ASTRONAUT SCHOLARS:

- Samuel F. Orgeldinger, CO A '27
- Andy Zhang, PA Z '27
- Carys E. Daly, FL Z '27
- Joshua H. Ikehara, CA W '27
- Siena M. Madsen, OH X '27
- Madelyn S. Berry, MS A '27
- India A. White, MS A '26
- Turner M. Person, ND A '26
- Cristian M. Barinaga, IN A '27
- Charles W. Behrman, IN A '27
- Maxwell A. Mamishev, IL A '28
- Henry E. Kopp, MN A '27
- Arianna I. Dambold, OK A '28
- Marlena P. Berger, NY K '27
- Joshua T. Woolf, UT G '27



Jarret Lafleur

GEORGIA ALPHA '07

CONSTITUTIONAL RATIFICATION RESULTS

The 2026 Convention approved two amendments to the Constitution and Bylaws of Tau Beta Pi and sent them to the chapters for ratification.

With 259 collegiate chapters and 52 alumni chapters eligible to vote, 234 or more affirmative chapter votes were required to ratify an amendment, and 78 or more negative votes would defeat the amendments.

Headquarters received 163 valid ballots (plus 4 invalid ballots for lack of a chapter quorum) by the original April 1, 2026, deadline.

An additional 73 valid ballots and 21 invalid ballots were received by the extended June 1, 2026 deadline for a total of 206 valid ballots and 25 invalid ballots.

Per the provisions of Const. Art. XV, Sec. 3(c), the Executive Council acted on June 18 and voted in favor of both amendments on behalf of chapters who submitted invalid ballots or did not submit a ballot. The ratified amendments are effective now, and an updated version of the Constitution and Bylaws is available on the website at:

<https://www.tbp.org/off/ConstBylaw2026.pdf>.

The results of the chapter ratification balloting are as follows:

AMENDMENT	OUTCOME
1. Resolve inconsistency in the due date for alumni chapter dues and set the deadline for dues as February 1.	Unresolved by chapter vote; 183 affirmative, 23 negative.
2. Clarify disciplinary actions against chapters since alumni chapters do not conduct initiations.	Unresolved by chapter vote; 186 affirmative, 20 negative.



Member Change of Address

Members, keep your email and mailing addresses current in our system so you don't miss any issues of *The Bent*!

Send updated information to tbp.memberupdate@tbp.org. Please include your name, initiating chapter, year of graduation, and any preferred name changes.

BENEFITS OF MEMBERSHIP

More at: www.tbp.org/member-benefits.cfm

CIVIL SERVICE: Automatic entry-level advancement of U.S. Government applicants to GS-7. More at: <https://www.tbp.org/?TBP GS-7>.

DELL: Discount program on Dell-branded personal products, electronics, and accessories.

FARMERS: Members have access to group discounts on auto and home insurance.

HP: Partnership providing exclusive discounts on HP products.

LOCAL HOSPITALITY: Access to a worldwide inventory of hotels at exclusively discounted rates.

PPI: Receive a 20% discount on PPI-published preparation materials for the FE/EIT and PE engineering licensing exams.

LINKEDIN: Join 39,875+ Tau Bates in our official group for professional networking and career discussions.

TAU BETA PI JOB BOARD: Post a resume online and browse hundreds of engineering jobs at top companies.

COLLEGIATE CHAPTERS

266 COLLEGIATE CHAPTERS
259 ACTIVE — 657,251 MEMBERS

7 Inactive chapters shown in **BLUE**

A = ALPHA
B = BETA
Γ = GAMMA

Δ = DELTA
E = EPSILON
Z = ZETA

H = ETA
Θ = THETA
I = IOTA

K = KAPPA
Λ = LAMBDA
M = MU

N = NU
Ξ = XI
O = OMICRON

Π = PI
P = RHO
Σ = SIGMA

T = TAU
Υ = UPSILON
Φ = PHI

X = CHI
Ψ = PSI
Ω = OMEGA

AL ALPHA Auburn University
BETA University of Alabama
GAMMA Univ. of Ala. at Birmingham
DELTA Univ. of Ala. in Huntsville
EPSILON Univ. of South Alabama
AK ALPHA Univ. of Alaska Fairbanks
AZ ALPHA University of Arizona
BETA Arizona State University
GAMMA Northern Arizona University
DELTA Embry-Riddle Univ., Prescott
AR ALPHA University of Arkansas
BETA Univ. of Ark. at Little Rock
CA ALPHA UC Berkeley
BETA Calif. Institute of Technology
GAMMA Stanford University
DELTA University of Southern Calif.
EPSILON UC Los Angeles
ZETA Santa Clara University
ETA San Jose State University
THETA Calif. State Univ., Long Beach
IOTA Calif. State Univ., Los Angeles
KAPPA Calif. State Univ., Northridge
LAMBDA UC Davis
MU Calif. Poly St. Univ., San Luis Obispo
NU Calif. State Poly Univ., Pomona
XI San Diego State University
OMICRON Loyola Marymount Univ.
PI *Northrop University (inactive)*
RHO California State Univ., Fresno
SIGMA UC Santa Barbara
TAU University of California, Irvine
UPSILON Calif. St. Univ., Sacramento
PHI University of the Pacific
CHI California State Univ., Fullerton
PSI UC San Diego
OMEGA Harvey Mudd College
ALPHA ALPHA Calif. St. Univ., Chico
ALPHA BETA UC Riverside
ALPHA GAMMA San Francisco St. Univ.
ALPHA DELTA UC Santa Cruz
ALPHA EPSILON Univ. of San Diego
CO ALPHA Colorado School of Mines
BETA Univ. of Colorado Boulder
GAMMA University of Denver
DELTA Colorado State University
EPSILON Univ. of Colorado at Denver
ZETA U.S. Air Force Academy
CT ALPHA Yale University
BETA University of Connecticut
GAMMA University of Hartford
DELTA Fairfield University
DE ALPHA University of Delaware
DC ALPHA Howard University
BETA Catholic Univ. of America
GAMMA George Washington Univ.
FL ALPHA University of Florida
BETA University of Miami
GAMMA University of South Florida
DELTA University of Central Florida
EPSILON Florida Atlantic University
ZETA Florida Institute of Technology
ETA FL A&M Univ.-FL State Univ.
THETA Florida International Univ.
IOTA Embry-Riddle Aero. Univ.
GA ALPHA Georgia Institute of Technology
BETA Mercer University
GAMMA Georgia Southern Univ.
DELTA University of Georgia
ID ALPHA University of Idaho
BETA Idaho State University
GAMMA Boise State University
DELTA Brigham Young Univ.-Idaho
IL ALPHA Univ. of IL at Urbana-Champaign
BETA Illinois Institute of Technology
GAMMA Northwestern University
DELTA Bradley University
EPSILON S. Illinois Univ. at Carbondale
ZETA University of Illinois at Chicago
IN ALPHA Purdue University
BETA Rose-Hulman Inst. of Technology
GAMMA University of Notre Dame
DELTA Valparaiso University
EPSILON Trine University
ZETA Indiana Univ.-Purdue Univ. Indpls.
IA ALPHA Iowa State University
BETA University of Iowa
KS ALPHA University of Kansas
BETA Wichita State University
GAMMA Kansas State University

KY ALPHA University of Kentucky
BETA University of Louisville
GAMMA Western Kentucky University
LA ALPHA Louisiana State University
BETA Tulane University
GAMMA Louisiana Tech. University
DELTA Univ. of Louisiana at Lafayette
EPSILON University of New Orleans
ME ALPHA University of Maine
MD ALPHA Johns Hopkins Univ.
BETA University of Maryland
GAMMA U.S. Naval Academy
DELTA Univ. of Maryland Baltimore Co.
EPSILON Morgan State University
MA ALPHA Worcester Polytechnic Inst.
BETA Massachusetts Inst. of Tech.
GAMMA *Harvard University (inactive)*
DELTA Tufts University
EPSILON Northeastern University
ZETA University of Mass. at Amherst
ETA Boston University
THETA Univ. of Massachusetts Lowell
IOTA Western New England Univ.
KAPPA Merrimack College
LAMBDA Wentworth Institute of Tech.
MI ALPHA Michigan State University
BETA Michigan Technological Univ.
GAMMA University of Michigan
DELTA University of Detroit Mercy
EPSILON Wayne State University
ZETA Kettering University
ETA Lawrence Technological Univ.
THETA Oakland University
IOTA Univ. of Michigan-Dearborn
KAPPA Western Michigan Univ.
LAMBDA Grand Valley State Univ.
MN ALPHA Univ. of Minnesota-Twin Cities
BETA Univ. of Minnesota, Duluth
MS ALPHA Mississippi State University
BETA University of Mississippi
MO ALPHA Univ. of Missouri-Columbia
BETA Missouri Univ. of Science & Tech.
GAMMA Washington University
DELTA Univ. of Missouri-Kansas City
EPSILON Saint Louis University
MT ALPHA Montana State University
BETA Montana Tech. of the Univ. of MT
NE ALPHA Univ. of Nebraska-Lincoln
NV ALPHA University of Nevada, Reno
BETA Univ. of Nevada, Las Vegas
NH ALPHA Univ. of New Hampshire
BETA Dartmouth College
NJ ALPHA Stevens Institute of Technology
BETA Rutgers University
GAMMA New Jersey Inst. of Tech.
DELTA Princeton University
EPSILON Rowan University
ZETA The College of New Jersey
NM ALPHA New Mexico State University
BETA University of New Mexico
GAMMA NM Inst. of Mining & Tech.
NY ALPHA Columbia University
BETA Syracuse University
GAMMA Rensselaer Polytechnic Inst.
DELTA Cornell University
EPSILON *New York Univ. (inactive)*
ZETA *Brooklyn Polytechnic (inactive)*
ETA City College of CUNY
THETA Clarkson University
IOTA Cooper Union School of Eng'g.
KAPPA University of Rochester
LAMBDA *Pratt Institute (inactive)*
MU Union College
NU SUNY at Buffalo
XI Manhattan College
OMICRON SUNY at Stony Brook
PI Rochester Institute of Tech.
RHO NYU Tandon School of Eng'g.
SIGMA Alfred University
TAU Binghamton University
UPSILON U.S. Military Academy
NC ALPHA North Carolina State Univ.
BETA *Univ. of North Carolina (inactive)*
GAMMA Duke University
DELTA Univ. of NC at Charlotte
EPSILON NC A&T State University
ZETA East Carolina University
ETA Western Carolina University
THETA Campbell University

ND ALPHA North Dakota State University
BETA University of North Dakota
OH ALPHA Case Western Reserve Univ.
BETA University of Cincinnati
GAMMA Ohio State University
DELTA Ohio University
EPSILON Cleveland State Univ.
ZETA University of Toledo
ETA Air Force Institute of Tech.
THETA University of Dayton
IOTA Ohio Northern University
KAPPA University of Akron
LAMBDA Youngstown State Univ.
MU Wright State University
NU Cedarville University
XI Miami University
OK ALPHA University of Oklahoma
BETA University of Tulsa
GAMMA Oklahoma State University
OR ALPHA Oregon State University
BETA Portland State University
GAMMA University of Portland
DELTA Oregon Institute of Tech.
PA ALPHA Lehigh University
BETA Pennsylvania State University
GAMMA Carnegie Mellon University
DELTA University of Pennsylvania
EPSILON Lafayette College
ZETA Drexel University
ETA Bucknell University
THETA Villanova University
IOTA Widener University
KAPPA Swarthmore College
LAMBDA University of Pittsburgh
MU Penn State Erie, Behrend College
PR ALPHA University of Puerto Rico
QATAR ALPHA Texas A&M Univ. at Qatar
RI ALPHA Brown University
BETA University of Rhode Island
SC ALPHA Clemson University
BETA University of South Carolina
GAMMA The Citadel
SD ALPHA S. Dakota Sch. of Mines & Tech.
BETA South Dakota State University
TN ALPHA University of Tennessee
BETA Vanderbilt University
GAMMA Tennessee Tech. University
DELTA Christian Brothers Univ.
EPSILON University of Memphis
ZETA Univ. of Tenn. at Chattanooga
ETA Lipscomb University
TX ALPHA University of Texas at Austin
BETA Texas Tech. University
GAMMA Rice University
DELTA Texas A&M University
EPSILON University of Houston
ZETA Lamar University
ETA Univ. of Texas at Arlington
THETA Univ. of Texas at El Paso
IOTA Southern Methodist University
KAPPA Prairie View A&M University
LAMBDA Texas A&M Univ.-Kingsville
MU Univ. of Texas at San Antonio
NU Univ. of Texas Rio Grande Valley
XI University of Texas at Dallas
UAE ALPHA American Univ. of Sharjah
UT ALPHA University of Utah
BETA Brigham Young University
GAMMA Utah State University
VT ALPHA University of Vermont
BETA Norwich University
VA ALPHA University of Virginia
BETA Virginia Poly. Inst. & State Univ.
GAMMA Old Dominion University
DELTA Virginia Military Institute
EPSILON Virginia Commonwealth Univ.
WA ALPHA University of Washington
BETA Washington State University
GAMMA Seattle University
DELTA Gonzaga University
WV ALPHA West Virginia University
BETA West Virginia Univ. Inst. of Tech.
WI ALPHA Univ. of Wisconsin-Madison
BETA Marquette University
GAMMA Univ. of Wisconsin-Milwaukee
DELTA Milwaukee School of Eng'g.
EPSILON Univ. of Wisconsin-Platteville
WY ALPHA University of Wyoming

ALUMNI CHAPTERS

82 ALUMNI CHAPTERS
52 ACTIVE

30 Inactive chapters shown in **BLUE**

DISTRICT 1
Central CT, Hartford
Greater Boston Area, MA

DISTRICT 2
Buffalo, NY
Central Jersey, NJ
Long Island Suburban, NY
Newark, NJ
New York City, NY
New York Capital District, NY
Rochester, NY
Southern Tier, Binghamton, NY

DISTRICT 3
Lehigh Valley, Bethlehem, PA
Philadelphia, PA
Pittsburgh, PA
Wilmingon, DE

DISTRICT 4
Baltimore, MD
Charlotte, NC
Hampton Roads, Newport News, VA
Kanawha Valley, Charleston, WV
Research Triangle, Durham-Chapel Hill-Raleigh, NC
Richmond, VA
Washington, DC

DISTRICT 5
Atlanta, GA
Central FL, Orlando
Daytona Beach, FL
Gainesville, FL
Miami, FL
Midlands, Columbia, SC
Palm Beach/Broward, FL
Piedmont, Clemson, SC
Puerto Rico
Southwest FL
Tampa Bay, FL

DISTRICT 6
Bluegrass, Lexington-Frankfort, KY
Central Alabama, Birmingham
Great Smoky Mountains, Knoxville-Oak Ridge, TN
Greater Gulf Coast, Mobile, AL
Louisville, KY
Mid-South, Memphis, TN
Rocket City, Huntsville, AL

DISTRICT 7
Ann Arbor Area, MI
Central MI, Lansing
Cincinnati, OH

DISTRICT 7
Columbus, OH
Dayton, OH
Flint, MI
Ohio's North Coast, Cleveland
SE Michigan, Detroit
West Michigan, Grand Rapids

DISTRICT 8
Chicago Area, IL
Central Illinois, Urbana-Champaign
Indianapolis, IN
Milwaukee Area, WI

DISTRICT 9
Kansas City, KS
Pioneer, OK
Rolla, MO
Scissortail, OKC-Norman, OK
St. Louis, MO

DISTRICT 10
Central Texas, Austin/San Antonio
North Texas, Dallas-Fort Worth
Greater New Orleans, LA
Texas Gulf Coast, Houston

DISTRICT 11
Ames, IA
Minnesota, Twin Cities, MN

DISTRICT 12
Pikes Peak, CO
Front Range, CO/WY
Wasatch Front, UT
Treasure Valley, Boise, ID

DISTRICT 13
Albuquerque, NM
El Paso, TX
Phoenix, AZ
Sun City, AZ
Tucson, AZ

DISTRICT 14
Columbia River Basin, Richland, WA
Portland, OR
Puget Sound, Seattle, WA

DISTRICT 15
Sacramento Vly, CA
SF Bay Area, CA
SF Peninsula, Palo Alto, CA

DISTRICT 16
Los Angeles, CA
Orange County, CA
Greater San Diego, California
Southern California

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