

SPRING 2023



# The Bent

Of Tau Beta Pi

THE ENGINEERING HONOR SOCIETY



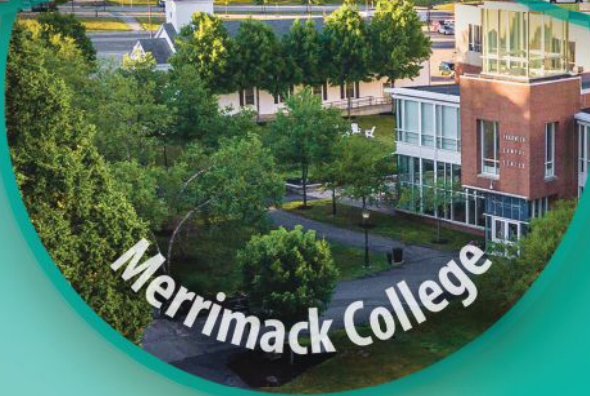
Western Carolina University



University of Georgia



Lipscomb University



Merrimack College

4 New  
Chapters  
in 2023

Tau Beta Pi  
NAE Fellows

# ALUMNI CHAPTERS

81 ALUMNI CHAPTERS  
49 ACTIVE

32 Inactive chapters shown in **BLUE**

## DISTRICT 1

Central CT, Hartford  
Greater Boston Area, MA

## DISTRICT 2

Buffalo, NY  
Central Jersey, NJ  
LI 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  
Wilmington, 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  
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  
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  
Salt Lake City, 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

# COLLEGIATE CHAPTERS

261 COLLEGIATE CHAPTERS  
255 ACTIVE — 629,361 MEMBERS

6 Inactive chapters shown in **BLUE**

Α = ALPHA Δ = DELTA Η = ETA Κ = KAPPA Ν = NU Π = PI Τ = TAU Χ = CHI  
Β = BETA Ε = EPSILON Θ = THETA Λ = LAMBDA Ξ = XI Ρ = RHO Υ = UPSILON Ψ = PSI  
Γ = GAMMA Ζ = ZETA Ι = IOTA Μ = MU Ο = OMICRON Σ = SIGMA Φ = PHI 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 at 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  
**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 University  
**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]  
**THETA** 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

**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  
**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  
**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



# The Bent

SPRING 2023

SPRING 2023 | VOLUME CXIV | No. 2

## FEATURES:

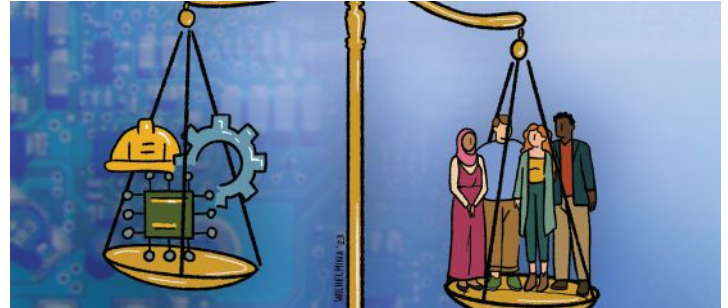
- 6 Engineering for Equity: Factors and Aspirations  
*Komal Syed, MD B '12, Mary Mathias, and Courtney Hill*
- 14 When Professional Engineering Services Go Awry  
*by Richard T. Redano, NC A '78*

## REPORTS:

- 5 NAE Fellows
- 10 Chapter Endowment Update
- 40 University of Georgia
- 42 Lipscomb University
- 44 Western Carolina University
- 46 Merrimack College

## DEPARTMENTS:

- 2 Council's Corner
- 4 Who's Who
- 13 Caption Contest
- 18 Brain Ticklers
- 21 Authors
- 22 Alumni Giving
- 28 In the Colleges
- 30 Families
- 34 Council Minutes
- 36 Chapter Eternal
- 52 Association Briefs
- 54 Alumni Notes



**06** Imbalances in social justice and integrating concepts in engineering education



**14** A Tau Beta Pi lawyer provides a deeper understanding of engineering malpractice.



**30** Celebrating Tau Beta Pi Families



**COVER:** Recognizing the four schools that will have official TBPi collegiate chapters installed this spring.  
**Artist:** Dali Polivka

**Editor:** Dylan S. Lane

**Managing Editor:** Patricia B. McDaniel

**Editorial Board:** Lyle D. Feisel, Ph.D., P.E. (ret.), IA A '61; James D. Froula, P.E. (ret.), TN A '67; Alison L. Hu, CA I '96; Bridget A. Moorman, AZ B '85; and John W. Prados, Ph.D., P.E., TN A '54.

**Copy Editor:** Angela Boles

Tau Beta Pi was founded at Lehigh University, South Bethlehem, PA, June 15, 1885, by Edward H. Williams Jr., A.B., A.C., E.M., Sc.D., LL.D. (1849-1933). Key and name registered in U.S. Patent and Trademark Office.

Member, American Society for Engineering Education; co-founder Association of College Honor Societies; and Affiliate, American Association for the Advancement of Science.

VISIT [www.tbp.org](http://www.tbp.org)

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# COUNCIL'S CORNER

Joan M. Sciacca, CA M '87, TBPI 2023 Executive Councillor

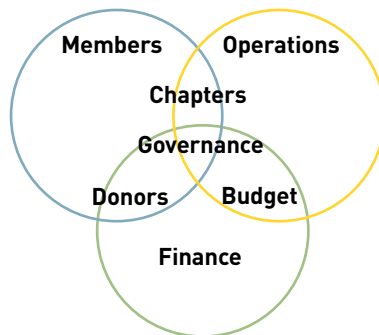
## JOIN US ON OUR STRATEGIC JOURNEY—A CALL TO ACTION

The beginning of a new year is a great time to reflect on accomplishments from the prior year and to set goals for the coming year. There is a quote attributed to Lewis Carroll which is actually a paraphrasing of the exchange between Alice and the Cheshire Cat. “If you don’t know where you’re going, any road will take you there.” You need a plan. You need vision. You need clear long-range objectives and SMART (Specific, Measurable, Achievable, Relevant, Timely) annual goals to accomplish each step towards your target.

Organizations are no different from individuals when it comes to goal setting. For Tau Beta Pi to be successful, it must have a clear direction and long-range vision around which the Association can organize and move forward. Without multi-year, long-range objectives, Tau Beta Pi would simply keep doing what it has always done. Every year, as TBPI’s Executive Council elects new members, we may be tempted to jump from one shiny object to the next based on the profile of the Council. That would be an inefficient and ineffective use of resources!

So, what’s the plan? The Association is complex. By making the complex simple, we can improve our focus and turn ideas into actions. By focusing on the critical few areas of opportunity, we can define clear objectives with measurable targets which can improve our organization as a whole.

In 2022, the Council concluded, from a strategic planning perspective, that there are three core elements for the Association. These elements are not mutually exclusive to each other and intersect and overlap as shown in the Venn diagram.



1. **Membership:** This is our *raison d'être*. We honor outstanding engineering students and practicing engineers by inviting them to become members. Without an influx of new members each year, we will cease to exist.

2. **Finance:** TBPI, like any other organization, needs funding to operate. Thanks to our outstanding Trust Advisory Committee and generous donors, our finances are in good hands.

3. **Operations:** TBPI is a complex membership organization that is, in many ways, different from other corporations. We keep track of over 600,000 initiated members, as well as our invaluable volunteers, donors, outstanding programs that benefit our members, and much more.

In 2023, the Council elected to highlight *Identity* as a critical element of membership. Who are we? How might we better communicate who we are and what we do to improve brand recognition and drive the desire to become a member? A new graphic was developed by the EC to display key strategic elements. Actions linked to *Identity* should support our membership goals. (See Figure A on page 3.)

A long-term objective has been identified for each of the core elements:

### MEMBERSHIP

#### Median candidate membership acceptance rate exceeds 20 percent

The list of things competing for a student’s time is very long. How might we make TBPI worth their attention and time? How might we paint a value proposition that answers the question “What’s In It For Me?” How can we market ourselves to differentiate TBPI from other industry associations and honor societies? How can we create collaborative environments for our Advisors, Alumni Chapters, and District Directors to support the student chapters?

### FINANCE

#### The Association has an unrestricted annual revenue of \$2.9M

It’s unrestricted funds that pay Headquarters (HQ) team, support programs like Engineering Futures, MindSET, and provide funding for students to participate in District Conferences and the annual Convention. Without our HQ team, chapters would flounder. Without unrestricted funds, we cannot upgrade our systems and provide a higher level of service to chapters and members. Please consider making all or a portion of your next major donation unrestricted.

### OPERATIONS

#### Implement an updated AMS (Association Management System)

In 2022, we spent months working with a consultant to evaluate Commercial Off the Shelf Association Management Systems. What we found is that there are no systems that could accommodate our current capabilities and future needs, within our price range. We have,

Council’s Corner continues on page 3.



# YOUR LETTERS

Send letters to [tbp.media@tbp.org](mailto:tbp.media@tbp.org). Text may be edited for length and clarity; not all letters can be published.

# FROM THE EDITORS

Dylan Lane and Patricia McDaniel

## A Magazine for Engineers

Keep up the excellent work — *The Bent* is the best — every issue makes me proud of “our” profession!

**Randy E. Smith, PA B '84**

## Hertz Article

Thank you for the article: *Why Do We Call It a Hertz*. Could Prof. Feisel please provide some background on the Nazi attempt to rename the hertz the helmholz?

Thank you for your speedy reply (Dr. Feisel). The Wikipedia section (Heinrich Hertz) on Wikipedia appears to represent the *Juden wider Willen* [Jews against their will] article well. And thank you very much for your articles; I relish them.

**Evelyn K. Kinzel, Ph.D., OH T '69**

In this issue we consider two worthy subjects; engineering malpractice litigation and the relationship between engineering and social justice concepts.

**Richard T. Redano, NC A '78**, is an attorney who began his career as a nuclear engineer. In his article on page 14, “When Professional Engineering Services Go Awry,” Redano offers a reader-friendly overview of the legal implications an engineer providing services should consider, along with interesting examples of actual malpractice cases.

We thank the National Academy of Engineering for permission to reprint an article from the Summer 2022 issue of *The Bridge*. “Engineering for Equity: Factors and Aspirations” on page 7 is co-authored by three NAE employees, one of whom is a TBP member, **Komal Syed, MD B '12**. Here, we are reminded that the consideration of social justice concepts in engineering “is not new,” and there is a need to interject this awareness into modern engineering education. Our thanks to **Chris McComb, Ph.D., CA Rho '12**, for his introduction to the article on page 6, and support of Tau Beta Pi’s efforts to embrace Diversity, Equity, and Inclusion on campus and in the profession.

We hope you find these articles useful and enlightening, and we encourage your comments and ideas for new topics to explore in *The Bent*.

## Council’s Corner continued from page 2.

therefore, decided to continue with an in-house strategy for our Association Management System. We’ve hired an additional programmer at HQ and will be embarking on a redesign and refresh project for our management system.

For each of these objectives, SMART goals are being developed by the EC. The *how* and *when* we get there then becomes a matter of execution. A strategic plan that lacks execution is not worth the paper upon which it’s written.

The Executive Council is elected by the Association through chapter delegates to the annual Convention. The EC governs the Association when the Convention is not in session and, therefore, represents you and is responsible for executing the strategic plan, *but we cannot do it alone*. You are a member of **Tau Beta Pi for life**. Please become a part of the process — be a part of the solution that ensures Tau Beta Pi realizes its vision of *being universally recognized as the preeminent engineering honor society that students of all engineering disciplines strive to join*.



Figure A

Please feel free to contact your Executive Council (information at: [www.tbp.org/about/EC.cfm](http://www.tbp.org/about/EC.cfm)) and ask questions or share your ideas for the Association.

So, now you know where we’re going and we hope you will join us on the journey. You, our members, are brilliant. We need you to share your energy and ideas. Please volunteer (go here: [www.tbp.org/?oppo](http://www.tbp.org/?oppo)) to serve on a committee and help us implement solutions to meet our goals and objectives.

Thank you for all you do to make **your** Association great and we look forward to your help in making us even better.

.....  
**JOAN SCIACCA** retired from Honeywell International where she held leadership positions in business and engineering. Joan served as CA Mu Chapter president and earned a B.S. degree in aerospace engineering from Cal Poly Obispo. She founded Finestra Consulting LLC and continues her passion for process excellence and coaching/mentoring early career professionals in leadership. Joan joined the Tau Beta Pi Executive Council in 2021.



# WHO'S WHO IN TAU BETA PI

Recognizing Tau Bate accomplishments

## Andrea J. Goldsmith Ph.D.

*California Alpha '86*

was named an international fellow of the Royal Academy of Engineering, the United Kingdom's national academy of engineering. As Princeton University Dean of the School of Engineering and Applied Sciences, she has helped shape mobile technology and laid ground rules for cellular and Wi-Fi network performance. She co-founded and was CTO of Plume® WiFi and Quantenna Communication.



## Jenna R. Jambeck Ph.D.

*Florida Alpha '96*

was selected as a 2022 MacArthur Fellow (known as "Genius Grants") for her work investigating the scale and pathways of plastic pollution and galvanizing efforts to address plastic waste. She is a Distinguished Professor of Environmental Engineering at the University of Georgia and states, "It is nearly impossible to avoid disposable plastic in the majority of our current world. That's what I hope my work and open data can help to change."



## Russell T. Johns Ph.D.

*Illinois Gamma '82*

was selected to receive the 2022 Improved Oil Recovery Pioneer Award from the International Society of Petroleum Engineers. The award recognizes his major contributions to the understanding of unconventional resource recovery and for the breadth of papers he has published on phase behavior with miscible gas displacements. He is a professor of petroleum and natural gas engineering at Penn State.



## Christopher Macosko Ph.D.

*Pennsylvania Gamma '66*

is the 2023 recipient of the prestigious Charles Goodyear Medal "for his extensive and groundbreaking work in developing basic relations for crosslinking polymerization." He is a Univ. of Minnesota professor emeritus and has conducted pioneering work in areas of the growth of molecular weight, branching, crosslink network formation, crosslink density, and sol fraction. He will be honored in April by the ACS Rubber Division.



## Asad M. Madni Ph.D.

*California Epsilon '69*

received the Prince Philip Medal from Her Royal Highness the Princess Royal, Royal Fellow of the Royal Academy of Engineering. The award "recognizes his decades-long career developing and commercializing intelligent sensors and systems across the aerospace, manufacturing, and transportation industries." Dr. Madni is retired president and CTO of BEI Technologies Inc. and TBIT McDonald Mentor (2022) and Dist. Alumnus (2014).



## Norma Jean Mattei Ph.D., P.E.

*Louisiana Beta '82*

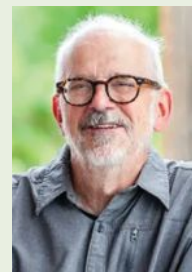
was appointed as a member of the President's National Infrastructure Advisory Council, which advises the White House on how to reduce physical and cyber risks and improve the security and resilience of the nation's critical infrastructure sectors. She is a professor at the Univ. of New Orleans, LA Epsilon Chapter Chief Advisor, and serves as one of two civilian civil engineer commissioners on the Mississippi River Commission.



## John L. Melanson

*Colorado Beta '74*

registered his 500th patent with the U.S. Patent Office in 2022, making him one of the most prolific inventors of all time. He is a senior technical fellow at Austin-based Cirrus Logic, that makes low-power voice and audio chips for smart devices. In 1999, Cirrus acquired the audio technology firm, Audio Logic, of which Melanson was a founding member. John also pioneered the first use of low-power digital signal processors for hearing aids.



## Colin J. Parris Ph.D.

*District of Columbia Alpha '85*

was named 2023 Black Engineer of the Year by *US Black Engineer & Information Technology* magazine at the 37<sup>th</sup> annual Black Engineer of the Year Award (BEYA) STEM Conference. He was recognized "for his significant contributions to the fields of science and engineering and his work in digital transformation." Colin is senior vice president and GE Digital Chief Technology Officer.



## L. Rafael Reif Ph.D.

*Massachusetts Beta '73*

was awarded the Simon Ramo Founders Award "for pioneering work and leadership advancing semiconductor technology, online learning, entrepreneurship, computing, work of the future, and climate and sustainability." He served as president of MIT from 2012-22 and leads the institute's pioneering efforts to help redefine the future of higher education. After a sabbatical, Dr. Reif will return to the MIT engineering faculty.



# Elects 106 New Members

President John L. Anderson, Ph.D., *DE A '67*, has announced the election of **106 new members** and **18 international members** to the NAE. Election to the Academy is among the highest professional distinctions accorded to an engineer. It honors those who have made outstanding contributions to "engineering research, practice, or education" and to "pioneering of new and developing fields of technology and making major advancements..." **The 28 new Tau Beta Pi/NAE members are listed below.**

**Mark G. Allen**, Ph.D., *PA Δ '84*

Professor and inaugural scientific director, University of Pennsylvania. For contributions to the technology and commercialization of microelectromechanical systems (MEMS) for health care.

**Robert D. Caligiuri**, Ph.D., P.E. *CA A '73*

Corporate VP and principal engineer, Exponent. For contributions to understanding failure mechanisms in engineering materials, especially in metals at very high strain rates.

**Ramalingam Chellappa**, Ph.D., *IN A '81*

Distinguished Professor (ECE), Johns Hopkins University. For contributions to digital image analysis, automatic face recognition, and applications.

**Jennifer S. Curtis**, Ph.D., *CA A '83*

Distinguished professor (ChE), University of California, Davis. For work on particle-laden flows and industrially used algorithms for dilute and dense-phase gas-solid flow.

**Benny D. Freeman**, Ph.D., *NC A '83*

Endowed Chair in Engineering (ChE), University of Texas, Austin. For the development of polymeric membranes for gas separation, ion transport, and gas & water purification.

**David U. Furrer**, Ph.D., *WI A '88*

Sr. Fellow discipline lead, Pratt & Whitney. For development and industrial implementation of computational modeling tools enabling efficient material/process/product design of legacy & emerging aerospace alloys.

**Patrick P. Gelsinger**, *CA Z '83*

Chief executive officer, Intel Corp. For technical and business leadership in the semiconductor and computing industries.

**Donald Goldfarb**, Ph.D., *NY Δ '63*

Professor, industrial engineering and operations research, Columbia University. For the development of widely used algorithms and methodologies for linear, quadratic, and nonlinear optimization.

**Peter F. Green**, Ph.D., *MI Γ '83*

Deputy lab director and chief research officer, National Renewable Energy Lab. For contributions in the physics of polymer diffusion, glass behavior, and organic electronic devices and leadership in the energy technologies.

**Deborah L. Grubbe**, P.E., *IN A '77*

President and owner, Operations and Safety Solutions LLC. For contributions and leadership to improve engineering safety practices in the chemical process industries.

**David Huang**, M.D., Ph.D., *MA B '85*

Associate director and director of research, Casey Eye Inst., Oregon Health & Science Univ. For development of multidimensional micron-level optical imaging technologies that revolutionized the diagnosis and treatment of eye diseases.

**Lisa P. Jackson**, *LA B '83*

Vice president, Environmental, Policy, and Social Initiatives, Apple Inc. For sustainability leadership in government and business to protect air and water quality and limit greenhouse gas emissions.

**Roger D. Kamm**, Ph.D., *IL Γ '72*

Distinguished Professor of biological and mechanical eng'g, Massachusetts Institute of Technology. For contributions to the understanding of mechanics in biology and medicine, and leadership in biomechanics.

**Anthony R. Kocscek**, Ph.D., *WA A '89*

Professor of petroleum engineering, energy science & engineering, at Stanford University. For contributions to pore-scale imaging and understanding of foam flow in porous media.

**Kelin J. Kuhn**, Ph.D., *WA A '80*

Adjunct professor, materials science and engineering, Cornell University. For technical contributions enabling development and integration of novel transistor devices.

**James G. Maser**, *OH K '83*

Senior vice president, Space, Aerojet Rocketdyne. For dedicated work in the space launch industry and leadership of established and emerging companies.

**Larry T. Nitz**, *MI Z '81*

Vice executive chief engineer (retired), General Motors Co. For contributions to and leadership in the development and global implementation of innovative automotive propulsion systems and electrification.

**Christopher K. Ober**, Ph.D., *NY Δ '80*

Professor of metallurgical engineering, materials science and engineering, Cornell University. For the invention of new photoresist families enabling high-resolution lithography in microelectronics manufacturing.

**Karen A. Panetta**, Ph.D., *MA Δ '85*

Dean of graduate education and professor, Tufts University. For leadership empowering females in STEM, and for contributions to computer vision and simulation algorithms.

**David J. Parrillo**, Ph.D., *RI B '89*

Vice president, research and development, Dow Chemical Co. For development and commercialization of innovative processes and products for consumer and industrial applications.

**Mark R. Prausnitz**, Ph.D., *CA Γ '88*

Professor and Chair in chemical & biomolecular engineering, Georgia Institute of Technology. For invention, development, and translation of dissolvable microneedles for painless vaccination and drug delivery.

**Adalio T. Sanchez**, *FL B '81*

President, S Group Advisory LLC. For contributions that improved business processes through the advancement of leading-edge innovations in personal, enterprise server, and supercomputing systems.

**William H. Sanders**, Ph.D., *IL A '83*

Dean, College of Engineering, Carnegie Mellon University. For technical contributions and interdisciplinary leadership in cybersecurity and resiliency technologies for critical infrastructures.

**John W. Sutherland**, Ph.D., *IL A '81*

Professor and head, environmental and ecological engineering, Purdue University. For research contributions to environmental sustainability in manufacturing and their implementation in industry.

**Kevin L. Tomsovic**, Ph.D., *MI B '82*

Chancellor's professor, department of electrical engineering & computer science, University of Tennessee, Knoxville. For contributions to power system computational methods and power engineering education.

**Amin Vahdat**, Ph.D., *CA A '92*

Fellow and vice president, Google LLC. For contributions to the design and implementation of datacenter and planet-scale networks that power cloud computer systems.

**Gregory N. Washington**, Ph.D., *OH Γ '89*

President, George Mason University. For the advancement of technology at the interface of electromagnetics and materials, and dedicated leadership and service in engineering education.

**Paul Westerhoff**, Ph.D., P.E., *PA A '89*

Professor and chair of environmental eng'g, Arizona State University. For leadership and pioneering research on emerging contaminants assessment and water purification technologies.

# Feature Introduction from the Tau Beta Pi Diversity, Equity & Inclusion Committee

BY CHRIS C. McCOMB, PH.D., CALIFORNIA RHO '12

Tau Beta Pi was founded with the goal “to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character.” Historically, this effort has centered around college campuses where chapters focus their operations to fulfill our founding goal. We boast over 629,000 total members, 255 chapters, and 49 active alumni chapters, but focusing only on these numbers isn’t enough.

**We know more now than we did in 1885**, when our Association was founded. We understand more about the mechanics of systemic bias, power imbalance, and systems of oppression. And, it is time for us to grapple with the bias in our own history. As far as we know, the first Black member of Tau Beta Pi was initiated in 1916 (Lewis King Downing, *MI F 1921*); the first woman was initiated in 1969 (Lynne Marie Bergbreiter, *MI A 1970*); and yet, Black and women engineers are still far underrepresented in the profession compared to their white male counterparts. While we are happy to celebrate the accomplishments of those who succeed with less privilege, we shoulder no accountability, and pursue no justice.

**Talent is evenly distributed, but opportunity is not.** Although that may overly simplify the issue, it is fundamentally true that opportunity variability is the dominant factor in who succeeds and who falls behind in life, while talent alone is less impactful. This means that those who rise to the top of honor roles and valedictorian lists are often those who have had more doors opened for them.

**I am inspired by the efforts of so many in our Association** to remedy inequities in our Association and profession. I walk in the footsteps of Tonya Whitehead, Stephan King-Monroe, Menna Youssef, and so many others who are already working on this effort. I was honored to work with the DEI Committee at the 2022 Convention and saw the energy of this generation. I am sure that there are many other efforts across chapters, working towards the same goal.

**It is time for us to do better.** I call on every member of Tau Beta Pi to join in using our privilege to grow an equitable abundance of opportunity in all of the facets of engineering. I call on alumni and student chapters to not only grow their initiation pool, but to lengthen and broaden the pathways to membership. Let ours be no stationary goal. Rather than being content *to mark in a fitting manner those who have conferred honor upon their Alma Mater*, let us instead ensure that all who may one day confer honor on their alma mater have the opportunity to do so. We must do better in offering visionary leadership to the profession.

**The following article, co-authored by one of our own alumni**, offers concrete recommendations and highlights considerations that are vital for us to address as we move forward. Reflect on the words, take a deep breath, and then join us in the work.

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## ABOUT THE AUTHOR:

Chris McComb is an associate professor of mechanical engineering and Director, Human+AI Design Initiative at Carnegie Mellon University. He serves TBPi as a District 3 Director, an advisor to the Pennsylvania Beta Chapter, and by serving on the DEI Committee.

**“Do the best you can until you know better. Then when you can, do better.”**

— Maya Angelou



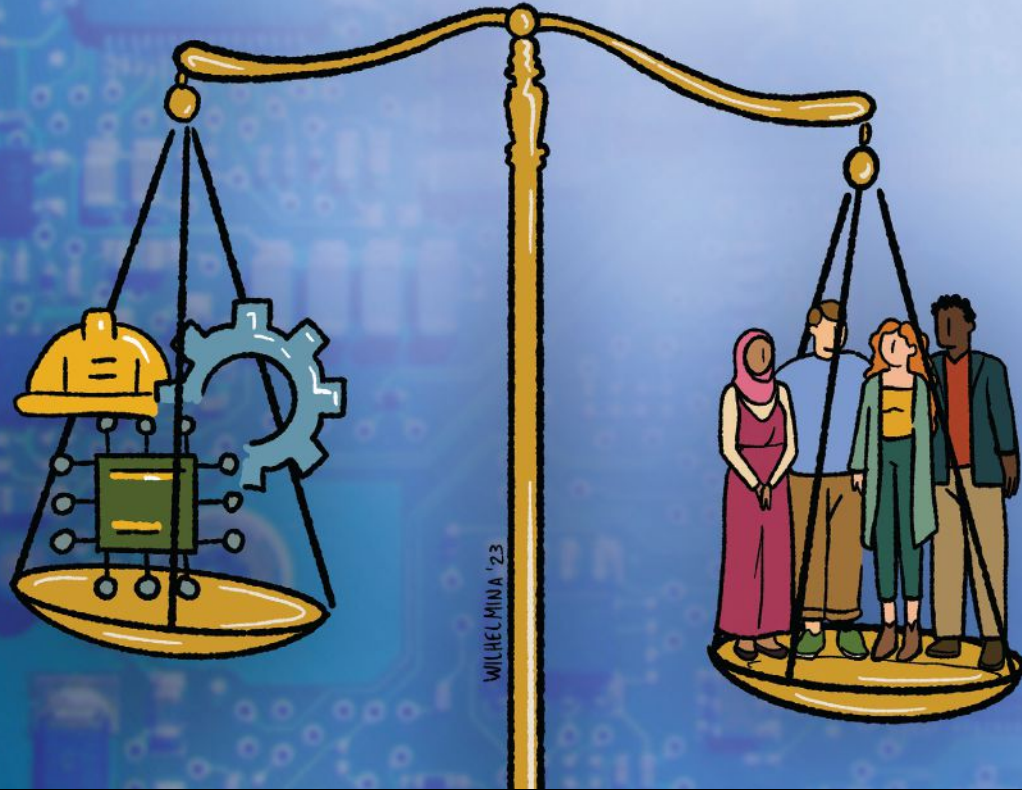
Lewis King Downing, Ph.D.



Lynne Marie Bergbreiter



Chris McComb, Ph.D.



# Engineering for Equity: Factors and Aspirations

BY KOMAL SYED, MARYLAND BETA '12; MARY MATHIAS & COURTNEY HILL  
PRINTED WITH PERMISSION FROM THE NATIONAL ACADEMY OF ENGINEERING

Engineers are not the first actors that come to mind when considering social justice issues, but they play an integral role in designing and operating the sociotechnical systems in which we work and live.

## FACTORS OF CONCERN

Decisions of engineers and the social power imbalances that exist around them have significant societal impacts. The twin lacks of education about how engineering and social justice issues are intertwined and of diversity in the field have led to a long history of inequitable engineering decisions made without considering their effects on large groups of people heavily affected by them.

Disproportionately high levels of environmental pollution in poor communities (Katz 2012), algorithmic bias in facial recognition technologies that lead to wrongful arrests of people of color (Najibi 2020), and the increased

risk of female injury in automobile crashes because of their inadequate representation in crash testing protocols (Barry 2021) are just a few examples illustrating the critical need to integrate equity in engineering. These technology-based inequities demonstrate the urgent need to prepare engineers who understand the societal implications of their work and can design equitable socio-technical systems. Such systems promote a healthy society and distribute benefits to the system's users equitably, taking into consideration different stakeholders' requirements of technology (e.g., based on age, physical and mental abilities, socioeconomic or cultural background).

Educators across the country have risen to the task with education interventions, community-building approaches, and design initiatives that incorporate social justice concepts. Even with these efforts, much progress is still needed to integrate

these concepts into the mainstream understanding of engineering practitioners.

## HISTORICAL CONTEXT

Merging social justice concepts into the profession is not new—discussions of injustice and industry date back to Adam Smith's writings in the 1700s (e.g., *The Theory of Moral Sentiments*, 1774). During the Vietnam War, engineers who were conflicted by the field's contribution to the design and production of military weapons formed the Committee for Social Responsibility in Engineering, which inspired engineers to use their skills with regard to social context instead of only profit. The resulting publication *SPARK* identified negative applications of engineering skills and opportunities to work toward liberatory ends (Wisnioski 2012).

Since then engineering education scholars have made essential contributions to incorporate social and

political-economic context in students' understanding of engineering. Progressive engineering education reform efforts—including educational and professional community-building interventions as well as scholarly contributions—have been categorized in terms of how they could work at different levels of reform to comprehensively integrate social justice into the field (Nieusma 2013). And studies have examined how engineering could be changed if social justice were a core component of the profession (Baillie et al. 2012; Riley and Lambrinidou 2015).

Scholarship thus laid a critical foundation that engineering educators are using today as they harness students' heightened interest in social justice to develop more “reflective practitioners” (Schön 2017). Yet despite student interest and sound conceptual frameworks, efforts to integrate social justice concepts remain largely in science, technology, and society departments and have not extended into engineering programs' technical core.

## FACULTY AND STUDENT CONCERNS

The bulk of engineering curriculum in most academic institutions gives little opportunity for students to think deeply about sociotechnical systems (Leydens and Lucena 2016). However, engineering curriculum can make a major difference in whether students feel engaged or disengaged from their professional responsibility to public welfare (Lucena and Leydens 2015). Many universities are trying to include courses and programs (McGlynn 2014) to bring attention to the critical role of engineering in big-picture solutions by focusing on connections between engineering design and impact on local and global communities.

While an increasing number of engineering researchers and educators are trying to integrate social justice into their work, challenges remain. Faculty have noted that one of the main challenges in changing engineering curriculum is accreditation (Lucena and Leydens 2015). Another concern is that

adding content to engineering curriculum implies sacrificing other content. Engineering educators are working to address these concerns in a variety of ways, including, for example, the incorporation of social justice concepts in textbook problems in core engineering subjects such as thermodynamics (Riley 2011).

Another challenge in integrating social justice in engineering curriculum is student attitude. While some students welcome the explicit recognition of social justice concerns in the study and practice of engineering, others see the topic as an irrelevant addition to the curriculum or worry about missing technical content by taking courses with social justice topics (Lucena and Leydens 2015). One study found that engineering students' interest in and understanding of public welfare concerns and overall social responsibility may actually decline over the course of their engineering education (Cech 2014).

It is worth noting that, while ABET's accreditation focuses primarily on the technical content, its code of ethics states that engineers should put “the safety, health, and welfare of the public” first and foremost. The ABET code of ethics thus reflects the importance of engineering design in terms of its societal, economic, and environmental impacts (Shannon and Mina 2021). The code in effect calls for the inclusion and discussion of these issues in engineering education so that they translate to the engineering profession.

## ENGINEERING FOR SOCIAL GOOD

The benefits of including and/or expanding the integration of social justice topics in engineering education go beyond the development of more socially aware and engaged engineers

in the workforce to bringing in a more diverse group of engineering students. Engineers in the United States are disproportionately white and male: in 2019 only 14 percent were women and 13 percent were from underrepresented racial groups (Wilson 2019).

In any discipline and profession, diversity of thought and experiences enhances the work done, but particularly in a field such as engineering, where the work directly impacts society. As Riley and Lambrinidou (2015, p. 26.322.2) succinctly state, “Social justice is an aspirational value conceptualized in contrast to -injustice, and is best defined by those most closely experiencing that injustice.” It is not surprising that engineering has struggled and stumbled in areas of social justice when those most affected by the negative impacts are significantly underrepresented in the field.

By integrating social justice and community engagement in engineering education curricula, students can begin to see engineering as a driving force for social good, not just a career for people who like math and science and want to build machines and bridges. Women and those in racial groups underrepresented in engineering are generally more interested in a career in which they can have a positive impact and make a difference (NAE 2018). Courses that combine engineering with subjects like community development and social equity can be especially effective when the curriculum includes hands-on project work. As a student at the University of California, Berkeley, said of her Engineering, the Environment, and Society class (McGlynn 2014), “I didn't even know about engineering until I got here.... This class puts it all together—it gives examples but also includes the science.” She went on to study civil engineering in graduate school.

## OUR ASPIRATIONAL LOOK FORWARD

With the debt that many students accumulate in order to pursue an engineering degree (NAE 2019, p. 35), a career in a socially conscious or community-oriented area may not offer the salary

**Engineering has struggled and stumbled in areas of social justice when those most affected by negative impacts are significantly underrepresented in the field.**

necessary to pay the bills. We are hopeful that as more engineering students are exposed to social justice as part of their engineering curriculum and then enter the workforce, societal and other shifts will occur and more career opportunities will allow engineers to *both* follow their heart and support themselves financially.

The preparation of engineering students with an equity-based approach to design before they enter the workforce will go a long way to ensure that the field moves in a positive direction. Accreditation criteria and faculty investment in these

ideas beyond courses on technology and society will need to follow suit.

Fully integrating social justice concepts in engineering education is imperative for the field. We understand that aspects of what we've described here are aspirational, and that additional societal priorities and politics will need to shift before every engineer can be directed by their morals and conscience, but that is a topic for another day. In the meantime, engineering curricula with a foundation of social justice can lead to more diverse, engaged students and in turn more

diverse, socially aware engineers, making it much more likely that the world created by engineering functions equitably for all.

**ABOUT THE AUTHORS:**

Komal Syed (MD B'12), Mary Mathias, and Courtney Hill are associate program officers in the NAE Program Office. Their original article appears in the Summer 2022 issue of NAE's publication, *The Bridge*. You can find additional articles from this quarterly here: [nae.edu/20876/BridgeArticles](http://nae.edu/20876/BridgeArticles)

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# CHAPTER ENDOWMENT INITIATIVE

## \$6,061,671

The value of the Chapter Endowment Initiative fund, including growth and interest, at TBP's fiscal year-end (July 31, 2022).

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 255 active student chapters. Last year we reported 35 gifts/pledges and this year we have an additional 35 for the list as we strive to endow all of our chapters.

### 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: Curt Gumlinski, 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 TBII. 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.

### THE CHAPTER ENDOWMENT INITIATIVE:

You can learn more about the progress and developments of the CEI on our website, [www.tbp.org/?CEI](http://www.tbp.org/?CEI) or by contacting Director of Development Sherry Jennings-King, *TN Alpha '93*, by phone at (612) 226-2922 or by email at [tbp.development@tbp.org](mailto:tbp.development@tbp.org).



### Newly Received Gifts & Pledges

**Robert E. DeHart II, P.E., WV B '72**  
WEST VIRGINIA BETA — \$100,000  
West Virginia Univ. Institute of Technology

**James M. Tien, Ph.D., NY Γ '66**  
NEW YORK GAMMA — \$25,000  
Rensselaer Polytechnic Institute

**Robert H. Tolson, VA B '58**  
VIRGINIA BETA — \$25,000  
Virginia Poly. Institute & State University

**Nicholas M. Donofrio, NY Γ '67**  
NEW YORK RHO — \$5,725  
NYU Tandon School of Engineering  
NEW YORK THETA — \$5,000  
Clarkson University  
VERMONT ALPHA — \$5,000  
University of Vermont

**David D. Kitzer, IA A '96**  
ALABAMA GAMMA — \$5,000  
University of Alabama at Birmingham  
CALIFORNIA ETA — \$5,000  
San Jose State University  
MICHIGAN ALPHA — \$5,000  
Michigan State University

**Franklin T. Dodge, TN A '60**  
TENNESSEE ALPHA — \$10,000  
University of Tennessee

**William R. Goodin, Ph.D., CA E '75**  
CALIFORNIA EPSILON — \$10,000  
Univ. of California, Los Angeles

**Jerry M.L. Mendel, Ph.D., NY Z '59**  
TEXAS KAPPA — \$5,000  
Prairie View A&M University  
NEW YORK GAMMA — \$5,000  
Rensselaer Polytechnic Institute

**Roy Franklin Quick Jr., MA B '70**  
MASSACHUSETTS BETA — \$10,000  
Massachusetts Institute of Technology

**John Fritz Angle, M.D., NY Δ '82**  
NEBRASKA ALPHA — \$5,000  
University of Nebraska-Lincoln

**Robert R. Bailey, TX E '70**  
TEXAS EPSILON — \$5,000  
University of Houston

**Ashok Choudhury, Ph.D., TN A '83**  
TENNESSEE ALPHA — \$5,000  
University of Tennessee

**David J. Clark, CA M '99**  
CALIFORNIA MU — \$5,000  
California Poly. State Univ., San Luis Obispo

**Paul A. Cocotis, CA A '90**  
CALIFORNIA ALPHA — \$5,000  
University of California, Berkeley

**Mary & Clinton R. Gilliland, GA A '59**  
GEORGIA ALPHA — \$5,000  
Georgia Institute of Technology

**Gary D. Hoover, IA A '61**  
PENNSYLVANIA LAMBDA — \$5,000  
University of Pittsburgh

**Irwin M. Jacobs, Sc.D., NY Δ '56**  
CALIFORNIA PSI — \$5,000  
University of California, San Diego

**Russell O. Jansen, MD B '74**  
ALABAMA GAMMA — \$5,000  
University of Alabama at Birmingham

**† Howard E. Jessen, CA B '86**  
CALIFORNIA BETA — \$5,000  
California Institute of Technology

**Raymond R. LaFrey, MI A '61**  
MICHIGAN ALPHA — \$5,000  
Michigan State University

**† Thomas F. Parrish Jr., TN B '75**  
TENNESSEE BETA — \$5,000  
Vanderbilt University

**Michael & Tina Pierce, CO A '90/'89**  
COLORADO ALPHA — \$5,000  
Colorado School of Mines

**Wesley R. Repke, MI A '09**  
MICHIGAN LAMBDA — \$5,000  
Grand Valley State University

**Barbara & † Ralph A. Rockow, OH Γ '58**  
ANY CHAPTER — \$5,000

**Murray E. Rudin, J.D., NY K '83**  
NEW YORK KAPPA — \$5,000  
University of Rochester

**Gerald H. Shaffer, IN A '74**  
INDIANA ALPHA — \$5,000  
Purdue University

**Frederick "Larry" Stiles, TN A '71**  
TENNESSEE ALPHA — \$5,000  
University of Tennessee

**John J. Tracy, Ph.D., CA T '86**  
CALIFORNIA TAU — \$5,000  
University of California, Irvine

**William E. Van Wagenen Jr., NY Θ '78**  
NEW YORK THETA — \$5,000  
Clarkson University

**James C. Williams, Ph.D., P.E., NM B '76**  
NEW MEXICO BETA — \$5,000  
University of New Mexico

**Anonymous, RI B '81**  
RHODE ISLAND BETA — \$10,000  
University of Rhode Island

**Anonymous, MA B '67**  
MASSACHUSETTS BETA — \$5,000  
Massachusetts Institute of Technology

**Anonymous, NY H '54**  
NEW YORK ETA — \$5,000  
City College of CUNY

**Anonymous, NY Γ '52**  
NEW YORK GAMMA — \$5,000  
Rensselaer Polytechnic Institute

**Anonymous, PA A '90**  
PENNSYLVANIA LAMBDA — \$5,000  
University of Pittsburgh

The goal of this 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 to support their activities; Headquarters will contact the chapters once funding is available. In addition to the chapters listed on the previous page, as of January 31, 2023, the Association has received cash and pledges totaling less than \$100,000 for each of the 81 chapters listed below.

<b>ALABAMA ALPHA</b> \$5,000	<b>COLORADO ALPHA</b> \$45,000	<b>MASSACHUSETTS BETA</b> \$70,000	<b>OHIO DELTA</b> \$35,000	<b>TEXAS ALPHA</b> \$21,240
<b>ALABAMA GAMMA</b> \$35,000	<b>COLORADO BETA</b> \$20,000	<b>MICHIGAN ALPHA</b> \$45,000	<b>OHIO MU</b> \$5,000	<b>TEXAS GAMMA</b> \$5,000
<b>ALABAMA EPSILON</b> \$5,000	<b>DELAWARE ALPHA</b> \$10,000	<b>MICHIGAN ETA</b> \$5,075	<b>OKLAHOMA GAMMA</b> \$5,000	<b>TEXAS DELTA</b> \$25,000
<b>ARIZONA ALPHA</b> \$5,000	<b>D.C. ALPHA</b> \$5,000	<b>MICHIGAN IOTA</b> \$8,040	<b>OREGON ALPHA</b> \$10,000	<b>TEXAS EPSILON</b> \$5,000
<b>ARIZONA BETA</b> \$10,000	<b>FLORIDA ALPHA</b> \$5,000	<b>MICHIGAN LAMBDA</b> \$5,000	<b>PENNSYLVANIA BETA</b> \$40,000	<b>TEXAS ZETA</b> \$10,000
<b>ARKANSAS ALPHA</b> \$5,000	<b>FLORIDA EPSILON</b> \$5,171	<b>MINNESOTA ALPHA</b> \$20,000	<b>PENNSYLVANIA GAMMA</b> \$5,000	<b>TEXAS THETA</b> \$5,000
<b>CALIFORNIA ALPHA</b> \$50,000	<b>GEORGIA ALPHA</b> \$50,886	<b>MONTANA ALPHA</b> \$5,000	<b>PENNSYLVANIA DELTA</b> \$5,000	<b>TEXAS IOTA</b> \$5,000
<b>CALIFORNIA BETA</b> \$35,084	<b>ILLINOIS GAMMA</b> \$30,857	<b>NEBRASKA ALPHA</b> \$30,000	<b>PENNSYLVANIA ZETA</b> \$10,000	<b>TEXAS KAPPA</b> \$5,000
<b>CALIFORNIA GAMMA</b> \$67,000	<b>INDIANA ALPHA</b> \$45,000	<b>NEW HAMPSHIRE BETA</b> \$10,200	<b>PENNSYLVANIA ETA</b> \$10,000	<b>TEXAS NU</b> \$40,031
<b>CALIFORNIA ZETA</b> \$15,000	<b>INDIANA BETA</b> \$5,000	<b>NEW MEXICO BETA</b> \$5,000	<b>PENNSYLVANIA THETA</b> \$50,000	<b>VERMONT ALPHA</b> \$5,000
<b>CALIFORNIA ETA</b> \$35,000	<b>INDIANA EPSILON</b> \$30,000	<b>NEW YORK BETA</b> \$73,707	<b>PENNSYLVANIA LAMBDA</b> \$25,000	<b>VIRGINIA BETA</b> \$75,069
<b>CALIFORNIA LAMBDA</b> \$5,000	<b>IOWA BETA</b> \$35,000	<b>NEW YORK ETA</b> \$5,000	<b>PUERTO RICO ALPHA</b> \$10,000	<b>WASHINGTON ALPHA</b> \$20,000
<b>CALIFORNIA MU</b> \$5,000	<b>KANSAS BETA</b> \$5,000	<b>NEW YORK THETA</b> \$15,000	<b>RHODE ISLAND ALPHA</b> \$20,000	<b>WISCONSIN ALPHA</b> \$53,120
<b>CALIFORNIA NU</b> \$5,000	<b>LOUISIANA EPSILON</b> \$10,000	<b>NEW YORK KAPPA</b> \$20,071	<b>RHODE ISLAND BETA</b> \$15,000	<b>WISCONSIN BETA</b> \$5,000
<b>CALIFORNIA TAU</b> \$5,000	<b>MARYLAND GAMMA</b> \$10,000	<b>NEW YORK MU</b> \$15,000	<b>TENNESSEE ALPHA</b> \$85,000	<b>WISCONSIN GAMMA</b> \$5,000
<b>CALIFORNIA PSI</b> \$25,000	<b>MARYLAND EPSILON</b> \$5,000	<b>NEW YORK NU</b> \$5,000	<b>TENNESSEE BETA</b> \$10,000	<b>ANY CHAPTER</b> \$40,000
		<b>NEW YORK RHO</b> \$5,725		

### Current Endowed Chapters (29) with \$100,000 or more in cash and pledges:

<b>CALIFORNIA DELTA</b> Univ. of Southern California \$100,000	<b>IOWA ALPHA</b> Iowa State Univ. \$110,289	<b>MISSOURI BETA</b> Missouri Univ. of Science & Technology \$100,000	<b>OHIO GAMMA</b> Ohio State Univ. \$100,000
<b>CALIFORNIA EPSILON</b> Univ. of California, Los Angeles \$100,000	<b>LOUISIANA ALPHA</b> Louisiana State Univ. \$100,000	<b>NEW JERSEY ALPHA</b> Stevens Institute of Tech. \$100,228	<b>OHIO EPSILON</b> Cleveland State Univ. \$100,000
<b>CALIFORNIA UPSILON</b> Calif. State Univ., Sacramento \$100,000	<b>MARYLAND BETA</b> Univ. of Maryland \$135,000	<b>NEW JERSEY DELTA</b> Princeton Univ. \$100,000	<b>SOUTH DAKOTA ALPHA</b> South Dakota School of Mines & Technology \$204,675
<b>COLORADO ZETA</b> U.S. Air Force Academy \$100,000	<b>MICHIGAN BETA</b> Michigan Tech. Univ. \$100,000	<b>NEW YORK GAMMA</b> Rensselaer Polytechnic Inst. \$100,000	<b>TEXAS BETA</b> Texas Tech Univ. \$100,113
<b>FLORIDA GAMMA</b> Univ. of South Florida \$105,000	<b>MICHIGAN GAMMA</b> Univ. of Michigan \$104,912	<b>NEW YORK DELTA</b> Cornell Univ. \$105,000	<b>VIRGINIA ALPHA</b> Univ. of Virginia \$115,000
<b>ILLINOIS ALPHA</b> Univ. of Illinois at Urbana-Champaign \$187,520	<b>MICHIGAN EPSILON</b> Wayne State Univ. \$250,000	<b>OHIO ALPHA</b> Case Western Reserve Univ. \$100,000	<b>WEST VIRGINIA BETA</b> West Virginia University Institute of Tech. \$108,000
<b>INDIANA GAMMA</b> Univ. of Notre Dame \$125,000	<b>MICHIGAN ZETA</b> Kettering Univ. \$100,000	<b>OHIO BETA</b> Univ. of Cincinnati \$100,000	<b>WYOMING ALPHA</b> Univ. of Wyoming \$100,000
	<b>MISSISSIPPI ALPHA</b> Mississippi State Univ. \$110,000		

# Bob DeHart

## WV Beta '72

*Robert E. DeHart II, Ronald J. Larch, and Gilbert O. Tolley Endowment for the West Virginia Beta Chapter at West Virginia University Institute of Technology.*

A native of Saint Albans, WV, Robert (Bob) E. DeHart II grew up in a large family, with two older sisters and four brothers, Bob being the eldest son. His introduction to engineering came early. His father worked his entire career as a lineman for Appalachian Power, based in Roanoke, VA, and inspired young Bob to become an engineer. As finances were a challenge for a large family on a limited income, he attended the West Virginia University Institute of Technology (WVU-Tech *cum laude*), receiving a B.S. in electrical engineering. He obtained a master's degree in industrial engineering from Texas A&M University.

Bob joined a fellow WVU-Tech student and three professors at the 1971 annual Convention in Knoxville, TN, to witness the approval of WV Beta's charter. He remembers meeting both "Red" Matthews and Bob Nagel, the first two Secretary-Treasurers of the Association.

These days, Bob is a retired EHS&S (environmental, health, safety, and security) self-employed consultant who resides in Boone, NC. He served in various senior managerial positions with 40+ years' experience in international oil & gas and petrochemical industries, including nearly 20 years on-site, expatriate assignments in Qatar, Oman, and Equatorial Guinea. While overseas, Bob served as the representative to senior management to develop and manage comprehensive EHS&S management systems. In 2000, under his leadership, Qatargas, the world's largest Liquefied Natural Gas (LNG) company, became the first LNG company in the world to obtain ISO 9000 and 14000 accreditations in quality and environmental certification. He also worked with authorities in Qatar to implement the new environmental "consent to operate" requirements, which were aligned with those of the U.S. EPA. He led efforts to develop the first Industrial Mutual Aid and Environment Association organizations in Qatar, with initial efforts directed at community emergency response and outreach. Bob took early retirement



from Mobil Oil (ExxonMobil) in late 2000 but continued to work as an EHS&S contractor manager in Qatar for 13 more years on world-class LNG construction expansion projects and three years in Oman on a major capital project for gas production operations. In his final Qatari project, RasGas Barzan, from 2011-16, 278 million worker-hours were completed with only nine Lost Time Incidents; none of them serious/life threatening — a remarkable accomplishment for a project workforce of 31,000 at peak construction representing 45 nationalities and more than 20 languages. The project received numerous international environmental and safety awards and three papers were presented citing the project's EHS&S accomplishments.

Bob was a Director on the Board of Certified Safety Professionals (BCSP) (1982-88), while serving as president in 1986. During his tenure, BCSP worked collaboratively with the American Board of Industrial Hygiene (ABIH) to develop the Joint Occupational Health and Safety Technologist exam. From 2016-20, he served as a Director to the Board of Global Credentialing or BGC (formerly ABIH), which provides credentialing examination requirements for those aspiring to become CIHs (Certified Industrial Hygienists), QEPs (Qualified Environmental

Professionals), CPPS (Certified Professional Product Steward), CPEA (Certified Professional Environmental Auditor), and CPSA (Certified Process Safety Auditor).

While serving on BGC, Bob was Chair of the Financial Oversight and Auditing Committee from 2018-20. He also served as a Risk Assessment Subcommittee member to the American Institute of Chemical Engineers' Center for Chemical Process Safety (or CCPS, 1986-93). During this time, he worked on the subcommittee that developed and published CCPS books on chemical process quantitative risk analysis, decision making, and transportation risk analyses guidelines that have become de-facto industry/government standards.

Continuing education is important to Bob, earning professional engineer licenses in OH [1979], WV [1980], and NC [2004], and Certified Safety Professional in Engineering Aspects [1979]. His career achievements earned him the Leonard C. Nelson College of Engineering and Sciences 2020 Alumni of the Year Award from WVU-Tech. He also received the System Safety Society 1989 Engineer of the Year Award.

Bob suggests to students today, "The world is changing quickly, and one must stay abreast of technological and social/cultural events on a national and international level. Continuing education, ardent professionalism, and self-awareness can help one navigate these challenges. Life will always be a challenge, whether professionally or personally, and one must be prepared to deal with these challenges and consider them as improvement opportunities."

Regarding his Chapter Endowment Initiative gift to the WV Beta Chapter, he notes, "My wife, Nancy, and I want to give back to our community, state, and country, and endowing the WV Beta Chapter was the right thing to do." The endowment was named to honor the memory of the late Ronald J. Larch, WV B '72, and long-time friend and colleague Gilbert O. Tolley, WV B '72, both of whom were fellow classmates and WV Beta charter members.

# The STORY BEHIND The PHOTO

## Announcing the Spring 2023 “Caption This Photo” Contest!

The image to the right was spotted while going through the unpublished photos from the 1998 Convention in Manhattan, KS. Here we have a member demonstrating “The Worm” in the ice-breaker portion of a District Meeting.

**How to Enter:** Send us your witty caption(s) for this photo from Convention archives. 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: [www.tbp.org/?CaptionSub](http://www.tbp.org/?CaptionSub) or mail to *The Bent* of Tau Beta Pi, Caption Contest, P.O. Box 2697, Knoxville, TN 37901-2697.

Questions? Contact [p.mcdaniel@tbp.org](mailto:p.mcdaniel@tbp.org)



**DEADLINE: MONDAY, MAY 1, 2023  
5 P.M. (ET)**

## WINNERS of the Winter 2023 “Caption This Photo” Contest:

Famous lines and references to movies like *Bourne Identity*, *Mission Impossible*, *Top Gun*, *Dirty Harry*, *Dirty Dancing*, *James Bond 007*, and *Weekend at Bernie’s*, prevailed in this group of 83 captions received from 41 members for the Winter 2023 contest. You can read all entries, including captions and results from recent contests, at: [tbp.org/pubs/captionContest.cfm](http://tbp.org/pubs/captionContest.cfm).

### 1ST PLACE:

**“Froula, James Froula.”**

David W. Hughes, *GA A '75*

### 2ND PLACE:

**“When you have to be at Casino Royale at 8 but have a TBP Convention at 7.”**

William J. Phillips, *AL D '23*

### 3RD PLACE:

**“Trying to fool people by wearing shades to take a nap backfired on Jim when he discovered someone cut off his tie.”**

Paul L. Eckley, P.E., *NVA '75*

### 4TH PLACE:

**“Your mission, Jim, should you decide to accept it...”**

Yi-Hsien Doo, P.E., *MI Z '81*



▲ The Winter 2023 contest image (above) was discovered among the 1997 Convention photo archives. Then Secretary-Treasurer Jim Froula is waiting for the next delegate to stop by and play “Stump the Secretary.”

**CONGRATULATIONS TO OUR WINNERS!**



# WHEN PROFESSIONAL ENGINEERING SERVICES GO AWRY

BY RICHARD T. REDANO, J.D., NORTH CAROLINA ALPHA '78

Above Image: Kinokawa River, Musota, Wakayama, Japan - Circa October, 2021

## AN INTRODUCTION TO ENGINEERING MALPRACTICE LITIGATION

For over four decades, the author has read articles in *The Bent* exploring the wonderful contributions that engineers have made to society through innovation and technological advancement. Unfortunately, not all engineering endeavors have a happy ending. Sometimes engineering design errors occur that can give rise to a lawsuit (litigation) for engineering malpractice. The purpose of this article is to provide an overview of potential liability resulting from negligent engineering services. The primary focus here is engineering malpractice litigation, including the elements of a malpractice claim, the type of expert testimony often needed, and the potential financial impact (awardable damages).

## THE ELEMENTS OF A MALPRACTICE CLAIM

The discussion of engineering malpractice in the article applies to situations where the federal government is not involved (Limited Scope Provision). Legal claims fall into two general categories: contract and tort. *Merriam Webster's Dictionary* defines **tort** as “a wrongful act other than a breach of contract for which relief may be obtained in the form of damages or an injunction.” An **injunction** is a court order commanding a party to take certain action (e.g. stop using a specific trademark).

Professional malpractice claims are negligence based. *Merriam Webster's Dictionary* defines **negligence** as “failure to exercise the care that a reasonably prudent person would exercise in like circumstances.” In engineering malpractice cases, the relevant standard for evaluating negligence is that of the

reasonably prudent engineer. In a malpractice tort claim, the plaintiff bears the burden of proving:

- the professional who provided services owed the plaintiff a duty to act with the reasonable standard of care for that profession;
- the professional breached that duty;
- the breach of that duty caused the plaintiff to incur damages; and
- the damages incurred are compensable.

A **contract** is a binding agreement between two or more persons that may be written or oral. Where there is a contract for professional services, the party claiming to be injured by professional negligence often brings a breach of contract claim on theories such as failing to receive the benefit of the bargain or the professional's failure to meet contract specifications.

## WHOSE LAW CONTROLS THESE CLAIMS?

An initial issue to address in any legal controversy is: Whose law controls? Subject to the previously defined Limited Scope Provision, contract claims and malpractice tort claims are controlled by state law; however, they may be litigated in state or federal court, depending on factors beyond the scope of this article. A state or federal court will normally apply the law of the state in which suit is brought for a state law claim. An exception to this general rule is where there is a Choice of Law provision specifying whose law controls. Courts may ignore such provisions, but are unlikely to do so where a party to the contract has a relationship to the state whose law is chosen.

## CERTIFICATE OF MERIT — A HIRED GUN NEUTRALIZER

While malpractice litigation occurs in courts, the judicial branch of government is not the only branch involved in this area. State legislatures have enacted measures intended to limit perceived abuses in malpractice litigation. Professional societies advocate for their members in lobbying state legislatures to enact such measures. Thus, be active in your professional society.

Readers old enough to have mastered the slide rule may remember the early 1960s TV show *Have Gun – Will Travel*. By the 1970s, expert witnesses had emulated that show's gunslinger hero Paladin, with a minor modification to their business cards: *Have CV – Will Travel*. Professional societies complained to state legislatures about "hired gun" experts shipped in from large cities in distant states to opine on behalf of plaintiffs in malpractice cases. This practice was most prevalent in medical malpractice, resulting in several states requiring an expert to be licensed in the locality where the defendant practiced medicine.<sup>1</sup> This was the forefront in a legislative effort to curb perceived abuses in professional malpractice litigation.

For engineering malpractice cases, several states enacted Certificate of Merit requirements to reduce the incidence of frivolous malpractice claims.<sup>2</sup> Unfortunately, there are "experts" who will provide "made to order" opinions

regardless of the facts. The Certificate of Merit requirement is aimed at ensuring more competent expert testimony in engineering malpractice cases.

We will examine Texas' Certificate of Merit requirement as a representative example.<sup>3</sup> Texas law mandates the filing of a Certificate of Merit contemporaneously with the filing of a complaint seeking "damages arising out of the provision of professional services" by a licensed or registered professional engineer as follows:

*[T]he claimant shall be required to file with the complaint an affidavit of a third-party licensed professional engineer who [1] is competent to testify, [2] holds the same professional license as the defendant, [3] practices in the area of practice of the defendant, and [4] offers testimony based on the person's (A) knowledge, (B) skill, (C) experience, (D) training, and (E) practice.*

*The affidavit shall set forth specifically for each theory of recovery for which damages are sought, [5] the negligence, if any, or other error, or omission of the licensed or registered professional in providing the professional service, including any error or omission in providing advice, judgment, opinion, or a similar professional skill claimed to exist, and [6] the factual basis for each such claim. [7] The third-party professional engineer shall be licensed or registered in this state and [8] actively engaged in the practice of engineering.*<sup>4</sup>

The above requirements impose a substantial barrier to frivolous engineering malpractice claims. This Certificate of Merit is required, not only in malpractice cases, but also in any case where the plaintiff seeks to recover damages arising out of the provision of professional services enumerated in the statute.

Consider the Texas registered professional engineer who performed bridge structural analysis for 30 years, retired, and one year into her retirement is asked to provide expert testimony on behalf of a plaintiff in a Texas engineering malpractice case regarding a bridge's structural failure. While she may be eminently qualified to provide such testimony from a technical perspective, she is arguably<sup>5</sup> not "actively engaged in the practice of engineering," as required by item [8], above.

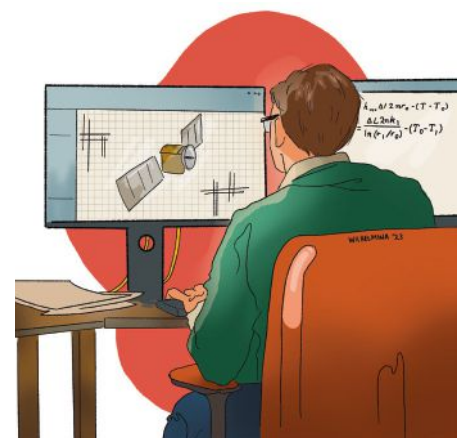
The Texas Supreme Court dismissed a case where the plaintiff conflated Certificate of Merit requirements [2] and [3].<sup>6</sup> The plaintiff argued that it could be inferred that the expert practiced in the same area as the defendant from the fact that the expert held the same license as the defendant. The Texas Supreme Court rejected this argument, holding:

*We conclude then that the statute's knowledge requirement is not synonymous with the expert's licensure or active engagement in the practice; it requires some additional explication or evidence reflecting the expert's familiarity or experience with the practice area at issue in the litigation. Here, we have no such evidence.*<sup>7</sup>

Returning to our previously discussed Texas bridge malpractice case, assume that the defendant who performed the original structural analysis holds a Texas P.E. registration in mechanical engineering, and the plaintiff submits an affidavit from an expert with the same P.E. registration who has designed heat shielding for NASA spacecraft his entire career. That affidavit would fail to meet the aforementioned requirement [3].

## EXPERT TESTIMONY REGARDING STANDARD OF CARE

Expert testimony is usually, perhaps even always, required in a professional malpractice case regarding the standard of care applicable to the professional services in question. In *Criterium-Farrell Engineers v. Owens* (the *CFE* case), a Texas appeals court held that the Certificate of Merit "must necessarily address the applicable standard of care



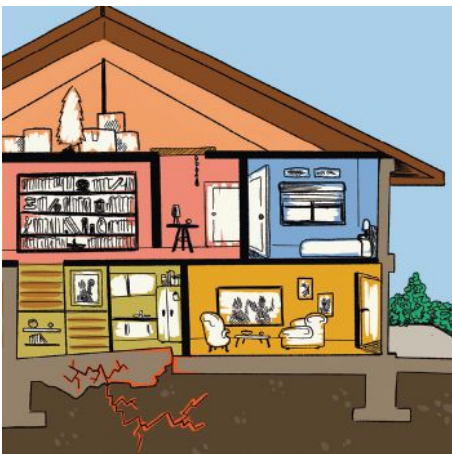
and the defendant's failure to meet the standard" because "negligence is conduct that falls below the applicable standard of care." (See aforementioned requirement [5])<sup>8</sup>

In the *CFE* case, the plaintiffs hired engineering firm Criterium-Farrell Engineers (CFE) to perform a structural inspection of a house that the plaintiffs wished to purchase. A CFE engineer inspected the house and issued a report finding the house to be "structurally sound" with "no major structural problems." The plaintiffs purchased the home, noticed some defects, and had CFE perform a second inspection. CFE issued a second report stating "we observed a high spot on the floor on the left side of the game room."<sup>9</sup>

The plaintiffs then had the house inspected by other licensed structural engineers who discovered foundation problems, structural defects, failed attempts at remediation, and attempted concealment of the defects. The plaintiffs sued CFE, the sellers of the residence, the home's builder, and the home warranty provider. The claims asserted by the plaintiffs included breach of contract and negligence.

Note the plaintiffs sued everyone involved in this transaction. This is common and usually prudent at this stage of litigation under similar circumstances. It benefits a plaintiff to involve as many "deep pockets" as possible. The deep pockets include the parties sued and their insurance carriers. A plaintiff wants to wait for defendants to point their fingers at each other.

Initially undetected cracks in the foundation



While the *CFE* case deals with a house, one can easily extrapolate this situation to a larger project, such as the litigation arising from the June 2021 collapse of the Champlain Towers South in Surfside, FL. The defendants in the Champlain Towers litigation included the developer, contractor, condo association, and several engineering firms.<sup>10</sup>

In support of their negligence claims, the plaintiffs in the *CFE* case submitted a Certificate of Merit affidavit from Texas registered structural engineer Gary Boyd detailing his inspection of the house and his review of CFE's reports.<sup>11</sup> Mr. Boyd's affidavit stated:

- a. CFE's inspector erred in measuring the first floor elevation;
- b. had CFE's engineer accurately measured the slope, then he would have concluded repairs were warranted by CFE's own reported standards;
- c. CFE omitted an inspection of the residence's second floor, which should have been performed; and
- d. had the second-floor inspection been performed, then a prudent engineer would have discovered the excessive slope.<sup>12</sup>

CFE filed a motion to dismiss the negligence claims, arguing that Mr. Boyd's affidavit did not meet the statutory requirements for a Certificate of Merit in Texas.<sup>13</sup> The trial court denied this motion. The appeals court affirmed this ruling, holding that the Boyd affidavit complied with those statutory requirements.<sup>14</sup>

## PROOF REQUIRED TO RECOVER MALPRACTICE DAMAGES

Last, but not least, in the elements of a malpractice claim, is damages. Under basic common law principles, the plaintiff in a malpractice case may recover all damages proximately caused by the defendant's negligence.<sup>15</sup> Proximate cause, comprises two elements: (1) causation in fact, and (2) foreseeability.<sup>16</sup>

Causation in fact "requires proof that an act or omission was a substantial factor in bringing about injury, which would not otherwise have occurred."<sup>17</sup> Assume that an engineer designs a boiler with a pressure relief valve (PRV) actuated by

a pressure sensor. Unfortunately, the design temperature in the boiler room exceeded the recommended operating temperature for the pressure sensor, as stated in its specification. This resulted in boiler over-pressurization and an explosion that damaged equipment. This is an example of causation in fact.

Assume the same boiler and pressure sensor design with these additional facts. Someone inadvertently injected a highly volatile compound into the boiler that exploded at the boiler's design temperature, below the opening setpoint of the PRV. In this scenario, the negligent design of the pressure sensor does not meet the causation in fact requirement, because the boiler would have exploded anyway (i.e. in legal lingo, there is not "but for" causation).

Foreseeability exists "when the actor as a person of ordinary intelligence should have anticipated the dangers his negligent act creates for others."<sup>18</sup> A structural engineer who errs in his load calculations for a parking garage should anticipate a collapse of the parking garage from such an error. Alternatively, assume that negligently designed circuitry for an auto's check engine light results in the light coming on and the driver pulling into a service station while an armed robbery is occurring. The driver is shot during this robbery. This gunshot injury is not a foreseeable result of the negligently designed circuitry.

## POTENTIAL MAGNITUDE OF MALPRACTICE DAMAGES

As previously mentioned, claims arising from negligent engineering services may be brought as contract or tort claims. A complex legal doctrine (The Economic Loss Doctrine) may limit the categories of damages available, depending on the type of legal claim asserted and/or who asserts it.<sup>19</sup> Depending on how courts apply this doctrine, some of the damage categories in the examples below may not be available to certain plaintiffs.

In the Champlain Towers condo collapse litigation, the engineering firm hired to inspect the tower for its 40-year recertification settled for \$16 million and the consulting structural engineering firm settled for \$8.55 million.<sup>20</sup> The amount of a settlement is usually proportional to, and discounted from, one's damage exposure.

In September 2021, the estimated cost of the I-69 Ohio River Crossing bridge project was \$1.27 billion.<sup>21</sup> The Federal Highway Administration estimated that the Gordie Howe Int'l bridge from Detroit to Windsor, Ontario, will cost \$4.4 billion.<sup>22</sup> Costs exceeding one billion dollars for new major bridge projects are common. Where an engineer's negligent design results in a bridge collapse, the available damages may include the cost of bridge repair or replacement and personal injury for any victims of the collapse. While the consulting engineer who designed the bridge may owe a duty to only the bridge owner, that owner likely would seek reimbursement (indemnification) from the consulting engineer for the third party claims against the owner, arising from the collapse. Such damages could exceed one billion dollars.

The natural gas liquification facility in Freeport, TX, is estimated to be worth \$14 billion.<sup>23</sup> Assume that an engineer's negligent design of an LNG liquification facility resulted in a major explosion and resulting eight-month shutdown. The resulting damage recovery may include cost of equipment repairs or replacements, related engineering costs, and lost profits. This liability could exceed one billion dollars.

The author is hopeful that the above discussion of damages will motivate any consulting engineers reading this article to ask themselves whether they are:

- a. carrying sufficient malpractice or errors & omissions insurance; and;
- b. adequately evaluating the liability exposure in the engagements they undertake.

Each of those questions is sufficiently complex to merit its own article in *The Bent*.

## COMMON PRACTICES TO LIMIT LIABILITY

Consulting engineers routinely provide services pursuant to a written contract. A prudent engineer will include clauses precluding consequential damages and requiring indemnification of the engineer by the client. Additionally, the prudent engineer will not sign a contract obligating the engineer to defend, indemnify, or hold harmless, anyone else.<sup>24</sup>

Even with a well written contract, an engineer will face some potential liability, often in an amount that exceeds the income derived from providing services. One of the best ways to limit liability that the engineer must personally satisfy is having malpractice or errors & omissions insurance. An important benefit of such coverage is the cost of defense, which can run several hundred thousand dollars in complex cases.

## THE RELATIVE SOCIAL IMPORTANCE OF ENGINEERING

How do the professions of medicine, law, professional engineering, and public accounting rank in importance to society? If television were the decisive factor in deciding this question, then medicine and law would be the two most important professions. Professional engineering and public accounting would be distant finishers. When is the last time you watched a TV show that focused on engineers or accountants?

Suppose that instead of TV, we based our answer to the above question on the magnitude of liability for professional negligence that reasonably could be envisioned for each of these professions. In that case, public accounting and engineering would be first and second, law would be third, and medicine would be a distant fourth.

Let us first consider public accounting. The companies in the S&P 500 have a total market capitalization of approximately \$33.3 trillion.<sup>25</sup> Thus, the average market cap of an S&P 500 company is approximately \$66.6 billion. An auditing error by a public accounting firm can easily cause a publicly traded company to lose 10 percent of its value. Thus, the annual audits of the S&P 500 companies provide several hundred opportunities for public accountant firms to incur billions of dollars in malpractice liability.

As discussed in the above section, professional engineers can face liability in excess of a billion dollars arising out of negligent designs for structures as common as bridges. For more expensive industrial facilities, the liability can be higher.

Let us next consider law. Legal malpractice can arise in many ways from document drafting errors (inoperative

will), erroneous legal advice (incompetent noninfringement opinion), or litigation errors (filing suit after the statute of limitations expired). A May 2022 article in *law.com* reported survey results of 11 legal malpractice insurers regarding their highest payouts to resolve claims. The highest reported payouts were described as over \$300 million,<sup>26</sup> which strongly indicates that they were under \$400 million.

In an article entitled "Top 10 Medical Malpractice Settlements in the United States in 2020" from *Top Verdict*, the highest settlement amount listed was \$20.1 million.<sup>27</sup> While one can find reports of jury verdicts or settlements in medical malpractice cases exceeding \$50 million, they are rare.

Liability is proportional to value. Rather than being dismayed by the above discussion of potential damage for engineering malpractice, recognize it as a testament to the importance of the engineering profession!

## CONCLUSION

Our legal system is periodically recalibrated to achieve a balance between ensuring that (a) those injured by engineering malpractice are adequately compensated, and (b) the incidence of frivolous engineering malpractice claims is minimized. The author hopes that this article has provided the reader with an enhanced understanding of how this system deals with engineering malpractice, the potential liability resulting from it, and how to mitigate liability exposure from such claims. For those interested in reading case studies of engineering design failures, the author highly recommends *Humble Pi: When Math Goes Wrong In The Real World* by Matt Parker.

.....  
**RICHARD T. REDANO** holds a B.S. in nuclear engineering (NC State Univ.) and a J.D. from the Univ. of TN College of Law. He is a licensed attorney in Texas, a registered patent attorney, and was a licensed P.E. in Texas. He held positions as a nuclear engineer & reactor inspector with the US-TVA and the US-NRC, respectively. Richard practiced intellectual property law in Houston for 26 years prior to his retirement in 2011. He now serves as a Director of the TBII Great Smoky Mountains Alumni Chapter.

See Works Cited on page 20.

# BRAIN TICKLERS



## Results From

### Fall

#### Perfect Scores

Couillard, J. Greg	IL	A	'89
*Gibbs, Kenneth P.	MO	Γ	'76
Griggs Jr., James L.	OH	A	'56
*Harpole, George M.	CA	E	'74
*Harvey, Arthur J.	OH	A	'83
*Norris, Thomas G.	OK	A	'56
*Parks, Christopher J.	NY	Γ	'82
Riedesel, Jeremy M.	OH	B	'96
Schleehauf, Martin W.	NY	N	'79
Schwam, Susan E.	WA	A	'88
Schwam, Freely	Member Spouse		
Smith, Scott	Non-member		
*Sisco, Michael D.	WI	A	'91
*Stegel, Timothy J.	PA	A	'80
*Spong, Robert N.	UT	A	'58
Voellinger, Edward J.	Non-member		
*Wilkinson, Timothy S.	WA	A	'84

#### Other

Alexander, Jay A.	IL	Γ	'86
*Bernacki, Stephen E.	MA	A	'70
Bertrand, Richard M.	WI	B	'73
Boyd, Jeff M.	UT	B	'07
Colbourne, Richard J.	PA	E	'78
Deane, Jessica	Daughter of member		
Eckley, Paul L.	NV	A	'75
*Gaston, Chuck A.	PA	B	'61
Golemme, Steven S.	IL	A	'20
Harris, Kent	Non-member		
Hasek, William R.	PA	Γ	'49
Hitz, Steven G.	WI	Γ	'76
*Hughes, James J.	TX	E	'82
Lalinsky, Mark A.	MI	Γ	'77
Massonne, Don C.	IN	A	'80
Pawlowski, Scott	Non-member		
Ratam, Agasha K.	CT	A	'21
Rowe, David L.	Brother of member		
Spring, Gary S.	MA	Z	'82
Summerfield, Steven L.	MO	Γ	'85
Szostek, Renee	MI	A	'87
Zison, Stanley W.	CA	Θ	'83

\*Denotes correct bonus solution

## Fall Review

Barely half of the submitted answers to the Bonus (resistors) were correct.

Problems 1 (order of merit) and 4 (balance the die) were the most missed of the regular problems.

Only problem 2 (doors) had all correct answers.

## Winter Answers

### 1: $8+A817+49286=5831A+790$ .

This problem does not lend itself to a solve-by-hand approach; it is best tackled using a computer to churn through what turns out to be exactly two dozen solutions to find which has the largest value for BRAIN. Discarding the other results yields the provided answer.

**2:** There are **5,050,226,160** unique placements of the rooks that satisfy the constraints of the problem. This can be broken up into 7 different cases with the summation of each case providing the total number of placements. Consider the placement of 4 black rooks. They may possibly occupy 4 unique columns and 1 row, 4 columns and 2 rows, 4 columns and 3 rows, 4 columns and 4 rows, 3 columns and 2 rows, 3 columns and 3 rows, or 2 columns and 2 rows. There are 4 additional cases where the number of rows and columns are swapped; these can be accounted for just by multiplying the associated case by 2 due to symmetry. For each of the cases, we need to determine how many ways we can place the 4 rooks so that the number of rows and columns is obtained. These are relatively small numbers and can be deduced in short order. In the order listed above these are 1, 14, 36, 24, 12, 45, and 1, respectively. These need to be multiplied by all the ways of choosing those particular rows and columns out of the 8 that are available, which for  $c$  columns and  $r$  rows is simply  $C(8,c) \times C(8,r)$ . Then, we can take the 4 white rooks and place them in any of the unthreatened squares which for a case of  $c$  columns and  $r$  rows, would be  $(8-c)(8-r)$  squares and this contributes a

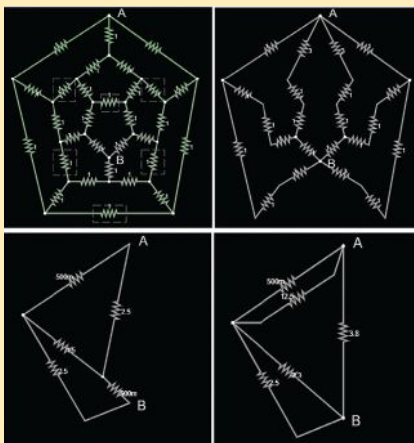
factor of  $C((8-c)(8-r),4)$  to each term. Remembering the factor of 2 in cases where  $c \neq r$ , each case gives 22,932,000; 583,154,880; 1,367,452,800; 214,032,000; 1,031,304,960; 1,785,168,000; and 46,181,520, respectively, which leads to the provided answer.

**3:** The launch angle is **73.6 degrees**. The equations of parabolic motion are, for an  $x$  axis along the horizontal surface of the field and  $y$  as a vertical axis and an initial velocity  $v_0$ ,  $x = v_0 \cos(\theta)t$  and  $y = v_0 \sin(\theta)t - \frac{1}{2}gt^2$ . When the ball is kicked to its maximum distance,  $x = 75$  yards and  $y = 0$  yards. Plugging this in with  $\theta=45^\circ$  and solving for the initial velocity gives  $v_0=28.36$  yd/sec. Since the kicker kicks the ball as hard as possible in all instances, it will attain this same initial velocity. Plugging this result into the above equation for  $x$ , and noting that additionally  $x=(8 \text{ yd/sec})t$ , we can eliminate  $t$  and solve for  $\theta$ , which gives  $73.6^\circ$ .

**4:** The expected number of points in a volleyball game is approximately **44.73**. Break this into two cases: the first where the "deuce" score of 24-24 is never achieved. The probability the game goes  $k$  points if both teams have a  $\frac{1}{2}$  probability of winning any point,  $2(\frac{1}{2})^k C(k-1, k-25)$ , where  $k$  can take on any value from 25 to 48. The expression for the corresponding terms for the expected value is therefore  $\sum_{k=25}^{48} k(\frac{1}{2})^{k-1} C(k-1, k-25)$ . The second case captures the situations where "deuce" is achieved and the game is won some even number of points afterward. The probability deuce is reached is  $(\frac{1}{2})^{48} C(48, 24)$ . To determine the probability the game is won  $2j$  points later, we multiply this by  $2(\frac{1}{2})^2 (\frac{1}{2})^j$  and then the terms for

expected value that reach deuce is  $\sum_{j=0}^{\infty} (50+2j)(\frac{1}{2})^{48} 2(\frac{1}{2})^2 (\frac{1}{2})^j C(48,24)$  which can be written as  $\sum_{j=0}^{\infty} (50+2j)(\frac{1}{2})^{49+j} C(48,24)$ . This simplifies to  $50(\frac{1}{2})^{48} C(48,24) + (\frac{1}{2})^{47} C(48,24) = 13(\frac{1}{2})^{46} C(48,24)$ . Summing these two results together (with some meticulous bookkeeping) gives  $1,573,794,883,263,775 / 35,184,372,088,832 \approx 44.73$ .

**5:** The resistance between the two described points is **7/6 Ω**. The mesh network for the dodecahedron is shown in the first accompanying figure. Considering the two endpoints as A and B, we can use the vertical line of symmetry between A and B to show no current will flow through the two center most resistors marked by the rectangles. The symmetry of the three paths leading from A implies there is no current flowing in the other four resistors marked by the dashed rectangles. Removing these segments and conducting wye-delta transformations at the nodes just below A and B in the figure results in the second figure (note that one leg of each delta circuit can be removed for symmetry reasons highlighted above). Combining serial resistances and noting there are two identical halves of the mesh circuit, we can consider one half with all resistances halved; this is shown in the third figure. A final wye-delta transformation for resistances of 2.5Ω, 1.5Ω, and 0.5Ω gives 12.5Ω, 2.3Ω, and 23/6Ω (approx. 3.8Ω) as shown in the fourth figure. From this point, final parallel and series calculation leads to the total resistance of 7/6Ω.



**BONUS:** The probability that the sum of the rounded numbers does not equal the rounded sum is **77/192**. The resulting distribution of the sum of the rounded numbers follows the Irwin-Hall distribution for  $n = 4$ , which is essentially a convolution of the 4 uniform error distributions from  $-0.5 \leq x \leq 0.5$  or more simply calculated, a convolution of two triangular distributions that span  $-1 \leq x \leq 1$ . While we are interested in the resulting distribution  $p(x)$ , we only care about the area outside  $-0.5 \leq x \leq 0.5$  so we can focus on the portion within this bound and take one minus the value to get our desired result. Careful calculation gives a p.d.f. of  $p(x) = (3x^3 - 6x^2 + 4)/6$  for  $0 \leq x \leq 1$ . Since the distribution will be an even function, we calculate twice the integral of  $p(x)$  from  $x = 0$  to  $x = 1/2$ . This gives  $115/192$ , and our final result is  $1 - 115/192 = 77/192$ .

**COMPUTER BONUS:** There are **18** total pairs of integers and the largest concatenated integer is **67,629,248,581,460,775,561**. Interestingly, 6 additional pairs could be found if leading zeros were allowed for the second of the two numbers, but this was forbidden based on the problem statement.

## New Spring Problems

### 1: Cryptic Puzzle

Solve the following base-10 cryptic addition, where TWO is prime:

$$\text{SEVEN} + \text{SEVEN} + \text{SIX} = \text{TWENTY}$$

Each letter represents a different digit. There are no leading zeros.

—Mathematical Puzzling  
by A. Gardiner

### 2: The World is Not Flat

Last spring equinox, brothers Doug and Ryan Euclid were standing at the equator looking out to sea. Doug was standing on the shore, while Ryan was standing above him on top of a cliff. Their eyes were 2m and 23m above sea level, respectively. When Doug saw the sun set, he called out; 26 seconds later Ryan observed the sun setting.

Doug and Ryan were observant and knew the time it takes the Earth to rotate once. The brothers estimated the diameter of the Earth. What was their estimate to the nearest 100km?

—New Scientist

### 3: Cards of the Same Suit

Cards are selected one at a time without replacement from a well-shuffled standard deck of 52 cards. To a precision of two places after the decimal, what is the average number of cards that must be drawn until three cards of the same suit are obtained?

—Adapted from  
Mathematics Teacher

### 4: Spiral Construction

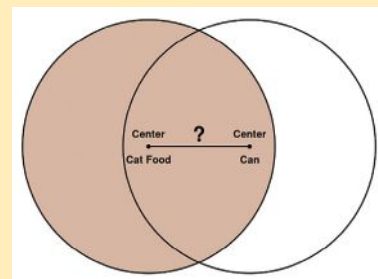
Construct a spiral by starting at the origin of a coordinate system, moving 1 unit to the right to the point (1, 0), then turning left 45 degrees and moving 1/2 unit, then turning left 45 degrees and moving 1/3 unit, turning left 45 degrees and moving 1/4 unit, etc. What are the (x, y) coordinates of the limiting point of this spiral?

—South Missouri State University  
Advanced Problem Archive

### 5: Feeding Cats

A Tau Bate has two cats, which are fed a single can of cat food each day. The food comes out of the can as a single intact cylinder and the can is then used to cut the cylinder into two shares, as shown in the figure. As a fraction of the can's radius, how far from the center of the cat food cylinder should the center of the can be placed to produce equal shares?

—Technology Review



BTs continue on page 20

## Spring Problems *Continued*

### BONUS: Integers

How many positive integers  $N$  less than or equal to 10,000 have the property that  $2^N - N^2$  is divisible by 7 with no remainder?

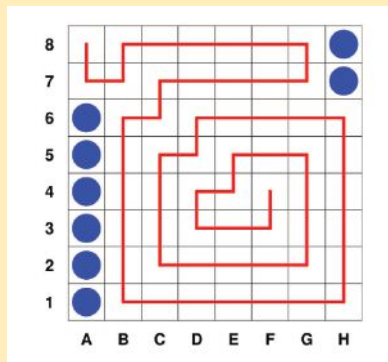
—*Challenging Mathematical Problems with Elementary Solutions*  
by A.M. & I.M. Yaglom

### DOUBLE BONUS

A rook is placed on an unoccupied square of a chessboard where some of the squares are already occupied as shown right. The rook then moves until all unoccupied squares have been visited exactly once. As an example, the figure includes a 23 move path starting at A8 and ending at F4. This is not the most efficient path for a rook starting at A8 to visit all unoccupied squares.

For an optimal starting square, what is the fewest number of moves such that every square is visited exactly once? Which row or rows (1 through 8) have no starting square that can achieve that minimal number of moves?

—**Timothy J. Slegel, PA A '80**



Email your answers (plain text only) to any or all of the Spring Brain Ticklers to [BrainTicklers@tbp.org](mailto: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. The Double Bonus is not graded. Where possible, exact answers are preferable to approximations. The cutoff date for entries to the Spring column is the appearance of the *Summer Bent* which typically arrives in mid-June (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 **F.J. Tydeman, CA Δ '73; J.C. Rasbold, OH A '83; J.R. Stribling, CA A '92;** and the columnist for this issue,

— **G.M. Gerken, CA H '11**

## Works Cited continued from page 17 — **When Professional Engineering Services Go Awry**

1. For example, Tennessee requires experts in medical malpractice cases to be "licensed to practice in the state or a contiguous bordering state a profession or specialty which would make the person's expert testimony relevant to the issues in the case." TCA 29-26-115(b).
2. This article's reference to "frivolous" malpractice claims is not meant to suggest that meritorious malpractice claims do not exist.
3. Texas was selected because (1) its economy employs many engineers, (2) the author is a licensed attorney in Texas, and (3) the author has held a P.E. license in Texas. Other states with similar statutes include Georgia, Delaware, Michigan, New Jersey, New York, Ohio, and Pennsylvania. *Sharp Engineering et al. v. Luis et al.*, 321 S.W. 3d 748, 755 fn. 11 [Tex. App. – Houston [14th Dist.] 2010, no pet.]
4. Tex. Civ. Prac. & Rem. Code Ann. § 150.002(a) [Vernon Supp. 2009] This statute also applies to claims seeking damages arising out of professional services by architects, landscape architects, and land surveyors. The discussion in this article is limited to this statute's application to professional engineers.
5. Subjective terms such as "actively" leave room for lawyers to argue about what minimum level of work is necessary to meet this ambiguous requirement.
6. *Levinson Alcoser Assoc. LP et al. v. El Pistolon II Ltd.*, 513 S.W.3d 487, 494 (Tex. 2017)
7. *Id.*
8. *Criterium – Farrell Engineers v. Owens*, 248 S.W. 3d 395, 400 [Tex. App. – Beaumont 2008, no pet.]
9. *Id.* at 396.
10. *The Real Deal*; <https://therealdeal.com/miami/2022/01/04/surfside-collapse-defendants-deflect-responsibility-in-new-court-docs/>
11. 248 S.W. 2d at 397.
12. *Id.* at 400.
13. *Id.* at 396.
14. *Id.* at 400.
15. *Claims Against Architects and Engineers – New York Law Journal* (Sept. 21, 2021) ("Generally speaking, all damages which naturally flow from the malpractice of an A/E are recoverable, subject to any contractual limitations.")
16. *Farley v. M. M. Cattle Co.*, 529 S.W. 2d 751, 755 (Tex. 1975)
17. *Prudential Insurance Co. v. Jefferson Assoc.*, 896 S.W. 2d 156, 161 (Tex. 1995)
18. *El Chico Corp. v. Poole*, 732 S.W. 2d 306, 313 (Tex. 1987)
19. *Sharyland Water Supply Corp. v. City of Alton*, 354 S.W. 3d 407, 409 [Tex. 2011]; *LAN/STV v. Martin K. Eby Const. Co. Inc.*, 435 S.W. 3d 234, 245 [Tex. 2014]
20. WESH Channel 2; [www.wesh.com/article/surfside-condo-collapse-tentative-settlement/39375498](http://www.wesh.com/article/surfside-condo-collapse-tentative-settlement/39375498)
21. I-69 Ohio River Crossing Project Initial Financial Plan, Section 3.2 at p. 9 (Sept. 2021)
22. [www.fhwa.dot.gov/ipd/project\\_profiles/mi\\_gordie\\_howe\\_int\\_bridge.aspx](http://www.fhwa.dot.gov/ipd/project_profiles/mi_gordie_howe_int_bridge.aspx)
23. [www.constructiondive.com/news/ferc-approves-fourth-train-at-14b-freeport-lng-terminal/555320/](http://www.constructiondive.com/news/ferc-approves-fourth-train-at-14b-freeport-lng-terminal/555320/)
24. Sources for suitable clauses are the engineer's insurance carrier, and an attorney experienced in representing engineers.
25. [www.slickcharts.com/sp500/marketcap](http://www.slickcharts.com/sp500/marketcap)
26. LAW.COM; [www.law.com/americanlawyer/2022/05/24/legal-malpractice-payouts-reach-all-time-high-firm-insurers-planning-premium-hikes/](http://www.law.com/americanlawyer/2022/05/24/legal-malpractice-payouts-reach-all-time-high-firm-insurers-planning-premium-hikes/)
27. <https://topverdict.com/lists/2020/united-states/top-10-medical-malpractice-settlements>

# Authors

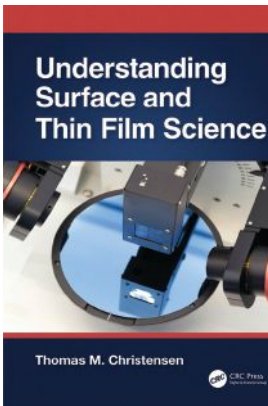
Recently published a book? If so, we would like to recognize you! Send details and a cover image to [d.lane@tbp.org](mailto:d.lane@tbp.org).  
 Note: This section has become extremely popular and submissions are first come, first served, as room allows. Thanks!



**Daniel Beckmann**  
 Ohio Nu '20

**The King's Plan: An Allegory of Redemption**

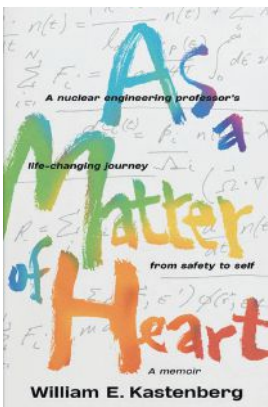
The book asks the questions: What has happened to this world and why is there so much brokenness and suffering? Join Daniel as he considers the plight of humanity and its **only hope**. The ebook version is free to download at [thekingsplan.org](http://thekingsplan.org). Daniel has a degree in mechanical eng'g from Cedarville University and works at DeGram Electric LLC.



**Tom M. Christensen, Ph.D.**  
 Minnesota Alpha '79

**Understanding Surface and Thin Film Science**

Published in 2022 by CRC Press, Tom's book provides an introduction to these topics for technical staff and students who wish to learn more about the theory and practice of depositing and characterizing thin film materials from clean surfaces to complete films. He is a professor of physics at the University of Colorado in Colorado Springs.



**William E. Kastenberg, Ph.D.**  
 California Epsilon '62

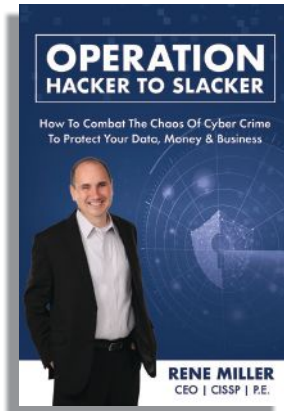
**As a Matter of Heart: A nuclear engineering professor's life-changing journey from safety to self**

This memoir tells the story of Bill's quest to discover the person hiding behind *The Professor* and set him free. The book reveals the psychological and spiritual terrain he navigated and the price paid for the rewards he reaped. Bill is a distinguished professor emeritus of engineering at the Univ. of California, Berkeley.

**Rene M. Miller, P.E.**  
 Louisiana Epsilon '93

**Operation Hacker to Slacker**

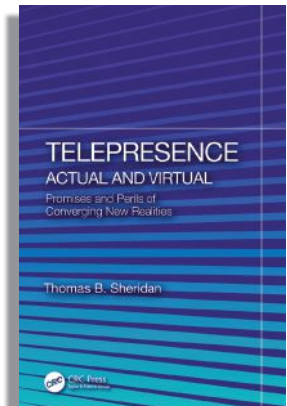
As a former mechanical engineer, René knows the need to eliminate "unplanned" work through efficiency. His book shares the nightmares that occur as a result of less than par I.T. support and security and answers your questions about how to keep your business, data, and money protected against a cyber attack. Read the facts and win the war on cyber crime.



**Thomas B. Sheridan**  
 Indiana Alpha '51

**Telepresence: Actual and Virtual**

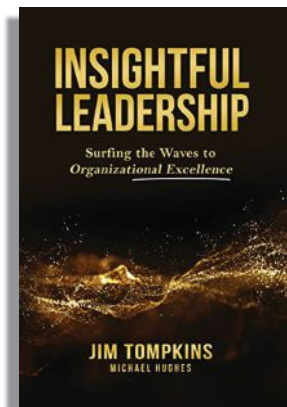
Telepresence refers to experiencing a sense of presence in a location other than where a person actually is. Tom, an emeritus professor at MIT, provides a survey of how virtual and robotic telepresence present the same issues. The book reviews the history, current technology, philosophy, and applications of telepresence. It also details both the benefits and the perils of this new technology.



**Jim A. Tompkins, Ph.D.**  
 Indiana Alpha '68

**Insightful Leadership: Surfing the Waves to Organizational Excellence**

Published in August 2022, Tompkins' latest leadership book explains how business is never going to return to an old normal or find a new normal. He details a modern perspective on how, instead of assuming certainty, leaders must identify good options to face a world of known uncertainty. Jim is chairman of Tompkins Ventures and Tompkins Leadership.



# Alumni Giving

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The Donor Recognition Clubs are part of our effort to recognize a donor's total lifetime cumulative giving to Tau Beta Pi. **THANK YOU** to the 3,887 TAU BETA PI ALUMNI and others who made donations to the Association totaling \$778,007 between November 1, 2022, and January 31, 2023. Gifts received after January 31 do not appear here but will be published in the Summer 2023 issue. These club names and amounts, updated by the TBPI Executive Council in 2021, are set at the following levels:

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PA A 1875, Founder of Tau Beta Pi

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### \$250,000+ Harelson Club

Katharine C. Harelson, KY A 1924  
1st Women's Badge (WB) recipient

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### \$50,000+ Franklin Club

Marjorie A.H. Franklin, KS A 1957  
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Henry B. Evans, Ph.D., PA A 1893  
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### \$1,000+ Downing Club

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1st Black HBCU engr. dean

### \$500+ Moore Club

A.D. Moore, PA G 1915, TBPI president, Fellowship Program founder

### \$250+ Forman Club

George W. Forman, IL A 1941  
Led TBPI/Sigma Tau merger

#### NOTES:

1. Names preceded by SPEC denote gifts from non-members.
2. Names marked with a † symbol are of deceased members in whose memory donations were made either by relatives and friends or through bequests.



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all of the other contributors in a protected PDF document. If you have questions or concerns, please contact [tbp.development@tbp.org](mailto:tbp.development@tbp.org). Thank you for your understanding as we strive to produce an enjoyable and cost effective magazine for our readers.

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 Pih, Norm '82  
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**VT A** Brand, Ronald Parsons '60  
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**VA B** Hogan, James Campbell '70  
**WA A** Okita, Richard Y. '56  
**WA B** Moors, Donald Edward '55  
**WV A** Baker, Dave Wesley '76  
**WV B** Payne, Michael E. '81  
**WY A** Steadman, John W. '64  
 Steadman, Sally Jean '69

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 Stout, Roger Paul '77  
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**CA Γ** Bowerman, Lawrence John '69  
 Hess, Ken Lafferty '74  
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 Tozaki, Ronald Yuji '74  
**CA Θ** Smith, Gregory W. '75  
**CA I** Pickett, Stephen Euan '75  
**CA Δ** Downing, Edward Ernest '84  
**CA M** Sciacca, Joan Michelle '87  
**CA O** Treinen, James Patrick '85  
 Turhollow, Charles Bernard '81  
**CA Y** Alexander, Joseph W. '06  
 Alexander, Rachel Kristin '15  
**CA Φ** Jenkins Jr., Lester Alfred '01  
**CO A** Knight, William James '79



# Alumni Giving

Evans Club continued

**CO** Δ Laughlin II, George Thomas '75  
**CT** B Chatfield, Larry Allen '71  
 Pressman, Roger Stewart '69  
**DE** A Hyer, Frank Sidney '58  
 Kershner, Vance V. '79  
**FL** A Bolton, Charles Houston '62  
**FL** E Cowan Jr., David James '14  
**GA** A Driggers, Herbert H. '63  
 Fawcett, Clinton Douglas '92  
 Mowrey, Dan B. '65  
**IL** A Baits, Paul Gordon '79  
 Tracy, Mark Alfred '86  
**IL** B Jaras, Anthony A. '67  
**IN** A Barker, Kenneth Dale '64  
 Carlson, Richard Alan '70  
 Ricks, Steve Wayne '63  
 Badger, Jerry Delon '62  
**IN** Γ Buran Jr., Joseph Edward '75  
**IA** A Feisel, Lyle Dean '61  
**IA** B Smull, Warren Lindsey '57  
**KS** B Patton, Robert Eugene '70  
**MD** B Ausherman, Donald Wayne '79  
 Jansen, Russell Onas '74  
 Schaefer Jr., William Joseph '70  
 Valencia, Jaime Alfonso '74  
**MA** A Bujaucius, Jerry Alan '79  
 Duris, Robert Alan '74  
**MA** B Evans, Lary Lewis '67  
 Goldstein, Andrew Carl '69  
 Walsh, Eamon Francis '03  
 Patkin, Murray Solomon '64  
**MA** Δ Stevens, Janet Marie '72  
**MA** E Lewis, Nelson David '73  
**MA** Z Wotiz, Robert Paul '78  
**MI** A Spindler, Jeffrey David '79  
**MI** B Leven, Peter Johannes '93  
**MI** Γ Battel, Steven J. '79  
 Pepper, Julia Lynn '84  
 Seidel, David Allen '81  
**MI** H Pascany, Kenneth Michael '86  
**MT** A Royer, Lindy George '61  
**NE** A Walcott, Gwen Sharyn '82  
**NJ** A Post, Ed Lewis '62  
**NJ** Δ Yu, Jeff Chih-ping '89  
**NM** B Slominski, Paul '78  
**NY** Γ Luckett, Larry Wayne '83  
**NY** E Hellman, Martin Edward '66  
**NY** H Buttermann, Heidi Carol '79  
**NY** I Judd, Bob Paul '78  
**NY** Π Stalzer, Jeffrey '74  
**NY** T Olenik, Anthony Michael '08  
**NC** Γ Anapol, Edward '76  
**OH** B Forchione, Dennis Angelo '72  
**OH** M Bowers, Keith Allen '91  
**OK** A Edwards, Paul Arnaud '87  
 Hall, Ralph Roy '64  
**PA** A Wagner, Theodore Walter '71  
**PA** B Hertneky, John A. '79  
 Marsteller, Charles Edward '74  
 Scott, Walter Alfred '59  
**PA** E Gibbons, Joseph Harrison '56  
**SC** B Davis III, Emmett Irwin '79  
**SD** B Ufford, Donald A. '87  
**TN** A Froula, Jim DeWayne '67  
 Massimini, Michael Ian '76  
**TN** B Layne, Peggy Edith '80  
 Skoglund, Paul Albert '89  
**TN** Δ Chauvin, Wendy M. '89  
**TX** A Smith, Matt Thomas '93  
 Tran, Tan Dai '87  
**TX** B Tye III, John M. '67

**TX** Γ Sandmann Jr., Charles W. '82  
**TX** H Nooyi, Raj K. '78  
**TX** Θ Barrett, Jerry George '70  
**UT** A Eide, Eric Norman '89  
**VT** A Ketcham, Kenneth James '68  
**VA** A Powell, Joseph Broun '78  
**VA** B Breeser, Jeffrey William '83  
**WA** A Gunter, Robert Arnold '62  
 Pierce, Russ W. '70  
**WV** B Ashman, Michael D. '84  
 DeHart II, Bob Elwood '72  
**WI** A Frazier, Clive '66  
 Yee, Paul Yuen-Po '70  
**WI** Γ Hanson, Dave L. '86

## \$2,500+ Eaves Club

**AL** A Cowles, Gary Dreaper Edward '87  
 Trapane, Karen Louise '82  
**AL** B Andzejewski, Joseph Richard '90  
 Mostley, Talmadge Mordant '65  
**AL** Δ Styles, Robert Charles '76  
**AK** A Braun, David Robert '74  
 Dombrowski, Roger Alan '69  
**AZ** A Chen, Daniel J. '83  
**AR** A Erickson, Kenneth Lynn '68  
 Hunt, Gary Wayne '84  
**CA** A Newtown Jr., Glenford Andrew '69  
 Fong, Kirby William '67  
 Hoe, Albert '92  
 Kirschman, Randall Keenan '66  
**CA** B Lee, Roland Robert '75  
**CA** Γ Dohner, John Walter '72  
 Hardison, R. Logan '57  
 Jedenoff, George A. '40  
 Marks, Stuart Warren '84  
 Sansbury, James Douglas '66  
 Ullman, Marc Albert '83  
**CA** Δ Sekimura, Gerald Takashi '73  
**CA** E Dobbs, Michael Wayne '66  
 Gritton, Eugene Charles '63  
 Hitz, Jerre Allen '58  
 Karagozian, Ann Renee '78  
 Simsarian, Greg Garabed '82  
 Warner Jr., John Hilliard '63  
 Welstand, Steve Stephen '64  
 Wenck, James Carl '77  
**CA** H Burrows, Stanford '63  
 Kruusmagi, Daniel Thomas '13  
**CA** Θ Brust, Roland Lee '70  
 Anonymous '84  
**CA** I Kuspa, Joe Anthony '93  
**CA** K Scanlan, Lawrence Allen '68  
**CA** Δ Coombs, Richard Allen '75  
 Hafer, Edward Henry '70  
 Yamamoto, Ko '84  
**CA** M Yung-Rubke, Belinda '80  
 Clark, David James '99  
**CA** N Keiser, Randy Jay '73  
**CA** Π Smith, Michael P. '84  
**CA** P Preston, Kimberly Denise '96  
**CO** A Andersen, Eric Kenneth '79  
**CO** Δ Rense, John A. L. '74  
**CO** B Aerstin, Franklyn George '64  
 Blackwelder, Ron F. '64  
 Frey, Bryce Alfred '56  
**CO** Γ Mead, Richard Wilson '63  
**CT** A Fischer, Edward Michael '89  
**CT** B Killingbeck, David R. '77  
 Tylaska, Theodore Thomas '85

**DC** A Gathungu, Peter Maina '93  
**DC** B King, David Alan '68  
 Maslen, Carrie J. '82  
**DC** Γ Altamore, Annette '79  
 Haldeman, Paul Metz '70  
**FL** A Evans Jr., Andrew Joseph '75  
 Iwens, Ralph Peter '62  
 Layman, Robert William '68  
 Lewis, Lee Conley '91  
 Newlands, David Michael '62  
**FL** B Ault, Richard Harold '64  
 Jennings IV, Tipton Davis '54  
 Tilles, Arno William '85  
**FL** Γ Copeland Jr., Edwin '73  
 Jones, William David '74  
 Lyons Jr., Tom Francis '76  
**GA** A Cooper Jr., Basil Pearson '65  
 Rogers, Don Edwin '63  
 Snare, Daniel Marion '80  
**IL** A Buboltz, Lisa Ann '01  
 Jones, Doug Warren '80  
**IL** B Ostrodka, David Leon '70  
 Carter, David William '68  
 Gurney Jr., Donald P. '59  
 Hughes, Joseph L A '79  
**IL** Δ Hachtel, Dale Arnold '68  
**IL** Z Glait, Scott Steven '84  
 Woyna, Mark Anthony '87  
**IN** A Ginter, James Lee '67  
 Hohn, Richard Edward '62  
 Reitz, Richard Alan '63  
 Renner, Arnold Edward '54  
 Roby, Dennis Edgar '60  
 Teague, Stephen Michael '71  
 Thompson, Curtis Brooks '51  
 Weigand Jr., Karl Russell '66  
**IN** Γ Schuster, Gregory Michael '77  
**IN** Δ Hartman, Richard Carl '63  
**IA** A Derr, Curtis R. '85  
 Paris, Stephen Warren '75  
 Shepherd, Kevin John '83  
**IA** B Aron, Gert '58  
 Smith, Richard Kenneth '60  
**KS** A Knapp, Roy Marvin '63  
 Leamon, Rich Gaylord '67  
**KS** B Brown, Cheryl Ann C '82  
**KY** A Bauer, Arthur Robert '63  
 Halloran, Stephen Richard '75  
 Howe, Richard Samuel '59  
**KY** B Minsterl, James R. '71  
**LA** A Compton, Ronnie Ray '72  
 Richardson, John Daniel '72  
 Williams, Colleen Daniel '82  
**LA** B Buesinger, Bob Ford '78  
 Perrin III, Shepard Francis '83  
**LA** Γ Quarles, Harry Fred '74  
**MD** A Poole, Ronald Gene '69  
 Gutsmith, Henry Ronald '56  
**MD** B Shinham Jr., Charles Robert '71  
 Tate, David Marshall '84  
**MD** B Antony, Roger William '71  
 Beard, James Lawrence '67  
 Lambrechts, James Russell '73  
 Perkins, Michael Joseph '95  
 Rowland, R. Wilson '51  
 Toense, Robert Earle '76  
 Trimble, Alan Roy '71  
**MA** A Descoteaux, Kenneth Gerard '89  
 Hubelbank, Mark '68  
 Lescoe, James Terrence '05  
**MA** B Clauss Jr., John Seebold '54  
 Hladik, Karen Jean '78



Clarke Club  
**James J. Tyson Jr., USN Ret.**  
 CA Γ '58  
*"Tau Beta Pi made me realize that I was not the brightest bulb in the room."*



Clarke Club  
**Jay K. Morris**  
 OK A '81  
*"I support TBPi so that future engineers can continue to solve the world's technical problems."*

*Eaves Club continued*

	Kornafel, Peter Robert '65	<b>NY E</b>	Febesh, Melvin '47	<b>PA E</b>	Mansfield, Brian David '91
	McKim, Thomas Francis '75		Martin, Kent Richard '66	<b>PA Z</b>	Ebner, Alan Martin '61
	Patterson, John Bryan '68		Rubin, Lowell '61		Kasoff, David '55
	Simpson, Richard Allan '67	<b>NY Z</b>	Frohman, John E. '72	<b>PA H</b>	Boldt, Charles Martin '73
<b>MA Δ</b>	Smallwood, Richard Dale '57	<b>NY H</b>	Pasquarelli, Louis Ralph '73		Hills, Frederick James '61
<b>MA E</b>	Harty Jr., Frederick Russel '61	<b>NY Θ</b>	Beckeman, Bill Jerauld '79		Hotchkiss, Jeff R. '69
	Bittner, Douglas E. '83		Crompton, Kenneth H. '67	<b>PA Θ</b>	Price, Russell William '72
<b>MA Z</b>	Pinkham IV, Tom A. '88	<b>NY I</b>	Kaylor, James M. '88		Daniels Jr., Harold E. '66
	Meurer Jr., Glenn William '86		Dujmich, Louis Charles '78	<b>PA Δ</b>	Kneidinger, Carl Frederick '70
	Poulin, James Edward '66	<b>NY Δ</b>	Neuschaefer, Howard Ernest '65	<b>PR A</b>	Janocko, David Jeffrey '81
<b>MI B</b>	Smith, Richard Gregory '78		Abrardo, Joseph M. '72		Blasini, Francois Rene '82
	Vukovich, Robert James '83		Kuras, John Edward '69	<b>RI A</b>	Hilerio Sanchez, Josuan '07
<b>MI Γ</b>	Wacker, Don Herbert '52	<b>NY M</b>	Moon, Monte Lee '75		Fleming, Read T. '77
	Ardis, Robert Boyd '46		Czuba, John Stanley '78	<b>RI B</b>	Fradkin, Henry Edward '68
	Cameron, John Joseph '66	<b>NY N</b>	Rest, George B. '75	<b>SC A</b>	Vascellaro, Jerome Charles '74
	Engelhardt, Larry Norbert '77		Marso, Rudolf '59		Luz, James J. '80
	Prescott, Thomas J. '69	<b>NY Ξ</b>	Zarchy, Andrew Stephen '73		Dalrymple, Gerald Andrew '83
	Reines, Jose '59		Deierlein, Charles '82		Doss, Thomas Glenn '71
	Smithies, Henry '49		Kmetzo, John Liston '63		Harmon, Leon Carroll '71
	Stewart, Steve Russell '66	<b>NY O</b>	Mathews, Joseph Raymond '81	<b>SC B</b>	Rushton, Floyd Robert '63
	Washburn, John Robert '69	<b>NY P</b>	Baxter, Scott Charles '85		Endler, Elizabeth Elaine '98
<b>MI Δ</b>	Kogut, Ken Joseph '71	<b>NY Q</b>	Vebeliunas, Rimas V. '74		Harris, Raymond E. '87
<b>MI E</b>	Boileau, James Maurice '87	<b>NC A</b>	Caudle, Daryl Lane '85		Husband, D. Mark '83
	Durisin, Mike John '81		Deitrick, Kurt Frederick '78	<b>TN A</b>	Thomas Jr., Cunningham P. '58
	Philippart, Nancy Lynn '80		Maybee, Clare Lee '77		Armentrout, Daryl Ralph '65
	Thompson, George W. '55	<b>NC Γ</b>	Walker, Gary Kenneth '70		Baker, Jon Pankey '74
<b>MI Z</b>	Pettiford, Steven Douglas '72		Ando, Robert Ryoichi '73		Cook Jr., Joseph Campbell '65
<b>MI H</b>	Hill, Scott S. '83		Franks, Marla Jane '79		Jennings-King, Sherry Denise '93
	Obudzinski, Gary Thomas '76		Hovis, John Garrison '78		King, Greg T. '93
<b>MN A</b>	Petesich, Douglas John '84	<b>NC Δ</b>	Vadnais, Paul A. '73		Prados, John William '54
<b>MS A</b>	McKay Jr., Frank Fay '60	<b>NC E</b>	Jones, Luellen Barnett '83		Riggs, Donna R.H. '87
<b>MS B</b>	Woody, Marvin David '79	<b>ND A</b>	Allen, James A. '88	<b>TN B</b>	Vandenbulck, Charles Franz '56
<b>MO A</b>	Meyer, Roland P. '64	<b>OH A</b>	Jacobsen, John W. '69		Marianelli, Walter David '75
	Oehrke, Timothy Chris '75	<b>OH B</b>	Hamilton, Joshua J. '09	<b>TN Γ</b>	Pentecost, Gene Edgar '50
	Sandfort, Robert Melvin '64	<b>OH Γ</b>	Hamilton, Edward L. '73	<b>TX A</b>	Steelman, James Taylor '71
	Weary, Franklin Grimm '70		Becher, Charles David '72		Glasow, Brian Scott '99
	Yunker, Ronald Lee '71		Condit, Dale O. '66		Klump, D. Craig '77
<b>MO B</b>	Ash Jr., Richard Lawrence '70		Feltz, John Francis '61		Peterson, Robert Adrian '80
	Eldred, Benjamin Todd '96		Guins, Thomas Sergei '69	<b>TX B</b>	Reese, Francis Edward '75
	Peat, Robert James '79		Hagenlocker, Edward Emerson '62		Wilson, Randy Wayne '97
<b>MO Γ</b>	Byrne, Clare Theresa '78		Howland, Smith Eugene '69		Bourdon III, Lynn Louis '84
	Chambers, David Hugh '80		Orkins, James E. '66		Gilmer, Tracy F. '80
	Rossetti, David Joseph '74		Anonymous '86	<b>TX Γ</b>	Stinson, John Michael '66
<b>MT A</b>	Collins, Douglas Macnab '71	<b>OH Δ</b>	Shelley, Bill Raymond '74		Hunter, David George '79
	Pearce, Mary Ann '76		Felice, Conrad William '79	<b>TX Δ</b>	Lodal, Jan Martin '65
<b>NE A</b>	Criswell, Marvin Eugene '65	<b>OH H</b>	Moore, Mathew Franklin '62		Barger, David Carl '71
	Doerr, Eric Arthur '88	<b>OH I</b>	Senyk, Joseph Michael '67		Glasscock, Melbern Gilbert '59
	Steube, Milan Ray '74	<b>OH K</b>	Strausbaugh, Patrick Dennis '86		Goodson Jr., Alfred Wesley '70
<b>NV B</b>	Nietling, John J. '90		Billman, Randy William '82		Muldrow, Grady Montgomery '89
<b>NH A</b>	Scharfe, Alan Charles '78	<b>OH M</b>	Maki, Luke Richard '78		Simpson, Stancy Jean '79
<b>NJ A</b>	Murphy, Kevin Jay '78		Dull, Daniel D. '90		Weisinger Jr., William Samuel '62
<b>NJ B</b>	Fletcher, Leroy Stevenson '58	<b>OK B</b>	Kelly, Gregory Joseph '88	<b>TX H</b>	Zimmerman, Keith Donald '89
	Kaufman, Peter Andrew '84		Bobo, James Edward '77		Falk, Nathan Max '75
<b>NJ Γ</b>	Angyal, Stephen '63	<b>OK Γ</b>	Royce, Robert Michael '73		Hoffman, Heather Brunn '92
	Krumins, Aivars Edgars '75	<b>OR A</b>	Basore, Paul Alan '78		Nicholson, James Eric '75
	Kunyz Jr., Joseph John '73		Bishop, Donald Lee '65		Thompson, James A. '72
	Mauermeyer, Henry A. '72		Hansen, Steven William '69	<b>TX Θ</b>	Foster, Ottis Charles '82
	Mozda, Stanley J M '69		McCormick, Gary Allen '74	<b>TX Δ</b>	Rosenwald Jr., John Andrew '88
	Pecca Jr., John Anthony '87	<b>PA A</b>	Miller, George Edward '77	<b>UT A</b>	Davidson, Stuart Wayne '83
	Sharon, Tony Peter '74		Milton, Stuart W. '84		Lyman, George Randall '79
<b>NM A</b>	Peace, Jeffrey Howard '76		Sias, James Frederick '57	<b>VT A</b>	Cimonetti, Bill James '59
<b>NM B</b>	Busch, Robert Douglas '72		Hernjak, James Gregory '96	<b>VT B</b>	Cobb, Eben Charles '77
	Sevier Jr., James Montraville '96	<b>PA B</b>	Lybas, John M. '70	<b>VA A</b>	Garner, Patrick Lynn '72
<b>NY A</b>	Cohen, Adam Barrett '85		Sherman, William Joseph '60		Wadsworth, Robert Manning '82
<b>NY B</b>	Carr, Donald Joseph '77		Talhelm, Donald Lee '59	<b>VA B</b>	Harras, Edgar Daehn '67
	Spearot, James Anthony '67		Anderson, Charles Alfred '57	<b>VA Δ</b>	Gehr, David R. '68
<b>NY Γ</b>	Hartung, Edward Clinton '63		Kolivosky Jr., John Edward '92		Payne Jr., LF '67
	Schultz, Stephen Parker '70		Magnus, John C. '48	<b>WA A</b>	Confer, Peggy Jean '81
	Thal Jr., Herbert Ludwig '53	<b>PA Γ</b>	Slocum, Helene Zuber '85		Orr, Peter Courtney '71
<b>NY Δ</b>	McCloskey III, Charles Carroll '71	<b>PA Δ</b>	Robb, Frank Jay '73	<b>WA B</b>	Ray, Edworth Lillard '48
	Zises, Matt Scott '96		Sheker, Robert E. '91	<b>WV A</b>	Lengyel, Nicholas Martin '70
				<b>WI A</b>	Delucca, Gregory James '59

# Alumni Giving

## Eaves Club continued

**WI B** Dschida, Linda Maria '82  
 Jaye, Deborah Ann '03  
 McMorro, Daniel Patrick '98  
 Mooney, Thomas Joseph '79

**WI Δ** Whalen, David Alan '91

**WY A** Cavalli, Matthew N. '98  
 Cook, Norman L. '79  
 Gallensky, Neil Ellis '82

## \$1,000+ Downing Club

**AL A** Anderson, Pete Lawrence '75  
 Brown, Lawrence Owen '64  
 Carey, George Walter '69  
 Hill, Gregory John '74  
 Singley, John Charles '73

**AL B** Delorenzo, Joseph David '57  
 Gachet, Thomas Hugh '60  
 Hopper, Jeffrey Clark '78  
 Shields, Clark Richard '71  
 Slaughter, Charles Jeff '82

**AL Γ** Jacobs, Bryan Keith '81

**AL E** Mincy, John Wayne '70  
 Zozulin, Alexander Joseph '91

**AK A** Darrow, Margaret Marie '02  
 Leonard, Leroy Edward '72  
 Usibelli Jr., Joseph Emil '81

**AZ A** Berg, Jeffrey Roy '93  
 de Shazo Jr., Thomas Edward '62  
 Krisa, Kenneth Charles '82  
 Leonardi, Suryanto Felix '86  
 McLaughlin, Dennis Patrick '80  
 Peterson, Marla Ann '83

**AZ B** Takinen, Scott Alan '79

**AR A** Ball, Donald Harlin '66  
 Sharp, Steve Harold '76

**CA A** Bruemmer, Timothy Michael '84  
 Leung, Cissy S. '80  
 Secor, Kenneth Eugene '55  
 Selna, Michael William '70  
 Wilhoite, W. Clinton '85

**CA B** Creutz, Michael John '66

**CA Γ** Young, Lawrence Renwick '71  
 Edmundson, Bruce James '71  
 Inouye, Lance Masao '68  
 Likins, Peter William '57  
 Love Jr., Ralph Edwin '57  
 Madden, Christopher J. '85  
 Palmer III, Everett Arthur '65  
 Rodriguez, David Albert '58  
 Warner, Richard Harold '82

**CA Δ** Agajanian, Shooshanig Diana '79  
 Bolliger, James E. '71  
 Griffith, Glen Arthur '72  
 Hamilton III, Edsel Poston '72  
 Haririan, Vida '94  
 Hedin, Richard Allen '69  
 Itamura, John Mindru '85  
 Kohlenberger, Gerald Lewis '74  
 Koppány, Charles Robert '63  
 MacDonald, Kirk Stewart '70  
 Nakatani, David Takeshi '63  
 Rey, Daniel '66

**CA E** Beguwala, Moiz '67  
 Goodkin, Mitchell Arthur '68  
 Krieger, Marc Yared '88  
 Masumura, Robert A. '62  
 Reichert, Ralph Jeffrey '67  
 Vehrencamp, John Edward '50

**CA Z** Masnada, Dan Angelo '75  
 Mathews, Steven Matt '69

**CA H** Broadston, Robert Dean '94  
 Cirigliano, Richard Louis J. '81  
 Khalili, Azita '83  
 Sakai, Tessi '75

**CA Θ** Gerwien, Phillip Harvey '77  
 Hill, Jo Ann Lucy '87  
 Kennedy, Joseph Albert '76  
 Lowe, William Warren '79  
 Piburn, Russell J. '75  
 Sedlak Jr., William Lee '81  
 Smith, John Mervin '70  
 Stone, Ronald E. '66

**CA I** Hanna, Hugh Allen '60  
 Schluer, David Wesley '82  
 Wrigley, Chris J. '96

**CA K** Kern, Jack Clayton '71  
 Taylor, Robert Derek '82

**CA Λ** Chargin, David Anthony '97  
 Smith, Robert Press '75  
 Stanley, Richard Loren '79  
 Miranda-Upham, Sheila Diane '63  
 Upham, David Bryan '83  
 Wells, Russell Patrick '77  
 Young, Jeffrey W. '69

**CA M** Beard, David Charles '91  
 Johnson, Bruce William '78  
 Lee, Steven Yang-Sien '86  
 Rodgers, Patrick James '80

**CA N** Amirhosseini, Michael M. '90  
 Harmeyer, Michael Allen '90  
 Jimenez, Ramon '95  
 Johnson, Michael Robert '86  
 Mayer, Robert James '85  
 Michelson, Gregory James '88  
 Reukauf, Paul James '70  
 Rheinhardt, Brian J. '83  
 Ruud, John Emil '73  
 Veit, Brian Richard '98

**CA Ξ** Doeing, Brian James '81  
 Nicoloff, Louise Therese '82  
 Nicoloff Jr., Nichols '83  
 Schroeder, Steven Albert '78

**CA O** Caballero, Ross Charles '72  
 Fitzsimons, Michael Joseph '79  
 Flentz, John Michael '77  
 Page, John Arnold '61  
 Steinberg, Dennis Philip '72

**CA Π** Alexander, Dean Lee '80  
 Costello, Vincent J. '08  
 Hoffmann, Kevin Von '80  
 Motogawa, Bruce Joji '75  
 Stillmaker, Aaron Thomas '08  
 Stillmaker, Kim Rose '08

**CA Σ** Black, Stephen H. '85  
 Frankel, Craig Alan '86

**CA Υ** Burns, Michael Thomas '88  
 Lindauer, John Arthur '90

**CO A** Benjes III, Skip Henry Herman '87  
 Cochran, Noelle Renee '86  
 Crisi, Peter Alfred '86  
 Devoe, Tracie Kay '82  
 McNeil, Charlie Seward '71  
 Miks, Kathryn Fink '87

**CO B** Cormack, Christopher Watson '82  
 Davis, Gregg Randal '77  
 Eason, Ernest Day '71  
 Hamai, Daniel Masao '86  
 Sorensen, Chris David '79  
 Walker, John Sherwood '53  
 Wood, John Everett '71

**CO Δ** Fisher, James Eberly '78  
 Mehring, James Warren '72

**CT A** Bennett, Beth Anne '91  
 Bugel, Robert Harry '45  
 Cooper, Richard Craig '63  
 Gerson, Gordon '58  
 Kucera, Daniel Jerome '61  
 Ljung, Michael Allen '92  
 McLeod, Christopher Kevin '77  
 Altschuler, Steve '54

**CT B** Devin, Maurice Roger '73  
 Follette, Jean Marie '73  
 Grossman, Richard Larry '69  
 Kane, Martin Paul '86  
 Whittlesey, Richard Allen '64

**CT Γ** Boccia, Chris-Michael '97

**DE A** Buehler, John Henry '68  
 Folsom, Steven Allen '77  
 Packard, Lawrence Bruce '88  
 Winer, Harley Stanford '81

**DC A** Abron, Lilia Ann '68  
 Drew Jr., Vernon Overton '61  
 Long, Michael Edward '72  
 Sharpe, Irene White '63  
 Wimberly, Mark Oliver '77

**DC B** Delgado, Tony J. '93  
 Maggio, John Joseph '81  
 Roberts, Carol Ann '63

**DC Γ** Blackford, JP '95  
 Spak, Steven Leon '89  
 Wilhelm, Eugene Bailey '86

**FL A** Charlton, John Dunaway '72  
 Fantozzi, Solange Dao '95  
 Glass, John Dorrance '73  
 Hayden, James George '69  
 Perrygo, Charles Maurice '75  
 Schoppman, Gregg M. '08  
 Townsend, Frank Charles '62  
 Vande Vusse Jr., Gerald '65

**FL B** Elnaggar, Suzanne '93

**FL Γ** Gonzalez, Cristina Maria '79  
 Ball, Arthur Morley '70  
 Chenkin, Joseph Alan '82  
 Houmis, Nicholas James '74  
 Preslar, Daniel Alton '91

**FL Z** Fricke, Steven Allen '93

**FL I** Passarelli, Brian L. '10

**GA A** Allen, Myron B. '58  
 Axon, Michael William '90  
 Backhaus, George Peter '83  
 Barber, Brian Robert '81  
 Burgess, John Milton '61  
 Coons, Louis Whatley '81  
 Drawdy, Jean Elizabeth '78  
 Hair, James Graham '59  
 Hilton, Joanne Louise '80  
 Kuniansky, Eve Louise '81  
 Menges, Thomas Abel '78  
 Monk, Robert Franklin '63  
 Northington, Peyton Alexander '78  
 Ostlick, Rochelle '83  
 Shurbutt, J. Steven '75  
 Siemens III, John Frederick '75  
 Stuber, Donald Robelyn '71  
 Sudderth, Stella K. '80  
 Ware Jr., Clyde Lee '59  
 Yarbrough, David Wylie '60

**ID A** Ahlschlager, Alan Douglas '87  
 Peters, Daniel J. '80

**IL A** Allen, Charles Humphrey '66  
 Bein, Robert Walter '56  
 Benzinger, Leonora Ann '86



Evans Club  
Mark A. Tracy, Ph.D.

IL A '86  
"So proud to support Tau Beta Pi and the future generations of engineers."



Eaves Club  
Christopher R. Ratto, Ph.D.

DC B '07  
"Tau Beta Pi is developing top engineering students into the leaders we need."

Downing Club continued

	Boehm, Ronald Jack '81		Waterman, Robert Carl '70		Degon, Robert John '66
	Campbell, Larry Milton '64	<b>IN Γ</b>	Fitzgerald, Edward John '86		Musk, Jeffrey Hill '86
	Davison, Brian C. '87		Galeziewski, Thomas Michael '78		Quellette, Alfred David '76
	Ellis, Paul David '66		Hawes, William Michael '78	<b>MD A</b>	DiGiorgio, Joseph Brun '54
	Flitman, Jeff Edward '82		Hutchins, Robert Leon '62		Kutcher Jr., John Francis '86
	Hanus, Daniel Joseph '86		Kast, Steven James '69		LaBerge, Chuck Charles '74
	Herning, Joel Gregory '69		Lombard, Michael Gerard '76		Linaweaver, Pierce '55
	Kent, Michael Edwin '64		O'Connor, Brian Thomas '72		Lu, Stanley '95
	Knox, T. '86		Shalvoy, Charles Edward '69		Scheinin, Warren M. '74
	Kuske Jr., John Anthony '61	<b>IN Δ</b>	Springer, Denis Eugene '67		Sniegowski, Gary Howard '78
	Lenzini, Peter Arnold '75		Dietrich, Jay Michael '80	<b>MD B</b>	Birkmire, John Christopher '95
	Olson, Robert David '88		Schmalz, Peter B. '69		Bohse, Michael Edward '85
	Schoenberg, Kurt Francis '72	<b>IN E</b>	Valenti, Paul M. '01		Cook, Gordon Douglas '81
	Wilhelm, Dale R. '80		Ali, Afzal '78		Devereaux, John Paul '67
	Wilkins, Gregory Martiné '92		Lund, Stephen R. '80		Dinkle, Ralph Edward '65
<b>IL B</b>	Williams, Allan Richard '71		Shefer, Ilan Gideon '77		Hardesty, Donald Roy '64
	Anderson, Robert Francis '62	<b>IA A</b>	Bartlett, Roger James '64		Iacangelo, Gerard Felix '80
	Kinast, John Arthur '79		Cerwick, Joel Alan '66		Kirschbaum, Alan Ira '71
	Knorovsky, Gerald Albert '70		Coffey, Leo Frederick '64		Lawrence III, Joseph Parran '68
	Lewis, Burton A. '48		Cortum, John David '77		Purdum, Spencer William '70
	McCormick, Thomas Joseph '60		Drumm, Alfred Wendall '64		Roth, W. Clint '78
	Ziomek, Arkadiusz '10		Gaul, Alan David '83		Sacks, Herbert Kenneth '64
<b>IL Γ</b>	Bickes Jr., Robert William '63		Mankowski, Alan Thomas '68	<b>MD Γ</b>	White, Anthony Albert '95
	Christopher, James Mosko '84		Olson, Scott E. '69		Kolley, Chester Michael '85
	Guest, Howard Brandon '81		Owens, David Andrew '91	<b>MD Δ</b>	Lipscomb Jr., George A. '87
	Miner, Warren Philip '59		Rerucha, Thomas Lee '81	<b>MA A</b>	Iannuzzi, Jo '96
	Ono, Craig Masao '81		Rustwick, John Douglas '71		Auclair, Jared Robert '01
	Sheppard Jr., Edward Griffin '63		Veenstra Jr., Henry Robert '71		Burgarella, John Paul '50
<b>IL E</b>	Garfield, Bill Michael '83		Wolfmeyer, Paul Albert '66		Downs, Allen Gybbon '75
	Hopkins, Mark Alan '82	<b>IA B</b>	Zwiebel, Jeffrey Lee '82		Lancey, Roderic Charles '51
<b>IN A</b>	Alexander, John Albert '56		Coe, Roger Norman '57		Oakes, Michael Willard '77
	Amaya, Mark Anthony '85		Corrao, Debbie G. '93	<b>MA B</b>	Wright, Neal Timothy '76
	Andrew, Stephen Peter '82		Roach, John Urban '78		Braisted, Paul Evan '79
	Binash, Irene Marie '79	<b>KS A</b>	Stevens, Stephen Arthur '77		Brandes, Richard David '57
	Bower, William Walter '67		Black, Arthur Geiger '70		Charpie, David Wayne '82
	Brinson, Robert James '60		Bradley, Richard Leland '59		Ciaramaglia, Frederick Joseph '69
	Bullions III, Robert Jackson '64		Carvell, Lee Arthur '84		Ditmeyer, Steven Roland '63
	Carter, Eric Lee '72		Harden, Dan Roger '71		Dodson, John Orville '68
	Cheesman, Mark William '81		Pack, Garrett Edwin '60		Ferguson, Keith McDowell '62
	Clodfelter, Donald Glen '55		Scamman, Franklin L. '66		Hilbing, James Henry '86
	Danner, David Lee '70		Seamans, David Alvin '50		Honke, James Kazuo '63
	Dries, David James Anthony '76	<b>KS B</b>	Struble, Philip William '79		Manganaro, James Lawrence '61
	Edwards, Deborah Jane '85		Suelter, Leonard George '58		Rogers, Peter Todd '82
	Egilsrud, Richard Leslie '81	<b>KS Γ</b>	Frutiger, Larry Dean '66		Shinko, Martin Stanley '72
	Eykamp, G. Richard '56	<b>KY A</b>	Howe, Donald Craig '78		Slifka, Richard Barry '61
	Findley, Richard Allen '66		McKinnis, Steve Ray '74	<b>MA Δ</b>	Spradlin, Louis Woodson '57
	Flanigan, David Lawrence '66		Cook, Robert Henry '74		Bloch, Frederick Hersh '68
	Frazier, George E. '57		Freeman, Richard Edwin '73		Buffinton, Keith William '79
	Gilewski, Robert Leslie '73		Midkiff Jr., Kenneth Clark '79		Colen, Frederick Haas '69
	Grot, Arnold Stephen '71	<b>KY B</b>	Rhoads, Harold Spencer '68		Hildebrant, Eric Michael '92
	Hall, Thomas Wayne '67		Hundley, John Smith '87		Milauskas, Ronald Joseph '62
	Hanover, Marilyn Kay '78	<b>LA A</b>	Hundley, Theresa Elisabeth '87		Munsey, Michael C. '89
	Herendeen, Robert Oliver '65		Meyers, James Frank '69		Savage, Paul David '77
	Hibbard, George Lewis '65		Angelo Jr., Ernest '56	<b>MA E</b>	White, Edward A. '47
	Horneys, David Chris '53		Bullard, Salem C. '63		Bielawski, Constance Frances '75
	Jebsen, Eric Richard '80		Champagne, Sidney Alfred '68		Chiodo, Richard Anthony '71
	Kelly, Paul Donald '59		Kleinpeter, Joe A. '65		Engler, Harold Frank '75
	Lee, Robert Edward '67		Leverett Jr., Freddie Joseph '62		Levesque Jr., George Emile '70
	Paniaguas, John Steven '73	<b>LA B</b>	Millar, John S. '68		Lichtig, John Forrest '83
	Pickett, Leroy Kenneth '68		Smith, Stewart Van '73		Loto, Thomas Anthony '93
	Rushworth, James Lynn '58		Bourgeois, Brian Steven '82		Marini, Robert Charles '54
	Schwiesow, Ronald Lee '62		Bourgeois, Edit J. '91		Payne, Bob Joseph '86
	Shulaker, Edward Ray '72		Heausler, Thomas Folsie '81		Williams, Charles Robert '53
	Simnick, James John '74	<b>LA Γ</b>	Marin, Justo Enrique '79	<b>MA Z</b>	Benwood, Bruce Robert '69
	Tveter, Steven Elliot '74		Giering III, Edmund Jacob '80		Gusciora, Kenneth Henry '69
	Ward, John B. '58		Hogan, Harry A. '79		Philbrook, T. Varnum '73
	Williams, Kenneth William '73		Owen, Mark Enos '92	<b>MA H</b>	Seus, John D. '84
	Woosnam, Thomas Jay '65	<b>LA Δ</b>	Wyche III, James Egbert '59		McKinstry, Bob C. '84
<b>IN B</b>	Cary, Jeffrey Mark '77		Garber, James Daniel '66		Whitley, Norman Lyle '75
	Martin, Jeffrey V. '78	<b>ME A</b>	Landry, Glen Ray '75		
	Nichelson, Scott Michael '84		Young, Ronald Dale '66		
	Ruddick, Everett Lindley '64		Atkinson III, Landy Guy '78		

Continues on page 48.

# IN THE COLLEGES

Tau Bates having an impact at institutions of higher learning.

## Alex G. Abramson Ph.D.

*Maryland Alpha '14*

Alex joined Georgia Tech in August 2022 as an assistant professor. Previously, as an NIH Postdoctoral Fellow at Stanford University, he conducted research designing a sensor that can wrap around a tumor and measure its growth or shrinkage in real time. Initial testing was published in the journal *Science Advances* and could aid basic cancer research.



## Jon Cagan Ph.D., P.E.

*New York Kappa '83*

Jon is head of the department of mechanical engineering at Carnegie Mellon University (CMU) as of November 1, 2022. He joined the CMU faculty in 1990, has an area of expertise in engineering design automation and methods, and will take co-lead of the first strategic plan for Equity, Diversity, and Inclusion for the college and its implementation.



## Louis N. Cattafesta III Ph.D.

*Pennsylvania Beta '86*

Louis was hired as professor and chair of the department of mechanical, materials, and aerospace engineering at Illinois Institute of Technology, as of August 2022. He is the inaugural holder of the John G. and Jane E. Olin Endowed Department Chair. Louis formerly served as a University Eminent Scholar and professor at the Florida A&M Univ.-Florida State University.



### SPOTLIGHT: Professor Receives Deming Award for Nuclear Packaging

— The 2022 W. Edwards Deming Outstanding Training Award was accepted by **Miles Greiner, Ph.D., CA A '79**, a mechanical engineering professor at the University of Nevada, Reno (UNR). The UNR program was recognized in the category of Agile Management by Graduate School USA and is a collaboration between UNR and the Dept. of Energy Office of Environmental Management Packaging Certification Program. “Nuclear Packaging is used to protect people and the environment during the storage, transport, and disposal of radioactive materials. These materials are essential for carbon-free nuclear power, defense, medical diagnostics, and other advanced science and applications.”

### NC State University and Under Armour Partnership

— The new partnership “will support student development, commercialize research, and advance textile and materials innovation across the apparel, footwear, and accessories industry.” In addition, Under Armour has opened an innovation center on North Carolina State University’s Centennial campus for employees to work alongside university researchers. Projects that the partners will collaborate on include uncovering innovative solutions to supporting athletes, while also improving the industry’s environmental impact. Under Armour plans to invest in research with NC State and collaborate with the NC State Nonwovens Institute — the world’s first academic program in the engineered fabrics field.

## Robert E. Kahn Ph.D.

*New York Eta '60*

Robert received one of Princeton University’s top alumni awards this February – the James Madison Medal. He was a co-inventor of “the fundamental communication protocols at the heart of the Internet.” Robert earned a Ph.D. in electrical eng’g from Princeton and is chairman, CEO, and president of the Corporation for National Research Initiatives, which he founded in 1986 after 13 years at DARPA.



## Ann R. Karagozian Ph.D.

*California Epsilon '78*

Ann was named the Collins Aerospace Term Chair for Innovation by the UCLA School of Engineering. She is a distinguished professor of mechanical and aerospace eng’g and director of the Collaborative Center for Aerospace Sciences at UCLA. Ann was selected to hold the chair for her contributions to improving the performance of advanced high-speed air-breathing and rocket propulsion systems.



## Charles L. Karr Ph.D.

*Alabama Beta '84*

Chuck was selected as the tenth president of the University of Alabama in Huntsville (UAH) by the University of Alabama System Board of Trustees. Prior to being appointed interim president of UAH in November 2021, he had recently retired from the University of Alabama (UA) after 26 years of service, where he had a 16-year tenure as dean of the UA College of Engineering.



## Frank S. Manning Ph.D., P.E.

*Pennsylvania Gamma '55*

Frank was inducted into the University of Tulsa's (TU) College of Engineering and Natural Sciences Hall of Fame. Joining the TU faculty in 1968, he was a ChE professor from 1968-2013, served as principal and/or co-investigator in more than 40 research grants, and published over 70 publications and three books. Manning is a three time recipient of the TU TBII Excellence in Teaching Award.



## Sally J. Marshall Ph.D.

*Illinois Gamma '70*

Sally is recipient of the 2022 IADR Gold Medal from the International Association for Dental Research. A professor since 1987 at the University of California, San Francisco (UCSF), she retired as the vice provost of academic affairs and is a distinguished professor emerita. Sally was recognized for the development of programs to enhance the faculty experience at UCSF.



## Daniel J. Pack Ph.D., P.E.

*Indiana Alpha '94*

Daniel has been selected as dean of the Baylor University School of Engineering and Computer Science, effective June 1. He currently serves as Univ. of Tennessee at Chattanooga CECS Dean, was a 2005 Carnegie U.S. Professor of the Year, and has co-authored seven textbooks on embedded systems with research interests in unmanned aerial vehicles.



**FACILITIES: UA Little Rock Professor's Family Makes Gift** — The University of Arkansas at Little Rock received a \$6.75 million gift from the family of engineering professor **Yupo Chan, Ph.D., P.E., MA B '67**, who was responsible for establishing some of the university's first engineering programs. The Yupo and Susan Chan Charitable Trust made the gift to fulfill the expressed vision of the founding chair (Dr. Chan) of UA Little Rock's Department of Systems Engineering, who passed away in 2020. The gift will support UA Little Rock's new school of engineering and engineering technology, provide scholarships for engineering students, and establish the Yupo Chan Director of the School of Engineering Endowment.

**NYU Makes Long-Term Investment in Engineering** — The New York University Tandon School of Engineering recently purchased a 350,000 square ft. building adjacent to the current engineering school. The "purchase of the new facility will help support an ongoing \$1 billion investment in Tandon to significantly advance engineering at NYU by recruiting 40 new full-time tenure track faculty, fueling groundbreaking research, and growing/modernizing its Downtown Brooklyn campus." Other goals include improving labs and student gathering spaces, and bolstering the cybersecurity and artificial intelligence programs. NYU has invested heavily in the engineering school with university funds since acquiring it in a 2014 merger with Polytechnic University.

## William W. Predebon Ph.D.

*Michigan Beta '65*

William retired as chair of the department of mechanical engineering-engineering mechanics at Michigan Tech in 2022. In total, he served nearly 47 years — 25 as dept. chair, at Tech. He will be remembered for his efforts on the development and retention of minority and women faculty members and for always making room for new ideas and encouraging innovation.



## Jennifer L. Rexford Ph.D.

*New Jersey Delta '91*

Jennifer was named Princeton University's next provost with her appointment taking effect on March 13. She has served as an engineering professor and department chair in computer science at Princeton since 2005, where she is also an alumnae. Her research focuses on computer networking, with the larger goal of making the Internet worthy of society's trust.



## Krystyn J. Van Vliet Ph.D.

*Rhode Island Alpha '98*

Krystyn joined Cornell University as vice president for research and innovation on February 1. Most recently, she was associate provost and associate VP for research at MIT. As an internationally accomplished materials scientist and engineer, her research lab specializes in material chemomechanics with applications in optimizing materials for renewable energy. She is a principal investigator of 50+ researchers in Singapore.





Matthew and Mark Lawson

# Tau Beta Pi Families

Do you have a spouse, sibling, parent, son/daughter, or grandparent, who is a member of Tau Beta Pi? If so, we would like to recognize you in a future Tau Beta Pi Families. Send your information, and even a family photo, to [tbp.media@tbp.org](mailto:tbp.media@tbp.org).

## CENTENARIANS:

**Samuel E. Beall II, TN A '42**

b. May 16, 1919

d. April 8, 2022

**William G. Denhard, MA B '42**

b. July 10, 1920

d. April 28, 2022

**George S. Halfin, TX Δ '49**

b. December 23, 1921

d. February 13, 2022

**Arthur W. Hall, MI B '50**

b. August 25, 1921

**Bernard W. Hatten, OH Γ '43**

b. June 9, 1921

d. August 29, 2022

**Howard L. Hyde, NY Δ '51**

b. January 20, 1919

d. January 15, 2022

**Creighton F. Murphy Jr., NJ B '49**

b. March 1, 1921

d. February 22, 2022

**Louis Witten, MD A '41**

b. April 13, 1921

## BI-SPOUSAL:

**James J. Eckard, WA B '83**

†**Teresa F. Eckard, WA B '82**

†**Henry L. Harelson, KY A 1924**

†**Katharine C. Harelson, KY A 1924**

**Christopher J. Privon, TN Γ '79**

**Keron R. Privon, TN Γ '80**

**Linda L. Zenger, UT A '84**

**Todd E. Zenger, UT A '84**



The Dautle Sisters



Creighton F. Murphy Jr.



Todd and Linda Zenger both graduated from the University of Utah in 1984.

## SIBLINGS:

**The Ahlers Siblings**

**Matthew C., NC A '16** (son)

**Anna E., NC A '19** (daughter)

**The Alderfer Siblings**

**Cavin J. Alderfer, CO Δ '24**

**Sydney A. Alderfer, CO Δ '21**

**The Brutus Brothers**

**Christian Brutus, NY O '08**

**Cliff Brutus, NY O '11**

**The Dautle Sisters**

**Savanna Dautle, NJ E '19**

**Tiernan Dautle, LA A '25**

**The Orlosky Twin Brothers**

**Andy J. Orlosky, MD B '24**

**Mike J. Orlosky, MD B '23**

**The Tagliaferri Twin Sisters**

**Daniella M. Tagliaferri, PA Θ '23**

**Maria T. Tagliaferri, PA Θ '23**

**The Van De Mark Siblings**

**Charles Van De Mark, CO B '19**

**Vivia Van De Mark, CO Δ '22**

**The Verminski Brothers**

**Brian P. Verminski, MA Δ '95**

**Matthew D. Verminski, MA Δ '96**

## MULTI-GENERATION:

### The Ahlers Family

**Kem D.**, NE A '84 (father)  
**Matthew C.**, NC A '16 (son)  
**Anna E.**, NC A '19 (daughter)

### The Barnett Family

**J. Matthew**, AZ B '90 (father)  
**John Titus W.**, IA A '25 (son)

### The Belarbi Family

**DJ**, TX E '90 (father)  
**Sihem L.**, MO B '10 (daughter)

### The Bernath Family

**Chuck A.**, IN E '81 (father)  
**Benjamin R.**, IN E '09 (son)

### The Bordi/Crotchett Family

**Erika M. Bordi**, CA H '21 (cousin)  
**Denton R. Crotchett**, CA H '71 (cousin)

### The Bouman Family

**Charles A.**, PA Δ '81 (father)  
**Katherine L.**, MI Γ '11 (daughter)

### The Brockett Family

**Frank H. III**, VT B '69 (father)  
**Don L.**, MT A '08 (son)

### The Dautle Family

**Frederick H.**, PA Z '64 (grandfather)  
**Savanna**, NJ E '19 (granddaughter)  
**Tiernan**, LA A '25 (granddaughter)

### The Downing Family

**Robert W.**, CT A '35 (great-grandfather)  
**Robert M.**, CT A '64 (grandfather)  
**Robert M. Jr.**, PA Γ '87 (father)  
**Matt D.**, MA E '22 (son)

### The Durham Family

**Billy R. Jr.**, TN E '80 (father)  
**Stephan A.**, AR A '00 (son)

### The Etz Family

**Stephen P.**, NJ B '90 (father)  
**Nicholas P.**, FL Δ '20 (son)

### The France/Ross Family

**Robert E. France**, CO A '36 (great-grandfather)  
**Timothy J. Ross**, SC B '23 (great-grandson)

### The Goodin Family

**James A.**, CA Θ '70 (cousin)  
**Bill R.**, CA E '75 (cousin)

### The Harelson Family

**Henry L.**, KY A 1924 (grandfather)  
**Katharine C.**, KY A 1924 (grandmother)  
**Andrew N.**, CO A '20 (grandson)

### The Henderson Family

**James M.**, TN Γ 1922 (great-grandfather)  
**Henry L.**, TN Γ '53 (grandfather)  
**Henry L. Jr.**, TN A '81 (father)  
**Madeleine L.**, IN A '20 (daughter)

### The Hoffman Family

**Christian T. Jr.**, NJ Γ '61 (father)  
**Christian T. III**, NJ B '87 (son)

### The Kuhr/Anthony Family

**Tina M.**, PA Γ '81 (mother)  
**Ben T. Anthony**, NC A '15 (son)

### The Lawson Family

**Mark A.**, OH Δ '87 (father)  
**Matthew J.**, OH Δ '19 (son)

### The Lilly Family

**Larry J.**, WV A '64 (grandfather)  
**Bruce D.**, AR A '92 (father)  
**Jennifer T.**, AR A '92 (mother)  
**Chuck E. Tilmon**, AR A '94 (uncle)  
**Hannah P.**, LA Γ '20 (daughter)  
**Rebecca G.**, MS A '23 (daughter)

**BELOW:** (Left) Roy Myose, Ph.D., KS Beta Chapter Advisor, with son James Myose in front of the Bent monument at Kansas State University. (Right) Andrea Cristina Orama Cedo and father Lionel Orama-Exclusa, Ph.D., after Cristina's initiation into the Puerto Rico Alpha Chapter of Tau Beta Pi.



MULTI-GENERATION:

**The Luchini Family**

†John R., MI Γ '71 (father)  
 Katy L. Colbry, MI A '99 (daughter)  
 Mark J., MI A '01 (son)  
 Timothy J.F., SD A '11 (son)  
 Frank, IN A '19 (son)

**The McDonald Family**

†Michael F., MO A '55 (father)  
 Michael F. Jr., LA A '78 (son)

**The McLaughlin Family**

Philip V.D. Jr., PA Θ '61 (father)  
 Philip V. III, PA Θ '84 (son)

**The Myose Family**

Roy Y., CA Δ '83 (father)  
 James M., KS Γ '22 (son)

**The Orama Family**

Lionel R., PR A '92 (father)  
 Andrea Cristina, PR A '24 (daughter)

**The Pankratz Family**

Walter L., TN A '71 (grandfather)  
 Sam R., TN A '22 (grandson)

**The Peterson/Truschke Family**

†John W., MA Δ '53 (grandfather)  
 Carol V. Truschke, IL A '07 (granddaughter)

**The Petitbon/Baehr Family**

†Jerome C. Baehr, LA B '31 (great grandfather)  
 John B., LA A '86 (father)  
 Christiane E., LA A '19 (daughter)

**The Pih Family**

†Hui, TN A '45 (father)  
 Norm, TN A '82 (son)

**The Ratcliffe Family**

Mark A., MA Θ '87 (father)  
 Joshua M., NJ B '22 (son)

**The Rosalia Family**

†Franklin R., NY Γ '62 (father)  
 Franklin M., NY P '89 (son)

**The Schurr Family**

Hermann D., CA E '82 (father)  
 Juliet N., CA E '82 (mother)  
 Andrew H., CA E '12 (son)  
 Naomi D., MA B '14 (daughter)

**The Schwob Family**

Michael A., NV B '92 (father)  
 Caitlyn R., NV B '23 (daughter)

**The Shah Family**

Micky M., NY Γ '84 (father)  
 Grace K., AZ A '24 (daughter)

**The Shea Family**

Kevin M., MA A '95 (father)  
 Matt R., MA A '23 (son)

**The Sikes Family**

David L., ID A '82 (father)  
 Kevin J., ID A '21 (son)

**The Stuber Family**

†Elmer R., PA Z '39 (father)  
 Donald R., GA A '71 (son)

**The Sweeny Family**

†Francis R.I., SC A 1906 (father)  
 †Raymond L., SC A '29 (son/brother)  
 †James O., SC A '39 (son/brother)

**The Turner/Foster Family**

Edwin P. Foster, TN Z '64 (father/grand-father)  
 Patricia F., TN Z '93 (daughter/mother)  
 Will P., TN A '24 (grandson/son)

**The Vargas/Lee Family**

Pedro M., KS A '82 (father)  
 Maria T. Lee, NJ B '87 (sister/aunt)  
 Ethan L., TX Δ '20 (son)

**The Zyriek Family**

Donald F. II, GA A '82 (father)  
 Elizabeth A.H., AZ Γ '21 (daughter)

**BELOW:** (Left) Mark and Joshua Ratcliffe with their TBI gear. (Middle) Michael Schwob, Ph.D., P.E., and Caitlyn beside the Bent monument on the UNLV campus. (Right) Elizabeth and Donald Zyriek with the Bent monument at Northern Arizona University.





**NEW ENGINEERING SOLUTIONS FOR TOMORROW**

# What Is NEST?

NEST is a yearly TBP competition where students submit solutions that address a general topic chosen by the Convention body each year. We classify these student submissions as EGGs, or Engineered for the Greater Good Solutions (EGGS). Students are encouraged to work in teams and present their unique EGGs to Convention to try and persuade alumni and industry sponsors that their ideas are the best investment to solve the NEST challenge. A panel of alumni selects the most innovative and practical EGG(s) to be awarded an investment. Those funds are used to build the prototype and then present at the following Convention to show what was made possible!



## So what does that mean?

- TBP Convention selects the societal or organizational problem
- Adds a "Main Event" to Convention
- Solutions are presented as pitches and posters vying for the best overall EGG.

## Who can participate?

- All Engineering Students!

## Find out more!



<https://tbpnest.wixsite.com/home/>

**Entries for 2023 still open!**

## Why do this?

- Give back to society
- Create meaningful solutions to real world problems
- Generate awareness for the Association

## Alumnus Involvement

- Engagement with a new generation of engineers
- Give back and immortalize great engineering knowledge

## Student Involvement

- Recognition at a national level
- Exposure to industry best practices and resources
- Mentorship and "on-the-job" type training

# Executive Council MEETING MINUTES

Summaries from Executive Council (EC) Meetings — April 2022 through June 2022.

## April 12, 2022

### Virtual

Councillor Pierce moved to approve the consent items and the Council approved on a voice vote:

Awards Selection Subcommittee

appointments, per letter from Director of Finance & Operations Michael Brown:

- **James “Jim” C. Hill**, *CA Γ '62*, for the Alumnus Recognition Selection Subcommittee to a term of April 1, 2022, to June 30, 2023 (2023 Chair).
- **Steven R. Harper**, *IL A '06*, for the Alumnus Recognition Selection Subcommittee to a term of April 1, 2022, to June 30, 2024 (2024 Chair).
- **Natalie J. Turco**, *NY Σ '20*, for the Laureate Selection Subcommittee to a term of April 1, 2022, to June 30, 2024 (2024 Chair).
- **Susan L.R. Holl**, *CA Λ '76*, for the Advisor Recognition Subcommittee to a term of April 1, 2022, to June 30, 2024 (2024 Chair).

Alumnus Recognition Selection Subcommittee:

- **Daniel T. Kruusmagi**, *CA H '13* 2019-22 (2022 Chair).

Laureate Recognition Selection Subcommittee:

- **Meghan C. Ferrall-Fairbanks**, *FL A '12*, 2020-22 (2022 Chair).
- **Lara L. Spinelli**, *NJ Γ '14* 2021-23 (2023 Chair).

Outstanding Advisor Selection Subcommittee:

- **LeVern W. Faidley**, *IA A '67* 2021-22 (2022 Chair).
- **Kurt P. Rouser**, *OH H '11* 2021-23 (2023 Chair).

DEI Committee:

- Adjust the term of **Whitney Goldsborough Colella**, *NJ Δ '97*, to end 2/27/22.

Adjust Inspection Assignments:

- Appoint President M. Youssef as the primary inspector for both Merrimack College on 4/9/22 and Lipscomb University on 4/25/22.

### Report of Officers and Officials:

- Dr. Youssef noted the Merrimack inspection went very well with a formal report coming to the Council next month.

### Unfinished Business & General Orders:

- Review results of the ratification ballot and vote for chapters not submitting ballots.

Mr. Pierce moved that per the provisions of Const. Art. XV, Section 3 (c), the EC ratify the amendment by voting in favor of the amendment for chapters that cast invalid ballots or did not vote. Councillor Morales asked about the timeline of the ballot submissions and potentially shortening the voting period for ratification ballots in the future. He also noted that the Governance Committee will review the ratification timeline. After discussion, the Council cast the necessary ballots to ratify the amendment and thus approved the amendment to the Constitution.

Executive Director Gomulinski updated the Council on the site and date selection for the 2022 June Meeting which will be held June 4. Headquarters is working with Conference Direct to assist with the final site selection.

Dr. Youssef delivered a presentation on behalf of NEST and Mr. Pierce moved to accept the NEST proposal as presented. Secretary Peterson proposed to revise the awards offering to \$2,500 and Mr. Pierce accepted the amendment. After discussion, the Council approved the NEST proposal as amended.

Councillor Sciacca presented her proposal to establish a Business Continuity Task Force to address emergent issues that require contingency planning. Mr. Gomulinski responded to numerous Council inquiries concerning the proposal. Ms. Sciacca moved to form a task force to be referred to as the Business Continuity Management Task Force and includes Mike Peterson, George Morales, Menna Youssef, and chaired by Ms. Sciacca, charged with determining which critical processes require virtual solutions, identifying the minimum requirements needing to be

accomplished virtually for each critical process, and creating a proposal to amend the Constitution & Bylaws to create a Business Continuity Management policy (s) (single BCM clause, individual BCM clauses, etc.) to report back to the Executive Council by the July 2022 EC Meeting. The Council approved the formation of the Task Force.

### New Business:

Councillor Pierce presented his proposal to allow virtual inspections of new societies in situations where in-person inspections are impractical or cost-prohibitive. No second. The motion failed to carry.

## May 10, 2022

### Virtual

Councillor Morales moved to approve the consent items and the Council approved on a voice vote Program Director reappointments to June 30, 2025:

- **Tricia E. Gomulinski**, *SD A '98*, as Director of Alumni Affairs
- **Stacey L. Forkner**, *WI A '96*, as Director of the District Program
- **Katy L. Luchini**, *MI A '99*, as Director of Engineering Futures
- **Sally J. Steadman**, *WY A '69*, as Director of Fellowships
- **Edward J. D'Avignon**, *NY B '88*, as Director of Rituals

Chapter Development Committee appointments with terms beginning 7/1/22 and ending 6/30/24 include:

- **Eric B. Westfall**, *IA A '18*
- **Eric S. Edstrom**, *IL A '22*
- Reappoint **Allen D. Erickson**, *NM Γ '14*, and **Ann M. Brunton**, *AZ A '20*, to terms ending June 30, 2025

Advisor Recognition: Eight **Superior Service Awards** to collegiate chapter advisors who completed service of 16 years or more:

- **Charles W. Caldwell**, *CA A '64* Advising Chapter – AR Alpha
- **William L.P. Fourney**, *WV A '62* Advising Chapter – MD Beta
- **Thomas C. Sheahan**, *NY M '81* Advising Chapter – MA Epsilon

- **Richard J. Smith, IA A '69**  
Advising Chapter – IA Alpha
- **Marylee Z. Southard, KS A '76**  
Advising Chapter – KS Alpha
- **John C. Telotte, LA B '77**  
Advising Chapter – FL Eta
- **Jennifer S. Wayne, VA B '83**  
Advising Chapter – VA Epsilon
- **Zia A. Yamayee, WA Δ '72**  
Advising Chapter – OR Gamma

Award nine **Resolutions of Appreciation** to collegiate chapter advisors who completed service of less than 16 years:

- **Steve C. Chiu, ID B '90**  
Advising Chapter – ID Beta
- **Wendell A. Davis, MI Γ '63**  
Advising Chapter – TX Eta (deceased)
- **Brandon L. Eidson, AL A '08**  
Advising Chapter – AL Alpha
- **David H. Huddleston, TN Γ '77**  
Advising Chapter – TN Gamma
- **Steven Schreiner, MA I '86**  
Advising Chapter – NJ Zeta
- **Jarvis A. Schultz, WY A '07**  
Advising Chapter – IL Gamma
- **Faruq M. Siddiqui, PA K '76**  
Advising Chapter – PA Kappa
- **Mary C. Verstraete, OH K '82**  
Advising Chapter – OH Kappa
- **Gary R. Weckman, KY B '81**  
Advising Chapter – OH Delta

#### Unfinished Business & General Orders:

Approve proposal to fund advisor and non-voting delegates' expenses. Councillor Sciacca moved to approve the proposal to fund advisor and non-voting delegate expenses. Ms. Sciacca asked if critical chapters would be solicited, C. Alex Cross, Director of Member & Chapter Programs, stated that is the intent. Councillor Hickling asked if District Director recommendations would be considered, and Mr. Cross noted that would be the case. After discussion, the Council approved the proposed funding.

Discuss and approve plans for a future in-person EC meeting. Mr. Gomulinski noted that a working session may be held for Councillors who are able to attend the June Meeting in-person and virtually.

Approve inspection reports and final petitions to be submitted to the 2022 Convention: Western Carolina University; Merrimack College; Lipscomb University; and University of Georgia. Ms. Sciacca moved to approve the inspection reports and solicit final petitions. VP Alexander asked if petitioning societies would be sending representatives to the Convention and Mr. Gomulinski noted that it is the practice.

#### June 14, 2022 Virtual

Councillor Pierce moved to approve the consent items and the Council approved on a voice vote reappointments to a term ending June 30, 2025:

- **Brent S. Beardsley, TX Δ '93**, to the Trust Advisory Committee
- **LeVern W. Faidley, IA A '67**, to the Fellowship Board

#### Reports of Officers and Officials:

President M. Youssef

- Reported on her experience at the June Meeting and thanked the Councillors who attended virtually and in-person.
- Convention registration is now open and encouraged the Councillors to register as soon as possible.
- Noted several committees have not reported out and requested that updates be provided.
- The August meeting will likely not be in-person and will most likely be two Saturday virtual meetings.

Secretary M. Peterson

- Presented the New Executive Council Action Item Tracker. Going forward, the Secretary's Report will be used to briefly cover open action items. Councillors should send updates to Mr. Peterson or Alex Cross.

Executive Director Curtis Gomulinski

- A survey for the June Meeting will be sent out and recordings will be posted.
- Tax return is being finalized and finishing the FY20-21 audit.
- Mr. Gomulinski and HQ are presently working on identifying a new auditing firm and the Finance Committee will review the finalists.
- Encouraged the EC to book flights for Convention using the most cost effective option.
- HQ will continue utilizing Conference Direct for logistics of the 2023 and 2025 Conventions.
- Councillor Sciacca requested that Mr. Gomulinski prepare a priority list to share with the Governance Committee to determine the priority of General Revision Phase 2.

#### Reports of Boards, Committees, and Task Forces:

Advisors Committee

- A written report was made available for the EC to review.

Governance Committee

- Executive Council Election Proposal: The Governance Committee reviewed the ED's proposal from November 2021. The only revision was to identify Ron Hickling as filling Scott Fable's term per the resolution.
- Mr. Peterson moved that the proposal regarding EC elections (with the addition of Ron Hickling serving the remaining of Mr. Fable's term, consistent with ART: X Sec. IV of the Constitution) be proposed to the Resolutions Committee for review at the 2022 annual Convention, with the intent of recommending it for approval by the Convention body.
- After discussion, the Council approved on a voice vote.

Membership Committee

- A written report was made available for the EC to review.

#### Unfinished Business & General Orders:

- Approve proposal to continue virtual initiations. Mr. Peterson moved that the allowance for virtual initiations be extended from an end date of 7/31/22 to 12/31/22.
- Dr. Youssef recommended that HQ collect information via a report if initiation was virtual or in person. Mr. Pierce recommended that a policy be created to document the virtual initiation process.
- Mr. Gomulinski noted that the 12/31/22 expiration date allows the Convention to weigh in and after discussion, the Council approved on a voice vote.

## 2023 EXECUTIVE COUNCIL DIRECTORY

President Rachel K. Alexander, P.E.,  
CA U '15, Roseville, CA [r.alexander@tbp.org](mailto:r.alexander@tbp.org)

Vice President Ron M. Hickling, CA E '80  
Newbury Park, CA [r.hickling@tbp.org](mailto:r.hickling@tbp.org)

Secretary Michael L. Peterson, IA A '89  
Waterford, MI [m.peterson@tbp.org](mailto:m.peterson@tbp.org)

Treasurer Mike J. Hand III, MI G '11  
Ypsilanti, MI [m.hand@tbp.org](mailto:m.hand@tbp.org)

Councillor Ming Lin, Ph.D., NY G '01  
North Haven, CT [m.lin@tbp.org](mailto:m.lin@tbp.org)

Councillor Marla A. Peterson, AZ A '83  
Phoenix, AZ [m.peterson2@tbp.org](mailto:m.peterson2@tbp.org)

Councillor Joan M. Sciacca, CA M '87  
Terrebonne, OR [j.sciacca@tbp.org](mailto:j.sciacca@tbp.org)

Councillor George Youssef, NJ G '01  
Bloomfield, NJ  
[georgeyoussef78@gmail.com](mailto:georgeyoussef78@gmail.com)

Menna M. Youssef, Ph.D., VA G '04  
Burke, VA [m.youssef@tbp.org](mailto:m.youssef@tbp.org)

# CHAPTER ETERNAL

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



California Alpha '61  
**Jerome F. Siebert**  
December 30, 2022

*On scholarship at Berkeley, he was a two-time U.S. Track Team Olympic Athlete and the number one qualifying American in the 800m event at the 1960 & 1964 Olympics.*

The condensed style of these notices is made necessary by 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](mailto:tbp.memberupdate@tbp.org). Members that were 100+ years when passing are identified with "Cent."

## ALABAMA

### ALPHA AL A

Bianchi, Angelo Joseph, '49, October 7, 2020.  
Talbot, Thomas Fletcher, '52, Nov. 1, 2022.

### BETA AL B

Gunnells Jr., L. B., '50, March 8, 2016.  
Braswell, Robert Neil, '57, Sept. 26, 2022.  
Pitts, Felix Logan, '62, November 4, 2022.

### GAMMA AL Γ

Langner Jr., Eugene E., '52, Oct. 18, 2022.

## ARIZONA

### ALPHA AZ A

Guthrie, Richard Gray, '55, June 28, 2022.  
Abolila, Paul Arthur, '65, April 4, 2022.

### BETA AZ B

Arnold, Leslie P., '64, January 1, 2023.  
Daniels, Alfred C.W., '64, November 26, 2022.

### GAMMA AZ Γ

Martin, John William, '61, June 22, 2022.

## ARKANSAS

### ALPHA AR A

Miller, John Clarence, '52, January 29, 2018.  
Chedister, Robert Ward, '72, May 2, 2022.

## CALIFORNIA

### ALPHA CA A

Berger, Augustus Bart, '48, August 7, 2013.  
Rohrer, Thomas Adam, '52, May 23, 2020.  
Siebert, Jerome Francis, '61, Dec. 30, 2022.

### BETA CA B

Wright Jr., William Vale, '50, July 26, 2022.

### GAMMA CA Γ

Leslie, Clark Stewart, '55, April 18, 2022.

### DELTA CA Δ

McMillan, James T., '51, October 29, 2022.  
Fledderjohn, John Clair, '52, July 28, 2011.  
Ksienski, Aharon, '52, December 17, 2018.

### EPSILON CA E

Goss, John Ray, '52, August 1, 2021.  
Weissman, Jerome Howard, '61, Oct. 9, 2022.

### THETA CA Θ

Regan, Brian Carey, '79, October 19, 2021.

### MU CA Μ

Christianson, John Anthony, '84, July 8, 2019.

### XI CA Ξ

Lund, Kurt O'Ferrall, '68, February 19, 2021.  
Henry, James Joseph, '75, March 17, 2022.

## COLORADO

### ALPHA CO A

McLeod Jr., Harry O'Neal, '53, Aug. 9, 2022.  
Barker, Steven Andrew, '75, August 13, 2022.

### BETA CO B

Aronson, Haskell Harold, '52, Aug. 26, 2022.  
Ahlborn Jr., George Henry, '53, Sept. 9, 2002.  
Austin, Stephen Coe, '74, Dec. 15, 2022.

## CONNECTICUT

### ALPHA CT A

Kaufman, Earle Bertram, '42, Sept. 21, 2022.  
Shank, Richard Ralph, '48, Nov. 17, 2021.  
Crane, Edward Holman, '51, Sept. 17, 2017.  
Kidd, Alexander D., '53, December 1, 2022.

### BETA CT B

Hegenberger, William T., '54, no details.  
Giglietti, Robert W., '65, November 19, 2022.

## DELAWARE

### ALPHA DE A

Alexander, Joseph J., '50, March 18, 2018.  
Bennett, James Franklin, '67, Aug. 30, 2022.

## DISTRICT OF COLUMBIA

### BETA DC B

Roberts, John Paul, '62, July 22, 2022.

### GAMMA DC Γ

Richmond, Alfred Wright, '55, Oct. 1, 2021.  
Lokerson, David Thornton, '62, June 6, 2022.

## FLORIDA

### ALPHA FL A

Schlagheck, Ronald Alan, '67, July 6, 2020.  
Kosior, Richard Edward, '82, July 7, 2022.

### BETA FL B

Hochstim, Jan, '54, November 5, 2011.  
Jenkins, Joseph David, '67, April 16, 2022.  
Vergara, Hector Silvino, '70, April 28, 2022.  
Nunez, Ramon Luis, '75, December 6, 2021.

### GAMMA FL Γ

Aldazabal, Guillermo A., '90, Jan. 22, 2001.

### EPSILON FL E

Pahl, Beverly Renee, '87, no details.

### ETA FL H

Chen, Ching Jen, '62, June 2, 2017.

## GEORGIA

### ALPHA GA A

Lacy Jr., Donald Cameron, '50, Feb. 4, 2017.  
Petty Jr., Claude A., '50, June 2, 2022.  
Blanchard Jr., Elwood P., '53, June 24, 2021.  
Friedman, Paul Harold, '53, May 10, 2022.  
Gibson, Richard Gene, '55, Sept. 15, 2019.  
Purdy, Kenneth Rodman, '56, August 9, 2022.  
Schulz, Rudolf Eric, '57, April 7, 2016.  
Sills, Arthur Dickson, '57, January 28, 2021.  
Crownover, Richard M., '58, Feb. 7, 2021.  
Hepburn, Andrew Moore, '62, May 19, 2021.  
Malone, Thomas Joseph, '63, June 5, 2022.

## ILLINOIS

### ALPHA IL A

Bouwkamp, Burton Hugh, '48, Oct. 26, 2022.  
Hines, John William, '56, August 24, 2020.  
Lippy, David Paul, '70, August 20, 2022.

### BETA IL B

Thompson, William Michael, '49, Aug 5, 2002.  
Valent, Philip James, '63, May 5, 2021.  
Nussbaum, Robert Fred, '66, Dec. 28, 2020.

### GAMMA IL Γ

Barton, Thomas Heisler, '45, Nov. 18, 2022.  
Golterman, Richard Henry, '48, May 31, 2018.  
Fluegge, Frederick Adolph, '57, Oct. 28, 2012.

## INDIANA

### ALPHA IN A

Yaggy, Leon Sprunger, '48, January 10, 2021.  
Schultz, Harold Edwin, '51, Sept. 21, 2022.  
McGinness, William T., '52, January 13, 2003.  
Corley, Ralph Conner, '53, Sept. 21, 2021.  
Lawrence, Robert Eugene, '53, Jan. 30, 2017.  
Thompson Jr., Hannis W., '53, April 27, 2016.  
Graver, Richard Byrd, '54, Sept. 13, 2017.  
Benner Jr., Floyd Edward, '55, Aug. 3, 2017.  
Butsch, Richard Leland, '55, Nov. 19, 2018.  
Seufert, Clifford Edward, '55, March 26, 2022.  
Shimp, Alan Burke, '55, May 21, 2022.  
Neal, Stuart Marcus, '56, November 29, 2018.  
Cassilly, Frank Rodes, '57, February 26, 2015.  
Duffner, Lee Roy, '57, June 6, 2017.  
Atkinson, Philip Rudolph, '59, Dec. 20, 2022.  
Swanson, Steven Joel, '71, March 22, 2022.

### BETA IN B

Lott, James Lewis, '55, August 30, 2022.

### DELTA IN Δ

Behrendt, William Earl, '56, May 22, 2022.

### EPSILON IN E

Bradley, James C., '78, August 10, 2022.

## IOWA

### ALPHA IA A

Crouch, Henry Eugene, '45, Jan. 22, 2021.  
Halligan, James Edmund, '62, Oct. 25, 2022.  
Cobie, Robert Burkle, '63, no details.  
Cossor, Khalid, '69, October 1, 2022.  
Anderson, Randall Lee, '78, August 11, 2016.

### BETA IA B

Slayton Jr., Clarence H., '44, July 24, 2012.  
Magerkurth, Irwin Edward, '60, Dec. 2, 2019.

## KANSAS

### ALPHA KS A

Christy, Joseph Allen, '53, September 5, 2022.  
Roskam, Jan, '54, September 9, 2022.  
Terry, Robert Lee, '57, March 31, 2022.

### BETA KS B

Herrera, Benito Jorge, '68, Dec. 10, 2019.

## KENTUCKY

### ALPHA KY A

Pilkenton, Marvin D., '56, June 25, 2014.  
Steilberg Jr., Arthur Jesse, '56, July 30, 2021.  
Culler, David W., '75, March 17, 2022.

### BETA KY B

Reynolds, Joseph Carter, '48, Nov. 18, 2021.  
Stutz, Arthur Victor, '53, no details.  
Trautwein, Robert T., '55, February 28, 2021.  
Riehl, Arthur Marvin, '56, May 9, 2020.  
Ash, Daniel L., '59, May 12, 2022.

## LOUISIANA

### ALPHA LA A

Koonce, Norman Lamar, '56, March 22, 2022.

### BETA LA B

Farmer, Thomas S., '52, November 1, 2022.

### GAMMA LA Γ

Williams, Tony Gray, '55, October 25, 2021.

### DELTA LA Δ

Moore, Ronald Wallace, '86, Oct. 11, 2022.

## MAINE

### ALPHA ME A

Elwell, John Roldin, '50, September 30, 2015.

## MARYLAND

### ALPHA MD A

Trueschler, Bernard C., '47, April 7, 2021.

### BETA MD B

Downs, Hugh G., '41, April 12, 2002.  
Robl, Louis Anthony, '51, February 1, 2013.  
Beville Jr., Ross Harwood, '62, Jan. 19, 2023.  
Hartenstein, Raymond G., '63, March 4, 2022.  
Somerville Jr., James A., '67, June 13, 2018.

## MASSACHUSETTS

### ALPHA MA A

Rawstron, William W., '57, January 10, 2023.  
Rising, Donald Brewster, '57, Sept. 1, 2022.

### BETA MA B

Nicholson, William Mac, '41, no details.  
Denhard, William G., '42, April 28, 2022. *Cent.*  
Robillard, Geoffrey, '44, November 10, 2021.  
Smith, Sidney Layton, '47, June 22, 2016.  
Bresky, Donald Robert, '49, June 15, 2022.  
Calkins, James Roy, '50, June 13, 2018.  
Krivsky, William Anthony, '51, Dec. 23, 2006.  
Trueblood, William E., '58, March 6, 2017.  
Hodges, Robert M., '60, October 20, 2019.  
Freeman, Reed Harlow, '61, October 26, 2022.

### DELTA MA Δ

Morse, John Edwin, '45, May 30, 2019.

### EPSILON MA Ε

Scussel, Renato John, '54, no details.  
Peterson, Norman Stanley, '70, Nov. 21, 2021.  
Dejoie, Robert John, '79, April 20, 2022.  
Samalis, John W., '84, October 23, 2021.

### ZETA MA Ζ

Tenney, Raymond F., '53, March 19, 2017.  
Kasper, George Philip, '63, November 1, 2022.

## THETA MA Θ

Lange, Mark D., '87, June 23, 2022.

## MICHIGAN

### ALPHA MI A

Scheetz, Howard Ansel, '50, Nov. 22, 2022.  
Toll, Karel Greenlie, '50, September 27, 2020.  
Kerr, Larry Orla, '55, January 3, 2023.  
Tomaschke, Harry Edward, '56, April 19, 2019.  
Grum, John Anthony, '58, no details.

### BETA MI B

Meyers, James Philip, '52, March 25, 2017.  
Anderson, William Harold, '57, no details.  
Wick, Carl Joseph, '69, July 10, 2022.

### GAMMA MI Γ

Goodell, Charles E., '43, March 23, 2021. *Cent.*  
McVean, Robert Leo, '48, June 21, 2021.  
Garrett, Clarence Ruben, '49, Sept. 6, 2014.  
Gorman, William John, '50, July 19, 2021.  
Pohl, Francis Joseph, '51, March 31, 2022.  
Tackett, Donald Edward, '53, Nov. 13, 2017.  
Bredt, Thomas Howard, '62, Dec. 9, 2022.  
Hyrila, Alan Edward, '75, June 8, 2013.  
Portanova, Mary Margaret, '89, May 13, 2022.

### DELTA MI Δ

Baker, Warren J., '60, October 7, 2022.  
Podolski, Walter Francis, '66, Oct. 27, 2022.

### EPSILON MI Ε

Rol, Pieter Klaas, '49, June 17, 2021.  
Frye, James Henry, '51, December 21, 2022.  
Strom, William Carl, '53, October 3, 2022.  
Zurbrick, John Ross, '57, March 13, 2020.  
Doughty, Robert Earl, '65, April 10, 2022.

### ZETA MI Ζ

Fleck, Francis Clinton, '49, July 22, 2015.  
Musgrave, Douglas Paul, '77, June 27, 2022.  
Sadlo, Thomas George, '77, May 26, 2022.

## ETA MI Η

Horltdt, Henry Bessemer, '47, no details.  
Holmes, Ardath Lynette, '75, April 20, 2021.

## MINNESOTA

### ALPHA MN A

Alstad, Charles Donald, '46, Sept. 17, 2006.  
Lethert, James William, '68, Nov. 27, 2022.

## MISSISSIPPI

### ALPHA MS A

Godbold, Samuel D., '51, December 15, 2022.  
Bradshaw, Cyrus Joe, '53, Dec. 23, 2022.

### BETA MS B

Rhoades Jr., Gilbert L., '68, Dec. 9, 2022.

## MISSOURI

### BETA MO B

Brodhacker, John W., '44, March 21, 2021.  
McLeane, Robert Wassell, '52, April 9, 2017.  
Gunn, Gary Y., '59, July 24, 2021.  
McDaniels, John Louis, '60, Nov. 17, 2022.  
Laplante, Allan Harvey, '63, October 2, 2022.  
Harrison, Charles Royce, '64, no details.  
Lehman III, Frederick D., '64, Jan. 16, 2014.  
Myers, Charles A., '65, November 6, 2019.

### GAMMA MO Γ

Gessert, Robert Adolf, '47, Nov. 21, 2021.  
Smith, Richard Lawrence, '56, no details.  
Kilert, Albert Harold, '63, January 1, 2022.

## NEW HAMPSHIRE

### ALPHA NH A

Bodwell, Robert Clark, '52, July 23, 2020.

## NEW JERSEY

### ALPHA NJ A

Gertz, Alan Seymour, '45, no details.  
Mount, Claude Leon, '52, June 10, 2018.

### BETA NJ B

Schelke, Joseph Anton, '51, Nov. 18, 2022.  
Butterfoss, Edwon J., '52, March 30, 2012.  
Chinery, Wilbur Franklin, '52, Jan. 1, 2017.  
Finkel, Leonard, '52, September 27, 2014.

### GAMMA NJ Γ

Jones, Milton Edwin, '51, July 27, 2021.  
Soojian, Haig Harry, '51, March 16, 2017.  
Clausi, Joseph Vincent, '60, Nov. 16, 2020.  
Tikijian, George H., '60, August 8, 2022.

## NEW YORK

### ALPHA NY A

Brandmaier, Harold E., '47, April 11, 2022.  
Seckler, Howard Noel, '48, Dec. 10, 2022.  
Tencer, Stephen, '68, no details.

### BETA NY B

Hellman, Nathan Carl, '50, August 24, 2021.  
Holt, Ralph Ephraim, '50, May 7, 2021.  
Poulsen, Neils Ray, '57, July 14, 2021.  
Leininger, Rolf, '63, October 21, 2022.

### GAMMA NY Γ

Beck, Francis Xavier, '50, December 20, 2015.  
Butler, Charles William, '50, Nov. 30, 2019.  
Pribis Jr., Steven, '50, July 8, 2016.  
Beaudry, Frederick Thomas, '51, Dec. 4, 2003.  
Knapp, Morris Jay, '51, August 13, 2022.  
Wilcox, Bruce, '51, May 16, 2020.  
Kraig, Alfred H., '52, December 7, 2019.  
Freedan, Donald Francis, '53, Dec. 7, 2020.  
Miles, Bert Houston, '53, April 11, 2020.  
Mohr, Wendell Clark, '53, December 8, 2019.  
Lee, Robert Roy, '58, May 20, 2022.  
Gonzalez, Richard Donald, '61, Dec. 3, 2022.  
Cooper, Robert John, '66, November 26, 2021.  
Lassinger, John Neal, '82, October 26, 2022.

### DELTA NY Δ

Black II, Owen Joseph, '46, February 10, 2017.  
Rankin, Malcolm Robert, '47, August 14, 2018.  
Gorss Jr., Charles G., '50, August 30, 2022.  
Eccles, Richard M., '54, July 9, 2022.  
Light, Jay Owen, '64, October 15, 2022.

### EPSILON NY Ε

Palocz, Istvan, '45, April 8, 2020.  
Hahn, George Thomas, '52, June 7, 2022.  
McCaffrey, Ronald Walter, '52, May 31, 2022.  
Lather, Frederick Daniel, '66, June 4, 2022.

### ZETA NY Ζ

Mishkin, Eliezer A., '42, May 2, 2001.  
Panoff, Jack Edward, '43, March 26, 2012.  
Graham, Martin Harold, '47, May 12, 2015.  
Meixner, Ray Paul, '52, October 26, 2022.

## ETA NY Η

Marcoux, H-Paul Joseph, '47, Sept. 6, 2022.  
Blynn, Marvin S., '50, December 21, 2017.  
Pollack, Herbert William, '50, April 26, 2020.  
Pffiferling, Fred, '51, March 13, 2017.  
Polansky, Leon, '51, December 26, 2016.  
Capon, Jack, '53, February 19, 2022.  
Wilhelm, Guenther, '62, December 7, 2022.

# CHAPTER ETERNAL

Continued



Iowa Alpha '62

**James E. Halligan, Ph.D., P.E.**

October 25, 2022

*Served as an Oklahoma State Senator from 2008-16, President of Oklahoma State University from 1994-2002, and a TBPB Distinguished Alumnus (2018).*

## **THETA NY Θ**

MacKenzie, Robert Bruce, '51, Nov. 20, 2022.

## **IOTA NY I**

Shmoys, Jerry, '45, April 11, 2018.

Peterson, Charles H., '49, July 27, 2019.

## **KAPPA NY K**

Gerwin, Edward Francis, '47, Oct. 30, 2021.

## **XI NY Ξ**

Rothrock, Stephen M., '78, April 28, 2020.

## **PI NY Π**

Yerger, Jon Jacob, '70, November 11, 2022.

## **NORTH CAROLINA**

### **ALPHA NC A**

Kafka, Vincent Winfield, '48, Nov. 19, 2017.

Davis, Thomas Willis, '59, October 29, 2022.

Roberts, John William, '62, February 1, 2017.

### **GAMMA NC Γ**

Ballard, William Ed, '52, March 17, 2021.

Wright, William Vaughn, '53, July 26, 2022.

Hankins, Robert Wilbur, '58, May 28, 2014.

## **NORTH DAKOTA**

### **ALPHA ND A**

Geller, Harry, '50, January 3, 2021.

Hoffman, James Simon, '55, Jan. 13, 2022.

### **BETA ND B**

Jacobson, Byron Elroy, '74, April 26, 2020.

## **OHIO**

### **ALPHA OH A**

Scroggins, Donald Ray, '64, October 11, 2019.

### **BETA OH B**

Dartnall, Robert D. Sr., '47, August 18, 2022.

Gottschlich, Chad F., '51, April 25, 2020.

Edmonson, Wayne Steven, '66, Aug. 23, 2020.

Jenkins, Robert George, '67, Dec. 3, 2022.

### **GAMMA OH Γ**

Maloney, John Patrick, '49, February 19, 2008.

Gemmell, Robert Stinson, '56, Sept. 14, 2017.

Cunningham, William D., '57, Dec. 18, 2020.

Tschanz, John Frederick, '58, no details.

Pfeifer, William Henry, '62, June 19, 2020.

Wilson, Edwin John, '64, September 30, 2022.

### **DELTA OH Δ**

Alexander Jr., Charles K., '65, Oct. 17, 2022.

Randolph, Roger Kenneth, '67, Feb. 4, 2021.

### **EPSILON OH Ε**

Brown, Alfred Gene, '61, no details.

### **ZETA OH Ζ**

Lehman, Franklin R., '66, September 1, 2021.

Balogh, Lynn M., '84, September 20, 2022.

## **THETA OH Θ**

Schiller, Frederick Carl, '51, May 31, 2020.

## **IOTA OH I**

Cowan, Richard Lee, '60, December 6, 2021.

## **LAMBDA OH Λ**

Ziemianski, John Joseph, '82, Jan. 7, 2022.

## **OKLAHOMA**

### **ALPHA OK A**

Gibbs, Shelby Reed, '49, October 25, 2003.

Wilson, Samuel A., '53, November 19, 2022.

Webb, Jack Sanford, '54, April 20, 2022.

Haggard, Bobby Chester, '58, July 6, 2021.

## **OREGON**

### **ALPHA OR A**

Geer, Edward Douglas, '52, June 7, 2021.

Stone, Solon Allen, '52, April 4, 2021.

Holmes, Samuel Merrin, '54, July 23, 2017.

## **PENNSYLVANIA**

### **ALPHA PA A**

Koppes, Alan Wayne, '53, Nov. 17, 2021.

Mooney, Bruce Clinton, '53, Oct. 24, 2020.

Kiselik, Paul, '78, November 7, 2022.

### **BETA PA B**

Meloy, Richard Eugene, '50, April 1, 2017.

Klingeman, Roger Lynn, '57, May 22, 2019.

Emlen, Warren M., '63, no details.

Donaldson, Terrence L., '68, Nov. 17, 2022.

Makepeace, Darryl L., '69, Dec. 27, 2022.

### **GAMMA PA Γ**

Osterle, John Fletcher, '46, July 22, 2016.

Cook III, Edward Joseph, '51, Oct. 13, 2010.

Zorowski, Carl Frank, '52, April 5, 2021.

### **DELTA PA Δ**

Fink, Lester Harold, '50, Sept. 10, 2019.

Finston, Joseph Samuel, '50, Sept. 14, 2019.

Fiorello, James Carmelo, '50, March 15, 2016.

Szczepkowski, Thaddeus G., '50, June 7, 2016.

### **EPSILON PA Ε**

Williams Jr., John Calvin, '50, April 29, 2011.

Bartolacci, August Ralph, '55, Sept. 9, 2020.

Duncan, John Raymond, '57, Dec. 11, 2022.

Cook Jr., Eugene Marshall, '58, April 1, 2022.

Steigerwalt, Richard Henry, '73, Jan. 16, 2022.

### **ZETA PA Ζ**

Fereshtian, Harry, '50, November 13, 2016.

Giragosian, Sarkis Edward, '51, April 2, 2020.

Symnoski, Robert Vitolo, '53, July 7, 2018.

Bippus, Jacob Robert, '64, April 2, 2022.

Weggel, John Richard, '64, June 7, 2021.

### **ETA PA Η**

Olesky, George John, '51, June 30, 2022.

## **THETA PA Θ**

Hicks, Joseph James, '50, Dec. 29, 2009.

Rohlfing, William Patrick, '51, Dec. 6, 2020.

Gutberlet Jr., Charles H., '55, Oct. 27, 2022.

### **IOTA PA I**

Yannone, Robert Alfred, '51, July 28, 2020.

Cantagallo, Raymond E., '53, May 25, 2021.

## **LAMBDA PA Λ**

Lorenzi, Silvio J., '48, no details.

## **PUERTO RICO**

### **ALPHA PR A**

Jimenez-Quinones, Pedro, '52, Sept. 13, 2022.

## **RHODE ISLAND**

### **BETA RI B**

Verrier, Donald Charles, '54, March 28, 2022.

## **SOUTH CAROLINA**

### **ALPHA SC A**

Hollis, Daniel Saye, '60, July 13, 2008.

### **BETA SC B**

Marlowe, William Harold, '51, April 29, 2021.

Hill, Roger Livingston, '58, Dec. 19, 2022.

Moore, William Edwin, '59, July 21, 2017.

### **GAMMA SC Γ**

Anderson, Swinton J., '50, Sept. 20, 2022.

## **SOUTH DAKOTA**

### **ALPHA SD A**

Snyder, Ronnie Lewellen, '94, Oct. 2, 2022.

## **TENNESSEE**

### **ALPHA TN A**

Newton, Louis Maitland, '49, August 13, 2021.

Jones, Michael Jonathan, '68, Nov. 10, 2022.

Crowe, Robert Clayton, '72, January 6, 2023.

Sinko, Robert John, '85, October 2, 2022.

Sawhney, Rapinder S., '87, December 7, 2022.

### **GAMMA TN Γ**

Moon, William Tom, '61, July 4, 2022.

Harvey, James Bruce, '63, Dec. 12, 2022.

## **TEXAS**

### **ALPHA TX A**

Luke, Claude Edward, '52, August 18, 2016.

Thompson Jr., Chaunce O., '53, July 29, 2022.

Riner, James V., '59, December 11, 2022.

Thadani, Ramesh, '62, February 10, 2014.

Hicks, James F., '68, November 5, 2022.

Thweatt Jr., William T., '70, March 12, 2020.

Krause, Michael Gene, '80, July 1, 2021.

### **BETA TX B**

Volder, Jack Edward, '49, October 22, 2013.

### **GAMMA TX Γ**

Doennecke, Henry Craig, '44, Jan. 20, 2022.

Rachford Jr., Henry H., '45, Oct. 31, 2022.

Lucky, Maurice Charles, '48, Dec. 30, 2016.

### **DELTA TX Δ**

Grote, Fred Rankin, '53, October 31, 2022.

Kalmans, Bennett Allen, '53, Feb. 18, 2019.

Mugg, Jarrell Bert, '53, November 18, 2022.

Sullivan Jr., Samuel Lane, '57, April 23, 2021.

McCleskey, Robert Walter, '58, Oct. 26, 2021.

Ramming, Arnold Dean, '77, Sept. 26, 2022.

**ZETA TX Z**

McConathy, Jalmer Royce, '66, July 17, 2022.

**THETA TX Θ**

Sandoval, Michael Craig, '99, Dec. 29, 2021.

**UTAH**

**ALPHA UT A**

Bilyeu, Roger Philip, '54, no details.

Rasmussen, Waldemar Eph, '69, Nov. 6, 2022.

Swope, Terry Steven, '70, Dec. 10, 2021.

Adams, Dee Briane, '71, December 14, 2019.

**VERMONT**

**ALPHA VT A**

Breed Jr., John Lincoln, '59, no details.

**BETA VT B**

Marsilius, Philip Roger, '43, Sept. 1, 2022.

**VIRGINIA**

**BETA VA B**

Faison, Gilbert Lawrence, '49, Feb. 8, 2021.

Stewart, Albert William, '57, June 8, 2022.

Nay Jr., Marshall Wren, '63, Dec. 19, 2018.

**GAMMA VA Γ**

Peak, Robert Daniel, '80, no details.

**DELTA VA Δ**

Morgan, Charles David, '56, July 21, 2018.

**WASHINGTON**

**ALPHA WA A**

Noreen, Alfred Edward, '45, Dec. 2, 2022.

Nakamura, Kenjiro, '49, November 20, 2021.

**BETA WA B**

Johnson, Paul Amos, '48, March 19, 2016.

Sisco, Gerald Frank, '52, November 25, 1999.

**WEST VIRGINIA**

**ALPHA WV A**

Winters, Gary Gray, '54, October 1, 2022.

Showalter, Gerald Lee, '57, May 20, 2017.

Felton, Hugh H., '59, December 20, 2022.

**WISCONSIN**

**ALPHA WI A**

Neusen, Kenneth Fred, '57, Dec. 9, 2022.

McNamara, Robert Tucker, '62, Nov. 11, 2022.

Dupuis, Rene Martain, '68, May 23, 2020.

Butler, Ronald Duane, '70, January 21, 2016.

Craig, Dana Lynne, '88, August 27, 2022.

**BETA WI B**

Lemke, Charles Robert, '60, no details.

Mayer, Dennis Anthony, '65, Feb. 26, 2016.

# WANTED: VOLUNTEERS FOR CONVENTION

The Association is interested in identifying members who might wish to serve in supporting roles at future TBII Conventions.

Per Article X, Section 5(m), "The Collegiate and Alumnus Chapters and Association Officials may submit nominations for permanent Convention Chair to the Executive Council by June 1 of the Convention year for which the Chair will be selected." This individual must be a member familiar with Robert's Rules of Order and should have experience in conducting meetings with that philosophy.

At the same time a Convention Chair is selected, a Convention Parliamentarian will be selected. This individual must be a member with experience in using Robert's Rules of Order and have resources to help the Chair during Convention.

To assist the Chair and Parliamentarian in their duties, Tau Beta Pi also seeks volunteers to serve as the Tellers Committee Chair and Credentials Committee Chair.

Funding is available to cover most, if not all, of the expenses for these volunteers to attend the Convention. This includes travel, lodging, and meals.

These volunteers must be able to attend the Convention in Atlanta, GA, from October 11-14, 2023. Candidates should express their interest to the TBII Executive Director ([tbp@tbp.org](mailto:tbp@tbp.org)) no later than June 1. Please include your resume and indicate the position for which you wish to apply.



# 2023 DISTRICT CONFERENCE SCHEDULE

**District 1:** April 1-2

New Haven, CT (Alpha)

**District 2:** March 25-26

Binghamton, NY (Tau)

**District 3:** April 22

Virtual (PA Gamma & Lambda)

**District 4:** April 15

Charlotte, NC (Delta)

**District 5:** March 25-26

Daytona Beach, FL (Iota)

**District 6:** March 24-25

Huntsville, AL (Delta)

**District 7:** April 1

Detroit, MI (Epsilon)

**District 8:** April 1-2

Madison, WI (Alpha)

**District 9:** March 3-4

Kansas City, MO (Delta)

**District 10:** April 15

Beaumont, TX (Zeta)

**District 11:** April 15

Grand Forks, ND (Beta)

**District 12:** February 24-25

Denver, CO (Gamma & Epsilon)

**District 13:** April 14-16

Prescott, AZ (Delta)

**District 14:** April 15

Portland, OR (Beta & Gamma)

**District 15:** March 11

Sacramento, CA (Upsilon)

**District 16:** February 25-26

San Diego, CA (Psi)

A photograph of the University of Georgia's main entrance, featuring a large, ornate black metal archway with a globe on top. The archway is flanked by two black pillars. In the background, there are green trees and a brick building. A sign on the left reads 'UNIVERSITY OF GEORGIA' and a sign on the right points to the 'Registrar'.

# UNIVERSITY OF GEORGIA

*The petition for Georgia Delta at the University of Georgia, to be established as the 258<sup>th</sup> Chapter of Tau Beta Pi, was approved by the 2022 Convention. The chapter was installed on February 25, 2023.*

## THE UNIVERSITY

Chartered by the state of Georgia in 1785, the University of Georgia is the birthplace of public higher education in America — launching our nation's great tradition of world-class public education. What began as a commitment to inspire the next generation grows stronger today through global research, hands-on learning, and extensive outreach. A top value in public higher education and research, the University of Georgia tackles some of the world's grand challenges, from combating infectious diseases and creating a dependable food supply to advancing economic growth and strengthening cyber and global security.

As Georgia's flagship institution, the University of Georgia (UGA) is recognized for its commitment to student excellence through an emphasis

on rigorous learning experiences both inside and outside the classroom, including hands-on research and leadership opportunities. These experiences contribute to the university's exceptional rates in retention, graduation, and career placement. Among public universities, UGA has been one of the nation's top three producers of Rhodes Scholars over the past two decades. The university is also home to the Peabody Awards, the most prestigious prize in electronic media.

Scholars at the University of Georgia are committed to improving quality of life for all and are leaders in pivotal fields, such as vaccine development, regenerative medicine, plant sciences, and more. One of the nation's top universities for technology commercialization, UGA has consistently ranked in the top five universities with total products reaching the market for the past seven years, with

more than 900 products to date derived from university research. The university has also been in the Top 20 public institutions in overall licensing revenue for 17 consecutive years.

With its comprehensive reach, the university's 18 colleges and schools enroll more than 37,000 students and have produced over 315,000 alumni living worldwide. The University of Georgia's initiatives extend globally while touching every corner of the state, realizing the university's land- and sea-grant missions. Our eight Public Service and Outreach units, which are among the strongest in the nation, help create jobs, develop leaders, and address critical challenges. Research, outreach, and extension serve as major drivers of economic and workforce development and spark successful partnerships that create new businesses and train the workforce of tomorrow.

Top Image page 40: The University of Georgia Arch stands as the symbolic entrance to UGA's North Campus along downtown Athens. Its three pillars represent those of the university: wisdom, justice, and moderation.

Right: The UGA College of Engineering collaborates with research centers and institutes that bring together industry, academia, government, and other key partners. These interdisciplinary hubs serve as a catalyst for new research that transforms ideas into solutions to society's most pressing challenges.



The University of Georgia's threefold teaching, research, and service mission spans the globe with campuses in five Georgia locations, Washington, D.C., England, and Italy, as well as partnerships in more than 50 countries on 6 continents.

Located in the Classic City of Athens, approximately an hour northeast of Atlanta, the university thrives in a community that combines a culture-rich college town with a strong economic center. The campus is home to nearly 800 registered student and service organizations. The university's athletic programs — 21 varsity athletic teams competing as the Georgia Bulldogs — are among the most successful in NCAA Division I, and its English bulldog mascot, Uga, consistently ranks as one of the nation's most recognizable mascots.

At the University of Georgia, it's more than a mission. It's a commitment we make to our students, the state of Georgia, and the world.

## BULLDOG ENGINEERING

Engineering at the University of Georgia has a long history, dating back to the first graduating class of civil engineers in 1868. Degrees in engineering were previously housed in the College of Agricultural and Environmental Sciences with a focus primarily on agricultural engineering. The University of Georgia recognized the need to expand the engineering discipline and in 2012 created a standalone college of engineering. Our mission as a community of visionary researchers, educators, and learners embedded in a land-grant liberal arts

university is to connect challenging coursework with real-world practice, leadership with collaboration, and soaring aspirations with concrete achievements. As a college, our priorities are to create a vibrant environment that relies on teamwork, leadership, and effective communication; reshape the impact of engineers for the 21<sup>st</sup> century by inspiring students to reach their full potential, create breakthrough by excellence in education and research; and pursue bold, collaborative research to identify and solve the challenges of our time. These efforts are motivated by our resolve to help make a purposeful and rounded contribution to help bring about a more capable, responsible, and resilient global society.

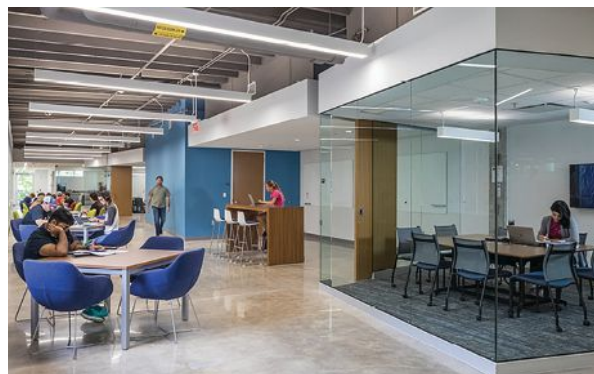
The deep commitment to world-class faculty and state-of-the-art facilities at the college of engineering equip students with an understanding of the social and economic impact of their work, the ability to communicate their ideas to

a wide variety of people, the ability to work effectively in teams, and the skills to provide leadership in solving society's greatest challenges.

Our 2,600 undergraduate and graduate students are immersed in hands-on learning through design-based classroom and field experiences, industry-leading research, and unique study abroad, co-op, and internship opportunities. By providing eight undergraduate and seven graduate degree programs, as well as a variety of dual degrees and combined bachelor's and master's degrees, our students are at the forefront of developing new tools to fight diseases, exploring new ways to improve cybersecurity, developing innovation to make our infrastructure more resilient, and more.

We believe in transforming the way we teach engineering, driven by a spirit of learning, discovery, and innovation that is a distinguishing characteristic of Bulldog Engineers.

**This article was prepared by Eleanor Burge, Univ. of Georgia College of Engineering Communications Intern. Photos are courtesy of the University of Georgia.**



The University of Georgia Driftmier Engineering Center serves the heart of our undergraduate and graduate engineering programs. The 110,000-sq.-ft. building, constructed in 1966, recently underwent extensive renovations, which significantly expanded and enhanced instructional laboratories and classrooms while adding new spaces for collaborative work.



# LIPSCOMB UNIVERSITY

Above image: Bridge Installation, Rancho El Paraiso/Olancho/Honduras

*The petition for Tennessee Eta at Lipscomb University, to be established as the 259<sup>th</sup> Chapter of Tau Beta Pi, was approved by the 2022 Convention. The chapter was installed on March 4, 2023.*

## TODAY

Lipscomb University is a private, faith-based institution located in the heart of Nashville, TN, committed to preparing learners for a purposeful life through rigorous academics and transformative experiences. Educational opportunities at Lipscomb are characterized by a distinctive focus on the comprehensive development of each student — spiritually, intellectually, socially, and physically — in an inclusive environment that respects and welcomes all who seek an excellent education in a Christian context.

Lipscomb students may earn a bachelor's degree in more than 176 majors and minors, several pre-professional programs, online graduate and undergraduate degrees, and an accelerated program for working adults who wish to complete their undergraduate degrees at their own pace.

Lipscomb also offers approximately 40 graduate degrees in 60 fields of study, including doctoral degrees in pharmacy, education, and ministry. Special programs include a certificate for young adults with developmental disabilities and an associate degree offered to residents of the Debra K. Johnson Rehabilitation Center in Nashville.

In the Fall 2022 semester, Lipscomb University had 4,871 students enrolled, with more than 3,136 undergraduates and 1,735 graduate students. Students come from all over the United States and approximately 48 countries, and more than 25 percent of new degree-seeking students in Fall 2022 identified as ethnic minority students.

Today, the university is accredited by the Southern Association of Colleges and Schools Commission on Colleges.

## OUR HISTORY

The making of Lipscomb University started out as a dream planted by God in the hearts of its founders, David Lipscomb and his friend, James A. Harding. These college-educated ministers believed in the value of an education infused with faith. As they watched the rapid development of schools and colleges in Nashville, often called the "Athens of the South," they envisioned a school that was different — one that would instill practical knowledge through a Christian lens.

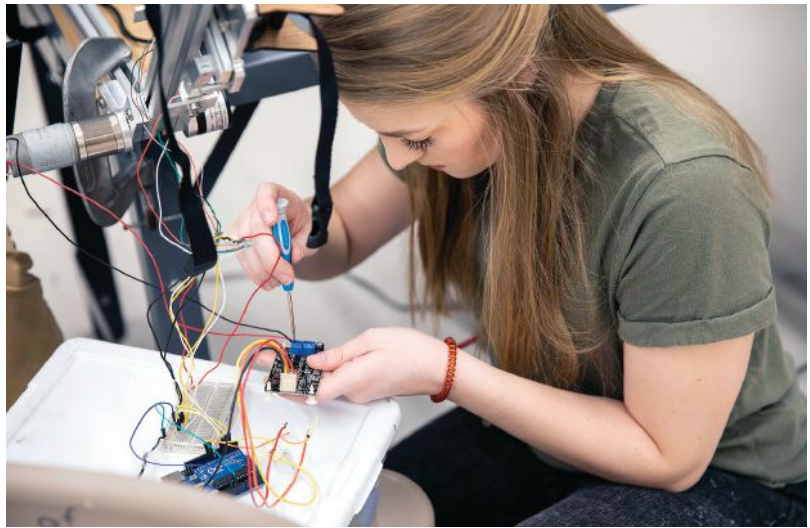
On Oct. 5, 1891, they opened the doors to Nashville Bible School. From that first year, which saw only nine students, the school grew quickly. By 1896, it had developed intermediate and primary divisions that together made up Lipscomb Campus Schools, which would later be named Lipscomb Academy.

In 1918, one year after the passing of its founder, the school was renamed David Lipscomb College in his memory. Then in 1988, during the presidency of Harold Hazelip, the college was renamed Lipscomb University following its accreditation to award master's degrees for the first time in its history. Lipscomb's 16<sup>th</sup> president, alumnus Steve Flatt ('77), oversaw degree expansions, the reorganization of academic departments into colleges within the university, and a move from NAIA to NCAA Division I athletics.

It was during this era that the Raymond B. Jones School of Engineering was established and named after longtime Lipscomb Trustee and lead donor Raymond B. Jones. The school graduated its first computer engineering major and engineering mechanics major in 2002.

The new school obtained accreditation from the Accreditation Board for Engineering and Technology (ABET) in 2004 and was elevated in 2009 to become the college of engineering, which spurred several years of growth with a civil engineering major and a school of computing added throughout the years.

Like our founder, David Lipscomb, the institution strongly values service to its community and the world as an act of faith. It is a place known for developing courageous and confident leaders equipped with practical knowledge and rooted in their spiritual growth, who take on some of the most complex and difficult problems with their innovation



Exo-Skeleton senior project

and willingness to step out from the crowd.

## COLLEGE OF ENGINEERING

The Raymond B. Jones College of Engineering has embraced Lipscomb's vision from the beginning. Starting in 2004, the college began sending teams of students, professors, and local professionals to underserved communities in Honduras and Guatemala to design and install much needed infrastructure such as pedestrian bridges, clean water, and solar power. In 2014, the Peugeot Center for Engineering Service to Developing Communities was formally established within the engineering college to encourage and expand these efforts to the Caribbean and Africa, as well as domestically.

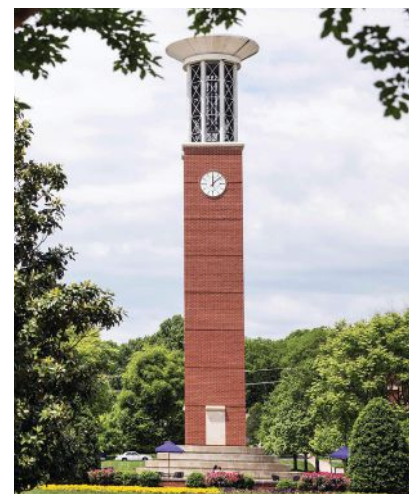
Alumna Dr. Candice McQueen ('96) became the 18<sup>th</sup> president and first female CEO of Lipscomb in September 2021. She previously served as Tennessee commissioner of education under Gov. Bill Haslam and CEO of the National Institute for Excellence in Teaching. As Dr. McQueen established her administration, she led a strategic planning process to create Lipscomb Impact 360, a strategic vision for the future of the university.

Through her leadership, Lipscomb University continues to play a vital role in countless lives, communities, and countries around the world. Faith is not only its foundation — it is Lipscomb's purpose and future.

Lipscomb University Campus



Allen Bell Tower



# WESTERN CAROLINA UNIVERSITY



Above image: Drone footage of the Western Carolina University campus

*The petition for North Carolina Eta at Western Carolina University, to be established as the 260<sup>th</sup> Chapter of Tau Beta Pi, was approved by the 2022 Convention. The chapter was installed on March 18, 2023.*

## OUR HISTORY

Founded in 1889, Western Carolina University (WCU) is a major, comprehensive institution in Cullowhee, North Carolina. WCU is one of the 17 institutions in the University of North Carolina (UNC) system.

The founder of WCU, Professor Robert Lee Madison, had a vision of providing an education to the young people in the western part of the state. In 1967, the institution was designated as a regional university by the North Carolina General Assembly and subsequently became a member of the UNC system in 1972. We have more than 11,000 students in over 100 undergraduate and 40 graduate programs.

WCU aspires to be a national model for public comprehensive universities



Rafting on the Nantahala River

...serving rural regions and an innovative driver for the social and economic mobility of its students. We are recognized as a community-engaged university by the Carnegie Foundation, a distinction reserved for campuses that demonstrate a commitment to the surrounding communities that is woven into the fabric of the university. Through the Center for Community Engagement and Service Learning, students are provided with the tools necessary to support an engaged learning experience outside the classroom through meaningful service.

Surrounded by the Blue Ridge and Great Smoky Mountains, students can explore the region's vast natural diversity through unrivaled experiential learning and service-learning.

## COLLEGE OF ENGINEERING

The College of Engineering and Technology (CET) at WCU has been graduating students for more than 50 years and has a record of leadership in academic quality and innovation. Each program in the CET strives to prepare students for career success through project-based learning and engagement in productive partnerships with business and industry. CET offers innovative undergraduate and graduate programs for students interested in electrical engineering, mechanical

engineering, electrical power engineering, mechanical engineering technology, electrical and computer engineering technology, and construction management. The School of Engineering and Technology offers a unique five-course, project-based learning sequence culminating in an industry-sponsored Capstone project lasting the entire year. These Capstone projects are vetted and solicited by the Rapid Center.

The Rapid Center is a university-based product development center within

the CET that assists industry partners to refine existing products, develop new ones, and improve business practices. Collaborating with the Small Business Technology Development Center and with the Center for Entrepreneurship and Innovation in WCU's College of Business, the Rapid Center assists individuals and companies whose combined successes improve the economic strength of the state, the region, and the Southeast.

## JOINING THE ASSOCIATION

The administration at WCU welcomes the opportunity for students to take part in Tau Beta Pi, given its reputation as a prestigious international organization that represents all disciplines of engineering. In Fall 2022, after more than a decade of preparation, WCU was approved for the installation of a TBP chapter. **Martin L. Tanaka, NCA '92, Ph.D., P.E.**, a Professor in the School of Engineering and Technology, has led the efforts to bring the new chapter to WCU, and serves as Chief Advisor to the NC Eta Chapter. Local engineering honor society president Allison Royer, vice president Dustin Pease, secretary Gabriel Kranenburg, and Dr. Tanaka are working to prepare for the upcoming chapter installation. The newest chapter of Tau Beta Pi in North Carolina, NC Eta, is officially scheduled for installation in March 2023.



Faculty and student engagement



Gathering in the "Heart of Campus" at WCU

# MERRIMACK COLLEGE



Above image: Duane Stadium — home of the Merrimack Warriors

*The petition for Massachusetts Kappa at Merrimack College, to be established as the 261<sup>st</sup> Chapter of Tau Beta Pi, was approved by the 2022 Convention. The chapter installation will take place on March 25, 2023.*

## THE COLLEGE

**“Enlighten Minds, Engage Hearts, Empower Lives”** — Merrimack College is a private, independent, Catholic, and residential institution located in North Andover, Massachusetts, north of Boston.

## OUR HISTORY

Founded in 1947 by the Rev. Vincent McQuade, O.S.A., and the Order of Saint Augustine, Merrimack College sought to respond to the needs and aspirations of local soldiers returning home from World War II. Since then, the College has undergone significant transformations while remaining rooted in its Catholic values and its mission to enlighten minds, engage hearts, and empower lives.

Guided by its strategic plans, the *Agenda for Distinction* and the *Agenda for the Future*, Merrimack College has seen an unprecedented revitalization that has enhanced its mission, enrollments, reputation, and impact on its community, students, and alumni.

## PROGRAMS & BUILDINGS

Today, the university is accredited by the Southern Association of Colleges and Schools Commission on Colleges.

Between 2010 and 2020, Merrimack doubled applications and enrollment at the undergraduate level and today offers nearly 70 undergraduate degrees. Graduate programs have similarly grown, with master’s degrees in 21 disciplines and 8 career-focused graduate certificates. Additionally, as part of the College’s strategy to create a distinctive and

personal approach to learning, students of all majors are offered a wide array of experiential learning opportunities including co-ops, internships, fellowships, applied research, study abroad, practicum and clinical placements, and service-learning.

Since the first students were accepted more than 75 years ago, the campus has grown to 220 acres with nearly 40 buildings, including the new Center for Innovation and Research in Engineering and Computational Sciences, which officially opened in Fall 2022.

Comprising two buildings on Merrimack’s East Campus, the state-of-the-art Center for Innovation and Research expands the College’s research capabilities, adds classroom space, and increases opportunities for students to translate ideas into real-world applications.

Merrimack is poised for its next chapter of innovative change, and this new facility is a monumental step in transforming academic programs and the entire student experience.

Outside the classroom, Merrimack has grown its reputation on the national athletic stage, recently transitioning to a Division I athletic institution that boasts more than 20 intercollegiate sports teams.

Merrimack currently offers four undergraduate engineering degrees: civil, computer, electrical, and mechanical engineering. In the coming years, the electrical and mechanical engineering departments are planning to merge, which will increase support and resources for electrical-mechanical degrees suited for work in robotics, manufacturing, and other electronics.

## COLLEGE OF ENGINEERING

With small class sizes, science and engineering students get to know each other and the faculty members well. This enhances discussion and learning in the classroom and leads to research opportunities outside of the classroom with faculty, not graduate students, teaching all classes.

Hands-on learning is central to all of the engineering programs, with project-based classes and lab work providing experience in problem solving that leads to improved critical thinking skills. As a result, Merrimack students are in demand for industry, government, and graduate school positions upon graduation.

A student and professor work together in the lab.



Above: An image of Merrimack College campus taken by a drone

## STRATEGIC PLAN

Merrimack College's current strategic plan, the *Agenda for the Future* (AFF), is a road map for the College's institutional growth and operations. The AFF is clear: Merrimack's institutional focus is on the human and spiritual development of the whole person and on the continuous improvement of our community as a caring, spiritual, and inclusive community. The College is dedicated to the success of everyone regardless of their challenges or circumstances. These values permeate every aspect of Merrimack's culture, ethos, and experience. The College's community of scholars thinks creatively and collaboratively to solve problems with innovation, to serve our neighbors, to exhibit compassion, and to make a difference in all endeavors.

## INSTALLATION

The official installation of the TBPI Massachusetts Kappa Chapter at Merrimack College on March 25, 2023, will bring to fruition more than five years of planning. Since the 2017-18 academic year, Merrimack has operated an Engineering Honor Society with the intention of applying for Tau Beta Pi affiliation. The preliminary petition was submitted in Fall 2019, but due to the COVID-19 pandemic, the inspection visit was delayed until April 2022. The TBPI Executive Council recommended Merrimack College move forward in the process to being granted an official chapter; the College submitted its final petition in July 2022. At the Knoxville, TN, TBPI Convention in September 2022, Merrimack's petition to join the Association was accepted. Merrimack is thrilled to be a part of Tau Beta Pi!

Students at Merrimack orientation



# Alumni Giving

Downing Club continued from page 27

- MA** Ⓞ Gregg, John Edward '84
- MA** I Schreiner, Steven '86
- MI** A Chaffee, Stanley Wendell '74  
Houthoofd, Janet Marie '76  
†Ryckman, Jim James '38  
Santorio Jr., Thomas Vincent '66  
Tscharner, Christopher G. '83
- MI** B Groeneveld, Gerald Anthony '63  
Plutchak, Raoul E. '62  
Sandretto Jr., Peter Patrick '64  
Saul, William Edward '55  
Skaugen, Borg '63  
Whitman, Brian Edward '92  
Wilden, Helmuth '65
- MI** Γ Anderson, Richard Walter '66  
Barr, William Robert '70  
Berno, Jeffrey William '63  
Bloomer, Craig D. '80  
Bloomer, Kristine M. '81  
Capelli, Ronald B. '73  
Carpenter, David Robert '08  
Davies, John Richard '50  
Dieck, Donald Henry '65  
Duncan, T. Michael '75  
Fertel, Howard Kevin '79  
Foulke, James Alvin '59  
Friess, John George '57  
Hansen, Kirk Samuel '71  
Hickcox, Timothy Earl '65  
Holm, John Gustaf '89  
Leeds, Thomas Murray '85  
Mohsberg III, Sidney Augustus '71  
Sanguinetti, John Winston '70  
Sheets, Alan '81  
Sherman, Larry Glenn '66  
Smith, Thomas Murray '72  
Stover, Dennis Eugene '67  
Taylor, Mark Edward '74  
Weber, Michael Frederick '78  
Winter, Steven D. '81  
Zuk, David Michael '70
- MI** Δ Dauerer, Walter Peter '60  
Elward, Bob M. '75  
Kaunelis, Pranciskus Saulius '69  
Marino, Joseph Anthony '72  
Minnich, Katherine Patricia '78  
Wojciechowski, Matthew Peter '71
- MI** E †Doughty, Robert Earl '65  
King, James Bartholomew '65  
Mutzelburg, Ronald Edward '68  
Whitehead, Tonya J. '17
- MI** Z Zickafoose, Michael Wayne '97  
Lachele, Roger Eric '75  
Reardon, Robert Warren '74  
Scarlattelli, Michael George '76  
Harder, Shawn Jay '80
- MI** H Johnston, Richard '78
- MI** Ⓞ McMahon, Kathleen Simonyi '82  
Messer, Bryan James '98
- MI** K Seymour Jr., Richard L. '97  
Sikkenga, Chad Douglas '98
- MN** A Bakke, Mark Alan '88  
Braaten, David Laverne '75  
Fleming, David Paul '61  
Halladay, Henry Earnest '64  
Larson, Michael Lane '59  
Maus, Brian Wayne '81  
McLeod, Gary Wayne '70  
Thompson, Richard Alvin '77
- MS** A Gelman, Stephen '73  
Gloppe, Elmer Theodore '75  
Hibbard, Janet C. '86
- Hibbard, Michael Joseph '78  
Hodge, B. Keith '65  
Hotard, Daniel Gerard '76  
Mills, Marvin Leon '65  
Siler, Raymond David '83  
Steele Jr., W. Glenn '68  
Yates, Karen '73  
Yates, Michael Douglas '74
- MS** B Gray, James Michael '88  
Miles Jr., John Hubert '71  
Simmons, Mary Ann '85
- MO** A Crabbe, Emmanuel Francois '81  
Donaldson, Albert L. '75  
Gardner, Roger William '63  
Henderson, Betsy Anderson '84  
Herman Jr., Donald Louis '84  
Hibner, Dale Vern '74  
Kehoe, Martin James '72  
Myles, Thomas Daniel '82  
Potter, Charles Jarrett '71  
Salerno, Michael Joseph '84
- MO** B Bodenhamer, Steven D. '75  
Bondi, James Oliver '71  
Brockhaus, Douglas Adolph '68  
Buenemann Jr., Morris C. F. '82  
Ernest, Terry Lee '82  
Feurer, John Alphonse '70  
Hahn, Gail Louise '82  
Hardebeck, Harry Elmer '57  
Kyser, Dale Anthony '83  
McJimsey, Edward Clair '71  
Myers, Kenneth Raymond '72  
Stevens II, Oramel Dale '72
- MO** Γ Eddy, Jim Dale '80  
Salman, Naif Diab '56  
Standridge, Charles Robert '75  
Sullivan, Gregory Alan '81
- MT** A Delaney, Robert Charles '88  
Egeland, Monte Dean '81  
Sen, Banasri '81
- MT** B McDonnell, Kathleen Gayel '83  
Montgomery III, Wayne Warren '83
- NE** A Claar, Stephen Beryl '73  
Hazzard, Russell Lynn '83  
Langford, Susan Kathleen '90  
Martin, John Craig '85  
Paxton, William Glenn '87  
Stransky, David Wayne '92  
Van Skiver, Max Alan '75
- NV** A Karably, Kenneth B. '83
- NH** A Bailey, Joseph Gregory '86  
Charron, Ronald Harvey '64  
Price, Alex Daniel '05
- NH** B Bendelius, Arthur G. '58  
Chen, Kevin Emmanuel '06  
Ehrhardt, William Christopher '68  
Greenip Jr., John Francis '66  
MacMillan Jr., Duncan J. S. '66  
Osborne, Scott Reynard '70  
Rizzo, Robert Philip '70  
Schell, Robert Dallas '74  
Sussmann, Kenneth Philip '72  
Tensfeldt, Thomas George '81  
Tompetrini, Kenneth Frank '65  
Waricka, Peter Thomas '71
- NJ** B Babb, John Everett '71  
Herrmann, Eric Peter '69  
Nixon, Allen Mackenzie '62  
Palko, John Raymond '69  
Shalayda, Robert George '73  
Tanner, Bob Brand '64  
Wolf, David '65
- NJ** Γ Wollmann, Norman P. '81  
York, Brian J. '82  
Andrus, James '02  
Castaldi, Frank James '69  
Cordes, Robert Gerhardt '48  
De Caprio, Vincent '72  
DiDomenico, Michael John '65  
Gagliardo, Reginald Saverio '70  
Gittes, Marvin Steven '63  
Goodrich Jr., Robert Rhoades '70  
Kobylarz, Thaddeus John '58  
Labos, William Joseph '73  
Morgan, Dennis Ross '68  
Padgett, Richard J. '72  
Rij, Jerry Jerome '72  
Tucker, John Harold '67  
Vandemeulebroeke, Leon C. '89  
Zozzaro, John Lawrence '64  
Zygo, John Peter '70
- NJ** Δ Aughenbaugh, Jason Matthew '01  
Bennett, Karl Edward '76  
Lisle Jr., Thomas K. '69  
Anonymous '78  
Potts, Richard Gardner '64  
Stern, Hal Lawrence '84  
Whitesides Jr., Lawson Ewing '68  
Wise, Frank W. '80
- NM** A Aragon, Frank Garcia '77  
Bradt, David Jay '81  
Harcum, Sarah W. '86  
James, Jonathan Christopher '97
- NM** Γ Rocco, Jim Robert '85
- NY** A Bucknor, Norman Kenneth '84  
Franco, Peter Flavio '76  
Silbert, Glenn Richard '75  
Thomashower, William Jay '70
- NY** B Olson, John Frederick '64  
Roberts, S. William '58  
Smolowitz, Matthew Michael '80
- NY** Γ Blakeman II, Robert Denis '89  
Brown Jr., Alfred Winsor '66  
Bruch, Charles Gregory '59  
Buck, Frederick Alan '76  
Jennings, Robert Edgar '63  
Joyce, Michael Edward '82  
Lyden, Michael Joseph '78  
Lynch, Michael Francis '87  
Natale, Michael Robert '02  
Walczak, Dennis James '76  
Walter, Buff Arthur '60  
Weader II, Richard Jerome '64  
Weinberg, Richard Sheldon '81  
Carino, Nicholas Joseph '69  
Elko, Michael Joseph '89  
Funke, Richard Harrison '71  
Gordon Jr., James Power '83  
Jureller, Steven Francis '87  
Kahn, Mindy S. '89  
Lampell, David Mark '73  
Sasso, Joseph Allen '70  
Thomson Jr., James Bruce '68
- NY** E Brodsky, Wesley G. '71  
Hendrickson, John Laurence '71  
Koehler, George Richard '63  
Lee, John H-J '70  
McConnell, Donald Patrick '71  
Niebanck, Charles F. '54  
Pinnes, Edward Lawrence '71  
Rosen, Fredric Kenneth '62  
Choma, Peter '73
- NY** Z Chu, Lawrence Joseph '71  
Gersten, Marvin Charles '60



Downing Club

Amy C. Kurr

IA A '18

"The financial and professional support I received from TBPI greatly impacted my success as an engineer."



Downing Club

Jane Ann Lamph

UT A '80

"I'm proud to be a Tau Bate and give back to recognize academic achievement and engineering excellence."

Downing Club continued

- NY H Kaczmarek, Richard '73  
Labianca, Frank M. '61  
Pawelko, Michael James '53  
Sindel, Fred Hans '59  
Boland, Peter Lewis '69  
Filipek, Stephan John '82  
Kern, Frank John '70  
Lauer, Spencer David '67  
Minton, Evelyn Ann '73  
Shakun, Melvin F. '85  
Valcourt, Jean-Mary K. '85  
Wu, Randall '75
- NY Θ Meyer, Bruce George '69  
Newman, Mitchell James '81
- NY I Grant, Richard Joseph '88  
Hauge, Kenneth '61  
Kalian, Arianna '88  
Keewill, Gary Steven '79
- NY K Ablowitz, Mark Jay '67  
Alcaro, Domenic John '87  
Curtis, Johnson Ottawa '66  
Epstein, Benjamin Ross '78  
Hinshaw, David John '86  
Isaacson, Morton Sanford '66
- NY Λ Killeen, Michael James '73  
Layton, Dick '63  
Passut, Charles Albert '67  
Widmann, Bradley Howard '69
- NY M Montgomery, Michael Earl '75  
Wilcox, Robert E. '73
- NY N Aloysius, Ronald J. '85  
Bloom Jr., Gordon Lee '66  
Darroch, Michael Edward '84  
Gluszak, Timothy John '88  
Havas, Donald William '67  
Anonymous '91  
Kocher, Lawrence Harold '67  
MacNeil, Randall Lewis '69  
Mann, Michael '77  
Morris, George Craig '63  
Riebling, Robert William '60  
Smith, Ronald Edmond '72  
Theoclitus, David Thomas '86
- NY Ξ Byrnes, Richard Dennis '83  
Defelice, Nicholas James '77  
Drewitz, Edwin Walter '77  
Glynn, Sean Francis '97  
Haller, Marc Frederick '85  
Mohan, Anne Elizabeth '09  
Sanderson, Ellen Irene '81  
Snyder, William Joseph '81  
Steinle, Kathleen Susan '77
- NY O Imbrogno, Christina '14
- NY Π Imbrogno, Joe Michael '12  
Barber, R. Todd '87  
DeVoe, Charles George '76  
Drexel, Peter George '69  
Hoelscher, James Roy '71  
Howles, Douglas '76  
Kaemmerlen III, John T. '76  
Turner, Clayton Phillip '90
- NY P Abreo, Leslie Anthony '97  
McBrien, William J. '87  
Roldan, Mark Joseph '85  
Wong, Wai Kin '85
- NY T Torres, Peter '02
- NC A Alexander, Ralph Bell '76  
Bailey Jr., Charles Richards '73  
Baker, Fred Eugene '60  
Burkart, Alex Raymond '72  
Capps, Dickson Michael '75  
Karesh, Lewis James '81

- NC Γ MacHnik, Nicholas Jan '76  
White, Samuel Ernest '69  
Wilson, Mark Philip '79  
Behnken, Kenneth Charles '67  
Bullard, John Carson '47  
Chambers, William Forrest '60  
Duncan, Matthew Albert '07  
Farst, Douglas Edson '79  
Moulton, Paul Rush '80  
Wine, Charles Joseph '59
- ND A Dahlin, Earl Charles '58  
McLaughlin, Jenny Louise '84  
Sauvageau, Donald Richard '70
- OH A Drier, Delmar Waldemar '52  
Fernbacher, John Matthew '62  
Honious, Robert Todd '89  
Kirkland, Earl J. '75  
Koch, Carl Conrad '59  
Weddell, James Kenneth '76  
Bulcher, Thomas J. '76  
Dobashi, Harry Hideo '68  
Fazzoni, Gregory Francis '76  
Kojola, Scot Alan '95  
Mayer, Robert Lawrence '69  
Nair, Suresh Neelakantan '83  
Oliver, Fred William '65  
Shields, John L. '75  
Wood, Ronald Eugene '89  
Au, Ralph Daniel '71
- OH B Case, William Frederick '64  
Deerhake, William Franklin '66  
Edwards, Randy Randall '71  
Kirner-Pribe, Susan M. '85  
Magee, John V. '81  
Marsolo, Keith Allen '02  
Martens, Alan Frederick '70  
Mendelsohn, Richard H. '71  
Mohr, John Glover '63  
Nodes, Scott Everett '84  
O'Neal, Joe Edward '55  
Overmyer, Ray Arthur '73  
Shade Jr., W. Norm '70  
Shepherd, John McBride '58  
Verner, William James '58  
Zeller, Hugh James '66
- OH Δ Beach, Theodore Lyman '87  
Nussbaum, Lael Edward '68
- OH E †Brown, Alfred Gene '61  
Cull, Ronald Carl '70  
Egger, Robert Allen '85  
Kubinec, William Richard '67  
Rutledge, Sharon Kay '84
- OH Z Allman, Susan Jane '85  
Busbey, Bruce C. '84  
Frederick, Wm G. D. '58  
Herman, Madison Rachelle '13  
Mowery, Thomas Troy '83  
Spicer, Alvin L. '67
- OH H Breuder, Andrew Joseph '70  
Eggers, James Arthur '72  
Gressang, Randall Vernon '72  
Hartman, Dean H. '99  
Hastings, Hal Leon '78  
Kohlhaas, Richard L. '62  
Nelson, James Ralph '65  
Wolfe, Stephen A. '85
- OH Θ Evanzia, Gregorio Patrick '64  
Keller, Robert Lee '63  
Kelly, John Bernard '67  
Unverferth, R. S. '74  
Walsh, Michael Anthony '75

- OH I Walter, Kenneth Leo '63  
Johnson, Scott D. '76
- OH K Schilling Jr., Walter William '97  
Dudek, Scott Andrew '90  
Duffy, Stephen Francis '78  
Paridon, Charles Albert '81  
Volosen, John '77  
Wielopolski, Richard John '76  
Eckhardt, Andrew James '79  
Folk, Joseph William '98  
Hallochak, Andrew John '77  
Murphy, Charles James '77  
Suhar, Richard Allen '83
- OK A Cares, Victor Christian '66  
Brown, Leslie Wray '70  
Burton, Donald O'Neil '71  
Lampl, Maurice Bernard '89  
Wolf, Jerard Michael '88  
Wustenberg, John Walter '84  
Perrault Jr., John Edward '95  
Schmude, Donald Jude '86  
Weston, Kenneth Clayton '55
- OR A Anderson, Joseph Russell '66  
King, Warren Edward '69  
Marsa, Arnold Ray '49  
Miller, Mark Wade '89  
Shaw, James Walter '70  
Sterk, Frederick John '64  
Wilt, Jay N. '74
- PA A Barndt, Ronald LaMar '58  
Clegg Jr., Lee Milton '59  
Fowler Jr., W. Beall '59  
Greer, Carl Crawford '62  
Haist, Randall Matthew '80  
Hjorth, Beverly Ellen '79  
Hopkins, Richard Henry '63  
Lentz, Robert Raines '65  
Parsons Jr., Donald Francis '70  
Shah, Minesh Ashok '90  
Shuey, David Edwin '78  
Wentzel, Alan Ray '75
- PA B Andrichak, Stephen Michael '58  
Bradt, Andrea '76  
Ciuca, James Allen '72  
Naffin, Richard Keith '06  
Olinick, Stephen Andrew '71  
Orosz, Matthew P. '02  
Sonstebly, Jon Michael '95  
Weston, Matthew Wayne '93
- PA Γ Cavalier III, Forrest J. '89  
Cavalier, Nina Leslie '89  
Kuhr, Tina Michelle '81  
Wierzbicki, Jeannette Marie '80
- PA Δ Hocker Jr., Robert Gerard '71  
Hoffer, Norman K A '81  
Sokal, Allen M. '68  
Turner, Michael Bryan '89
- PA E Boyles, Bruce William '76  
Guest, Frederick Charles '59  
Hagadorn, Hubert William '59  
Matsumoto, Tadashi Campbell '60  
Stephens, David G. '59
- PA Z Anderson, John A. '79  
Browne, Joseph Dominic '60  
Hill Jr., Albert Meredith '67  
Mergel, Joseph John '72  
Anonymous '84
- PA H Gilman, Thomas Carter '66  
Reetz, Helen A. '78  
Stiger, David Laverne '83  
Swartz, William Ewing '54



*Downing Club continued*

**WV B** Harding, Thomas Wayne '86  
Lorkowski, Tim Walter '93  
Stevens, Ellen Weber '84  
**WI A** Berman, Neil Sheldon '55  
Diedrich, Donald Leo '69  
Goehring, Henry G. '57  
Sieker, Frederick A. '70  
Yuen, David P-K '73

**WI B** Bella, Robert A. '65  
Bergs, Mary Agnes '76  
Mueller, Gregory John '68  
Oehler, Daniel Arthur '79  
Petrie, Dennis James '78  
Smith, Thomas M. '60  
Wolf, Thomas Francis '59

**WI Γ** Simon, Karen Anne '83  
**WY A** Lester, Roger N. '87  
Simon, Ronald Wayne '81

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# ASSOCIATION BRIEFS

## ALUMNI ACTIVITY: CENTRAL FLORIDA ALUMNI CHAPTER

Tau Beta Pi alumni in the Orlando area met the Association's Executive Council and Executive Director Gomulinski on January 7. The Central Florida Alumni Chapter is active and all TBII alumni living in the area, regardless of initiating chapter, are invited to join.

Please email [CentralFloridaAlumni@tbp.org](mailto:CentralFloridaAlumni@tbp.org) to join the chapter.



Executive Council members and local alumni together at Maggiano's restaurant.

## ALUMNI ACTIVITY: TAU BATES IN THE HOLY LAND

Executive Director **Curt Gomulinski, MI E '01**, was fortunate to have the opportunity to visit the Holy Land for the second time this past January 2023. His first visit was in 2018 as part of a Paulist Holy Land Pilgrimage under the spiritual direction of **Rev. Rich Andre, C.S.P., NY K '96**. Rich studied optical engineering and worked in the field for several years before sensing a call to the priesthood. He was an Engineering Futures Facilitator while Curt was a District Director, but their paths didn't really cross until Rich was assigned to St. John XXIII Parish on the University of Tennessee, Knoxville campus. Rich, Curt, and his wife **Tricia Gomulinski, SD A '98**, struck up a wonderful friendship over a mutual love of board games.

Before Rich left Knoxville, he went on a Pilgrimage in 2016 and encouraged Curt and Tricia to go if the opportunity presented itself. When the 2023 Pilgrimage was announced, they registered to go,



Mount of Olives with Jerusalem in the background.  
Left to right: Carl, Janie, Stacey, Curt, Tricia, Rich, and Travus.

along with Curt's mother, Nancy; Director of the District Program, **Stacey Forkner, WI A '96**; and two other friends from Colorado, Jenn and **Travus Knotts, SD A '98**.

Curt encourages everyone to make the trip. "It is an amazing experience and it lets you visualize in color what you read in the Bible in black and white. We visited too many sites to name, but some of the most memorable are reflecting in the Garden of Gethsemane, visiting the Church of the Holy Sepulchre, and celebrating Mass

in the desert. This trip was also special as Tricia and I renewed our wedding vows in Cana," said Curt.

Curt assisted Rich and their tour guide, Maher, as the onsite coordinator. While it added responsibilities to his journey, he was overwhelmed by the appreciation expressed by fellow pilgrims for the support he provided, so they could immerse themselves in this experience. While there, they discovered that two of the fellow pilgrims, **Carl Leedy, SD A '74**, and **Janie (David) Leedy, TX Z '78**, were also TBII members.

## EXECUTIVE COUNCIL NOMINATIONS

The 2023 Tau Beta Pi Convention will elect three members to serve on the Executive Council (EC). Members interested in serving on the EC must be nominated by an alumni or collegiate chapter no later than July 1.

The Executive Director can work with candidates needing a formal nomination.

Candidates with experience in a variety of functions: business, finance, management, research, teaching, etc. and those with

knowledge in the areas of advising collegiate chapters, alumni relations, branding, fundraising/development, and image enhancement are strongly encouraged to consider applying.

Read the position description at [www.tbp.org/?ECjob](http://www.tbp.org/?ECjob) for additional information. If you know of a qualified candidate or are interested in learning more, review this letter, at [www.tbp.org/?ECnom](http://www.tbp.org/?ECnom). Nominations can be sent via email to [tbp@tbp.org](mailto:tbp@tbp.org).



2023 TBPI Executive Council members: (front; left to right) Councillor Joan Sciacca, CA M '87; Councillor Menna Youssef, VA G '04; President Rachel Alexander, CA U '15; and Councillor Marla Peterson, AZ A '83. (back; left to right) Secretary Michael Peterson, IA A '89; Treasurer Mike Hand, MI G '11; Councillor George Youssef, NJ G '01; Vice President Ron Hickling, CA E '80; and Executive Director Curtis Gomulinski, MI E '01. Councillor MingDe Lin, NY G '01, not pictured.

## UPCOMING ALUMNI ACTIVITY: INDIANAPOLIS (IN) ALUMNI CHAPTER

Kick off racing season in the Circle City with TBPI! Join the Indy Alumni Chapter on the afternoon of Sunday, May 7, for a guided tour of the Indianapolis Motor Speedway track & museum just weeks before the Indy 500 takes place on that very same historic track! Tickets are \$25. Contact [tbpindy@gmail.com](mailto:tbpindy@gmail.com) for more details and to reserve your spot.

## WE ARE PLEASED TO WELCOME TWO NEW ALUMNI CHAPTERS:

**Southwest Florida (Ft. Myers)  
Charlotte, North Carolina**

Contact your local alumni chapter to join at: [www.tbp.org/?ACcontact](http://www.tbp.org/?ACcontact) or contact [t.gomulinski@tbp.org](mailto:t.gomulinski@tbp.org), to discuss participating with a chapter near you.

# Submit 2023 Award Nominations



The following Association award nominations are due by **April 1**: The **Laureate Program** recognizes members who excel in areas outside of engineering (arts, athletics, service, and diverse achievements). Nomination reference letters must be emailed to HQ. Selections will be made in June by a committee of District Directors appointed by the Executive Council. Winners will be announced in July, and each will receive \$2,500, a recognition plaque, and is invited to the annual Convention.

The **McDonald Mentor Award** celebrates excellence in mentoring. The winner receives an engraved medallion, pin, and \$1,000, and the nominating chapter receives \$1,000.

The **Outstanding Advisor Award** recognizes exceptional performance among the TBPI Chapter Advisors. The winner receives a plaque and \$1,000, and the nominating chapter's dean receives \$1,000 for its discretionary fund.

Information and nomination instructions are available for all three awards on the TBPI website:

[www.tbp.org/memb/awards.cfm](http://www.tbp.org/memb/awards.cfm)



**2020 LAUREATE**  
**Kevin Ptak, SD A '19**

# ALUMNI NOTES

Your fellow Tau Bates are interested in news about **you**.



## CONNECTICUT BETA '98

### Col. Karl W. Seekamp USAF

Col. Seekamp took command of the 704<sup>th</sup> Test Group at Holloman Air Force Base in New Mexico on September 9, 2022. As commander, he leads one of the major Test and Evaluation organizations of the U.S. Air Force. A graduate of the U.S. Naval Test Pilot School, he received an MBA from the Univ. of Maryland.



## MARYLAND BETA '04

### Katrina M. Groth Ph.D.

Katrina is an associate professor in ME at the University of Maryland (UMD) and the associate director for research at UMD's Center for Risk and Reliability. She was selected as a member of the (inaugural) Early Career Distinguished Alumni Society by the UMD College of Engineering, where she is a three time alumnae.



## FLORIDA DELTA '78

### Thomas J. Riordan

Thomas was recognized by the Univ. of Central Florida College of Engineering and Computer Science for Distinguished Engineering and Computer Science Achievements. He is CEO of Aril, a venture-backed startup that specializes in enhanced performance, power, and security for computer processors.



## MASSACHUSETTS EPSILON '82

### Christopher E. Root P.E.

Chris serves as president of the U.S. National Committee of the International Council on Large Electric Systems (CIGRE) and Division VII Director Elect of IEEE. He recently retired as the COO for Vermont Electric Power Company (VELCO), after eight years in this position and is now an executive advisor for VELCO.



## IOWA ALPHA '12

### Carl J. Kirpes P.E.

Carl has been elected as a member of the Iowa State University Alumni Association Board of Directors. At Iowa State University, Carl earned two B.S. degrees in mechanical and industrial engineering and a master's degree in systems engineering. He is president and managing partner at KT Pacer.



## MONTANA ALPHA '70

### John H. Rodenberg

John retired in 2022 from Washington State Univ. as a certified business advisor with the Small Business Development Center. This follows an earlier career with a major forestry, wood, and paper company. Most recently, he has been the SBDC advisor in Tacoma, WA, since 2004.



## MAINE ALPHA '04

### Lauren J. Swett P.E.

Lauren received the American Society of Civil Engineers William H. Wisely American Civil Engineer Award for "exemplary leadership and initiative in developing and executing programs for the Society and her tireless efforts on the Leader Training Committee, successfully executing multiple leadership programs."



## NEW YORK KAPPA '96

### Rev. Richard R. Andre

Rev. Rich is the newly appointed Director of the Paulist Center in downtown Boston, MA. As a former TBII Engineering Futures Facilitator who has crashed at the homes of other TBII Officials over the decades, he will gladly reconnect with friends whose work or vacation brings them to the neighborhood.



## MARYLAND BETA '08

### Rose T. Faghih Ph.D.

Rose was selected as a member of the (inaugural) Early Career Distinguished Alumni Society by the University of Maryland College of Engineering. She is an associate professor of biomedical engineering at the New York University and completed her postdoctoral training at MIT and the Massachusetts General Hospital.



## NEW YORK KAPPA '16

### Claire Hotvedt

Claire was promoted to senior product development specialist at Indium Corp. In this role, she will facilitate team initiatives to execute the new product development process and deliver fully scaled, launched, marketable product solutions for PCB Assembly solder pastes. She has a B.S. degree in chemical engineering from The University of Rochester.

Send items about civic activities, honors won, weddings, promotions, etc. to Tau Beta Pi, P.O. Box 2697, Knoxville, TN 37901-2697 or to [tbp.media@tbp.org](mailto:tbp.media@tbp.org). Material for publication must be received by May 1 for the **Summer** issue and August 1 for the **Fall** issue. Include name, address, chapter/class year, and email address or phone number. Thank you!



#### SOUTH DAKOTA BETA '86

### Blair A. Metzger

Blair received the Wayne E. Knabach Excellence in Power Award presented to an engineer whose lifetime contributions have advanced the power industry in the Upper Midwest. He is president of DGR Engineering of Rock Rapids, Iowa, and earned a B.S. in electrical eng'g from South Dakota State University.



#### WASHINGTON ALPHA '85

### Daniel G. Ogg

Dan has been selected as the executive director of the U.S. Nuclear Waste Technical Review Board. He previously worked at the U.S. Defense Nuclear Facilities Safety Board and served in the U.S. Navy aboard a nuclear-powered submarine. Dan has a B.S. from the Univ. of Washington and M.S. in nuclear eng'g from Berkeley.



#### TEXAS LAMBDA '94

### Jamey "J.J." Cates

J.J. was appointed as Chief Technology Officer of the GuardKnox (an AutoTech company) North American subsidiary. He is one of approximately 100 licensed and accredited professional software engineers in the U.S. and has a deep expertise in embedded software engineering and electronics, controls, and communications.



#### WISCONSIN ALPHA '79

### Bruce A. Dale, P.E.

Bruce was named a 2022 Distinguished Achievement Award recipient by the Univ. of Wisconsin-Madison "as an engineer who championed game-changing technologies in the oil and gas industry and fostered innovation, creativity, and excellence throughout his career." He retired from ExxonMobil as a chief engineer in 2017 and has B.S. and M.S. degrees in engineering mechanics.

#### MISSOURI BETA '92

### Col. Tom D. Akers USAF (Ret.)

Shuttle Astronaut Tom D. Akers joined Tau Beta Pi as an eminent engineer during the Fall 2022 Missouri Beta Chapter initiation at the Missouri University of Science and Technology. He is a former NASA astronaut with four shuttle flights: STS-41, STS-49, STS-61, and STS-79.

Tom received B.S. and M.S. degrees from the University of Missouri-Rolla in Applied Mathematics in 1973 and 1975, respectively. He was awarded an honorary Doctorate of Engineering from Rolla in 1992.

A recipient of the Department of Defense Superior Service Medal with two oak leaf clusters, Tom has also received the USAF Meritorious Service Medal, NASA Distinguished Service Medal, and four NASA Space Flight Medals.

Tom was selected for the astronaut program in 1987 and has held several positions at NASA, including: Deputy Director of Mission Operations, Acting Deputy Director of Flight Crew Operations, and Assistant Director (Technical) of Johnson Space Center. He left the astronaut program and NASA in 1997 to return to the USAF as the commander of the U.S. Air Force ROTC Detachment 442 at the University of Missouri-Rolla. He retired from Missouri S&T in 2010.

As a veteran of four space flights, he has accumulated over 800 hours of space flight including over 29 hours of space walking experience. On STS-41, October 6-10, 1990, Tom was responsible for the deployment of the primary payload, the *Ulysses* spacecraft.



Tom Akers (middle) is welcomed into Tau Beta Pi by MO Beta Chapter president Jennifer M. Collens, MO B '22, and Chief Advisor Steve E. Watkins, Ph.D., MO B '83.

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