



THE Bulletin

OF Tau Beta Pi

September 2011

A Publication
for the Collegiate
Chapters

Hello Hoosiers!

THE INDIANA CHAPTERS AT Purdue, Rose-Hulman, Notre Dame, Valparaiso, and Trine invite you to join them at the 106th annual Tau Beta Pi Convention on October 27-29, 2011. The members, led by Arrangements Chair **Mark J. Tozzi**, *IN A '12*, will enthusiastically welcome Tau Bates to the Crowne Plaza Hotel at Historic Union Station in downtown Indianapolis.

The city is world famous for the Indianapolis Motor Speedway; host to the Indy 500 and the Brickyard 400. This will be the first Convention in Indianapolis, although Indiana Alpha has hosted the Convention in West Lafayette six times in the past, most recently in 1993. Those who arrive by air will be greeted by hosting members at the Indianapolis Airport. Transportation will be provided to the Crowne Plaza, where business meetings, District and Committee meetings, Engineering Futures and ICE sessions, a career fair, the Model Initiation and meals will be held.

Recruiters from Cummins, Raytheon, Sandia Labs, Electro-Motive, EMC, International Paper, ITT, MIT Lincoln Labs, Oak Ridge National



Lab, and the U.S. Navy, and graduate programs at Columbia, George

James D. Froula, P.E. (ret.), *TN A '67* has served as Tau Beta Pi's Executive Director, Secretary-Treasurer, and Editor for the past 29 years. He will be retiring at the close of the 2011 Convention, having been only the third person in our 126-year history to hold this position. Join us at the banquet on Saturday evening as we celebrate Jim's dedicated service and numerous contributions to Tau Beta Pi.

Mason, George Washington, Iowa State, Kansas, Keck, Michigan, Michigan State, Notre Dame, Purdue, and Rutgers will staff booths from 9 a.m. to 3 p.m. on Thursday, October 27. Be sure to email your members' résumés to pat@tbp.org by September 30!

On Saturday afternoon, attendees will participate in focus groups tasked with identifying ways to improve member communication, increase alumnus involvement, and enhance the experience of being a member of TBP. Come ready to share your ideas!

The expenses of one student delegate per chapter and the on-site expenses of up to one chapter advisor per chapter will be reimbursed by the Association. Non-voting delegates and alumni are welcome, encouraged, and invited to attend at their own expense. However, either partial airfare for some or full expenses for a few non-voting delegates selected by District Directors will also be reimbursed.

Detailed information about the business of the Convention is on the following pages. Additional information is available on our website at www.tbp.org, and you may register online at www.tbp.org/tbpconv. Contact Headquarters with any questions by email at convention@tbp.org or by telephone at 865/546-4578.

This Convention will mark a historic change in leadership for the Association as Curtis D. Gomulinski, *MI E '01* takes over as Executive Director from James D. Froula.



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ISSUE AVAILABLE AT WWW.TBP.ORG

Convention Business

The primary purpose of the annual meeting is to conduct TBPI business. Delegates, who are often chapter presidents or officers, will begin their official duties on Thursday afternoon. They will oversee the Association's fiscal and governmental policies, possibly grant a new charter, choose the major chapter award winners, prepare for District conferences, learn more about the TBPI election and initiation process, receive leadership training, and plan future Conventions. They are assisted in their duties by the Executive Council, chapter advisors, and national officers, who serve as committee advisors.

The delegates are the legislative, executive, and judicial body of this primarily student-run organization. Each delegate arrives ready to participate and has been pre-assigned to one of the Convention committees. Each committee elects a student chair to conduct its internal affairs and represent the group on the Convention floor. Any Constitution or Bylaw changes brought forth from the committees are voted on by the Convention during the major business meetings.

This year seven standing committees will survey the Association, along with two *ad hoc* committees and two alumnus forums. The committees and their senior advisors are planned as follows.

Committees and Forums

Petitions

Dr. E.P. Gorzkowski III, advisor
This group will consider and recommend action on a petition for a new chapter from the University of San Diego.

Constitution and Bylaws

T.A. Pinkham IV, advisor
Four subjects have been assigned to the Committee for review:

- Stipulate that Headquarters be located in Knoxville, TN,
- Correct and update retirement provisions of the Headquarters staff,
- Clarify the postponement of initiation process, and
- Review the Code of Conduct established by the Executive Council.

Chapter & Association Financial Affairs

Dr. J.C. Hill, advisor
Committee members will:

- Review the chapter accounts receivable to Headquarters,
- Review the reports of the Society's auditor and Treasurer for 2010-11, and
- Determine allowable delegate expenses for the 2012 Convention (and review unusual allowable delegate expenses for the 2011 Convention).

Rituals

E.J. D'Avignon, advisor
Members of this group will prepare for and conduct the Model Initiation on Saturday afternoon.

Convention Site

J.G. Dabbling, advisor
Delegates from this committee will recommend action on an invitation to host the 2014 Convention from Washington Delta. In accord with the Constitution, the Convention site may not be selected more than three years in advance. Kentucky Alpha will host the 2012 meeting in Lexington, and Iowa Alpha will host in 2013 in Ames.

Resolutions

S.D. Jennings-King, advisor
Team members will prepare resolutions—statements of appreciation and mementos—for presentation to the Convention at the Saturday morning business meeting and the evening Initiation and Award Banquet. The group will also assist facilitators to poll groups of students.

Award

W.A. Hull, advisor
This committee will select the recipients of the R.C. Matthews Outstanding Chapter Award and the R.H. Nagel Most Improved Chapter Award for 2010-11. The team will select a single winner in each category and as many honorable mentions as are deserved and will recognize them at the Award Banquet on Saturday.

MindSET (*ad hoc*)

Dr. J.F.K. Earle, advisor
The committee will review and communicate the status of the TBPI K-12 MindSET Program.

Chapter Website (*ad hoc*)

J. Rogan, advisor
The team will generate material to assist chapters in improving existing chapter websites and re-evaluate tbp.org/chapters and implementation of the 2010 Convention recommendations.

Chapter Advisors (*forum*)

S. Dao, advisor
Advisors will provide and receive training as well as meet with members of the Advisor Recruitment and Development Committee.

Alumnus Chapters (*forum*)

R. Werneth, advisor
Alumnus Chapter representatives will discuss topics of interest and work on ways to improve Alumnus involvement.



PHOTO CREDITS: All Convention photographs in this issue were made by Raymond H. Thompson, TBPI Systems Administrator.

Convention Highlights

Award-Winning Engineering Futures

R.W. Pierce and Facilitators will introduce Engineering Futures to non-voting delegates on Thursday. Students will have the opportunity to explore ways to develop their own leadership skills, to improve their chapters, and to strengthen District ties while voting delegates conduct Convention business.

On Friday, non-voting delegates will again be involved in Engineering Futures training sessions that are designed to teach them practical solution-oriented leadership techniques such as motivation, planning, delegation, and team building. Voting delegates who complete their committee assignments should join the sessions already in progress.

District Program

District Directors will be meeting with delegates daily to assist them with organizing their local chapter activities and planning District conferences and other events.

Convention Extras

The Convention itself is organized to assist the delegates in their roles as chapter leaders. The opening orientation is a lesson in parliamentary procedure. Dr. John R. Luchini, P.E., *MIT '71*, Parliamentarian, will act as a role model for delegates as they observe Robert's Rules of Order in action. Convention Chair Ronald M. Hickling, *CAE '80*, will lead the major meetings throughout the eventful three days.

Delegates may familiarize themselves with various attractive insignia items that will be available at the Headquarters display for purchase at discounted prices.

Saturday evening is traditionally the highlight of the Convention when the major Association awards will be presented. In addition to recognizing the R.C. Matthews Outstanding Chapter and the R.H. Nagel Most Improved Chapter, the 2011 Laureates, Distinguished Alumnus, National Outstanding Advisor, and TBPI-McDonald Mentor will be introduced.

The 106th Tau Beta Pi Convention will be a historic and unique event. You will undoubtedly remember the enjoyable time you had at Union Station in Indianapolis. Please join us, and make lifelong friendships!

2011 TBPI-McDonald Mentor Dr. William R. Goodin

FOR HIS OUTSTANDING SUCCESS IN mentoring engineering students, **Dr. William R. Goodin**, *California Epsilon '75*, is the 2011 TBPI-McDonald Mentor. He is an Advisor to California Epsilon and director of short course and technical management programs at the UCLA extension, which he joined in 1983. He assists new engineering managers and supervisors in the workplace transition from technical managerial roles.

Dr. Goodin received a B.A. in mathematics from San Jose State University in 1969, before going on to UCLA to earn a master's in computer science in 1971, a Ph.D. in mechanical engineering in 1975, and a M.Engr. in engineering management in 1982. He previously worked as a senior environmental engineer with Dames & Moore, a software developer for Digital Productions, and a senior staff engineer at Hughes Aircraft Company.

Dr. Goodin's nomination statement declares: "Bill has provided constant support and counsel to the UCLA Chapter officers and the entire membership by ensuring transition of officer responsibilities and chapter structure, ensuring that event logistics are coordinated through the appropriate campus groups and programs, confirming that financial matters are in order, and ensuring compliance with both university policies and TBPI bylaws.

It continues: "Bill has consistently helped improve the leadership skills of the TBPI officers by providing feedback and advice on a variety of issues related to strategic planning, meeting and event planning and logistics, and day-to-day operation of the chapter. He has also extended his support to junior officers and helps them prepare for senior leadership

positions."

As a past president of the institution's engineering alumnus association and member of alumnus advisory boards there, he has provided

the chapter with support like project funding and speakers for meetings.

Dr. Goodin is a member of many other groups and honor societies, including ASCE, AIChE, and IEEE. He serves as an advisor and mentor to the Society of Women Engineers, which honored him for his steadfast support for advancing women in

engineering and as his SWE region's outstanding collegiate mentor.

Serving as a faculty advisor and student-group liaison takes up the majority of his weekends and time after work. His concern for the students has created a great rapport between them, while his close relationship with the alumni and ties to industry through his extension role bring great benefit to the chapter and the students.

Cooperation among honor societies and other organizations is another area that has benefited from Dr. Goodin's wide-ranging activities. An example is when the chapter's tutoring program was overwhelmed by the demand in computer science. He teamed California Epsilon together with two other engineering honor societies to set up an "incredibly successful" tutoring program.

There has also been praise for increasing alumnus participation. He set up the TBPI Alumnus Advisory Board on campus to support the chapter in areas like career workshops and mock interviews. Other help comes in *coaching* areas like public speaking, running meetings, creating an environment for people to succeed, and juggling the life-work balance.



Get Personal and Follow Up!

“Initiate just one more electee per chapter...!” This has been the challenge given to the chapters for the past several years. We slipped a bit this past year with seven fewer chapters meeting this goal (120 versus 127). Overall, the Association missed the “initiate one more” goal as only 43 new names appeared on the membership rolls. I commend those chapters excelling at the most important function of a chapter—marking in a fitting manner those students deemed worthy of becoming members of TBPi.

Individual chapter results were good. Sixteen chapters (up from 13) initiated at least 25 additional students. Georgia Alpha topped the list initiating an additional 43, narrowly edging California Eta (42). Forty-five chapters recorded a year-to-year increase of at least 50% (down from 47). Thirty-five (up from 22) of those at least doubled the number of initiates. Also, we wouldn't be where we are today without those faithful 11 (up from eight) chapters initiating ALL candidates! On the flip side, 110 (up from 98) chapters initiated fewer students.

201 or 93% of chapters (up from 183 last year) use email as the preferred way to contact eligible candidates. Although email is a convenient means of communication, it has its drawbacks. Emails aren't read, bulk emails are directed to the junk folder, and full mailboxes cause bounced mail—you've seen it happen. Do you follow up to make sure the email went through? If it didn't, what did you do next? For most chapters the answer to that question was—nothing. This is an area where some extra effort would go a long way.

A number of chapters (78 or 36%) reported using a personal touch—and not just the small or medium-sized chapters. Iowa Alpha (Iowa State), Indiana Alpha (Purdue), and South Carolina Alpha (Clemson) reported using personal invitations. And with the historically high number of students not accepting our invitation, maybe it's time to get personal.

Do you know why students are uninterested? Have you asked them? Reporting indicates lack of awareness continues as the most likely reason. A personal invitation would let the eligible students know we really want them to join us. It would also provide an opportunity to answer their questions and perhaps resolve any misconceptions they may have.

How did you learn about TBPi? Did you see a poster? Were you sent a brochure or invitation? Did someone tell



An ICE group in King of Prussia share views on issues.

you? You can help! Especially if your chapter is one of our larger ones. Ask to see who is on the list of candidates, and invite those you know to your chapter's get-acquainted meeting. Do the same for those you elect. Learn who is on the list, and offer to contact those whom you know. Invite them to join. Headquarters has sample letters and an invitation for chapters to use. Or just express a simple “I'd like you to join us.”

While 70% of scholastically eligible students were rejected and not elected, nearly all of them (95%) were rejected for lack of interest.

On top of that, an overwhelming 84% of those were noted as not responding to the chapter's invitation! These are staggering numbers, and there appears to be no end in sight. There may be more students, however, who would join our ranks—but they must know they're invited. So, get personal, and follow up!

How well do the students, faculty, and staff in your engineering school know about TBPi? Chapters reported: *Very well* 20% (up from 17%), *Somewhat* 67% (up from 65%), and *Slightly* 13% (down from 18%). Awareness in the engineering schools remains in the medium category. The numbers are moving in the right direction, but there is still considerable room for improvement. For Tau Beta Pi to realize its vision *to be universally recognized as the premier honor society*, we must continue to increase the *Very Well* number!

Achieving our goal of attracting the best and brightest engineering students as members requires continuous improvement. Publicity works! Posters or brochures in prominent locations are effective in publicizing your chapter. More than half of the chapters used these materials last year, and the reaction to them continues to be overwhelmingly positive. Recognizing new members in the school newspaper provides an excellent means of letting others know the high standards for which TBPi stands.

Is TBPi recognized on your campus as the premier honor society? If you're in the very-well-known group, well done! I encourage your chapter to keep up the good work. If not, why not? If each member reached out to one or two friends who are eligible but not yet initiated, we would easily exceed our goal. Get personal and have a successful fall!

—R.E.H.

\$\$ Benefit for Members

Members may be eligible for an additional discount off their automobile insurance.

GEICO

This special member discount is eight percent in most states and is available to qualified members in 49 states and the District of Columbia. In addition, GEICO offers many other money-saving discounts and a choice of convenient payment plans, 24-hour access for sales, service, and claims, and a nationwide network of claims

adjusters. Call 800/368-2734 to see what savings your membership could bring. If you currently have a GEICO policy, identify yourself as a Tau Beta Pi to see if you are eligible for the member discount.

Or go to www.geico.com for a free rate quote.

• GEICO insurance available only to U.S. residents except for residents of Massachusetts.

MindSET Update

MindSET is finishing a Teacher Professional Development manual to direct TBP chapters on the process for scheduling a MindSET teacher training session.

Several chapters are working on hosting MindSET activity sessions during the fall semester, including New York Gamma, Pennsylvania Beta, Tennessee Alpha, and three chapters in the Boston, MA, area.

Talk to your chapter's alumni and TBP advisors to form your own chapter implementation team. Your chapter may receive up to \$1,000 to conduct a project helping to educate K-12 students in the STEM disciplines. The money is available to Chapters from TBP's MindSET Program to involve young students in their communities and develop engineering modules that stress the importance of math and science.

If you are interested in learning more about the MindSET program or applying for a grant, visit tbpmindset.org or email Dylan Lane, MindSET coordinator, at dylan@tbp.org.

Fellows & Scholars

Tau Beta Pi awarded 35 graduate fellowships to our 78th group of Fellows. The press release is available online with additional details about the fellowships for the 2011-12 academic year.

All members of Tau Beta Pi are eligible to apply for full-time graduate study during 2012-13. Students and alumni may download informational files from www.tbp.org between November 1 and January 31.

There were 156 TBP Scholars selected and named to receive a total of \$302,000 in scholarship awards as part of the 2011 Scholarship Program. Depending on our trust earnings, up to 200 cash awards, each worth \$2,000, could be given as part of the 2012 Scholarship Program. They will be made on the basis of high scholarship, strong recommendations, extracurricular activities, and financial need.

Only junior members of TBP who will be full-time, on-campus seniors in 2012-13 are eligible to apply—online at www.tbp.org between November 1 and March 1.

2011 National Outstanding Advisor Dr. Robert L. Ward, P.E.

IN RECOGNITION OF SERVICE TO HIS chapter and the Association, **Dr. Robert L. Ward, P.E.**, *Ohio Iota '88*, is named the 2011 Tau Beta Pi National Outstanding Advisor. A professor in the civil engineering college at Ohio Northern University, he has been Chief Advisor to Ohio Iota since 1996.

Nominating him for the award, his chapter officers said: "Dr. Ward is an advisor who strives to make Tau Beta Pi better each year by encouraging every member to be active in all of the events.

He guides the officers in running the group, but allows each officer to truly be a leader for the group. He helps find new opportunities in order to allow students to volunteer to support the community and the school. This builds the character of each of the members and also allows people in need to be served. Dr. Ward's support for new ideas has allowed the chapter to grow, take on new challenges, and continue [its] effectiveness as a service organization."

Ohio Iota is one of the smallest chapters (approximately 25 eligible students each year), and Dr. Ward is pivotal in providing the necessary continuity from year to year. It is one of our star performers, initiating 100 percent of eligible candidates. Since 1975, the chapter has taken home the Outstanding Chapter Award three times, along with 11 honorable mentions! It has an unbroken streak of 15 Secretary's Commendations and has received the Chapter Project Award every year since its creation, using the money to fund an annual outstanding sophomore award.

He is a strong supporter of TBP national programs, including

Engineering Futures and Greater Interest in Government. Students are encouraged to apply for scholarships and fellowships. In the past 10 years, Ohio Iota students have

received six fellowships and seven scholarships, an outstanding achievement for the small number of members there. He regularly attends the annual Convention, serving as an excellent resource for newer advisors, and he was recently named to the TBP Advisor Recruitment and

Development Committee.

Dr. Ward received bachelor's and master's degrees from the University of Missouri and his Ph.D. from the University of Arkansas. He spent eight years in the work force as O'Fallon, MO, city engineer, a project engineer with Eastman Kodak, and with the U.S. Army Corps of Engineers.

Dr. Ward joined Ohio Northern as an assistant professor in 1989, after teaching experience at St. Louis Community College, Kansas State University, the University of Arkansas, and New Mexico State University.

He is committed to his college's outreach activities, teaching civil engineering concepts to middle- and high-school students, as well as working with Mathcounts and JETS.

Dr. Ward has also been active in the ASEE, both regionally and nationally, serving for two years as executive board chair for the north central section, and as campus representative. He is a past director of the Ohio Society of Professional Engineers and was chair of its professional engineers in education practice division.



2011 TBPI Laureates

Rosary C.T. Abot

ROSARY, *Indiana Gamma '11*, has been named a 2011 Tau Beta Pi Laureate for her diverse achievements. Rosary earned both a B.S. in chemical engineering and a B.A. in philosophy at Notre Dame.



During the 2008-09 school year she participated in an exchange program with the University of Cambridge where she immediately became in-

involved on campus as a coxswain. Since returning, she mentors students preparing for their exchange at Cambridge.

She also served as captain for her school's team in the Mock Trial Association and led them to awards at regional and invitational events. Rosary worked for three weeks as a substitute teacher for 4th and 5th grades at Corpus Christi School in San Francisco and served as a teacher's aide for another eight weeks. The next summer she traveled to Mongolia on a grant from Cambridge and taught English.

Jonathan A. Gross

JONATHAN, *Arizona Alpha '11*, is a 2011 Tau Beta Pi Laureate for his achievements in the arts.

Since Jonathan's first piano lesson at the age of seven, he has demonstrated an aptitude for the performing arts and a dedication to promoting classical music to everyone he encounters.



Jonathan is currently pursuing a bachelor of science in computer engineering and a bachelor of music in piano performance. He uses his keyboard skills to bridge the gap between these two worlds and has maintained a 4.0 G.P.A. in both fields.

Jonathan has attracted a large number of his engineering peers to his piano recitals and has volunteered hundreds of hours in preparing for, and performing, at numerous events within the college of engineering. Jonathan officially serves as a university engineering ambassador and is well recognized in the engineering community as the embodiment of that role.

Zachary W. Carr

ZACHARY, *New Jersey Alpha '11*, is a 2011 Tau Beta Pi Laureate for his achievements in athletics. Zach maintained a 3.92 GPA while earning a B.S. in biomedical engineering and an M.E. in engineering management.



Zach has been the starting goaltender for the Stevens Institute of Technology varsity soccer team for all four years of his college

career. He led his team to four conference championships, four NCAA tournament appearances, and a trip to the NCAA finals in 2008. Zach's leadership on and off the field as well as his impressive school record 55 career shutouts have all contributed to individual recognition as first team academic All American in 2009 and 2010 and male athlete of the year at Stevens.

Whether planning a fundraiser, helping underprivileged children receive tennis lessons, or tutoring at a school for autistic children, Zach's influence is felt everywhere.

Ann. M. Gleason Gilman

ANN, *Iowa Alpha '11*, was chosen a 2011 Tau Beta Pi Laureate for her achievements in athletics.

Ann was Iowa State University's varsity soccer goaltender during 2006 through 2009. She finished



her career as Iowa State's all-time leader in career wins, shutouts, and saves. Ann also led the Big 12 Conference in saves for two of her four years,

and was named to the academic All-Big 12 first team in her sophomore through senior years.

Ann has contributed to the local community as a volunteer with local youth girls' soccer and the Special Olympics of Iowa. She has also been active in mentoring and helping other chemical engineering students. She served as a supplemental instructor and attended lectures with students and used the class material to develop and conduct three, 50-minute sessions each week, helping them to boost their grades.

Jennifer A. Johnson

JENNIFER, *South Carolina Alpha '11*, is a 2011 Tau Beta Pi Laureate for her diverse achievements. She has a well established history of service that began in early high school and has continued to grow and diversify through college.



Jennifer served as President of her Tau Beta Pi chapter and was active in Chi Epsilon, the Society of Women Engineers, and the Institute of Transportation Engineers.

Jennifer served as head counselor for the Women in Science and Engineering's high-school summer camp and as a project leader for its middle-school project outreach events. In addition to engineering and science related activities, she coached Daniel High School varsity girls basketball team and volunteered for the Mason Dixon basketball tournament at the South Carolina School for the Deaf and Blind. After being a high school basketball star, she turned to coaching after a career-ending knee injury.



Ratified Amendment

Receiving 186 affirmative votes from 200 chapters, the 2010 Convention amendments to the *Constitution and Bylaws* were ratified in April 2011.

The amendments *allow multiple Officers and Directors appointed to a Convention committee to serve as advisors to that committee and correct an error in the actual procedure of selecting, rather than electing, the Convention chair* (Const. Art. III, Sec. 2 (b) & (d)) are now effective.

The ratification letter and other letters are available online at www.tbp.org/chapters/mailings/index.cfm.

Education Loan Fund

Since 1935, Tau Beta Pi has assisted student members with their financial needs while in school or with payment of their initiation fees through our Student Loan Fund.

We are pleased to offer this service for student members in amounts up to \$2,500 per member. Repayment is required after three years, and a simple interest rate of 6 percent is charged from the day the loan is received.

Interested students can obtain promissory notes and loan applications from their chapter presidents, the TBP website, or by calling or emailing Headquarters.

Student Assistance

The Tau Beta Pi Student Assistance Fund was endowed in 1992 through the interest and generosity of C.C. Young, *Illinois Alpha '24*.

Its purpose is to make funds available to student members of his and other chapters who would otherwise be without sufficient financial resources to remain in college.

Repayment is not required, no interest is charged, and grantees are requested to help others in need should they become financially secure.

Interested students should call or email Headquarters for more information.

2011 Distinguished Alumnus Richard G. Higgins

IN RECOGNITION OF OUTSTANDING lifetime achievements, **Richard G. Higgins, Maine Alpha '79**, is the 2011 TBP Distinguished Alumnus.

He held three vice-presidential positions during his 26 years at the Boeing Company, retiring in 2005 as vice-president for The Americas.

He recently endowed the Richard and Jean Higgins materials testing laboratory at the University of Maine, where engineering students test materials like shear plates, concrete cylinders, and wooden trusses to determine their strength.

Mr. Higgins serves on the college of engineering's advisory board. He helped to develop a new minor in engineering leadership and management. The curriculum, which includes courses on communication, environmental and business ethics, critical thinking, and decision making, aims to provide undergraduate engineering and engineering technology majors with an understanding of how to achieve the vision and goals of an organization.

A native of New Jersey, Mr. Higgins had a political science degree and had served in the U.S. Coast Guard when he enrolled at Maine.

He joined Boeing as a structural engineer after graduating with a B.S. in civil engineering and later completed an M.B.A. at Seattle University and executive studies at the University of Washington and Carnegie-Mellon University.

His first assignment at Boeing was with the 757 wind-design group, before moving to service engineering where he helped airlines resolve in-service technical problems. Mr. Higgins is most proud of the airplane safety and maintenance work he accomplished as manager, director, and

finally vice-president of maintenance engineering.

He recently embarked on a new career in writing and has received a master's in history from Vermont's Norwich University. After completing a novel, he is writing a book telling the story of the Red Army during World War II and has begun work on a biography of U.S. wartime aviation hero James "Jimmy" Doolittle.

Passionate about military history — especially the Civil War—Richard says

that, for him, the battlefield represents "the other side of the coin." Aviation brings people together to solve problems, while war drives them apart. "It's very important to understand why humans resort to conflict to solve problems," he says.

His love of military history became "an important part of my career" when, as an executive, he would travel the globe, discussing with world aviation leaders how his firm could facilitate aviation in their particular countries.

"But we couldn't talk about airlines all day, and so this would give us common ground," he recalls. "I'd ask, 'didn't such and such a battle happen close by here?' It would open up a whole new discussion. They'd take me on tours of battlefields, and everybody would go away feeling honored that I'd taken time to learn about their country. For myself, I gained great insight into their history and culture."

Richard and his wife of 38 years, Jean, live in Santa Fe, NM, where he is president of his neighborhood's Tano Road Association. He is a board member of the Civil War Preservation Trust, Santa Fe Opera, and the Advanced Placement Initiative of New Mexico.



Association & Alumnus News

Alumnus Spotlight

Auburn University Samuel Ginn College of Engineering recently named Monroe A. Stone, *Alabama Alpha '83*, as its 2011 outstanding materials engineering alumnus. Stone is aerospace global director of new business development and innovation for PPG Industries.

Heidi H. Lyman, *Washington Alpha '84*, had the ride of her life experiencing G-force and several show maneuvers aboard the number seven jet of the USN Blue Angels (see image). Lyman, a math and engineering teacher and math coordinator at South Seattle Community College, was chosen for a guest flight after being nominated and writing an essay about her desire to fly and her determination to overcome her fears associated with such a flight. The *West Seattle Herald* reported on her flight and took pictures.



NAE (National Academy of Engineering) has named Dr. Ronald M. Latanision, *Pennsylvania Beta '64*, as the editor-in-chief of *The Bridge*. Dr. Latanision is currently a corporate vice president at Exponent. He replaces Dr. George Bugliarello-Wondrich, *New York Rho '51*, the former editor-in-chief who passed away in February.

Texas A&M has announced the establishment of a scholarship in perpetuity by Nancy and Daniel H. Zivney, *Texas Delta '73*. The scholarship will be awarded to a freshman chemical engineering student at A&M. Zivney retired from ExxonMobil in 2009, and his gift was matched by the ExxonMobil Foundation.

US Secretary of Education Arne Duncan received the "Presidential Award" for commitment to inspiring students studying the STEM fields at the second annual greater Los Angeles Engineer of the Year Gala. Two Tau Bates also received awards in recognition of engineering: Vice-Admiral Kevin M. McCoy, *New York Omicron '78*, and John J. Mastro-taro, Ph.D., *North Carolina Gamma '87*.

Alumnus Chapters

Three TBPI Alumnus Chapters are working to reinvigorate their ranks. The Bluegrass Chapter (KY), the Sacramento Chapter (CA), and the West Michigan Chapter would like to hear from you. For contact information, visit www.tbp.org/pages/Chapters/AlumnusChapterContacts.cfm.

Student Spotlight

Ariel D. Murphy, *Alabama Beta '12*, has been selected as one of 15 students for the United Negro College Fund-Merck Foundation undergraduate science research scholarship program. This summer, she interned with Merck researching drugs that are insoluble.

Montana Tech and the Frontier Conference announced the selection of Ivan Sljivar, *Montana Beta '11*, as the 2011 winner of the NAIA Dr. Leroy Walker champions of character award. Sljivar combined his love for basketball with academic prestige to create a base for a promising career in mechanical engineering.

Rensselaer Polytechnic Institute had two varsity track & field/cross country team members named to the 2011 Capital One academic All-America college division teams. Garrett L. Harms, *New York Gamma '11*, was selected to the first team, and Jeffrey B. Corelli, *New York Gamma '11*, was selected to the third team.

The Association of State Dam Safety Officials chose Alexander T. McCaskill, *Missouri Delta '12*, as this year's senior undergraduate scholarship recipient. He has worked at the Judy Company Inc. for 18 months on practical aspects of dam safety.

USA Science & Engineering Festival

Tau Beta Pi is proud to be an official partner of the second USA Science & Engineering Festival to be held in the greater Washington, DC, area in April 2012.

The festival aims to re-ignite the interest of our nation's youth in the sciences. The culmination of the festival will be a three-day expo on April 27-29, which will give attendees of any age the opportunity to explore all facets of science and engineering through enjoyable hands-on activities.

Tau Beta Pi will host a booth during the expo. People across the country are encouraged to hold satellite events in their communities the same weekend. For more information, visit www.usasciencefestival.org.

Media, Networking, & Partnerships

Keep up-to-date on TBPI and engineering FYI at [TBP's HQ blog](#). Be sure to join Tau Beta Pi's official LinkedIn group, interact on our Facebook business page, and reconnect with alumni (over 12,000 members) on the [TBPCONNECT](#) social network.

New District Directors

Bruce A. DeVantier, IL E '77

TAU BETA PI WELCOMES **Bruce DeVantier**, *Illinois Epsilon '77*, as a new Director in District 8. He is an associate professor at Southern Illinois University, Carbondale. In addition, Bruce serves as Chief Advisor and Treasurer for the Illinois Epsilon Chapter of TBPI.



Dr. DeVantier received his B.S. and M.S. degrees at SIU and his Ph.D. at the University of California, Davis, in civil engineering.

Bruce has been involved as a TBPI Advisor for all 28 years of his professional career. He is eager to continue his positive impact through the oversight

and mentoring of five chapters in southern Illinois and Indiana.

Ian J. Frank, NY P '09

TAU BETA PI WELCOMES **Ian Frank**, *New York Pi '09*, as a new Director in District 14. He is a mechanical design engineer at the Xerox Corporation and lives in Wilsonville, OR.



He was President and Vice President during his two years as a student member of the New York Pi Chapter at the Rochester Institute of Technology.

Ian is also involved with the FIRST robotics competition, and is replacing former District Director Jeffrey A. Hester, *Washington Alpha '88*.

He will split responsibilities for chapters in District 14 with Timothy M. Edgar, *California*

Alpha '08 and looks forward to attending the 2011 Convention.

Ricardo K. Komai, CA T '10

TAU BETA PI WELCOMES **Ricardo Komai**, *California Tau '10*, as a new Director in District 8. He previously served as President and Corresponding Secretary for the California Tau Chapter at the University of California, Irvine. Currently, Ricardo is pursuing his Ph.D. in materials science engineering at Northwestern University in Illinois.



Ricardo has also been active and involved in volunteering activities with the Illinois Gamma Chapter.

He will offer support and oversee chapter activity for IL B, IL Γ, IL Z, IN Γ, IN Δ, and IN E.

In his role as a District Director, he will be responsible for official correspondence with Headquarters and will proudly represent the Association in conducting official business.

Gregory M. Newcomb, CO B '06

TAU BETA PI WELCOMES **Gregory Newcomb**, *Colorado Beta '06*, as a new Director in District 12 and a professional research associate at the Laboratory for Atmospheric and Space Physics at the University of Colorado at Boulder.



Gregory is a former President of the Colorado Beta Chapter and currently serves as Chief Advisor.

His goals include giving back to TBPI, elevating the engineering profession, and trying to fill the shoes of departing District 12 Director Tricia Gomulinski, *South Dakota Alpha '98*.

He looks forward to interacting with engineering students and other TBPI officials at their yearly District Conference and the National Convention.

Member Benefits

Benefits offered to Tau Beta Pi members include test preparation, employment, insurance, networking, and mentoring opportunities.

Getting ready to take the FE/EIT or PE licensing exam? Learn more about a 30 percent discount on exam preparation materials on our PPI partner-page.

Considering graduate school? Leverage the Hobsons Gradview Widget on our web site to research different graduate programs.

Looking for a summer internship or permanent employment? Consider using our Engineering Job Board or Recruiting Center to identify potential employers.

For the complete list of benefits, visit www.tbp.org/pages/formembers/benefits/benefits.cfm.

Did You Know?

Question

What is the difference between an eligible, a candidate, an electee, a pledge, and an initiate? I frequently see these terms used, but I'm not sure which group of students that each term refers to.

Answer

- An *eligible* or eligible student refers to any student on the eligibility list or scholastically eligible student. This includes current members as well as students who are not members of TBPI.
- A *candidate* is any student who is eligible to join TBPI, is not a member, and has not been elected to membership. Typically, eligible students going through your character evaluation process are candidates.
- An *electee* is an eligible student who has been elected to membership but has not yet been initiated into TBPI.
- Tau Beta Pi does not have *pledges*. We have candidates or electees; fraternities and sororities have pledges.
- An *initiate* is an electee who is attending and completing an initiation ceremony.
- After a student has been initiated into TBPI, he or she is a *member* for life and no longer an electee or initiate.

Eligible --> Candidate --> Electee --> Initiate --> Member

Reporting Deadlines

- **October 15** Fall Contact Info. Update
Officer Signatures
- **October 27** Conv. Credentials
- **November 11** Conv. Expense Report
- The **Report of Eligibility** is due within the first five weeks of the academic term
- The **Report of Election** is due at least two weeks before initiation

THE Bulletin OF Tau Beta Pi

(ISSN 8755-5670)

Vol. LXXXV September 2011 No. 1

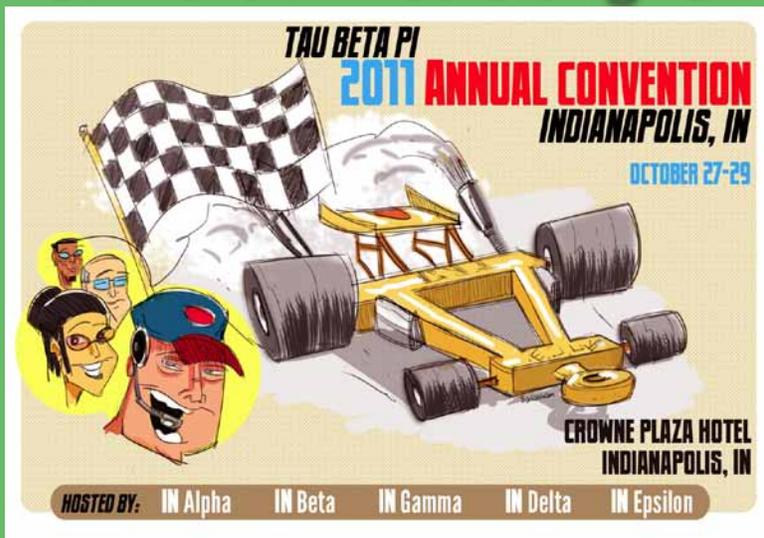
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Convention Recruiting Fair



Whether you are looking for your first job, networking, or considering your graduate school options, Tau Beta Pi's Convention Recruiting Fair has exciting opportunities for you. Companies looking to hire the best and brightest engineers will be on hand, along with top graduate schools from around the country.

Be sure to bring at least ten copies of your résumé, and email your résumé and those of your chapter members to Pat (pat@tbp.org) no later than September 30 to be included in the DVD given to recruiters.

Scheduled recruiters include: Cummins, Raytheon, Sandia Labs, Electro-Motive, EMC, International Paper, ITT, MIT Lincoln Labs, Oak Ridge National Lab, the U.S. Navy, and more than a dozen graduate schools. Arrive early on Thursday, October 27, at the Crowne Plaza Hotel, Indianapolis. To learn more about the Recruiting Fair, visit: www.tbp.org/pages/convention/sponsors.cfm.