

THE Bulletin

OF Tau Beta Pi

September 2010

A Publication
for the Collegiate
Chapters

Quasiquicentennial Anniversary Convention!

THE PENNSYLVANIA ALPHA CHAPTER is pleased to host the 105th annual Tau Beta Pi Convention on October 7-9, 2010. The members, led by Arrangements Chair Dennis Tung, *PA A '11*, will enthusiastically welcome Tau Bates to King of Prussia and Bethlehem, home of Lehigh University.

The Philadelphia metropolitan region is a popular tourist destination. Those who arrive by air will be greeted by hosting members at the Philadelphia Airport. Transportation will be provided to the Radisson, where all conventioners will stay and business meetings, Engineering Futures and ICE sessions, a recruiting fair, and four meals will be held.

Reps from firms such as ITT, EMC, Lutron, International Paper, Raytheon, Sandia Labs, and Tyco Electronics and graduate programs at Columbia, Duke, George Washington, Iowa State, Kansas, Lehigh, Michigan, Michigan Tech, Purdue, NJIT, and Tennessee will staff recruiting booths from 9 to 3 on Thursday, October 7. Be

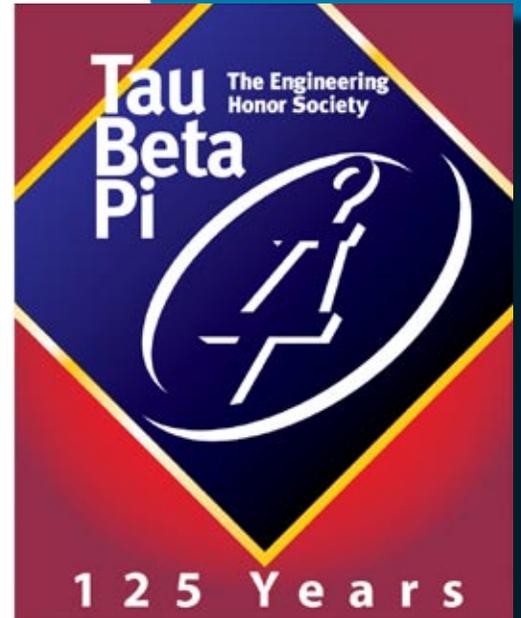
sure to email your member's résumés to HQ by September 15!

The model initiation for Pennsylvania Alpha will be held on campus, after which host students will lead tours through several engineering departments and other areas of interest. The Bent monument, placed on campus during the 1960 Convention, will be rededicated in a new location.

The expenses of one student delegate per chapter and the on-site expenses of many chapter advisors 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.

The Executive Council was re-elected to serve the Society during 2010-14 and will continue its course. 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/tb-conv. Contact Headquarters by email at convention@tbp.org. Our telephone and fax numbers are on page 8.

Special speakers include Dr. Alton D. Romig Jr., *PA A '75*, executive vice president, deputy lab director, and chief operating officer at Sandia National Laboratories. This Convention—featuring the one-man play, *Einstein the Man*—promises to provide exciting memories, new friendships, and a fitting celebration of Tau Beta Pi's 125th year.



Welcome
home
Tau Bates!

Convention attenders ponder the eternal question of the relationship of computer science to engineering.

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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 three *ad hoc* groups. The committees and their advisors are planned as follows.

Committees

Petitions

L.C. Gascoigne, advisor

This group will consider and recommend action on a petition for a new chapter from Embry-Riddle Aeronautical University in Daytona Beach, FL.

Constitution and Bylaws

Dr. R.W. Mead, advisor

Four subjects have been assigned: to amend Const. Art. VIII, Sec. 2(f & h), to define junior/senior engineering status; to correct an inconsistency in Const. Art. III, 2(d); to allow two or more Convention committee advisors; and to consider fining chapters failing to file IRS form 990N for two years.

Convention Site

W.A. Hull, advisor

Delegates from this committee will recommend acting on invitations to host the 2013 Convention from Iowa Alpha and Washington Delta. In accord with the Constitution, the Convention site may not be selected more than three years in advance. The Indiana chapters will host the 2011 meeting in Indianapolis, and Kentucky Alpha will host in 2012 in Lexington.

Curriculum Review (*ad hoc*)

A.J. Flowerday, advisor

Team members will hear appeals from two chapters to permit non-ABET/EAC-approved curricula to be considered as eligible curricula.

Chapter & Association Financial Affairs

J.P. Blackford, advisor

Committee members will:

- Review the chapter accounts receivable to Headquarters,
- Review the reports of the Society's auditor and Treasurer for 2009-10,
- Determine allowable delegate expenses for the 2011 Convention (and review unusual allowable delegate expenses for the 2010 Convention),
- Review the proposed TBP Trust Investment Policy, and
- Conduct a financial review of funding full expenses of alternate delegates.

Award

J.G. Dabbling, advisor

The assignment of this committee is to select the recipients of the R.C. Matthews Outstanding Chapter Award and the R.H. Nagel Most Improved Chapter Award for 2009-10. 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.

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 recognize the Society's 125th Anniversary.

Rituals

E.J. D'Avignon, advisor

Members of this group will prepare the Model Initiation.

Chapter Website (*ad hoc*)

J. Rogan, advisor

The team will review and make recommendations to improve chapter websites and also the "Chapter Website" at tbp.org.

Chapter Advisor (*ad hoc*)

Dr. J.C. Hill, advisor

Committee members who are all advisors will: 1) Provide a training session of the online reporting system and TBPCONNECT community, 2) Review the effectiveness of Advisor presentations at the 2010 Spring Conferences, and 3) Review documentation to assist Chapter Advisors.



2010 RECRUITING FAIR
Check it out

IF YOU ARRIVE EARLY ON THE FIRST DAY
of the Convention, visit the TBPI Recruiting Fair
9 a.m. to 3 p.m. outside the ballroom (see back cover).

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 Spring 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., *MIΓ '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 chapter and insignia items that will be available at the Headquarters display in the hotel lobby.

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 2010 Laureates, Distinguished Alumnus, National Outstanding Advisor, and TBPI-McDonald Mentor will be introduced.

The 105th Tau Beta Pi Convention could very well be the most enjoyable venue that you'll ever remember. Please join us, and make lifelong friendships!

2010 TBPI-McDonald Mentor

Dr. Donna S. Reese

FOR HER OUTSTANDING SUCCESS in mentoring engineering students, **Dr. Donna S. Reese**, *Mississippi Alpha '79*, is the 2010 Tau Beta Pi-McDonald Mentor. She is associate dean for academics and administration at Mississippi State University's college of engineering, where she serves as an Advisor to Mississippi Alpha.

She received her B.S. in computer science from Louisiana Tech University in 1979. After a year as a software engineer for General Dynamics in Fort Worth, TX, she returned to graduate school at Texas A&M University. She received her M.S. in 1981 and Ph.D. in 1985, both in computer science, and served as an instructor at the University of Texas at Austin during 1987.

Dr. Reese joined the faculty at MSU in 1989 as a visiting professor and served as the system software thrust leader for its NSF engineering research center for computational field simulation during 1990-97, then as the computer science and engineering department's undergraduate coordinator until 2004. Promoted to full professor in 2003, she was awarded an outstanding faculty advisor award in 2004 from the National Academic Advising Association.

Colleagues say her mentoring is not a job, it is a way of life, along with her commitment to broadening participation in engineering. Undergraduates mentored by her have gained degrees at rates that exceed STEM students in general at MSU. Dr. Reese uses several strategies to help students reach their educational goals. She encourages them to join research experience for undergraduates programs, work in campus laboratories, obtain co-op

experience, be involved in student organizations, and take part in projects to enhance job search skills.

She has worked on programs to help retain and advance all stu-

dents, particularly those from under-represented groups. Another component of her mentoring is the development of role models and future mentors. She has worked with the growing number of women engineering faculty to understand the importance of mentoring for future generations of women students. This has

included working on the MSU parental leave task force.

Dr. Reese has informally mentored hundreds of middle and high school students through science fairs, summer programs, and robotics competitions. She has provided them with research activities to help them aspire to STEM in their post-secondary education, and go on to engineering careers, all while serving as a role model.

Projects developed under Dr. Reese's leadership, such as an engineering living/learning community and K-12 outreach programs, are based on ideas proven to be successful at other institutions, and which address important issues. Her involvement in national organizations allows avenues to share and replicate these activities.

She has overseen the college of engineering's diversity program, which includes student chapters of the National Society for Black Engineers, the Society for Women Engineers, and the Society for Hispanic Professional Engineers. Dr. Reese serves as faculty advisor for SWE and the engineering college's increasing minority access to graduate education program.



Is Your Chapter Growing and Thriving?

“Initiate just one more electee per Chapter...!” 127 Chapters did just this, seven more chapters than in the previous academic year! This helped the Association as a whole to double the “initiate one more” goal. 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.

Thirteen chapters, which is two more than last year, initiated at least 25 additional students.

Alabama Beta (49) narrowly edged Massachusetts Alpha (48) for the top spot. Forty-seven chapters recorded a year-to-year increase of at least 50 percent, and 22 of those at least doubled the number of initiates. Also, we wouldn't be where we are today without those faithful 35 chapters that initiated ALL electees! Unfortunately, 98 chapters initiated fewer students.

A total of 8,704 initiates joined TBPI in 2009-10. This is 618 more than last year and the most since 1995-96, which was the last time the number of new initiates exceeded 9,000.

Growth is good, but we should not rest on our laurels. It is too easy to fall back to our previous levels. The number of students not accepting our invitation declined again (5,860 versus 6,100 last year). This is a move in the right direction, but history shows we've done much better in the past. Rejection rates averaged around 4,700 in the '80s and '90s, 3,600 in the '70s, and less than 1,000 in the '60s!

The overwhelming reason for not accepting our invitation continues to be a lack of interest by the electee. Although the total in this category dropped to 5,171, it still means that 88 percent of those selected by you to join TBPI just weren't interested ... or did not receive the invitation. Most chapters (183 or 81%) reported using email to contact electees. Although email is a convenient means of communication, it has its drawbacks. Emails aren't read, bulk emails are directed to the junk folder by filtering software, and full mailboxes cause bounced mail—you've seen them. Do you follow up to make sure the email went through? If it didn't, what did you do next? A little extra effort would go a long way. While emails may be the modern way, many chapters (79 or 37%) use the preferred personal touch—and not just the small or medium-sized chapters. California Alpha



An ICE group in East Brunswick share views on issues.

(Berkeley), Illinois Alpha (UIUC), Iowa Alpha (Iowa State), and Ohio Gamma (Ohio State) reported the use of a personal invitation.

Do you know why students are uninterested? The results reported below would indicate that a lack of awareness is the most likely reason. How did you learn about TBPI? Did you see a poster? Were you sent a brochure or invitation? Did someone tell you? You can help! Especially if your chapter is one of our larger ones. See who is on the list of candidates and invite them to your get-acquainted meet-

ing. 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 do just a simple “I'd like you to join us.”

While 60 percent of scholastically eligible students were rejected and not elected, nearly all of them (87 percent) were rejected for lack of interest—three quarters were noted as not responding to the chapter's invitation! There may be more students who would join our ranks—but they must know they're invited. So, follow up! The data below show a bit of slippage. [*How well do the students, faculty, and staff in your engineering school know about TBPI? (data from previous year)?* • *Very well* 17% (20% in '09) • *Somewhat* 65% (70%) • *Slightly* 18% (10% in '09).] Awareness in the engineering schools remains in the medium category, but there is still considerable room for improvement. Achieving our goal of attracting the best and brightest engineering students as members requires continued 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. 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 45 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 Program

MindSET had a successful spring 2010 semester. Four MindSET grants were awarded to TBPi chapters.

Colorado Alpha, Florida Alpha, Florida Delta, Michigan Gamma, New Hampshire Alpha, New York Iota, and South Dakota Alpha all hosted or made preparations to host MindSET projects.

Efforts are being made to communicate with TBPi alumni for support with the continued growth of MindSET. Email dylan@tbp.org at Headquarters in Knoxville, TN, for assistance. Visit the home page for the program at www.tbp.org/mindset for contact information, media, and updates.

Fellows & Scholars

Tau Beta Pi awarded 27 graduate fellowships to our 77th group of Fellows. The press release is available online with additional details about the fellowships for the 2010-11 academic year (one Fellow resigned).

All members of Tau Beta Pi are eligible to apply for full-time graduate study during 2010-11. Students and alumni may download informational files from www.tbp.org after November 1.

There were also 102 TBPi Scholars selected and named to receive a total of \$200,000 in scholarship awards as part of the 2010 Scholarship Program. Only junior members of TBPi who will be full-time, on-campus seniors in 2011-12 are eligible to apply—online at www.tbp.org after November 1.

New Benefit

KODA, the “opportunity community,” is partnering with Tau Beta Pi to offer members a unique career resource.

The KODA online community is for young professionals to match up with potential employers. You can find jobs, network, and launch your career.

Create your profile and tell employers about more than just your résumé. Be sure to register today, it's free!

2010 National Outstanding Advisor Dr. Robert E. Efimba, P.E.

IN RECOGNITION OF HIS SERVICE to his chapter and the Association, **Dr. Robert E. Efimba, P.E.**, *Massachusetts Beta '63*, is named the 2010 Tau Beta Pi National Outstanding Advisor. He is an associate professor in the department of civil engineering at Howard University. Dr. Efimba has been Chief Advisor to DC Alpha for 20 years, and an Advisor to the chapter for nearly 33 years.

Nominating him for the award, Dr. Efimba's chapter said: “While there are definitely a number of outstanding advisors throughout Tau Beta Pi, none of them is perhaps as essential and appreciated as Dr. Efimba is in *DC Alpha*. We would greatly appreciate seeing him recognized nationally for his tireless efforts and unending support to our chapter and to TBPi as a whole. His personality, consistency, and visibility have been and will continue to be an asset....”

Giving life to his belief in positive reinforcement, Dr. Efimba established an award system for members, with appropriate certificates being featured at banquets. This helped new members gain aspirations, while rewarding longer-standing members for jobs well done.

He has perfected a balance in providing support, ideas, and continuity, while never making decisions himself or dominating chapter affairs. Dr. Efimba constantly reminds student officers that it is their chapter, providing opportunity and resources to help them be leaders.

Under his leadership, the image and visibility of TBPi has been enhanced in outreach to freshmen and

the administration's appreciation and recognition of the chapter as a vital part of college life. Student and faculty members are prominently recognized. The chapter is so well

respected in the college that students and faculty alike are enthusiastic when invited to be considered for membership, and the acceptance rates are near 100 percent.

The chapter has also received a number of outstanding project awards, Secretary's Commendations, and Greater Inter-

est in Government grants. Each of these was made possible because Dr. Efimba was behind the scenes, promoting, reminding, encouraging, and advising.

Dr. Efimba specializes in structural engineering, structural mechanics, and structural design. He joined the Howard civil engineering faculty as an assistant professor in 1975, becoming an associate professor in 1982. He previously gained his bachelor's, master's, and doctorate at MIT, lectured on civil engineering at the University of Nigeria, and been an engineer with the public works department in Cameroon.

He has served on NSF and ASEE/DoD review panels, and been a member of the architect-engineer evaluation board of the Pennsylvania Avenue Development Corporation.

Dr. Efimba's commitment to TBPi extends beyond the chapter. He chaired the 2006 Committee of Chapter Advisors and served as a member of the Task Group on International Activities and the Advisor Recruitment and Development Committee.



2010 TBPI Laureates

Christina L. Bonnington

CHRISTINA, *Mississippi Beta '10*, is a 2010 Tau Beta Pi Laureate for her achievements in the arts. She is an electrical engineering graduate of the University of Mississippi, where she was Corresponding



Secretary.

Christina has been committed to the study of ballet since the age of four. She spent the 2006-07 season performing professionally with

Ballet Memphis, before deciding to pursue a degree in EE.

She began teaching in 2008 at the Oxford, MS, Ballet School, alongside her studies. Christina has choreographed several contemporary dance works and staged the inaugural performance of the newly-formed Oxford Ballet Company. She volunteers her time to teach weekend and summer classes.

Christina has excelled in her studies, receiving a Taylor medal, UM's highest academic honor.

Travis W. Walker

TRAVIS, *South Dakota Alpha '08*, is a 2010 Tau Beta Pi Laureate for his diverse achievements. A former TBPI Scholar and Fellow, Travis is working on a Ph.D. at Stanford University after receiving his master's in chemical engineering there, and a double B.S. from South Dakota School of Mines and Technology, where he was AIChE president.



He has been successful at every level of athletics at which he has participated. Travis has competed in NAIA collegiate football and track and field. While at the School of Mines, he was an assistant coach for two local high schools.

Travis has taken part in the Washington Internships for Students of Engineering, where he advocated alternative energy. He is an Eagle Scout and continues to give back as an assistant scoutmaster with a Palo Alto area troop.

Jaclyn R. Kondratko

JACLYN, *Indiana Delta '10*, is a 2010 Tau Beta Pi Laureate for her achievements in athletics. She is a mechanical engineering graduate at Valparaiso University, where she was Vice President, and 2010



TBPI Fellow.

Her interest in soccer began at age four, spurred by a soccer-playing brother. This led to high school conference teams, a travel team

captaincy, and a conference MVP award. She played on Valparaiso's NCAA Division 1 soccer team. Elected captain in 2009, she was named to the first-team *ESPN the Magazine* academic All-American for soccer in 2009.

Jaclyn was on the Valparaiso college of engineering dean's list for all her semesters.

She has been working to develop a point-vibration therapy device to help students limited by autism to assimilate into standard classrooms.

Elisabeth Linton, E.I.

ELISABETH, *Utah Gamma '08*, is a 2010 Tau Beta Pi Laureate for her achievements in the arts. She is a biological engineering bachelor and master of Utah State University, and was a 2007 TBPI Scholar, as



well as chapter Cataloger.

Libbie's artistic talent lies in music, as a singer. When asked to explain the relationship between engineering and music,

she replied: "Keeping a balance between science and art has never been a dramatic struggle. Research requires creativity and songwriting is benefited by objective analytical reasoning—and each one serves as a helpful break from the other."

While pursuing both her degrees at USU, she has recorded and released to music albums, arranged and recorded songs for two Deseret Books albums, founded her own label, and performed over 100 concerts.

Stephanie N. Zastrow

STEPHANIE, *Minnesota Alpha '11*, is a 2010 Tau Beta Pi Laureate for her achievements in athletics. President of her chapter, she is a mechanical engineering senior at the University of Minnesota-Twin Cities college of science and engineering.



Stephanie is an accomplished figure skater, has competed for 14 years at levels ranging from regional to nationals, and has over 100 medals. She is a five-time Minnesota state champion, two time alternate to nationals, and an international medalist. At 15 years of age, she became the 25th person in the world to pass the Ice Skating Institute's level 10 freestyle test.

Stephanie spends numerous hours volunteering at local skating rinks, coaching younger skaters and passing on her skills. She also volunteers as a judge at test sessions and competitions, as well as tutoring younger skaters in English and calculus, mentoring, and being a role model.



Ratified Amendment

Receiving 186 affirmative votes from chapters, the 2009 Convention amendment to the *Constitution and Bylaws of Tau Beta Pi* was ratified in April 2010.

The amendment to *require an Executive Council to take office within 11-14 months after its election* (Const. Art. III, Sec. 3(h)) is now effective.

The ratification letter and other chapter 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 website, or directly from Executive Director Jim Froula at Headquarters in Knoxville, TN.

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 write directly to Executive Director Jim Froula at Headquarters in Knoxville, TN.

2010 Distinguished Alumnus Dr. Merl Baker

IN RECOGNITION OF OUTSTANDING achievements, **Dr. Merl Baker, Kentucky Alpha '45**, is the 2010 Tau Beta Pi Distinguished Alumnus. He is retired after a distinguished career as an educator and administrator in higher education.

Dr. Baker is recognized as one of the pioneers in the teaching of engineering management. He worked to introduce subjects like organizational behavior and ethics, emphasizing “people skills,” and helping to liberalize the engineering curriculum.

Dr. Baker received his B.S. degree in mechanical engineering from the University of Kentucky. After a year in the U.S. Navy during WWII, he pursued an M.S. degree and a Ph.D. degree in mechanical engineering from Purdue University, completing them in 1948 and 1952, respectively.

His teaching career began as an assistant professor at the UK department of mechanical engineering in 1955. Dr. Baker was named in 1953 as the first executive director of the Kentucky Research Foundation, responsible for advancing the university's research programs and developing external funding, which increased tenfold under his leadership. He became director of international programs in 1955, coordinating the university's program with the U.S. Agency for International Development.

In 1963, Dr. Baker was appointed dean of the school of mines and metallurgy at the University of Missouri, Rolla, now Missouri University of Science and Technology, recognized at that time as one of the top schools of its kind. When the campus was reorganized in 1964, he was inaugu-

rated as its first chancellor. Heading the technological campus, Dr. Baker planned and presided over growth in faculty quality, enrollment, and physical facilities, including a new library and mechanical engineering building. Particular growth was noted in graduate and research programs. A college of arts and sciences and an engineering management department were established, along with 11 centers and a graduate engineering center in St. Louis.

Named special assistant to the president of the University of Missouri system in 1973, he conducted research into public higher education during the next three years.

Widely known and respected for his organizational management expertise and experience in heat transfer and energy conservation, Dr. Baker was appointed to key management positions at Oak Ridge National Laboratory from 1977 until 1982. He managed projects in energy policy and utilization, and prepared reports interpreting federal energy programs to aid utilities, and state and local governments.

In 1982, he was appointed provost at the University of Tennessee–Chattanooga, where he supported creation of a master's level engineering management program. Dr. Baker returned to teaching and research in 1984 as professor of engineering and engineering management and director of the center for professional career development.

His promotion of management education is credited with inspiring many academic leaders at a national level, and helping to diversify engineering. This is recognized with the Merl Baker award of the engineering management division of ASEE.



Association & Alumni News

USA Science & Engineering Festival

Tau Beta Pi is proud to be an official partner of the inaugural USA Science & Engineering Festival to be held in the greater Washington, DC, area in October 2010.

The festival, which will be the country's first national science festival, is a collaboration of more than 500 of the country's leading engineering and science organizations and aims to re-ignite the interest of our nation's youth in the sciences.

The culmination of the festival will be a two-day expo on the National Mall on October 23-24, 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 on the National Mall on both days of the expo. People across the country are encouraged to hold satellite events in their communities the same weekend to help celebrate the festival. For more information, visit www.usasciencefestival.org.



Student Spotlight

Garrett L. Harms, *New York Gamma '11*, has been selected to the *ESPN the Magazine* national academic All-America college division men's track & field & cross country second team. He has been a part of three conference titles at Rensselaer Polytechnic Institute and won the decathlon after just five events at the 2010 NYSCTC Championships.

Luke A. Mackewich, *Michigan Epsilon '10*, is a graduate student at Wayne State University. His dedication to improving drinking water systems on American Indian reservations led to him being recognized in a Michigan publication. Mackewich most recently was an intern with the Public Health Service's commissioned corps.

Andrew M. Maisano, *New York Upsilon '10*, has been named the 2009-10 Patriot League male scholar-athlete of the year. He was the captain of the men's lacrosse team at the United States Military Academy at West Point.

Virginia Tech's *Lumenhaus* team recently won top prize at the Solar Decathlon Europe. Their building entry "maximizes user comfort with environmental protection." These Tau Beta Pi members were a part of the winning team: Kenneth L. Neal, *Virginia Beta '08*, and Dr. Michael R. von Spakovsky, *Alabama Alpha '74*.

Alumnus Chapters

The Philadelphia Alumnus Chapter successfully hosted its first event in June and now has a [website](#). The San Francisco Bay Area Alumnus Chapter is holding registration for its fall events on its website: [click here](#). Efforts are being made to revive the Columbus, OH, Alumnus Chapter. Contact Headquarters if you are interested in learning more.

Alumnus Spotlight

The Houston-based subsidiary of Foster Wheeler AG has named Chris E. Covert, *Kansas Gamma '75*, as its new president and chief executive officer. Covert was most recently a VP

at the Fluor Corporation.

President and CEO of the Seattle Museum of Flight, Dr. Bonnie J. Dunbar, *Texas Epsilon '83*, recently hosted the groundbreaking of the new Human Space Flight Gallery. The gallery will compete to receive one of NASA's space shuttle orbiters after the retirement of the fleet in 2010.

Nuovation System Designs, LLC, is a new company founded by Grant M. Erickson, *Minnesota Alpha '96*, offering ambient dimming solutions for computers. Erickson has been featured as a young innovator in several recent publications. He advises students "to excel in the classroom and get involved ... and marvel at the doors that open before you."

Former professor at Rensselaer Polytechnic Institute, Dr. Achille Messac, *Massachusetts Beta '80*, has been named the new chair of Syracuse University's L.C. Smith college of engineering and computer science.

George L. Nemhauser, Ph.D., *Maryland Alpha '58*, is the master scheduler, profiled by *The Chronicle of Higher Education* for the business he started to help sports leagues schedule their games. The Georgia Tech professor and his company handle all scheduling for Major League Baseball and several collegiate conferences.

Media, Networking, & Partnerships

Keep up-to-date on TBP and engineering now at [TBP's HQ blog](#). Be sure to join Tau Beta Pi's official LinkedIn, Facebook, and [TBPCONNECT](#) (10,000 members & growing) groups. Visit the [member benefits page](#) for information about a new partnership with [KODA](#), the opportunity community.

TBPI-District Directors 2010

Timothy M. Edgar, CA A '08

TAU BETA PI WELCOMES **Timothy Edgar**, *California Alpha '08*, a new Director in District 14. He is currently a program manager at the Microsoft Corporation in Redmond, WA. In addition, Tim serves as an Advisor for the California Alpha Chapter of TBPI.



At the University of California, Berkeley, he served as California Alpha Chapter President during his senior year.

Tim is motivated to continue the tradition to ensure that future classes can experience the same welcoming community that he did.

He will split responsibilities for chapters in District 14 with Jeffrey A. Hester, *Washington Alpha '88*, and plans to attend the 2010 Convention.

Kassy M. Lum, KY A '10

TAU BETA PI WELCOMES **Kassy Lum**, *Kentucky Alpha '10*, a new Director in District 6. She is a teaching assistant at the University of Kentucky while she pursues a full-time mechanical engineering position. Kassy also serves as an Advisor for the Kentucky Alpha Chapter of TBPI and lives in Lexington, KY.



She spent two consecutive years as President of the Kentucky Alpha Chapter and was a member of the team that won the bid to host the 2012 TBPI Convention in Lexington.

She looks forward to applying her leadership and knowledge, gained from being the driver for the 2009 UK solar-car team and public relations officer for the UK engineering student council, to advise chapters.

Anthony M. Olenik, NY T '08

TAU BETA PI WELCOMES **Anthony Olenik**, *New York Tau '08*, a new Director in District 2. He has served as the Chief Advisor to the New York Tau Chapter since 2009. Currently, Anthony is employed as an engineer with BAE Systems.



A 2007-08 TBPI Scholar, Anthony lives in Vestal, NY.

He will offer support and oversee chapter activity for NY B, NY Γ, NY Θ, NY M, NY T, and NY Y.

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.

George Youssef, NJ G '01

TAU BETA PI WELCOMES **George Youssef**, *New Jersey Gamma '01*, a new Director in District 2 and a business manager with General Electric in Weehawken, NJ.



George is a former President of the New Jersey Gamma Chapter at the New Jersey Institute of Technology. He is also working in support of the College of New Jersey as it pursues a chapter of TBPI.

Having made a lasting impression as a student at the 2000 Convention, George was recommended for his new role. As a District Director, he plans to be actively

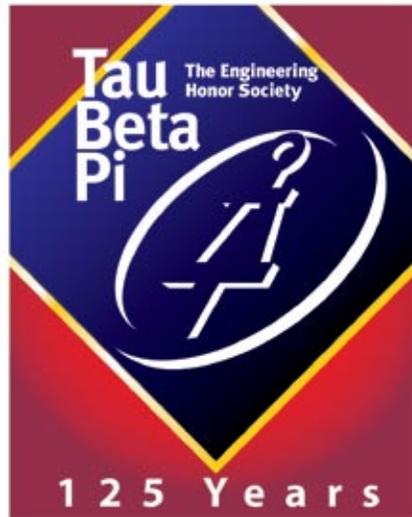
involved with the chapters and to regularly participate in District conferences and the Convention.

TBP Scholarships

The Tau Beta Pi Association Scholarship Program for senior-year study during the 2011-12 academic year will close March 1, 2011, when applications must be in the hands of Director D. Stephen Pierre Jr., P.E., Alabama Power Company.

Depending on our trust earnings, more than 150 cash awards, each worth \$2,000, could be given in our fantastic program. They will be made on the basis of high scholarship, strong recommendations, extracurricular activities, and financial need.

Only junior members of Tau Beta Pi are eligible to apply between November 1 and March 1 at www.tbp.org. Winners will be selected and notified in early April.



MindSET Grants

Your chapter may receive up to \$1,000 to conduct a project helping to educate local K-12 students in the STEM disciplines.

The money is available to chapters from Tau Beta Pi's MindSET Program, to involve young students in their communities and develop engineering modules that stress the importance of math and science.

Send your chapter's proposal to Headquarters. Application guidelines are in Section C-VI of the *President's Book* on the website.

Four chapters have received grants and 10 chapters are hosting MindSET sessions. Applications will be considered on a first-come, first-serve basis.

[Visit www.tbp.org/mindset]

Important Deadlines

- **January 31** Fellowship Application
- **February 1** Distinguished Alum Nom.
- **March 1** Scholarship Application
- **April 1** Outstanding Advisor, McDonald Mentor, and Laureate Nominations
- **June 1** Convention Bid for 2014
- **None** MindSET Project Proposal

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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 all around the country.

Be sure to bring at least six copies of your résumé, and submit your member's résumés to be included in the DVD given to recruiters by Sept. 15.

Scheduled recruiters include: NCEES, Raytheon, EMC, Sandia National Laboratories, ITT, MIT Lincoln Laboratory, Tyco Electronics, and more than 18 graduate schools. Arrive early on Thursday, October 7, at the Radisson Valley Forge hotel. To see the full list of attendees and to learn more about the Recruiting Fair, visit: tbp.org/Convention/Sponsors.