Member Input for New Strategic Plan Design

The ITEEA Board of Directors is working to create a new process and format for the development of a dynamic Strategic Plan taking effect after the upcoming 2015 conference in Milwaukee, WI. The Board’s goal is to engage all members, enabling them to provide their input on the strategic goals and actions developed in this plan for our new direction in delivering and leading technology and engineering education! Please be on the lookout for more information leading up to the conference regarding how you and others within our profession will have the opportunity to provide input and direction for the Association and the profession’s future!

Election Update

Congratulations to the following candidates for their willingness to represent the ITEEA membership as part of its Board of Directors. The professional and life members of ITEEA completed a balloting process and a new President-Elect and Directors for Regions I and III have been elected. Joining the ITEEA Board of Directors in March 2015 will be:

- **Jared P. Bitting, DTE** (President-Elect). Jared is a Technology and Engineering Education Teacher and Department Chair at Fleetwood Middle School in Fleetwood, PA.
- **Philip A. Reed** (Region I Director). Philip is an Associate Professor in the Department of STEM Education and Professional Studies at Old Dominion University in Norfolk, VA.
- **Michael A. Sandell** (Region III Director). Michael is a Technology and Engineering Educator at Chisago Lake High School in Lindstrom, MN.

Also joining the ITEEA Board of Directors are:

- **Rory (R.J.) Dake.** R.J. is Technology Education Program Consultant for the Kansas Board of Education. He will represent the Council for Supervision and Leadership.
- **Geoff Wright.** Geoff is an Associate Professor of Technology and Engineering Education at Brigham Young University and he will represent the Technology and Engineering Collegiate Association.

Thanks also to the other candidates for bringing such a wealth of experience and talent to the balloting process. By being part of the ballot, each of the candidates has demonstrated leadership in the field.

“SOMETHING’S BREWING IN MILWAUKEE”: CONFERENCE NEWS

CrowdCompass Mobile App for the ITEEA Milwaukee Conference

ITEEA is working hard to import all of the data associated with the upcoming Milwaukee Conference in order to have a highly interactive mobile user experience in March 2015. CrowdCompass will allow conference attendees to customize their event schedule, see speaker and exhibitor details, find booth locations, check out who else is attending, and more! Conference attendees will receive a personalized email inviting them to download the app and update their user profiles in late February. For a preview of the app’s functionality, watch the demo at [http://www.crowdcompass.com/resources/cms-app-walkthrough.shtml](http://www.crowdcompass.com/resources/cms-app-walkthrough.shtml)
Exhibitor Marketplace Update

The Exhibitor Prospectus, floor plan, Exhibitor Showcase schedule, sponsorship information, and contracts are available at www.iteea.org/Marketplace/marketplace.htm. You can also view a highlight video of the ITEEA Orlando conference. There are 15 spaces left. Please encourage interested parties to book now! For more information, contact Christine Maggio at cmaggio@iteea.org.

We need YOU to make it happen! Please send interested exhibitors/sponsors to the marketplace link.

ITEEA Conference Registration – less than two months left of EARLY REGISTRATION!

ITEEA Conference Registration is open to members and nonmembers. Encourage all to register early to receive discounts at http://www.iteea.org/Conference/registration.htm. Also, if you register early, you receive THREE raffle tickets for the Exhibitor Raffle scheduled on Thursday, March 27, from 5PM-6PM in the Exhibit Hall. We need YOU to make it happen!

Preliminary Conference Program

Take a sneak peek into ITEEA’s 77th Annual Conference and see what we’ve got brewing in Milwaukee: http://www.iteea.org/Conference/conferenceguide.htm.

AWARDS

ACTE’s Engineering and Technology Education Division Awards

Hearty congratulations go to the following ITEEA members who received awards from ACTE’s Engineering and Technology Education Division chaired by Paul Asunda (Purdue University). The awards were presented at the ACTE VISION conference in Nashville, TN on Friday, November 21st:

• Dr. Nathan Mentzer/Tanner Huffman/Hilde Thayer - The Outstanding Research Award – Faculty Member and a Graduate Student - “High school student modeling in the engineering design process”
• Diana V. Cantu - Neven Frantz Leader of Tomorrow Scholarship
• Dr. Cameron Denson - Silvius/Wolansky Outstanding Young Teacher Educator Award. Assistant Professor, Department of STEM, Technology, Engineering, and Design Education, NCSU

ITEEA Awards Update

Whether members are nominating their colleagues for a Special Recognition Award or applying themselves for the Distinguished Technology and Engineering Educator (DTE) or Emerging Leader (EL) awards, it is affirming to the staff to witness such enthusiasm and pride. In Milwaukee, we will be recognizing many exceptional and deserving educators who have dedicated their time to advancing the technology and engineering field in a variety of ways. Look for a listing of these awardees in the May/June issue of ITEEA’s Technology and Engineering Teacher journal.

MARKETING/PR/COMMUNICATIONS

ITEEA Marketing Kit: Who is ITEEA: and What is Technology and Engineering Education? (Update)

“ITEEA in a Box” is now complete, printed, and being distributed at key meetings to explain and leverage the strengths and potential behind ITEEA’s mission, membership, and professional efforts. In addition to a “branded” folder and inserts, the kit is designed to accommodate additional pieces such as selected issues of Technology and Engineering Teacher, Children’s Technology and Engineering, Executive Summaries of all ITEEA standards, and other pertinent materials. Anyone interested in acquiring these kits to promote and support your local program, should contact iteea@iteea.org.
Social Networking
ITEEA converted its Facebook page from a “person” to a “business,” which provides us with the opportunity to advertise from our page. We currently have over 1000 followers and a great deal of daily interaction. ITEEA’s Twitter page adds new followers almost every day. We currently stand at 2,172 followers and are regular “favorited” and “retweeted.”

Star of the Month
Since its inception in August, 2012, 31 STARS (one month was a triple recognition) have graced the ITEEA home page. The ITEEA “Star of the Month” program was initiated to recognize those teachers and ITEEA members who have done an outstanding job in the field. If you know someone who has performed at a high level for a long period of time, has done something innovative, or just simply goes above and beyond in their day-to-day job, please nominate them for “Star of the Month.” Visit http://www.iteea.org, scroll down to see the current Star of the Month, and click on “Nominate a Star of the Month” for more information.

We need YOU to make it happen!

Career Connection
As we transition into the New Year, remember that ITEEA posts job openings and resumes free for members. If you have an opening or you’re looking for a new opportunity, check out the Career Connection - http://www.iteea.org/Membership/CareerConnection/careerconnection.htm.

FORGING NEW PARTNERSHIPS

MakerEd
ITEEA, through a lead received from one of its elementary school administrator members, has made a noteworthy contact within the MakerEd organization. ITEEA and MakerEd’s interim Executive Director connected via conference call to share information and discuss how we can work together. This partnership could have a significant potential for our members and profession. MakerEd was formed in 2012 in response to President Obama’s “Educate to Innovate” campaign to move American students from the middle to the top of the pack in science and math achievement over the next decade. MakerEd plays a national leadership role in developing a maker network of institutions, youth-serving organizations, statewide afterschool networks, corporations, foundations, and makers seeking to accelerate and deepen the Maker Movement. MakerEd’s founding sponsors include Maker Media, Cognizant, Intel, and Pixar Animation Studios. Dale Dougherty, leader of the Maker Movement, CEO of Maker Media, creator of Make: Magazine and Maker Faire, is the visionary and Chairman of MakerEd. Maker Corps, MakerEd’s flagship program, is a catalyst for community change and is the linchpin of MakerEd’s ability to accomplish its goals. For more information on MakerEd, visit http://www.makered.org.

CRC Press, Taylor and Francis Group
CRC Press, Taylor and Francis Group functions as the principal science and technology book division of the Taylor & Francis Group, an Informa Company. CRC Press will be working with ITEEA to bring newly released (hot off the presses) and top-selling publications to ITEEA members at discounted prices. Members can find these offers in the latest edition of our STEM Connections newsletter. CRC Press, Taylor and Francis Group will also offer three such books for raffle at the ITEEA Conference. For more on CRC Press, visit http://www.crcpress.com.

National Academy of Engineering (NAE) - ONGOING
ITEEA is one of four national organizations to participate in the PreK-12 Engineering Education Online Toolkit project that also includes Achieve, Inc., National Science Teachers Association (NSTA), and American Society for Engineering Education (ASEE). ITEEA’s role as a partner in the NAE three-year Chevron-funded project is to help lead the development of a resource website to support efforts in the U.S. to teach engineering to K-12 students. NAE’s national committee has been working over the past year to develop a preK-12 Engineering Education Online Toolkit to provide more public awareness, classroom resources, as well as to connect preK-12 educators with experts in Engineering and Engineering Education. The “Beta” website is scheduled for release in the spring of 2015.
100kin10 Network
In October, ITEEA applied to be a partner within the “100Kin10” network. The “100Kin10” is a networked approach to providing America’s classrooms with 100,000 excellent STEM teachers by 2021 while supporting tens of thousands more. This program supports partners to reach the shared goal of 100Kin10 and achieve their unique, ambitious commitments in one of three strategic areas:
1. To increase the supply of great STEM teachers by recruiting and preparing more of them better;
2. To retain great STEM teachers by transforming how they are hired, supported, and developed, so that they continue to improve and inspire more students; or
3. To advance the goal of the 100Kin10 network by changing policy, telling the story, and funding the work over the long haul.

Partners are expected to contribute to the network in a variety of ways, including connecting their efforts to the national conversation on STEM teaching and learning. ITEEA’s primary focus will be on growing the national pool of new Technology and Engineering teachers, while supporting, coaching, and retaining those already teaching in our field. Partner applications are being reviewed over the next few months, and we will receive notification in January of 2015 of our partnership status. For more information, visit http://www.100kin10.org.

Safety Publication Collaboration (NSTA and ITEEA)
ITEEA member Tyler Love and NSTA safety expert Ken Roy teamed up to create ITEEA’s updated Designing Safer Learning Environments for Integrative STEM Education, a completely revamped, robust, interactive electronic publication. The publication has been promoted in an article co-written by Tyler and Ken and published in ITEEA’s Technology and Engineering Teacher publication; through an appearance by Ken on EduTalk radio in which he discussed safety in STEM labs; and in an article authored by Ken titled “Tooling Up for Safer STEM Activities” and written for NSTA’s Science Scope (available at no cost to ITEEA members who set up an account via the NSTA website -visit http://www.nsta.org/store/product_detail.aspx?id=10.2505/4/ss14_038_04_84). NSTA website -visit http://www.nsta.org/store/product_detail.aspx?id=10.2505/4/ss14_038_04_84). For more information about Designing Safer Learning Environments for Integrative STEM Education, including ordering information, go to https://iteeawp.crm4m.com/Purchase/ProductDetail.aspx?Product_code=4c92c264-3eac-e011-a8ab-0050569c61c9.

ITEEA MEMBERSHIP
ITEEA is always on the lookout for new members to join us.
We need YOU to make it happen! Please direct anyone who is interested to www.iteea.org/Membership/membership.htm

Annual Membership Survey Results
ITEEA’s annual membership survey was sent on October 9th to all active members. The survey included fifteen questions consisting of member demographics, member evaluation of current benefits, as well as recommendations for ways that ITEEA can support the delivery of high quality integrative STEM education. Over 50% of respondees have been members for more than 10 years. Some additional highlights: 81% said membership in ITEEA met their expectations, and over 70% would very likely recommend joining ITEEA to their colleagues. ITEEA “Members Only” will contain the statistical summary of this report when the final data is collected.
Corporate Members
ITEEA Corporate Members are committed partners who not only support the ITEEA mission but also exhibit, advertise, and sponsor many of our events. To see current ITEEA partners, visit http://www.iteea.org/Marketplace/corporatemembers.htm.

Institutional Members
Welcome NEW Institutional Members: SeaPerch, STEMy Stuff, LLC, University of Idaho, Mississippi Valley State University, and The STEM Academy!

ITEEA Institutional membership includes both colleges/universities and organizations/nonprofits. To see a list of current ITEEA Institutional members, visit http://www.iteea.org/Resources/institutionalmembers.htm.

Integrative STEM Department Memberships on the Rise
ITEEA Welcomes Every School in Albemarle County, VA for Group STEM Membership
A comprehensive proposal was presented to Albemarle County in VA for a GROUP Integrative STEM Membership for every school in the county, (16 elementary schools, 5 middle schools, and 4 high schools). The district-wide implementation includes a welcome letter to each of the identified contacts to familiarize them with the membership benefits as well as an “ITEEA School Mentor” (an existing Elementary School member in VA) that they can contact for questions. Albemarle County will also be listed on the ITEEA website as an “Integrative STEM Education District.” We look forward to growing this “district-wide” implementation. Please help us to identify other school districts that might be interested in being approached to take part in this initiative to build integrative STEM education networks with ITEEA’s leadership!

We need YOU to make it happen! Please send anyone who is interested to: http://www.iteea.org/Membership/middlehighstemmembership.htm

Current Membership Promotions
Membership promotions are ongoing and are updated periodically. Currently, ITEEA is offering the following member promotions:

• TSA Advisor - special reduced rate using current promotion code.
• Renewal of Expired Memberships - recipients received a personalized email with their unique password information and discount code. They need only log in and the discount will automatically be applied.
• State Conference - $10 off for new members.

Please be sure to always remind your colleagues to renew or join as new ITEEA members!

No-Cost Insurance Available to New Members
New members are entitled to receive $40,000 of group term life insurance for two years at no cost!
This 24-month life insurance benefit, underwritten by New York Life Insurance Company, is fully paid for by the Trust for Insuring Educators (TIES). Acceptance is guaranteed for new members ages 18 to 57, and there are no health questions to answer.

ITEEA strongly encourages new members to enroll online NOW (http://www.ftj.com/ITEEA/tlnm40/nm385tl) to activate coverage—it only takes a few minutes. Use offer code: NM385TL. Coverage is renewable after the initial two years at the regular association group rates upon your authorization and payment of the renewal premium. Full details are available on the enrollment website. This valuable new member benefit is available for a limited time only, so please complete your online enrollment without delay.
ITEEA OUTREACH

ITEEA is regularly involved in outreach efforts. Below are some key events that ITEEA participated in as well as upcoming planned events.

SEPTEMBER, 2014

ITEEA STEM CTL Holds Fall Leadership Forum
The annual Fall Leadership Forum for the STEM CTL Center for Teaching and Learning was held September 17-19 in Herndon, VA. Attendance was up this year, with 80% attendance from the consortium states (and their state teams) and invited representatives from Washington State and West Virginia as the Center looks to expand. Presentations from the three states with the highest growth—New York, Georgia, and Kansas—highlighted “Real” success stories on scaling up EbD in their States. As a product of the meeting, the consortium identified the need for a way to look at STEM in light of the T&E components. As a result, the Center will embark upon a new publication titled Integrative STEM Focal Points, The Premier Guide for Implementing Integrative STEM Programs. This Guide will be a landmark publication that will help everyone from state- and building-level administrators, parents, and teachers understand what Integrative STEM looks like in the classroom.

OCTOBER, 2014

Triangle Coalition’s 14th Annual STEM Education Conference—UPDATE
The opening session began with strategies to use for advocacy visits on Capitol Hill. ITEEA met as a Board both prior to and after the conference. This year’s theme was “Sustaining STEM: Maintaining the Movement, Widening the Circle”. The sessions primarily focused on building STEM partnerships while also focusing on creative ways to deliver STEM to minority and underserved populations. STEM teacher recruitment was another major focus of the presentations. We were able to network and connect with potential business partners such as “Microsoft Bing in the Classroom,” “Hands2Mind,” IEEE/USA, and the STEM division for the Department of Education. Triangle’s core strength and advantage for ITEEA and our profession is its ability to advocate for our field and help us network with government, business, and industry.

ITEEA’s 21st Century Leader Academy in DC
The ITEEA 21st Century Leader Academy (21CLA) “Leadership Development Experience” was held in Washington, DC. ITEEA members, Roger Hill and William Havice, are leading the group for the ninth consecutive year. The leadership and professional development program began with a variety of leadership-based presentations by Steve Barbato, Greg Pearson, Tanner Huffman, Ahsok Agrawal, and others from our field. Tuesday included a trip to the National Science Foundation for a private session with Program Director, Dave Campbell, and a visit to Capitol Hill. Bill Havice and Roger Hill have been doing a wonderful job of leading the excellent monthly professional development webinar sessions for the group and have dedicated a great deal of their professional efforts to support this important association work to develop our young leaders of the future!

National Science Foundation’s Advanced Technological Education Conference (NSF-ATE)
The NSF-ATE Conference took place in late October in Washington, DC. NSF created the ATE Program to improve and expand educational programs for technicians to work in “high-tech” STEM fields that drive the economy. The program is congressionally mandated and focuses on both the undergraduate and secondary school levels. The experience provided ITEEA with an excellent opportunity to build partnerships and connect with those in higher education with a focus on offering post-secondary opportunities to high school students entering into engineering technology programs.
Mississippi Valley State University
With a distinguished history of more than 100 years, MVTTEC is one of the oldest teacher education conferences in the U.S. As an invited guest, ITEEA Executive Director, Steve Barbato, presented and shared his thoughts on “Technology and Engineering Education’s Transition, Role, and Interface with the Maker Movement, Maker Education, and Fab Lab Programs.” Also of note, Michael Daugherty, ITEEA member and University of Arkansas professor of technology and engineering education, was installed as the eighth Life Chair of the MVTTEC. For more information on this appointment, visit http://news-wire.uark.edu/articles/25976/daugherty-installed-as-life-chair-of-mississippi-valley-education-conference.

Engineers Week 2015 Kickoff Webcast
DiscoverE hosted the 2015 Engineers Week Kickoff Webcast where it was announced that the theme for the 2015 EWeek will be “Engineering New Horizons.” ITEEA is thrilled to be receiving 2015 EWeek posters to disseminate to every print subscriber inside the February TET journal. The poster will be accompanied by a set of three design briefs (elementary, middle, and high school) provided by ITEEA’s STEM CTL.

The ITEEA STEM CTL Center for Teaching and Learning (STEM CTL) annual Curriculum Leadership Institute (CLI)
ITEEA’s STEM CTL National Teacher Effectiveness Coaches (NTECs) engaged in preparations for workshops and EbD-Labs offered at the 2015 ITEEA Annual Conference. The NTECs also prepared agendas, instructional materials, and developed “Membership Matters” that will be used for the 2015 Summer Institutes. ITEEA’s STEM CTL is pleased to welcome four new NTECs to the team. Joan Harper-Neely from Virginia will be working with the EBD-TEEMS Building Blocks for elementary schools. Blaire Booth and Chandra Porter, both from Georgia, will be working with the Ebd middle school courses. Lucretia Gant and Corey Booth, also from Georgia, joined the team as EbD high school facilitators. Additionally at the CLI, Judy Hawthorne was named Assistant Director for Materials Management, heading up the Center’s new Materials byDesign initiative. The STEM CTL professional development team is excited and motivated for the upcoming professional development season.

UPDATES FROM ITEEA COUNCILS

Children’s Council (CC)

- Elementary STEM Literacy Workshop, Wednesday, March 25, 2015, 1:00pm-4:00pm
- New, updated “STEM is Elementary” website – http://www.stemiselementary.com – now makes it easier to find resources, events, and professional development opportunities related to elementary STEM. Educators should also register to receive the “STEM is Elementary” newsletter when visiting the site.
- Online Elementary Course titled “Elementary Science and STEM: Integrating Elementary STEM Activities into the Elementary Science Curriculum” (includes one semester of college credit through Ashland University (OH)) begins January 12, 2015. For more information, visit https://www.dropbox.com/s/5hymin5qkhsfze/Course%20Description.pdf?dl=0

Council for Technology Engineering Teacher Education (CTETE)

CTETE Seeks Award Nominations
In an effort to promote and recognize excellence in technology teacher education, CTETE sponsors four awards programs: the Technology Teacher Educator of the Year award, the Outstanding Teacher Educator Program Award, the Outstanding Research Award, and the Silvius-Wolansky Award. These award programs are open to all CTETE members. The deadline for submissions is January 16, 2015. For more information, email Charlie McLaughlin at cmclaughlin@ric.edu.
ITEEA STEM CENTER for TEACHING AND LEARNING™

ITEEA STEM Center Goes Utah!
As a result of the STEM CTL’s successful bid to be a STEM supplier in Utah, the Center is engaged in completing the first phase of the Project. Tanner Huffman, Associate Director for Research, Special Projects, and Assessment, visited Davis School District to prepare the first wave of 7th and 8th grade teachers to use EbD’s 7th Grade Course, *Invention and Innovation*. Twenty-three teachers participated in the week-long session. In mid-January, Utah will also send six STEM leaders (science, technology and engineering, and math) to Dulles, Virginia to become Authorized Teacher Effectiveness Coaches, enabling them to provide the professional development for all of Utah. The two-year project will bring Davis School District and Utah into STEM CTL’s EbD Consortium.

ITEEA STEM Center for Teaching and Learning – Focal Points for Integrating STEM
In August STEM CTL held its Strategic Planning session with staff and members of the profession. Out of this meeting came an initiative known as Focal Points. The concept for Focal Points is to look at STL, NGSS, CCSS-Math, CCSS-ELA, and NAE’s Engineering Habits of Mind and strategically synthesize those concepts into Big Ideas/Enduring Understandings that would be found in an Integrated STEM Classroom. Additionally, the idea is to provide guidance for teachers, authors of STEM content, and parents/administrators as to exactly “what” STEM looks like in a classroom at each Grade. Presented to the Consortium at the Fall Leadership Forum, it was agreed that Focal Points would become a Consortium Deliverable for FY2016.