ITEEA Welcomes the Following New Staff:

- Danielle James, Membership, Sales and Marketing Coordinator
- Rose Ejiba, Accounting/Administrative Assistant

New 2019 ITEEA Conference Presenter Webpage Launched

Due to regularly increasing interest in presenting as part of ITEEA conferences, the association has created and launched a new webpage to make the presentation process as transparent and easy-to-navigate as possible. The updated presenter information page includes a complete timeline for presenters as well as a presenter information document and direct link to apply for both a regular interest session and the STEM Showcase. Additionally, the page includes a link to previous conference presentations and the ability to review meeting room information and a chart for easy access to presenters’ assigned rooms and times. **APPLY TO PRESENT IN 2019!**

ITEEA Computational Thinking Page Now Available

This resource provides a launching point upon which teachers can build in their technology and engineering classrooms. The intent is to identify promising computational thinking practices as part of instructional practices and demonstrate to the entire STEM community the value of quality technology and engineering education that classroom teachers provide to students each and every day. [Read more here.](#)

ITEEA-Endorsed Curriculum Helps Students Show Significant Gains in Computational Thinking

ITEEA’s STEM Center for Teaching and Learning™ (STEM CTL™) is a partner with Robomatter to be the certifying body for Robomatter Incorporated. [Read More.](#)
ITEEA Announces the Release of Learn Better by Doing Study Final Report

The Learn Better by Doing Study is a sampling of the extent to which U.S. public school elementary and secondary education science, technology, engineering, and mathematics (STEM) students were doing standards based, hands-on activities in their classrooms. Separate elementary, middle, and high school survey instruments were created by using Standards for Technological Literacy, Next Generation Science Standards, and Common Core State Standards for Mathematics. The instrument asked teachers if they assigned their students specific hands-on activities in their classrooms. From 2014 to 2017 more than 5,900 K-12 STEM teachers participated in the study. The study found that technology and engineering students were doing more standards-based, hands-on activities than were science and mathematics students. The Learn Better by Doing Final Report identifies other findings that illustrate how technology and engineering courses support students’ academic success, college preparation, and career readiness. The Learn Better by Doing Study was conducted by Dr. William E. Dugger, Dr. Kendall N. Starkweather, and Dr. Johnny Moye. Learn more about this project [here](#).

Awards & Announcements

ITEEA Member Jorge Valenzuela Receives ISTE Award

ISTE's Computer Science Network is excited to announce that Mr. Jorge Valenzuela is winner of the 2018 Computing Science Network Excellence Award. [Read more](#).

ITEEA 2018 "Veterans Make Great STEM Teachers" Scholarship Recipient Announced

ITEEA partners with Mastercam to recognize those who have served our country and are now committed to serving/teaching its students. [Read full press release here](#).

ITEEA Member Kelly Taylor among the STEM Teachers Selected as 2018-2019 Albert Einstein Educator Fellows

The Albert Einstein Distinguished Educator Fellowship (AEF) Program provides a unique opportunity for accomplished K-12 STEM educators to apply their extensive classroom knowledge and experiences to their host offices to inform federal STEM education efforts. [Read more](#).
ITEEA Recognizes Outstanding Educators at 80th Annual Conference

Outstanding technology and engineering educators and students were honored by ITEEA at its 80th Annual Conference held April 12-14, 2018 in Atlanta, GA.

Forty classroom educators and 39 programs at the elementary, middle, and high school levels received ITEEA’s Teacher Excellence Award and Program Excellence Award, the most prestigious awards given in recognition of Technology and Engineering Education Teachers and Programs. Read more.

ITEEA Names Senior Fellow and Senior Fellow Emeritus

Dr. Johnny J Moye has been named Senior Fellow at the 2018 ITEEA Atlanta conference. Dr. William E. Dugger, Jr., DTE, who retired as ITEEA Senior Fellow at the end of the 2018 Annual Conference in Atlanta, was named Senior Fellow Emeritus. Sadly, Dr. Dugger passed away just a month later. Read full press release here.

Glenallan Elementary School (Region 1) Featured on ITEEA Website: 2018 Program Excellence Awardee

Sponsored by ITEEA and Paxton/Patterson, the Program Excellence Award is one of the highest honors given to technology and engineering education programs at the elementary, middle, and high school levels.

The Program Excellence Award is presented in recognition of outstanding contributions to the profession and students. Awards are given to one program from each category from every state and are highlighted on the ITEEA website each month. To find out how you can nominate an exceptional program go to https://www.iteea.org/AwardsScholarships.aspx.

Natalie Boe (Region 3) Featured on ITEEA Website: Teacher Excellence Awardee

ITEEA is very proud of the exceptional teachers and programs we serve and recognize at the ITEEA Annual Conference each year. Congratulations to teacher Natalie Boe from Washington Elementary School (ND), for being our June awardee. To find out how you can nominate an exceptional teacher go to www.iteea.org/AwardsScholarships.aspx.
ITEEA’s STEM CTL™ and National Institute of Aerospace Associates Create Partnership (NIA)

ITEEA’s STEM Center for Teaching and Learning™ and the National Institute of Aerospace Associates have recently established a collaborative partnership providing an exchange of expertise, academic information, and materials that will benefit both organizations and the education communities they serve. The vision of NIA’s Center for Integrative STEM Education (CISE) is to be a catalyst for educational solutions and reform that equip K-12 students to be career-, college-, and citizen-ready in the 21st century. This work is accomplished through professional development, graduate education, integrative STEM resource design and development, and design and implementation of engineering design challenges. Much of CISE’s efforts are developed in collaboration with NASA. One such project is the NASA OPTIMUS PRIME Spinoff Promotion and Research Challenge (OPSPARC). Spinoffs are like OPTIMUS PRIME—they come from space to solve problems on Earth. For OPSPARC, students learn more about NASA technology and use their ingenuity to create spinoffs that will make their world a better place. Students in Grades 3-6 explore new uses for everyday objects while students in Grades 7-12 engineer new uses for NASA technology. Promotions for OPSPARC have been sent out from ITEEA through the News section on our website, through our social media outlets, and posted on IdeaGarden.

ITEEA STEM CTL: EbD™ Foundations of Technology (FoT) Algebra Project Proposal

ITEEA’s STEM CTL™ submitted a proposal to its Texas Instruments partnership team for the development of a modified version of the 9th grade EbD™ course, Foundations of Technology, to be focused on supplementing existing Learning Cycles and design challenges with targeted content and instruction to improve students’ algebra knowledge and skills. An initial three-year plan was proposed for developing and revising content, collecting data for monitoring success, and disseminating findings in partnership with TI and at least one research institution, providing support for participants in the pilot group of teachers and teacher trainees, and expanding the reach of the course beyond current ITEEA membership and EbD™ Consortium. We believe that educators within our profession and those in the broader STEM content areas would benefit from this Integrative STEM Education (I-STEM Education) approach to the EbD™ FoT course. Ultimately, the result will be students with an improved understanding of how technology and engineering utilize essential mathematics and science skills used in everyday life! This initiative is proposed to begin during the 2018 summer.

ITEEA STEM CTL: EbD™ Project for Engaging Preservice Teachers Through Higher Education Programs

ITEEA STEM CTL™ launched an initiative to provide complimentary EbD™ Network School access to teacher education programs interested in using the EbD™ PK-12 curriculum in their preservice teacher training. The goal is to familiarize preservice teachers in STEM education with the EbD™ curriculum so they will elect to use this resource in their classrooms after graduation. The pilot group of 15 teacher prep institutions has been granted access to the curriculum in EbD-BUZZ™. Additional institutions are being added upon request. This initiative was publicized for adoption during the 2018 conference.
ITEEA’s STEM CTL™ Conference Highlight: Texas Instruments Training at ITEEA’s 80th Annual Conference

ITEEA STEM CTL™ personnel, along with representatives from Texas Instruments (TI) held training opportunities for ITEEA conference attendees, as well as for a select group of Engineering byDesign™ National Teacher Effectiveness Coaches (EbD™ NTEC). David Santucci, Director of Product Management and Erick Archer, Market Strategy and Programs Manager, kicked off the event by assisting Dr. Nathan Mentzer, Purdue University and an EbD™ NTEC, with the newly released EbD™ course, Advanced Technological Applications (ATA), during a preconference workshop. ATA challenges students to use design processes to think, plan, design, and create solutions to engineering and technological problems. Participants were actively involved in the organized and integrated application of technological resources, engineering concepts, and scientific procedures. The 2017-18 revision includes units on Engineering Design Graphics and Spatial Skills, Cybersecurity, Information Technologies, Biotechnology, and Robotics.

Workshop participants programmed an autonomous car using the TI Nspire Calculator, the Innovator Hub, and the Rover. David and Erick also held training sessions for Chris DeHaan and Matt Plummer, teachers of the EbD™ Engineering for All (EfA) course and EbD™ NTECs. Ryan Novitski, an EbD™ NTEC who will deliver the professional development training for AT4 this summer, also joined this group to begin his training with the equipment. Chris and Matt are part of a cohort developing enrichment lessons for the EfA course using the TI equipment employed in the ATA workshop. The EfA course for middle school enables students to develop predispositions to forge a sustainable future and learn that engineering is a route to engage in socially significant work. EfA contains two units, Water: The World in Crisis and Vertical Farms: Fresh Food for Cities. Chris and Matt are also going to provide TI with input on a water quality project that is currently in development at TI. They will also provide feedback on the Path to STEM project lessons and will receive additional equipment to complete those lessons. Chris, Matt, Ryan, and Nathan are members of a specially designed Google Group for TI-Innovator users. As part of this group, they can post questions and comments to the group for response. Additionally, David and Erick hosted two well-attended Action Labs featuring the autonomous car activity presented in the ATA workshop. David and Erick are enthusiastic about future collaborations and we will continue to brainstorm projects with TI that align with the EbD™ curriculum.

UPDATES FROM ITEEA COUNCILS

ITEEA Elementary STEM Council (Formerly ITEEA Children’s Council) Request for Officer Nominations

On July 1, 2018, the Children’s Council becomes the Elementary STEM Council and Children’s Technology and Engineering will become The Elementary STEM Journal. The journal name changes to reflect the Council name with an emphasis on a broader definition of STEM.

ITEEA’s Elementary STEM Council (formerly ITEEA Children’s Council) will be electing a President-Elect and Vice President of Communications. The election winners will assume their new roles at the conclusion of the ITEEA Elementary STEM Council general session at the 81st Annual ITEEA Conference in Kansas City on March 30, 2019. Candidates must be professional members of ITEEA and the Elementary STEM Council and have been a member for two years. If you would like to serve in one of these positions or would like to nominate a qualified individual, please send the name and contact information to Lisa Moyer at kendall1@vt.edu by July 1, 2018. Self-nominations are encouraged.

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