Collaborating to Build a Diverse STEM-Literate Society

International technology and engineering educators association 2016 annual conference

Preliminary Program
On behalf of the Board of Directors, ITEEA Headquarters staff, and the Conference Planning Committee, it is with enormous pride and excitement that I invite you to attend and participate in the 78th Annual Conference of our association. This year's conference will be held March 2-4, 2016, in National Harbor, Maryland, just outside our nation's capital.

The theme for the 2016 conference is **Collaborating to Build a Diverse STEM-Literate Society**. It represents a lofty and noble goal for our profession and nation, and one that requires the leadership of technology and engineering educators if it is to be achieved. While it is always important that we advocate for technology and engineering education in our schools, it is also imperative that we do so in collaboration with like-minded individuals and organizations in support of Integrative STEM Education. This year's theme and location for the ITEEA Annual Conference will set the stage for an educational and inspirational meeting of our members, partners, and guests (future members). Together, we will share and learn ways to build a diverse STEM-literate society through the four conference strands:

1. Supporting educator collaboration to foster college and career readiness
2. Meeting the needs of diverse learners through collaborative instruction
3. Developing student collaborations to increase STEM learning
4. Scaling meaningful partnerships through community collaboration

This year's conference also provides many opportunities to become involved or continue to serve as an active and engaged member of ITEEA. For members interested in serving on a committee or review board, plan to attend the annual session of these work groups to be part of the behind-the-scenes team of dedicated educators that help ITEEA provide valuable membership benefits. For members interested in guiding the future direction of ITEEA, plan to attend the annual Governance Session to learn about the Strategic Plan, the important work of Task Forces, and discover how to become involved in the process. In addition, attendees looking for K-12 curriculum solutions for their classroom or school will want to attend Engineering byDesign Labs™ to learn how to implement the latest research and innovations from ITEEA's STEM™ Center for Teaching and Learning.

As in previous years, ITEEA will continue to offer time-tested and recently added events and activities that have been well-received by attendees. The ITEEA STEM Showcase will feature successful practices and programs of teachers, teacher educators, and schools. An Administrator Strand will provide professional development to meet the needs of educational leaders seeking to learn more about technology and engineering education and Integrative STEM Education. The Exhibit Hall will be packed with exhibitors showcasing products and services in support of technology and engineering education and STEM. This will also be the location for a number of special events throughout the conference. Moreover, we will recognize and celebrate the accomplishments of our members through a variety of awards and special honors during the conference such as Teacher and Program Excellence, Emerging Leaders, Distinguished Technology and Engineering Educators, scholarships, and recognition of service.

The ITEEA Annual Conference is always the perfect opportunity for professional learning focused on technology and engineering education and Integrative STEM Education, networking, reconnecting with colleagues and friends, and forging new partnerships and collaborations. It is a time for personal and professional reflection and a chance to reenergize through the premier shared experience of our profession. Plan now to join us for the 2016 ITEEA Annual Conference. We look forward to seeing you in National Harbor!
Collaborating to Build a Diverse STEM-Literate Society

The annual ITEEA conference provides an unparalleled opportunity for technology and engineering educators to gain comprehensive professional development and networking experiences. ITEEA members pay a reduced rate to attend and can choose from dozens of interest sessions, workshops, and social events. This is a unique opportunity to learn from and share with other technology and engineering STEM education professionals in a variety of formats.

2016 ITEEA Conference Highlights

ITEEA STEM Showcase

Highlighting Best Practices Through Integrative STEM Education!

The Teaching Technology and Engineering STEM Showcase provides an excellent forum to feature an idea, technique, or best practice related to learning activities, marketing materials, career guidance, facility design, program design, assessment methods, equity, or classroom and laboratory management techniques. Showcasers are asked to illustrate a single element of technology or engineering teaching and learning that they feel they have exemplified.

The presenter application deadline has passed, but be sure to join us in the Exhibit Hall on Wednesday afternoon, March 2 for this exciting event. See page 8 for details, or contact Katie de la Paz at kdelapaz@iteea.org for additional information.

Administrator I-STEM Education Professional Development Strand

Bring your Administrator at no additional cost (sponsored registration). A special strand of presentations will be offered that are designed for Administrators to build understanding and support for your program! See page 12 for additional information.

Keynote Address by Retired Col. Geoffrey Ling, MD, Ph.D.

Dr. Ling is the founding director of the DARPA Biological Technologies Office. His Revolutionizing Prosthetics program developed advanced arm prostheses controlled either noninvasively or directly by a user’s brain. His Preventing Violent Explosive Neuro Trauma program developed new understanding and treatment of blast-induced traumatic brain injury (TBI).

Global Vision Tour at Lockheed Martin

The Lockheed Martin Global Vision Center (GVC) is a state-of-the-art meeting and collaboration facility. It stands as an impressive 86,000 square-foot engagement space with a 160-seat auditorium, nine meeting rooms, and six Demonstration Centers. From global security to commercial markets to scientific discovery, the Lockheed Martin GVC highlights how we’re helping the future arrive.

Teacher Leadership Workshop Opportunities

Prior to the official start of the ITEEA conference, take advantage of a variety of workshop opportunities. Experienced presenters will share their knowledge on topics such as improving students’ design thinking and programming skills, finding strategies for integrating STEM into schools, and using problem-based learning and problem solving to address STEM topics with elementary students. See pages 14-15 for complete workshop descriptions, times, and pricing. Workshops fill quickly, so sign up today!
The Defense Advanced Research Projects Agency (DARPA) continues its mission to conduct scientific research that challenges the limits of science and engineering as well as the limits of the imagination. To do this and more, DARPA depends on today's teachers to prepare tomorrow's scientists and engineers. Beyond the traditional biology, chemistry, physics, and mathematics areas, today's educators will now need exposure to biomedical engineering, material science, robotics, neuroscience, system biology, nanotechnology, informatics, and more.

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Dr. Ling has spent his career providing critical care to patients suffering from neurological trauma. He served as an officer in the United States Army Medical Corps for 27 years before retiring as a Colonel in 2012. As a military neurointensive care physician, he deployed with the 44th Medical Command (Airborne) to Afghanistan in 2003 and Iraq in 2005. At the direction of the Chairman, Joint Chiefs of Staff, Col. Ling deployed on four “Gray Team” missions to Iraq and Afghanistan to evaluate and recommend improvements to war-theater TBI care.

In addition to his former role at DARPA, Dr. Ling serves as a Professor of Neurology, Anesthesiology, and Neuroscience at the Uniformed Services University of the Health Sciences. He is an attending neurocritical care physician at Johns Hopkins Hospital and is board certified in both neurology and neurocritical care. From 2012-2013, he served as the Assistant Director for Medical Innovation of the Science Division at the White House Office of Science and Technology Policy. He is a fellow of the American Neurological Association, the American Academy of Neurology, the Neurocritical Care Society, and the Society for Neuroscience.
Teacher Excellence General Session

Thursday, March 3
9:00am–10:50am
Woodrow Wilson Ballroom
Featured Speaker: Andre W. Thornton
Senior Manager for Technical Leadership Programs
Lockheed Martin, Information Systems and Global Solutions

Building Innovators Today to Better Serve Tomorrow

STEM innovations continue to evolve at an accelerated pace and impact the world in which we live. In addition to the technical ability, having the business and social skills needed to lead the evolution is increasing in importance. This discussion will focus on inspiring and preparing the next generation of innovators that businesses require today and will need even more tomorrow.

Andre W. Thornton is the Senior Manager for Technical Leadership Programs at Lockheed Martin’s Information Systems and Global Solutions. In this role he is responsible for creating and leading the strategy that is charged with developing the next generation of technical leaders in his business.

Since joining Lockheed Martin in 1998, Mr. Thornton has advanced through various positions with the company. His breadth of experience includes serving as an Independent Research and Development Project Manager where he implemented a new Computer Aided Design technology that resulted in savings of more than $2M, to being a New Business Lead where he led international capture efforts resulting in over $1B of orders for the corporation. Most recently he was the Mission Operations Capability Director where he provided leadership and strategic direction for more than 2,000 employees worldwide.

Mr. Thornton has received numerous awards for technical and leadership excellence including the LM Aero Star Award (three-time recipient), LM Eagle Award, and the national Black Engineer of the Year Special Recognition Award.

Mr. Thornton serves as a mentor and is an active member of his community. He is a staunch supporter of Big Brothers/Big Sisters and has served as a Board Member for The Bridge Emergency Youth and Family Services organization. He is currently Board Chair for the non-profit Excel to Excellence, Inc. and recently co-founded U.N.C.L.E.—Unified Need for Courageous Leadership and Empowerment. This organization is focused on mentoring at-risk youth by continuously transferring knowledge and experience to help young men reach their full potential.

A native of Richmond, VA, Mr. Thornton holds a bachelor’s in Mechanical Engineering from the Virginia Military Institute and a master’s degree in Business Administration from the Georgia State University Robinson School of Business.
Some Perspectives to Link Research in Education and Teacher Education in a Global Project for University

Jacques Ginestié is a professor at Aix-Marseille Université, France's largest university. He is the current Director of the ÉSPé in charge of teachers’ education for primary and secondary school. He manages a research unit that conducts investigations in education as well as the research federation FED 4238 SFERE-Provence, which coordinates activities of 16 research units on the theme “Learning and Education.” As the founder of Gestepro, he develops research in Technology Education notably about the efficiency of teaching-learning processes, with a particular interest in the role of technical languages in the transmission of technological knowledge and for the interactions between teacher, student, and knowledge. Professor Jacques Ginestié has focused on teacher education and impacts on educational systems or educational policies. He is a member of several edition committees of international reviews, scientific committees, and academic societies. He serves as an expert for many institutions including Unesco, World Bank, and AUF, as President of the R-ÉSPé (National Association of the French ÉSPÉ), and President of the RAFFET (Association of African Teacher Training Institutions). He is author or co-author of many publications in English and in French.
Featured Meal Function Events

FTEE “Spirit of Excellence” Breakfast
Thursday, March 3
7:00am–8:45am
Annapolis 3/4

Featured Speaker:
Ayodele J. Alade, Ph.D., Dean
School of Business and Technology
University of Maryland Eastern Shore

Introduction: Derrek Dunn
Cost: $40; ticket required

Technology and Engineering Education in the State of Maryland: Challenges and Opportunities

In the United States, technology and engineering education is relegated to nothing more than just an elective course across most institutions. It is given top consideration as a required course in only seven states. In the State of Maryland, technology education is mandated as a high school graduation requirement. Dr. Alade will address current trends in American education and, in particular, how they impact technology and engineering education.

University host:
University of Maryland Eastern Shore

EPT Breakfast
Friday, March 4, 2016
7:00am–8:45am
Woodrow Wilson Ballroom A
Cost: $40; ticket required

This gathering of ITEEA’s official honor society is open to all conference participants.

Speakers:
The EPT Board of Directors

ITEEA Awards and Recognition Brunch
Friday, March 4, 2016
10:15am–11:45am
Woodrow Wilson Ballroom A

Featured Speaker: Jared P. Bitting, DTE
Cost: $50; ticket required

Expect to make new friends, learn who are considered current and future leaders, and position yourself for being in the know when it comes to helping your colleagues adjust their programs in the right direction. Meet the new ITEEA President. Learn about the new strategic directions for the field. Network with your fellow leaders. Celebrate excellence. Most of all, have a good time!

Awards Dinner and Closing Ceremony
Thursday, March 3, 2016
6:00pm-8:00pm

Woodrow Wilson Ballroom B/C/D
Cost: $55; ticket required

The Awards Dinner and Closing Ceremony recognizes the winners from the various competitions at the conference, outstanding chapters and members, as well as the accomplishments of TEECA during the 2015-16 year. A buffet dinner (included in student conference registration) will be served before the awards. Teaching professionals and others are welcome to attend this special evening.

(Banquet ticket included in Student Registration Package. Use the ITEEA Registration Form to purchase additional tickets.)
The STEM Showcase is an exhibition of best practices in the teaching of technology and engineering education.

Why participate?
The ITEEA STEM Showcase:
• Puts your school and program on the map as others capitalize on YOUR best practices.
• Encourages others to learn from the best.
• Brings teachers and ideas together!

Who should participate?
Showcasers include, but are not limited to:
• K-12 technology teachers (Program and Teacher Excellence Award winners are strongly encouraged to participate)
• Teacher educators
• Administrators
• Undergraduate and graduate students and informal educators
• TSA Advisors

What should I showcase?
The Showcase provides a forum to feature an idea, technique, or best practice related to learning activities, marketing materials, career guidance, facility design, program design, assessment methods, equity, or classroom and laboratory management techniques. Showcasers are asked to illustrate a single element of technology and engineering teaching and learning that they feel they have exemplified.

Showcase requirements
Please bring any materials that will “show and tell” your best practice (in addition to submitting materials in electronic format). Such items may include photographs, posters, student work, teacher-made products, video clips, brochures, handouts, or any other item you would like to share.

The 2016 STEM Showcase will also feature Poster Presentations by members of ITEEA’s Council on Technology and Engineering Teacher Education.

The deadline for submitting presentations has passed, but you can still plan now to attend the ITEEA STEM Showcase in Washington, DC where over 100 presenters will be demonstrating their best practices. It is sure to be an exciting event! For more information, contact Katie de la Paz at kdelapaz@iteea.org.

To register for the conference, visit www.iteea.org/Activities/1307/ITEEA_Conference_2016/Registration_2016.aspx. After February 7, 2016 registration will be at on-site prices. After February 24, registration will be on-site only.
Tour programs depart from and return to the Gaylord National Convention Center. Be sure to check the on-site program for complete details. Participation is limited on each tour, first-come, first-served, so register early. Due to the limited availability of these educational tours, you must be a fully registered conference attendee in order to qualify for participation. Most tours have a maximum of 45 participants. Please register early to secure your place on the tours.

**Wednesday**

**Global Vision Tour at Lockheed Martin**

Wednesday, March 2, 2016
12:30-4:30pm
Transportation: Charter Bus

The Lockheed Martin Global Vision Center (GVC) is a state-of-the-art meeting and collaboration facility located in Arlington, VA. It stands as an impressive 86,000 square-foot engagement space with a 160-seat auditorium, nine meeting rooms, and six Demonstration Centers. From global security to commercial markets to scientific discovery, the Lockheed Martin GVC highlights how we're helping the future arrive.

Capacity: 50
Price: $50

**National Mall Tour**

Wednesday, March 2, 2016
12:30-5:00pm
Transportation: Charter Bus

The National Mall, also known as America’s Front Yard, has a lot to offer! Explore the Constitution Gardens, the Franklin Delano Roosevelt Memorial, the Jefferson Memorial, the Korean War Veterans Memorial, the Lincoln Memorial and Reflecting Pool, the Martin Luther King, Jr. Memorial, the Vietnam Veterans Memorial, the Washington Monument, and the World War II Memorial. There are five Smithsonian Museums located on the National Mall if you prefer an indoor adventure!

Capacity: 45
Price: $40

**Thursday**

**Mount Vernon Tour**

Thursday, March 3, 2016
12:30-4:30pm
Transportation: Charter Bus

Mount Vernon is an American landmark and an enduring tribute to the Father of Our Country. One of the nation’s most beloved historic sites, Mount Vernon offers a glimpse into 18th-century plantation life through beautiful gardens and grounds, intriguing museum exhibits, and immersive programs honoring George Washington’s life and legacy. This self-guided tour includes entrance to the mansion and historic area, the Ford Orientation Center, the Donald W. Reynolds Museum and Education Center, and the Distillery & Gristmill.

Capacity: 45
Price: $50

**Sustainable DC Tour**

Thursday, March 3, 2016
12:30-5:00pm
Transportation: Charter Bus

In just one generation—20 years—the District of Columbia aims to be the healthiest, greenest, and most livable city in the United States. Join us on a tour in which we will demonstrate how DC is working to enhance our natural and built environments in an effort to create an educated, equitable, and prosperous society. Visit the greenest school in the United States of America and learn how the District is designing sustainable outdoor environments like Canal Park! Tour these and more with local and national experts in sustainable design and architecture and learn more about how these initiatives connect with the District’s Environmental Literacy Framework in the classroom.

Capacity: 35
Price: $50
Professional Development

Professional Development Learning Session Highlights

Over 100 Professional Development Learning Sessions will be conducted at this year's conference. Most sessions are 50 minutes in length and occur on Wednesday, Thursday, and Friday. Listed below are a few highlights of each day; the complete list of session titles will appear in the full conference program.

**Wednesday**
- Technology Education Across the Globe
- Advancing STEM Skills in School Makerspace
- eMentorship: Telecommunication in the 21st Century
- Involving Young Women in STEM Technology
- "Robot Challenge" Makes Students Think Like Engineers
- Medical Applications for 3D Printing

**Thursday**
- Quadcopters: STEM Collaboration in Classrooms and Competitions
- Coding for K-5 Teachers and Their Students
- Technology Education and the Maker Movement
- Learning by Doing Study – Years One and Two Results
- Teaching STEM Using Underwater Robotics with LEGO®s
- Student Engagement through Design and STEM Education

**Friday**
- Girls and STEM
- Creative Techniques for Young Inventors
- Competitive Robotics: Fostering Collaboration
- IBET: A Thomas Jefferson HS for Science and Technology Cornerstone
- Getting Your Counselor to Support Technology Education
- What Great Schools Do – Learning from Exemplars

The 2016 Conference also features five panel sessions, providing a variety of perspectives on the following topics:

**Wednesday**
- 3D Printing is Changing the Way We Think
- It's Elementary! Good STEM = Good STEAM and Vice Versa
- Integrative STEM Education: A Catalyst for Bringing STEM to Life! (two panels)

**Thursday**
- Technology and Engineering Design – Learning by Doing!
- Robotics Through Technology and Engineering Education

**Friday**
- Technology and Engineering Design – Learning by Doing!
- Robotics Through Technology and Engineering Education

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The PATT/International Sessions are directly related to the theme of the overall conference. These sessions specifically aim to present and discussing papers (1) from a variety of countries and (2) with a research character. As such, the PATT sessions function as a research-oriented international subconference of the ITEEA Annual Conference. PATT sessions offer U.S. ITEEA members an opportunity to get an orientation of what goes on in the rest of the world in terms of technology education developments. For international participants, the International/PATT sessions offer a comfortable combination of an international meeting and the opportunity to see developments in the USA by also attending other ITEEA sessions.

Proceedings of previous PATT/International conferences can be found on the ITEEA website:

www.iteea.org/Conference/pattproceedings.htm
EbDLabs™ provide an excellent opportunity for teachers and other educators to experience one of the Engineering byDesign™ (EbD™) courses in a workshop environment. Comprehensive professional development is provided for each course or instructional component. Whether or not you are in a Consortium state, whether you are currently teaching an EbD™ course or just want to find out more—these workshops are not to be missed. All EbDLabs™ will be hands-on, minds-on, preparing teachers with the fundamentals necessary to implement the materials.

All sessions will be held at the Gaylord National Hotel and Convention Center.

Wednesday, March 2, 1:00pm–4:50pm
Middle School EbDLab™
Invention and Innovation, Third Edition
Invention & Innovation (I&I) is a new version of the 7th Grade Core course. Participants will be introduced to the new content as well as the new EbD Platform. This workshop is an overview with hands-on activities.
Computer/SmartDevice required.

Middle School EbDLab™
Exploring Technology, Third Edition
Exploring Technology (ET) has been updated with new content by popular demand. The workshop will provide participants an overview as well as hands-on activities.
Computer/SmartDevice required.

Middle School EbDLab™ (Free EbDLab™)
Engineering for All—Food
FOOD: Vertical Farming – Feeding 9 Billion People, is a new Middle School 6-week unit developed as part of the Engineering for All project. Using NGSS in the T&E classroom, participants will use food as a context for learning engineering.
Computer/SmartDevice recommended.

High School EbDLab™
Foundations of Technology, Online
The Foundations of Technology (FoT) Student Online Version workshop will introduce participants to the content on the online course. This workshop will be hands-on, as well as online. Registration Fee: $50
Computer/SmartDevice required.

High School EbDLab™
Technological Design, Third Edition
Technological Design is part of the EbD Core High School Program. This session is hands-on and prepares participants with the fundamentals of implementing the course.
Computer/SmartDevice required.

Thursday, March 3, 1:00pm–4:50pm
Elementary School EbDLab™
EbD-TEEMS™: Grades K-6
EbD-TEEMS has been updated to incorporate the Next Generation Science Standards. This workshop will overview all Building Blocks in Grades K-6 with hands-on activities.

Middle School EbDLab™
Technological Systems, Third Edition
Technological Systems is the 8th grade course in the EbD Middle School Core sequence. Workshop participants will use hands-on activities to learn about the course content and implementation strategies.
Computer/SmartDevice required.

Middle School EbDLab™ (Free EbDLab™)
Engineering for All—Water
Water: The World in Crisis, is a new Middle School unit developed as part of the Engineering for All project. The unit incorporates NGSS in the T&E classroom by using Water as a context for learning engineering.
Computer/SmartDevice recommended.

High School EbDLab™
Advanced Design Applications
Advanced Design Applications has new units in SeaPerch and EPICS as well as concepts to articulate to post-secondary Engineering Technology programs. This workshop will highlight those changes.
Computer/SmartDevice required.

High School EbDLab™
Engineering Design, Third Edition
Engineering Design, the EbD Core Capstone course, has been updated with content that articulates with Engineering Technology at the post-secondary levels. This hands-on workshop will cover an overview of the complete course.
Computer/SmartDevice required.
Professional Development

STEM Leadership PreK-12 Sponsored Administrator Strand

ITEEA invites administrators to attend the 78th Annual Conference at NO REGISTRATION COST. Administrator registrations are sponsored and FREE to the first 50 registrants! Come and see what your teachers are learning and experiencing at our conference. But don’t stop there. ITEEA is offering a specifically designed STEM leadership session strand for educational administrators. This is a unique opportunity to network, bring back knowledge to your school, and implement effective K-12 Integrative STEM Education instruction.

ITEEA’s 78th Annual Conference in Washington, DC is both a meeting and exhibition event where teachers, teacher educators, and supervisors come together to share ideas, network, and learn. Some of the 2016 highlights include:

- I-STEM FocalPoints – STEM CTL Center for Teaching and Learning (STEM CTL)
- LinkEngineering – National Academy of Engineering
- Research on the T&E of STEM – Council on Technology and Engineering Teacher Education (CTETE)
- STEM for All – Whole School STEM Engagement – Council for Supervision and Leadership (CSL)
- I-STEM Standards-Based Models – STEM CTL
- Integrative STEM Education Opportunities – Purdue University
- Finding STEM Resources for Your School or District – STEM CTL
- Engineering for All – Water: The World in Crisis (NGSS)

This conference is a unique opportunity for administrators to build understanding and support for programs—as well as to see firsthand how ITEEA’s member-educators Bring STEM to Life!

Preliminary Schedule – STEM preK-12 Administrator Strand

GOALS:
1. Identify exemplars for how Technology and Engineering Bring STEM to Life
2. Showcase examples of Integrative STEM – EbD™

Tuesday, March 1, 2016

9:00 am – 4:00 – Integrative-STEM FocalPoints Workshop
Participants will get the first glimpse of a new standards-based model for integrating STEM through Integrative-STEM FocalPoints™ and how they can drive school reform. The workshop will focus on validating STEM content across Science, Technology and Engineering, Mathematics, English-Language Arts and Engineering Habits of Mind.

Presenters: Suzanne Bevans, Principal, Henderson Elementary and Matthew Cathell, Professor, The College of New Jersey
Registration $145 per person includes lunch.

6:00-7:00pm – CSL President’s Reception
(Sponsor TBA)
Join the Council for Supervision and Leadership for light hors d’oeuvres and network with STEM administrators from around the country.

Presenter: Mark Crenshaw, Ed.D., DTE, CSL President, Hart County Charter System, Georgia

Note: The Administrator Strand is comprised of programming intended for those not in the Technology and Engineering profession (principals, district-level administrators, and BOE members) in order for them to build better understanding of our field in order to increase advocacy. The Administrator Strand serves as an introduction to Technology and Engineering education, rather than as professional development for individuals currently working in the field. Technology and Engineering Education professionals who wish to attend professional development learning sessions should register as professional attendees, rather than for the Administrator Strand. Anyone who chooses the Administrator Strand will need to provide a letter from their school district indicating your current school district-level position.
Attention Teachers: Share this information with your Administrators.
A FREE, sponsored conference registration is available to the first 50 Administrator registrants!

Wednesday, March 2, 2016

8:00am – Breakfast Sponsored by Verizon and STEM CTL
9:00am – Program Excellence General Session
11:00am – Exhibits Open
12:00pm – Lunch on your own
1:00pm – WELCOME
Introductions, Goals, Anticipated Outcomes
What are the Big 3 Barriers for STEM Integration and Implementation?
Presenter: Barry Burke, DTE, Associate Executive Director, STEM Center for Teaching and Learning, ITEEA
1:10pm – iSTEM FocalPoints -Defining Effective Integrative STEM
Participants will see a new standards-based model for integrating STEM through iSTEM FocalPoints™ and how they can drive school reform.
Presenter: Barry Burke, Associate Executive Director, STEM Center for Teaching and Learning, ITEEA
2:00pm – LinkEngineering: Linking PreK-12 to Expertise and Content
LinkEngineering aims to provide high-quality resources and build a professional community for three groups: educators working in prek-12 classrooms and out of school settings; those engaged in preservice teacher education and professional development; and school, district, and state administrators.
Presenters: Greg Pearson, Senior Program Officer, National Academy of Engineering and Cary Sneider, Portland State University
2:45pm – How to Address the T&E in STEM - Who’s on First? (CTETE)
What exactly is Integrative STEM? What does it look like and what types of professional development are necessary? What impact do the Next Generation Science Standards have on STEM classrooms—in particular, Technology and Engineering classrooms?
Presenter: Phil Reed, Professor, Old Dominion University
3:30pm – STEM for ALL – Whole School Engagement (CSL Forum)
Gain a better understanding of today’s career and technical education (CTE) offerings from the perspective of former principal from a large school district and small school district: also, learn how CTE can help students improve their academic skills through learning that is hands-on and engaging with relevant application. A model for innovation in Kansas will be presented.
Presenters: Max Heindrichs, Director, College & Career Readiness, ESSDACK, Kansas and RJ Dake, Kansas
4:00pm – ITEEA STEM Showcase
Visit with teachers and professionals in the field who are implementing innovative concepts in STEM education. Pick up samples of lessons to bring back to your school or district!

Thursday, March 3, 2016

8:00am – Breakfast Sponsored by Stratasys and STEM CTL
9:00am – Teacher Excellence General Session
11:00am – Exhibits Open
11:30am – Lunch in the Exhibit Hall (free to all registered attendees) Sponsored by PITSCO Education and the ITEEA Board of Directors
1:00pm – Flexibility-Affordability-Accountability - The EbD Nitty Gritty!
Engineering byDesign™ - What is it? Using a standards-based approach, this model provides an overview of how to bring STEM to elementary, middle, and high schools. Using the FAA approach (Flexibility, Affordability and Accountability) the program is suitable for any school or district that is seeking to implement an Integrative STEM system.
Presenter: Tanner Huffman, Director, Research, Special Projects and Assessment, STEM CTL, ITEEA
1:40pm – Integrative STEM Opportunities
NGSS and CCSS have put intense pressure on educators and administrators. Why should we allocate resources to support the T & E of STEM? How does the T & E of STEM support Science and Mathematics learning? Purdue University is developing an Integrated STEM Education endorsement that centralizes the technology and engineering and situates these disciplines as integrators for mathematics and science learning.
Presenter: Nathan Mentzer, Assistant Professor, Dept. of Technology Leadership and Innovation, Purdue University
2:20pm – Closure: Opportunities and Next Steps
Integrative STEM provides many opportunities for moving forward. During the two days, information has been provided that will help frame how STEM can be implemented. This session will build upon those to offer opportunities that are available to make STEM a reality in any school or district.
Presenters: Roger Skophammer, Director, Curriculum and Instruction, and Henry Harms, Assistant Director, Teacher Effectiveness Initiatives, STEM Center for Teaching and Learning, ITEEA
3:00pm – EbDLabs™
Participants will visit the hands-on sessions that provide an overview of the course and a sampling of Integrative STEM lessons. Administrators are encouraged to visit one or all three EbDLabs depending on their interests.

- Elementary
  - EbD-TEEMS – Grades 3-5
    Presenters: Kirsten Perry and Joan Harper-Neely
- Middle School
  - Engineering for All (Water)
    Technological Systems – Grade 8
    Presenters: Sandy Cavanaugh and Chandra Porter
- High School
  - Advanced Design Applications
    Engineering Design – Grade 12
    Presenters: Kevin Webster and Cory Booth
Specialized STEM Leadership Workshops

Choose from four specialized preconference workshops available in 2016. Preconference workshops will be held on Tuesday, March 1, one from 9:30am-4:00pm, and three from 1:00pm-4:00pm. Workshop registration pricing is listed below.

**Integrative-STEM FocalPoints™**

(II-STEM ± FocalPoints™)

**Tuesday, March 1**
9:00am–4:00pm
Baltimore 1

This preconference workshop is designed for school and central office-based administrators as well as teachers who are looking for true STEM integration. There are many definitions of what STEM is, but only one “standards-based” model that intentionally integrates content in context. Administrators and teachers alike will find strategies for integrating STEM for their school. Participants will get the first glimpse of a new standards-based model for integrating STEM through I-STEM±FocalPoints™ and how connecting the STEM dots can drive school reform. The workshop will focus on validating STEM content across Science, Technology and Engineering, Mathematics, English-Language Arts and NAE’s Engineering Habits of Mind.

Open to Consortium Members by Invitation. Computer recommended, but not required. Limited to 30 participants.

**Presenter:** Suzanne Bevans Principal, Henderson Elementary and Matthew Cathell, Professor, The College of New Jersey

$145 – ticket required (Includes lunch)

**Game On – Now Let’s Build It**

**Tuesday, March 1**
1:00pm–4:00pm
Annapolis 4

In this three-hour STEM-Based workshop, the presenters will explain how a thorough understanding of the components for a successful educational game can be produced simultaneously while teaching block-based programming. A student who learns to programming is provided with the opportunity to control a major component of technology. And programming is not isolated to a trade skill, but a development of computational thinking to find answers to open-ended problems. This requires logical and abstract thought to elicit a conclusion. In fact, programming addresses diverse learning styles and expression. Game design provides those skills. In this workshop, the participants will discover the different game genres and which one to use for the STEM-Based educational application, and building blocks needed to be considered prior to programming.

**Presenters:** Phillip L. Cardon, David Gore, Alex Price, Debbie Bondy, and Pam Speelman

$95 – ticket required
Limited to 25 participants.
Specialized STEM Leadership Workshops

**Design Thinking in K-12 STEM**
**Tuesday, March 1**
1:00pm–4:00pm
Annapolis 3

This preconference workshop will prepare teachers to effectively implement key strategies to improve students’ design thinking skills within K-12 STEM lessons. Purdue faculty and graduate students will present approaches to improve students’ design skills while also addressing Standards for Technological Literacy, Next Generation Science Standards, and Common Core. The workshop is grounded in best practices learned from years of K-12 teaching and over five years of funded research on design thinking in STEM education in Grades 3–12.

Workshops Sessions will include:
- Using engineers' notebooks as design assessment
- Design sketching instruction
- Brainstorming for innovation
- Optimization and Decision Making

*Presenters: Todd Kelley and Euisuk Sung*

$95 – ticket required
Limited to 25 participants.

**Elementary Problem-Based Learning**
**Children's Council STEM Workshop**
**Tuesday, March 1**
1:00pm–4:00pm
Baltimore 5

**Audience: K-6 Educators**

Using problem-based learning and problem solving to address STEM topics with elementary students, the Children's Council Elementary STEM Workshop will offer numerous ideas and lessons for elementary teachers. Workshop participants will investigate why STEM literacy in Grades K-6 is essential to economic success and to the elementary child's success in an increasingly technologically dependent world. The engineering design process will be modeled throughout the workshop. Participants will also engage in standards-based, hands-on, minds-on activities that demonstrate how to integrate children's literature, science curriculum, mathematics curriculum, educational technologies, and technological literacy practices to create a well-rounded K-6 STEM classroom.

*Presenters: Laura J. Hummell and Bob Claymier*

$50 – ticket required

**Council and Other Programming**

These councils and groups will hold meetings and offer programming during the ITEEA conference. Go to [www.iteea.org/Activities/1307/ITEEA_Conference_2016.aspx](http://www.iteea.org/Activities/1307/ITEEA_Conference_2016.aspx) to see individual council program offerings.
Join Us in the Exhibit Hall
for Competition, Learning, and FUN!

Exhibits Open:
Wednesday, March 2; 11:00am–6:00pm
Thursday, March 3; 11:00am–3:00pm

Dedicated Exhibit Hours
Wednesday, March 2 and Thursday, March 3
11:00am-1:00pm

Feeling Lucky?
Here’s your chance to win prizes valued at more than $100!

Vendors have provided spectacular prizes for a series of raffle drawings that will occur during the Reception on Wednesday, beginning at 5pm in the Exhibit Hall. Items raffled off in the past have included tablets, an iPad mini, robotics kits, $100 gift cards, subscriptions, tool kits, software, and much more. Preregister by February 2 to receive three tickets for this drawing (on-site registrants will receive one ticket)!

ITEEA’s STEM Showcase – Bringing Teachers and Ideas Together
Wednesday, 4:00pm–5:30pm

The ITEEA STEM Showcase, an exhibition of best practices in the teaching of technology and engineering education, will take place in the Exhibit Hall. The Showcase provides a forum for teachers, TSA Advisors, and others to feature an idea, technique, or best practice related to learning activities, marketing materials, career guidance, facility design, program design, assessment methods, equity, or classroom and laboratory management techniques. Don’t miss out on this unique learning and networking opportunity! Page 8.

TEECA Competitive Events
If you enjoy a little friendly competition, you’ll want to pop in to the front area in the Exhibit Hall on Wednesday (throughout the day) to see the Technology and Engineering Education Collegiate Association (TEECA) students as they vie to win the top spots in the robotics, transportation, and problem-solving competitions. See page 20 for more.
ITEEA and its membership extend a special **THANK YOU** to the sponsors who generously support this conference.

### PLATINUM SPONSORS

**PITSCO**

### GOLD SPONSORS

- Autodesk
- G-W Publisher
- Stratasys
- Whitebox Learning
- Paxton Patterson
- Forrest T. Jones & Company

### SILVER SPONSORS

- Verizon Innovative APP Challenge
- Mastercam

### BRONZE SPONSORS

- Afinia 3D

For available opportunities, please visit [www.iteea.org/Marketplace/marketplace.htm](http://www.iteea.org/Marketplace/marketplace.htm).
## Exhibitors

**Confirmed Exhibitors as of February 16, 2016**

For the most up-to-date list of exhibitors, go to [www.iteea.org/Activities/1307/ITEEA_Conference_2016/Exhibitors_2016.aspx](http://www.iteea.org/Activities/1307/ITEEA_Conference_2016/Exhibitors_2016.aspx)

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*Blue indicates ITEEA Corporate exhibitor.
*Red indicates Institutional exhibitor.

* indicates ITEEA Corporate member.
** indicates Institutional member.
Tormach, Inc.
Wednesday, March 2
11:11-11:50am
CNC Machining in the STEM Classroom
Description: This talk will present several case studies of how technology educators have taught CNC machining using Tormach CNC machines. Examples from engineering, robotics, design engineering, industrial design and advanced manufacturing curriculum will be presented.

Pitsco Education
Wednesday, March 2
1:00pm-1:50pm
Getting Started With Classroom Robotics and Programming
Description: TETRIX PRIME is a revolutionary new robotics building system that is designed to teach a variety of STEM concepts through Project-Based Learning that meet Common Core and Next Gen Science standards without the construction complexities inherent to other building systems. TETRIX PRIME is engineered to be simple and intuitive, enabling students to bring their robot creations to life quickly and easily. A demo of pairing TETRIX PRIME with Arduino will ensure success with classroom implementation. Join us and get hands-on with the new TETRIX PRIME building system paired with Arduino.

Autodesk
Wednesday, March 2
3:00pm-3:50pm
The Future of Making Things and Free Autodesk Software for Your School and Students
Description: Tomorrow’s Engineers, Artists, and Makers will be designing self-driving cars, personalized wearables, and connected devices for the Internet of Things. Making these future things requires modern tools that leverage new practices such as 3D printing, cloud computing, and digital simulation. Tomorrow’s tools are being developed today, and this session will put them in your hands. In this session you will learn how you prepare your students to make their mark on the world, and how you, your students, and your school can access Autodesk software for free.

Stratasys
Thursday, March 3
11:00-11:50am
Hands-On Learning with 3D Printing – Make Something That Moves Something
Description: Bringing 3D printing into the classroom exposes learners to the same cutting-edge technologies they’ll encounter in their careers. Stratasys is committed to promoting 3D printing in education and bridging the gap between academia and industry. In this action lab, global leader Stratasys Education will share how 3D printing and project-based learning have made STEM come to life. Hear real classroom case studies, touch and take sample parts, and see designs from students and educators around the globe. You will walk away with access to classroom resources including: videos, learning modules, and access to a full 3D printing curriculum.

zSpace
Thursday, March 3
1:00-1:50pm
Inspiring STEAM Careers Using Virtual Reality in Schools
Description: Students know computers, they’ve seen 3D movies, but now they can pick up virtual objects and explore STEAM subjects like never before. Attendees will interact with virtual reality desktops and learn how over 250 schools are using this technology today.

Paxton/Patterson
Thursday, March 3
2:00pm-2:50pm
STEM Soaring Above the Cloud
Description: Learn how Paxton/Patterson's Cloud Learning Management System differentiates the instruction for each student. Students access the curriculum content Anytime, Anywhere, and on Any Device. That means students are no longer tethered to a specific classroom. They learn at their own pace. This is coupled with rigorous project-based learning in the classroom. It’s easy to “flip” the classroom and have much more time for hands-on, minds-on learning.

You will see how our radically improved instructional delivery model allows teachers to become learning coaches and mentors. Students take responsibil-
ity for their own learning in this mastery system. During this presentation/workshop you will be given access to some of our Cloud-based STEM curriculum so you can experience for yourself. You’ll see how and why students learn so well using these learning systems.

Carnegie Mellon
Thursday, March 3
2:00pm-2:50pm
Can Computational Thinking Practices Be Taught in Robotics Classrooms?
Description: This presentation will share a scaffolded set of tools that can be used in Technology and Engineering classrooms to engage in computational thinking practices. This presentation will be highly informative if you are remotely interested in how to teach Computer Science in a technology education or engineering classroom.

DS SolidWorks
Wednesday, March 2 and Thursday, March 3
11:00am-11:50am
Project-Based Learning and Q&A
Description: Learn about all the different Curriculum and resources that can help you teach SolidWorks in the classroom. From built-in tutorials to downloadable projects. Also, feel free to come with any and all questions you might have about SolidWorks.

Whitebox Learning
Wednesday, March 2
2:00pm-2:50pm
Project-Based Design, Analysis, and Simulation STEM Applications
Description: Giders2.0, Dragster2.0, Structures2.0, GreenCar 2.0, Rockets2.0, MousetrapCar2.0, Prosthetics2.0, Rover2.0, Shelter2.0 and our latest release, KidWind2.0®. KidWind2.0 fully engages students in learning all about wind energy. Students can research, design, analyze, and simulate their designs, and compete “virtually,” 24/7, from any browser. Then they can print the turbine blades they designed on a 3d printer! Integrated LMS and Pacing Guides included. Standards-based. Grades 6-12.
Competitive Events

TEECA (Technology and Engineering Education Collegiate Association) Competitive Events

TEECA is the single largest body of preservice technology and engineering teachers in the nation. TEECA is well represented at the ITEEA Annual Conference, with over 20 universities participating annually, as well as over 300 preservice teachers, faculty advisors, and other state education officers from around the nation in attendance. TEECA hosts a number of competitions at the ITEEA Annual Conference and holds an awards banquet on Thursday evening to celebrate and award the winners.

Tuesday, 8:30pm-10:00pm
Annapolis 2
Technology Challenge
A quiz-bowl type of competition between TEECA-affiliated chapters, with questions related to technology and professional education topics.

Wednesday, 8:00am-3:30pm
Prince George's Exhibit Hall AB
VEX Robotics
Participants design, fabricate, test, and demonstrate the use of a VEX robot to complete a task. Following the demonstration, participants will give a brief presentation relating to the design of their robot. Final competitions will be held from 1:00pm-2:45pm.

Wednesday, 1:00pm-2:45pm
Prince George's Exhibit Hall AB
Transportation
The TEECA Transportation Contest is about conceptualizing, designing, and constructing a transportation device or craft for optimal efficiency. The contest has several variations and involves concepts associated with air, land, sea, space, and/or intermodal transportation. Participants will present the vehicles at this time.

Wednesday, 4:00pm-5:30pm
Prince George's Exhibit Hall AB
Educational Display Contest
Requires an individual or small team to complete research on a topic of technological significance selected annually by TEECA and then to present the research by designing an educational display. This will be held in conjunction with the ITEEA STEM Showcase.

Wednesday, 4:00pm-7:00pm
Presidential Boardroom
Teaching Lesson
The TEECA Teaching Lesson Contest evaluates how well an individual or pair of students teach others about a technological topic.

Wednesday, 6:00pm-9:00pm
Annapolis 3
Manufacturing
The teams design, document, fabricate, and implement a continuous manufacturing system to produce an assigned product.

Thursday, 10:00am
Prince George's Exhibit Hall AB
Communication Turn-In
Teams plan and produce a short video on a topic related to the conference. The videos will be shared during the Awards Dinner. All video entries for the TEECA Communications Contest must be turned in at the time and location specified in the Challenge.

Thursday, 11:00am-12:30pm
Prince George's Exhibit Hall AB
Problem Solving
The teams design, document, and solve a unique and complex engineering problem.

SPONSORSHIPS are still available for some TEECA Competitive Events.
Please visit www.iteea.org/Marketplace/marketplace.htm
or contact Maureen Wiley at 703-429-8480 or mwiley@iteea.org.
Registration Information

Preregistration Discounts
Register prior to February 7, 2016 and save 15% on conference registration fees. Preregistration pricing is $360 for ITEEA members and $485 for nonmembers. After February 7, full conference rates of $430 for members and $540 for nonmembers will apply.

www.iteea.org/Conference/registration.htm

Preregistration Prize Drawings
Names of those registered by February 7 will be entered into drawings for a $100 Amazon Gift Card. Drawings will be held at the General Sessions on Wednesday and Thursday mornings. You must be present to win.

ITEEA Workshops
Workshops will be held on Tuesday, March 1 and carry a $95- $145 registration fee. You must be registered for the conference and pay the workshop fee in order to attend. The elementary workshop on Tuesday afternoon is $50.

Professional Development Learning Sessions
Sessions are scheduled at regular intervals and generally last 45-50 minutes. All ITEEA Professional Development Learning Sessions will take place at the Gaylord National Convention Center and Resort. Please refer to the final conference program for further details.

Refund Policy
ITEEA conference registration refunds will be considered when requested in writing prior to February 12, 2016. All refunds are subject to a $50 processing fee, which will be deducted from the total. Refund will be issued following the conference. After February 12, 2016, no refunds will be granted. Meal functions, workshops, and the educational tours are nonrefundable.

On-Site Registration and ITEEA Resource Center Hours

ITEEA Preregistration pickup only:
Tuesday, March 1, 8:00am-11:00am

Registration and the Resource Center are both located in Prince George's Exhibit Halls AB.

ITEEA Registration and Resource Center open:
Tuesday, March 1, 11:00am-5:00pm
Wednesday, March 2, 8:00am-5:00pm
Thursday, March 3, 8:00am-5:00pm

We Have a Mobile App...
Our quest to enhance the event experience for our attendees, exhibitors, and speakers is never-ending. This year will be better than ever, which is why we created a mobile app through CrowdCompass for ITEEA's 2016 conference in Washington, DC. CrowdCompass will allow attendees to:

• Access the event schedule anytime and customize your agenda.
• See all the speakers, read their bios, and view their presentations.
• Check out the exhibitors and locate their booths more easily.
• Get important updates and exciting offers through the app.
• See who's attending and share contact information.
• Win prizes using the Click! game.

Our app will soon be live. Stay tuned for download details and more info on how you can use the app to enhance your ITEEA conference experience.

Limitations and Liability
The International Technology and Engineering Educators Association, its directors, employees, contractors, consultants, committees, and hosting organizations are not responsible for any personal injury, loss, or damages resulting from travel to, from, during, or as a result of attendance at the 78th Annual ITEEA Conference, nor for any expenses incurred as result of travel arrangement changes for any reason, including strikes, illness, weather, acts of God, national security breaches, or other causes.
Accommodations/Housing Package

The Gaylord National Resort and Convention Center will serve as ITEEA headquarters. The Gaylord National anchors the 300-acre National Harbor waterfront entertainment district. It offers a spectacular 19-story glass atrium with sweeping views of the Potomac River, Washington, DC and Old Town Alexandria in the distance.

The ITEEA conference rate is $199 single/double occupancy plus $18 resort fee. Hotel tax in Maryland is currently 18%, so for budget purposes, the full cost of a room is $252.82 for a single/double room.

The resort fee includes the first 20 minutes of local and 1-800 telephone calls, high-speed and wireless Internet in the guest rooms (regularly $14.99 daily), daily newspaper (delivered to elevator landings), designated bottled water, Fitness Center and pool access and a coupon booklet for the resort.

Book early to ensure availability. Our special ITEEA conference rates are guaranteed to be the lowest you can find—and these rooms, at these prices will not last long. Rooms at this property will be selling at rates higher than our conference rates; so don’t delay in making your reservation and securing a room in the ITEEA room block. Housing will be handled via phone or via the link on page 25. Rates are available three days prior/following the official ITEEA meeting dates (based on availability).

IMPORTANT HOUSING NOTICE:
ITEEA works directly with our conference hotel(s) to get the best pricing for you, our ITEEA attendees and exhibitors. In the past a third party has sent solicitation emails to our members and exhibitors, claiming to be the official reservations company for ITEEA and offering to make hotel reservations. We do not work with, nor have we authorized, any other third party housing company to make hotel reservations for our conference. They are misrepresenting themselves and are not authorized to solicit on behalf of ITEEA. Thank you.

ATTENTION STUDENTS: ITEEA has secured SPECIAL STUDENT HOUSING RATES for students only. The link to student housing can be acquired from Scott Greenhalgh: scott.greenhalgh@uni.edu.
Accommodations/Housing Package

Gaylord National sleeping rooms offer:

- Alarm clock
- High-speed wireless (included in resort fee)
- Black-out curtains
- In-room safe
- Iron/Board
- Coffeemaker/Tea service
- Double vanities
- Lighted make-up mirror
- Hair dryer
- Mini-refrigerator
- USA Today delivered to elevator landings
- Washington Post available at the bell stand
- Room service
- Valet dry cleaning
- Roll-in showers upon request
- Visual strobe for the hearing impaired
- Visual alarms and notification devices for phone and door upon request

Additional amenities at the Gaylord National:

- Relâche Spa & Salon
- Indoor pool and whirlpool
- Fitness center
- Game room/arcade
- Shoe shine
- Hertz Car Rental
- Cocoa Bean (Serving Starbucks)
- Belvedere Lobby Bar
- Pose Rooftop Lounge
- National Pastime Sports Bar & Grill
- Pienza Restaurant
- Old Hickory Steakhouse

RESERVATIONS

BOOK WITH THE GAYLORD DIRECTLY:

ONLINE: Click HERE to follow the web link
TELEPHONE: 1-877-382-7299 and be sure to identify yourself as attending the ITEEA conference to get the conference rate.


In order to ensure availability, please make your reservations by this important deadline.

This room block was set up for you—our attendees. If we do not fill the rooms we have contracted, penalties are assessed to the association; without your support, ITEEA faces financial penalties for unused sleeping rooms. Thank you in advance for booking your hotel room directly with the official ITEEA hotel.

Room Deposits/Cancellations/Changes

All reservations must be accompanied by a first-night room deposit or guaranteed by a major credit card. Individuals are responsible for their own reservations, room, tax, and incidentals. Any reservations cancelled within 72 hours of arrival will be charged one night's room and tax (including no-shows). Once the ITEEA-contracted room block is filled, additional reservations will be accepted, based on availability.

Parking

Discounted overnight parking is $18 (daily). Guests with overnight parking will have unlimited in-and-out privileges. Parking can be added to your guestroom folio or via cash or credit at the pre-pay stations within the parking garage or at the parking booth.

Daily parking is $26 and valet parking is $39.

Up to three hours of complimentary self-parking is available for guests who dine at Old Hickory Steakhouse and Pienza.
Transportation

Flying Into DC Area
The closest airport to the Gaylord National is Ronald Reagan National Airport (DCA) (8 miles). Washington Dulles International Airport (IAD) is 35 miles away, and Baltimore/Washington International Thurgood Marshall Airport (BWI) is 42 miles away.

Ronald Reagan Washington National Airport (DCA)
- Just 8 miles from National Harbor
- DCA serves over 20 million passengers annually.
- Taxi fare from airport to National Harbor is approximately $25 each way
- Convenient, low-cost airport shuttle services are available with reservations through Super Shuttle. See Shuttle Service (page 25).

Washington Dulles International Airport (IAD)
- Just 35 miles from National Harbor
- IAD serves over 21 million passengers annually.
- Taxi fare from airport to National Harbor is approximately $70 each way
- Convenient, low-cost airport shuttle services are available with reservations through Super Shuttle. See Shuttle Service (page 25).

Baltimore/Washington International Thurgood Marshall Airport (BWI)
- Just 42 miles from National Harbor
- BWI serves over 22 million passengers annually.
- Taxi fare from airport to National Harbor is approximately $70 each way
- Convenient, low-cost airport shuttle services are available with reservations through Super Shuttle. See Shuttle Service (page 25).

NEED SOME HELP?
If you would like to make your travel arrangements through a travel agent, you may contact ITEEAA’s agent below:
Danny Anderson
470-208-7510
cheep.travel0164@att.net

There is a $29.00 fee per ticket issued. Danny will find you the most economical flights available, but you should BOOK EARLY!

DELTA AIRLINES is offering discounted tickets to ITEEAA meeting attendees. Reservations and ticketing are available via www.delta.com/meeting. Select Book Your Flight, and this will bring you to the Book A Flight page. Enter the meeting code - NMM9Q.

Reservations can also be made by calling Delta Meeting reservations at 800-328-1111, Mon-Fri, 7am-7pm CDT. Note: If you book your ticket through this number, there will be a direct ticketing fee.

Train into DC Area
Union Station in Washington DC (WAS) and Union Station Alexandria (ALX) are the closest Amtrak Stations to the Gaylord National.

Union Station
- Amtrak station in Washington, DC is just 10 miles from National Harbor
- Taxi fare from train station to National Harbor is approximately $40 each way
- Amtrak station in Alexandria, VA is just 5 miles from National Harbor
- Taxi fare from train station to National Harbor is approximately $20 each way
Transportation

Airport/Train Station to Gaylord National
Taxi service is available via the taxi stand outside Baggage Claim/Union Station. Please specify Maryland to the taxi agent so they locate the appropriate taxi.

Shuttle Service (save 10%)
Super Shuttle offers a shuttle between all airports and Union Station and Gaylord National. Save 10% on shuttle services. Reservations through Super Shuttle must be made in advance. Call 1-800-258-3826 and mention code 7C2N6.

ExecuCar and ExecuCar Express
ExecuCar and ExecuCar Express will have vehicles stationed at the Gaylord National. To book, please go to the transportation desk in the main lobby.

ExecuCar sedans and SUVs are available for one-way, roundtrip, or hourly rates.

ExecuCar Express is similar to a taxi service, but all trips are a flat-rate fee. Reservations are required.

Public Transportation
If travelling via metro, take the green line to Branch Ave to the NH1 bus. The bus drops off approximately one block from the Gaylord National.

Car
Washington, DC is conveniently located 200 miles south of New York right on I-95/I-495. If travelling to National Harbor from Virginia via the Woodrow Wilson Bridge, please follow the signs that indicate “Local Lanes.” Parking is available at the Gaylord National Resort and Convention Center for a discounted price. Rental cars are also available through Hertz near the Woodrow Wilson Ballroom entrance.

Driving Directions to the Gaylord National
From the North (Baltimore)
Follow I-95S and I-495S to National Harbor Blvd., Exit 2A from I-495S/I-95S. Continue on National Harbor Blvd. Take Fleet Street to Waterfront Street.

From the South (Richmond)
Follow I-95N to National Harbor Blvd, Exit 2A-2B from I-495E/I-95N. Continue on National Harbor Blvd. Take Fleet Street to Waterfront Street.

Getting Around Town
National Harbor is located just 10 miles south of Washington, DC and is accessible by car and public transportation (bus).
About DC's National Harbor

National Harbor is not so much a destination as it is an experience—committed to providing you with a never-ending variety of things to do. Immerse yourself in the sights, scents, and sounds of our unique waterfront wonderland. From fresh artisan cheese to cinema al fresco to family-friendly fun, National Harbor is your place to play. Right on the water...yet a world away. With all the things to do at National Harbor, you'll be coming back for more fun in no time.

Located on the banks of the Potomac River—just minutes away from attractions in Washington, DC, Old Town Alexandria, and Mount Vernon—National Harbor is the perfect Atlantic waterfront destination.

You can visit the U.S. Capitol Building, only ten miles from your National Harbor hotel. Take in sights like the White House, the Smithsonian Museums, and Arlington National Cemetery. Or take a water taxi from National Harbor to Old Town Alexandria, Virginia, and browse shops and galleries housed in historic buildings.
MARK YOUR CALENDARS

Pitsco Education, along with the ITEEA Board of Directors, would like to invite all conference attendees to a complimentary lunch.

March 3, 2016
11:30am-1:00pm
Exhibit Hall

International Technology and Engineering Educators Association
www.iteea.org
Career and Family. We’ve got you covered.

ITEEA-sponsored member insurance plans and services have been carefully chosen for their valuable benefits at competitive group rates from a variety of reputable, highly-rated carriers.

Professional
- Professional Liability
- Private Practice Professional Liability
- Student Educator Professional Liability

Life
- New York Life Group Term Life Insurance Plans†
- New York Life Group Accidental Death & Dismemberment Insurance†

Health
- American Health Insurance Exchange, Offering ACA-Compliant Public and Private Plans
- Educators Dental Plan‡
- New York Life Group Disability Income Protection†
- Long-Term Care Insurance
- Medicare Supplement Insurance
- Cancer Insurance Plan

Home & Auto
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