International Technology and Engineering Educators Association

2018 ANNUAL CONFERENCE

BUILDING BRIDGES
Within the STEM Community and Beyond!

The International Technology and Engineering Educators Association is the professional organization for technology and engineering educators.

ATLANTA
APRIL 12-14, 2018

BUILDING BRIDGES
Within the STEM Community and Beyond!

STEM EDUCATION
CELEBRATING 80 YEARS!
Go to https://crowd.cc/s/ZWhu and click “CrowdCompass AttendeeHub”

Download the CrowdCompass AttendeeHub app.

Once downloaded, you’ll be prompted to find the event. Type “iteea” in the search field. Be sure “Current & Upcoming” is selected.

Download “ITEEA 80th Annual Conference”

When prompted for password, enter iteeaatl18

The event information will load and be accessible.

Questions? Get immediate support by calling 844-215-9037
On behalf of the ITEEA Board of Directors, Conference Planning Committee, and the ITEEA Headquarters staff, it is both my honor and privilege to welcome you to beautiful Atlanta, Georgia for the 80th Annual ITEEA Conference. This year’s conference commemorates ITEEA’s 80th Anniversary, and we are delighted that you are here to celebrate with us!

The theme for ITEEA's 80th Annual Conference focuses on “Building Bridges Within the STEM Community and Beyond.” Building bridges helps everyone to understand the important role of technology and engineering in contributing to STEM education. To better understand how bridges are built within the STEM community, the conference offers the following focused strands related to the theme:

**Strand 1: Connecting With K-12 STEM Colleagues**
**Strand 2: Connecting With STEM Professionals in Higher Education**
**Strand 3: Connecting With the Broader STEM Community**
**Strand 4: Connecting With STEM Decision Makers**

This year’s conference marks our 80th conference, and I have been attending them for more than 40 years. Why do I attend you might ask? I always look forward to the conference and attend to get new ideas, to learn about “best practices,” to see “new technology” in action, to share my own thoughts and ideas, and of course to network with new friends and long-time colleagues. I also see the ITEEA conference as an opportunity to get involved in service and give back to the profession. We all have a voice and can become “change agents” if we so desire. I personally believe that my attendance at ITEEA conferences and “being involved” in the profession over the years have made me a better teacher and researcher, and have given me the opportunity to meet some very amazing people.

Thank you for attending this year’s ITEEA conference in Atlanta where you will meet like-minded individuals, learn about best practices in technology and engineering education, and see new technology in action. As a bonus, you can wish me Happy Birthday on April 13!

As always, our conference provides you with a variety of exciting opportunities, and here are some of my favorites:

- STEM Showcase: Always fun and lots of good information to be had.
- The General Sessions: Inspiring talks and an opportunity to honor our colleagues.
- Preconference Workshops: Intensive training on subjects that are of interest to you.
- The Exhibit Hall: Lots of “cool things” to learn about and see.
- Professional Development Learning Sessions: Opportunities to learn about new technology and activities to enhance student learning and improve your teaching practices.
- International Luncheon: An opportunity to meet with our colleagues from around the world.
- Student Competitions: They are always fun and intense!

Of course, there are many more things to do at the 2018 ITEEA Annual Conference as well as lots of opportunities for you to get involved. Welcome! I encourage you to learn as much as you can while you are here and then take it back to your classrooms and students!

Edward M. Reeve, Ph.D., DTE
ITEEA President
ITEEA Conference Badges

Please be sure to wear your ITEEA conference badge at all times, as it is required for admittance to the Exhibit Hall and all sessions, workshops, field trips, Action Labs, social events, and meal functions.

Session Presenters

Session presenters may pick up their preregistration packets (badges included) at ITEEA Registration. Presenter profile information is available via ITEEA's mobile conference app: https://crowd.cc/s/oudy; or search for "ITEEA" on the app store.

Specialized STEM Leadership Workshops

Specialized STEM Leadership Workshops will be held on Wednesday, April 11 and carry a $95-$250 registration fee. You must be registered for the conference and pay the workshop fee in order to attend. The Elementary workshop on Wednesday afternoon is $50. Descriptions are in ITEEA's Mobile App.

Professional Development STEM Learning Sessions

Sessions are scheduled at regular intervals and generally last 45-50 minutes. All ITEEA Professional Development STEM Learning Sessions will take place at the Westin Peachtree Plaza. Please refer to pages 10-20 or the conference app for further details.

Educational Field Trips

WEDNESDAY, APRIL 11, THURSDAY, APRIL 12, FRIDAY, APRIL 13, AND SATURDAY, APRIL 14

Field trip programs are described in ITEEA's Mobile App. Due to the limited availability of these educational field trips, you must be a fully registered conference attendee in order to participate. Participation is limited on each field trip, first-come, first-served, so check ITEEA Registration ASAP for availability. All field trips require a separate ticket purchase. Tickets are available for purchase at ITEEA Registration until they are sold out.

Field Trip Transportation

Wednesday and Thursday: Meet in the lobby on the 5th floor by Fed Ex. Transportation provided by motor coach.

Friday: Mercedes Benz field trip will meet in the lobby on the 5th floor by Fed Ex at 12:30 to walk to the stadium.

Saturday: Tickets will be distributed in advance. For the behind-the-scenes aquarium tour, please meet at the aquarium at the time listed on your ticket (ticket also good for admittance to aquarium any time that day). Tickets can be picked up at ITEEA Registration in the Exhibit Hall.

Westin Peachtree Plaza

210 Peachtree Street, NW, Atlanta, GA 30303
Phone: 404-659-1400
www.westinpeachtreeplazaatlanta.com/

Internet Access at the Westin Peachtree Plaza

Wireless internet will be provided for all attendees in the meeting and exhibit space. See page 5 for connection instructions. Wireless internet access in your guest room is complimentary for all Starwood Preferred Guests (SPG). Become a member today at www.starwoodhotels.com/preferredguest/account/enroll/index.html.

Audiovisual Equipment at the Westin Peachtree Plaza

An upgraded audiovisual setup is provided in each meeting room. This includes an LCD projector, screen, and wireless internet. Technicians will be coming around to every room to assist as needed with connecting your laptop. On-site requests for additional equipment are the responsibility of the presenters. Please visit the AVPS team in Savannah D for any on-site orders.

Fed-Ex at the Westin Peachtree

The business center is staffed Monday-Friday: 7:30AM-6:00PM and Saturday-Sunday: 10:00AM-2:00PM. The business center is located in the main building on the 5th Floor, Lobby Level.

In Case of Emergency at the Westin Peachtree Plaza

All Westin Peachtree Plaza Loss Prevention Officers are CPR, AED, and first-aid certified. All emergencies or suspicious activities should be reported immediately to the Loss Prevention Officers, who can be contacted from any house phone.

PATT/International

PATT is an international series of technological literacy conferences held within the framework of the ITEEA conference. PATT sessions are open to all those who are interested in learning about international developments. The PATT registration fee includes: ITEEA conference registration, International Luncheon, and PATT Reception.

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, or during, or as a result of attendance at the 80th Annual ITEEA Conference, or for any expenses incurred as a result of travel arrangement changes for any reason, including strikes, illness, weather, acts of God, national security breaches, or other causes.
On-Site Registration, EbD™ Learning Lounge, and Exhibit Hall Hours

**GETEA Registration:**
Wednesday, April 11, 7:30am-3:30pm

**ITEEA Preegistration Pickup Only**
Wednesday, April 11, 8:00am-11:00am

**ITEEA Registration and EbD™ Learning Lounge:**
Wednesday, April 11, 11:00am-5:00pm
Thursday, April 12, 8:00am-5:00pm
Friday, April 13, 8:00am-3:00pm

**Exhibit Hours**
Thursday, April 12  11:00am-6:00pm
Friday, April 13  8:00am-9:00am and 11:00am-2:00pm

* Everyone is encouraged to support the ITEEA exhibitors by spending time in the Exhibit Hall.

**FREE WiFi will be available throughout all ITEEA conference areas in Atlanta.**

**Connecting to the WiFi Network**

**Westin**
- Wireless Network: Westin
- Password: iteeatl18
  - Ensure that the wireless switch on your computer is in the "on" position.
  - Make sure that you are connected to the correct wireless network.
  - For on-site support, please call PSAV at 404-588-3123. [psav.com/TheWestinPeachtreePlazaHotel](http://psav.com/TheWestinPeachtreePlazaHotel)

**AmericasMart**
- Wireless Network: AmericasMart
- Please follow the steps to connect automatically.
  No password is required.

**Make the Most of Your Conference Experience with the ITEEA Mobile App!**

Prior to the 2018 conference you will be able to download the official ITEEA mobile app to access events, speaker information, exhibitors, and much more! The updated 2018 app will guarantee less walking and keep your day structured—all from the palm of your hand:
- Detailed agenda at your fingertips.
- Meeting-room and exhibit-floor maps.
- Cyber networking – including speakers and exhibitors.
- Polls, surveys, and more.
- Browse exhibitors, mark your favorites, route to various booths, take notes on them, and more!
- Interactively add sessions from the app to your custom app schedule, then sync across your multiple devices!
- Stay up to date with real-time alerts.
- Follow the social media buzz; even tweet from the app #iteea2018!
- Browse local Atlanta restaurants, things to do, and sights to see and reference helpful travel information and much more!

See page 4 for download instructions.
This document contains approximate measurements and square footage that are for illustrative purposes only. We cannot guarantee the floor plan accuracy or completeness, therefore encourage you to review the space to make sure it is suitable for your event.
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ITEEA’s Council for Supervision and Leadership I-STEM PreK-12 Administrator Strand

ITEEA’s 80th Annual Conference
Westin Peachtree Plaza
Atlanta, Georgia
April 11-14, 2018

STRAND THEME: Integrative STEM Education: Leadership Through Implementation

Wednesday, April 11, 2018
11:00am–3:45pm
Preconference Field Trip: Georgia's College and Career Academy/Newton County College and Career Academy
Visit one of Georgia's premier College and Career Academies where business, industry, and community sponsors have partnered to form a charter school in which students prepare for careers within local and regional industries. Participants will be provided lunch, during which a panel of career academy experts will share their experiences. After lunch and presentations, students from the Career Academy will provide a tour of the programs and facility.

6:00pm–7:00pm
Westin Café, 5th floor (located beside Bar 210)
Council for Supervision and Leadership (CSL) President’s Reception for all CSL Members and Administrator Strand Registrants
Join CSL for light hors d’oeuvres and networking with STEM administrators from around the country.
Presenter: Don Fischer, CSL President and ND EbD State Director (Sponsored by Redmond and Sons Machinery)

Thursday, April 12, 2018
7:30am
Chastain 1
CSL Awards Breakfast and Business Meeting
CSL Members and Administrator Strand registrants are invited to attend.

9:00am
Peachtree Ballroom CD
Program Excellence General Session

11:00am
Exhibit Hall, Atlanta AmericasMart (Connected to the Westin)
Exhibits Open

12:00pm
Lunch on your own

1:00pm
Chastain 1
Introductions, Goals, Anticipated Outcomes
Presenter: Anita Deck, Ed.D., Director of Innovation, Assessment, and Research, ITEEA’s STEM Center for Teaching and Learning™; Joanna Papadopoulos, Special Projects Associate, PhD Candidate at Virginia Tech

1:10pm
Chastain 1
ITEEA 101 and CSL Forum
Bring integrative STEM Education to life! ITEEA 101 is a high-level look at ITEEA and its mission, its members, and the importance of technology and engineering education for all students. The STEM Center for Teaching and Learning™ (STEM CTL™) is ITEEA's integrative STEM education center whose initiatives are directed toward four goals: development of standards-based curricula; teacher enhancement through professional development; research concerning teaching and learning; and curriculum implementation and diffusion. The CSL Forum provides a look inside the Council for Supervision and Leadership (CSL), which provides leadership to technology education coordinators, assists in curriculum development, promotes model programs, and provides teacher professional development.
Presenters: Jennifer Buelin, Ed.D., Director, ITEEA's STEM Center for Teaching and Learning™; Don Fischer, CSL President and ND EbD State Director

2:00pm
Chastain 1
Teacher Recruitment in Engineering and Technology
You have probably experienced the teacher shortage in recent years when trying to hire educators. In this session, administrators will learn how to recruit your next cohort of teachers by connecting to community and state resources, professional associations, and universities. An emphasis will be placed on creating a local effort to grow future teachers through a teacher recruitment campaign.
Presenters: Greg Kane, Central Connecticut State University; Richard Seymour, Ed.D., Associate Professor, Ball State University

2:50pm
Chastain 1
I-STEM Education in Action
Attend sessions chosen by CSL members that feature strategies and best practices of integrative STEM education. Be ready to share your experiences and knowledge acquisition during the I-STEM Ed Share session on Friday, April 13 at 1:00pm.
ITEEA's Council for Supervision and Leadership | I-STEM PreK-12 Administrator Strand

**Thursday, April 12, 2018**

3:00pm
Chastain 1
Meeting the Needs of Nontraditional Technology Education Teachers
Many teachers are entering the field without a traditional degree in Technology Education. These educators have needs ranging from safety in the classroom to managing instructional activities. Join panel members as they share their insights and expertise and discuss solutions.

Presenters: Paul Camick, Ed.D., DTE, CTAE, Instructional Coordinator, Student Advancement, DeKalb County School District, Georgia; Don Fischer, CSL President and ND EbD State; Lynn Basham, Ph.D., DTE, Technology Education Specialist, Virginia Department of Education; Doug Livingston, Specialist, Technology and Engineering Education, Utah State Board of Education; Tyler Love, Ph.D., Associate Professor, University of Maryland Eastern Shore

4:00pm-5:30pm
ITEEA Action Annex (AmericasMart) (Connected to the Westin)
ITEEA STEM Showcase
Visit with teachers and professionals in the field who are implementing innovative concepts in I-STEM education. Pick up samples of lessons to bring back to your school or district!

5:30pm–6:30pm
ITEEA Action Annex (AmericasMart)
ITEEA's 80s-Themed Opening Reception!
All are welcome to attend! Don your 80s attire and come for a chance to win prizes and other giveaways.

**Friday, April 13, 2018**

8:00am
Chastain 1
Breakfast
CSL Members and Administrator Strand registrants are invited to attend. Sponsored by the Technology Student Association.

9:00am
Peachtree Ballroom CD
Teacher Excellence General Session

11:00am
Exhibit Hall, Atlanta AmericasMart
Exhibits Open

11:30am – 1:00pm
Lunch on your own

1:00pm
Chastain 1
I-STEM Ed Share
Share your experiences and knowledge acquired during your attendance and participation of selected I-STEM Ed conference sessions.

Facilitators: Anita Deck, Ed.D., Director of Innovation, Assessment, and Research, ITEEA's STEM Center for Teaching and Learning™; Megan Morin, Special Projects Specialist, ITEEA's STEM Center for Teaching and Learning and Ph.D. student, North Carolina State University

1:30pm
Chastain 1
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 looking to implement an Integrative STEM system.

Presenter: Nathan Mentzer, Associate Professor, Purdue University

2:15pm
Chastain 1
Barriers to Technology/Engineering Education Implementation: Questions Asked and Answered
Learn how one school district is solving the multidimensional problems facing technology/engineering education instruction. Hear how a very diverse school system deals with teacher recruitment, reaching students of diverse backgrounds, teacher professional development, and finding time to provide STEM instruction to our youngest learners. Engage with others to share your best practices, and together we can design solutions to reach more students with engaging, relevant, integrated education through technology and engineering education.

Presenter: Amy Sabarre, Director of STEM Education, Harrisonburg City Public Schools, Harrisonburg, VA

3:05pm
Chastain 1
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 that information to offer opportunities that are available to make STEM a reality in any school or district.

Presenters: Anita Deck, Ed.D., Director of Innovation, Assessment and Research, ITEEA's STEM Center for Teaching and Learning; Paul Camick, Ed.D., DTE, CTAE, Instructional Coordinator, Student Advancement, DeKalb County School District, Georgia

3:45pm
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.

Augusta 1
Middle School
Engineering for All (Grade 8)
Presenters: Matt Plummer and Chris DeHaan

Augusta 2
High School
Engineering Design (Grade 12, capstone course)
Presenter: Kenyatta Lewis-White

Augusta 3
EbD-TEEMS (Elementary) NxtGen - Grades 3-6
Presenter: Bob Claymier
## Wednesday Conference Programming

**For session descriptions, view the ITEEA mobile app. Download instructions are on page 4.**

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<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event Description</th>
</tr>
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<tbody>
<tr>
<td>7:30am – 3:30pm</td>
<td>Exhibit Hall</td>
<td><strong>GETEA Registration Open</strong></td>
</tr>
</tbody>
</table>
| 8:00am – 11:00am | Exhibit Hall              | 1:00pm – 4:00pm **STEAM Education Professional Development Workshop**  
*Presenters: Georgette Yakman*  
STEAM Session |
| 11:00am – 5:00pm | Exhibit Hall              | 5:00pm – 6:00pm **TEECA Management Board Meeting**  
**TEECA** |
| 8:00am – 11:00am | Ansley 1 (14th Floor)     | 8:00am – 5:00pm **WORKSHOP: Design Thinking in Integrated STEM Education**  
*Presenters: Todd Kelley, Geoff Knowles, Euisuk Sung* |
| 11:00am – 5:00pm | Ansley 5 (14th Floor)     | 1:00pm – 5:00pm **TEECA Advisors Meeting**  
**TEECA** |
| 8:00am – 11:00am | Ansley 2 (14th Floor)     | 6:00pm – 7:00pm Westin Café (next to bar 210, 5th Floor)  
**CSL President’s Reception**  
Council for Supervision and Leadership |
| 8:00am – 11:00am | Ansley 3 (14th Floor)     | 7:00pm – 9:00pm **ITEEA Children’s Council/Elementary STEM Council Executive Meeting**  
Children’s Council |
| 8:00am – 11:00am | Ansley 4 (14th Floor)     | 8:00pm – 8:30pm **TEECA Welcome Session**  
**TEECA** |
| 8:00am – 11:00am | Ansley 6 (14th Floor)     | 8:00pm – 10:00pm **CTETE Yearbook Committee**  
**CTETE** |
| 8:00am – 11:00am | Ansley 7 (14th Floor)     | 8:30pm – 10:00pm **TEECA Technology Challenge**  
**TEECA** |
| 8:00am – 11:00am | Ansley 8 (14th Floor)     | 12:15pm – 5:00pm Piedmont 8  
21st Century Leadership Workshop |
| 8:30am – 11:30am | Ansley 8 (14th Floor)     | 11:00am – 12:00pm **ITEEA Board of Directors Meeting**  
**ITEEA** |
| 8:30am – 11:30am | Ansley 8 (14th Floor)     | 2:00pm – 5:00pm **CTETE Executive Team Meeting**  
**CTETE** |
| 9:00am – 12:00pm | Ansley 5 (14th Floor)     | 4:00pm – 7:00pm **Chastain D**  
**WORKSHOP: STEM Strategies for the Elementary +Classroom**  
*Presenter: Julie Sicks-Panus, Laura J. Hummell, DTE* |
| 9:00am – 12:00pm | Ansley 5 (14th Floor)     | 4:00pm – 7:00pm **EECS PreK-6 Engineering byDesign™**  
**ITEEA Board of Directors Meeting** |
| 9:00am – 12:00pm | Ansley 7 (14th Floor)     | 2:00pm – 5:00pm **Chastain B**  
**EPT Directors Meeting** |
| 10:00am – 12:00pm | Ansley 7 (14th Floor)     | 1:00pm – 5:00pm **Chastain A (6th Floor)**  
**CTETE Executive Team Meeting**  
**CTETE** |
| 11:00am – 3:45pm | Ansley 7 (14th Floor)     | 11:00am – 5:00pm **Chastain A (6th Floor)**  
**CTETE Executive Team Meeting**  
**CTETE** |
| 11:00am – 5:00pm | Ansley 7 (14th Floor)     | 2:00pm – 5:00pm **Chastain B**  
**EPT Directors Meeting** |
| 11:00am – 5:00pm | Ansley 7 (14th Floor)     | 4:00pm – 6:00pm **Chastain A (6th Floor)**  
**CTETE Executive Team Meeting**  
**CTETE** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 4:00pm – 7:00pm **Chastain D**  
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*Presenter: Julie Sicks-Panus, Laura J. Hummell, DTE* |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 11:00am – 5:00pm **Chastain A (6th Floor)**  
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| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 2:00pm – 5:00pm **Chastain B**  
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*Presenter: Julie Sicks-Panus, Laura J. Hummell, DTE* |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 5:00pm – 6:00pm **Chastain H**  
**ITEEA Management Board Meeting**  
**ITEEA** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 6:00pm – 7:00pm **ITEEA Children’s Council/Elementary STEM Council Executive Meeting**  
Children’s Council |
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| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:00pm – 8:30pm **ITEEA Children’s Council/Elementary STEM Council Executive Meeting**  
Children’s Council |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:00pm – 10:00pm **CTETE Yearbook Committee**  
**CTETE** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:30pm – 10:00pm **TEECA Technology Challenge**  
**TEECA** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | **SOLD OUT**  
**EDUCATIONAL FIELD TRIP: Georgia’s College and Career Academy**  
*Newton County College and Career Center*  
**Council for Supervision and Leadership** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | **ITEEA Board of Directors Meeting**  
**ITEEA** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 5:00pm – 6:00pm **Chastain H**  
**ITEEA Management Board Meeting**  
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**CTETE** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:30pm – 10:00pm **ITEEA Technology Challenge**  
**ITEEA** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | **SOLD OUT**  
**EDUCATIONAL FIELD TRIP: Georgia’s College and Career Academy**  
*Newton County College and Career Center*  
**Council for Supervision and Leadership** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | **ITEEA Board of Directors Meeting**  
**ITEEA** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 5:00pm – 6:00pm **Chastain H**  
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Children’s Council |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:00pm – 10:00pm **CTETE Yearbook Committee**  
**CTETE** |
| 11:00am – 5:00pm | Ansley 8 (14th Floor)     | 8:30pm – 10:00pm **ITEEA Technology Challenge**  
**ITEEA** |

*Ticket required.*
**THURSDAY CONFERENCE PROGRAMMING**

**For session descriptions, view the ITEEA mobile app.**  
**Download instructions are on page 4.**

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<td>Exhibit Hall</td>
<td>Registration and EbD™ Learning Lounge Open</td>
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<tr>
<td>7:00am – 8:30am</td>
<td>Augusta 3</td>
<td>President’s Roundtable Breakfast</td>
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</table>
| 7:30am – 8:30am | Chastain 1 (6th Floor) | CSL Awards Breakfast and Business Meeting  
   **Council for Supervision and Leadership** |
| 8:00am – 3:30pm | ITEEA Action Annex (AmericasMart) | TEECA VEX Robotics Competition  
   TECCA                                           |
| 8:00am – 8:50am | Augusta A (7th Floor) | A District-Wide FIRST Robotics Program Initiative  
   **Presenter: Ray Wu-Rorrer**                   |
| 8:00am – 8:50am | Augusta B (7th Floor) | New Technology Education Curriculum and its Challenges in National Curriculum in Korea  
   **Presenters: Sangbong Yi, Jaehoon Jeong**     |
| 8:00am – 8:50am | Augusta C (7th Floor) | Fifty STEM Activities Using Scrap Paper  
   **Presenter: Jim Flowers**                     |
| 8:00am – 8:50am | Augusta D (7th Floor) | Branding and Connecting Your Technology Education Program  
   **Presenters: Stephen Peltier, Brian Drelick** |
| 8:00am – 8:50am | Augusta F (7th Floor) | FarmBot Genesis: Precision Biotechnical Robotics System  
   **Presenter: John Wells**                      |
| 8:00am – 8:50am | Augusta G (7th Floor) | Using Formative Feedback to Shape Design Thinking  
   **Presenters: Scott Bartholomew, Greg Strimel** |
| 8:00am – 8:50am | Chastain D (6th Floor) | Navigating the ITEEA Conference  
   **Presenters: Vinson Carter, Josh Brown, Julie Maynard, Natalie Emery** |
| 8:00am – 8:50am | Chastain E (6th Floor) | Learning Modules for At-Risk Engineering Graphics Students  
   **Presenter: Daniel Kelly** CTETE               |
| 8:00am – 8:50am | Chastain G (6th Floor) | Integrating Manufacturing and Industry Certifications into CTE  
   **Presenters: Sarah Martin, John Crow, Warner Brown** |
| 8:00am – 8:50am | Chastain H (6th Floor) | PowerTech: Hands-on Making Contest and Student Club  
   **Presenter: Chi Ruei Tsai** International/PATT |
| 8:00am – 8:50am | Chastain I | A Guide to STEAM "Making" for Teachers  
   **Presenter: Zoe Falls** STEAM                   |
| 9:00am – 10:50am | Chastain J (6th Floor) | The Engineering Pipeline: A Strategic Response to America’s STEM Shortage  
   **Presenter: Leon Grant**                      |
| 9:00am – 10:50am | Peachtree CD (8th Floor) | Program Excellence General Session  
   **Sponsored by Paxton/Patterson**  
   **Presenter: Cole Galloway**                   |
| 10:00am – 1:30pm | EPT Director’s Meeting | *ViaSat EDUCATIONAL FIELD TRIP: ViaSat                                    |
| 11:00am – 11:50am | Chastain J (6th Floor) | ACTION LAB: DS Solidworks                                                  |
| 11:00am – 6:00pm | Exhibit Hall | Exhibit Hall Open  
   **Dedicated Exhibit Hours: 11:00am-1:00pm**                              |

*Ticket required.*
THURSDAY CONFERENCE PROGRAMMING

12:00am – 1:30pm
AmericasMart, Room G
International/PATT Luncheon
Presenter: Richard Kimball
International/PATT

11:10am – 12:00pm
ITEEA Action Annex (AmericasMart), Mini Theatre 3 (Blue Theater)
STEM-Based Computer Games: A Different Approach
Presenter: Phillip Cardon

11:10am – 12:00pm
ITEEA Action Annex (AmericasMart), Mini Theatre 1 (Red Theater)
Maker E-Learning: Tool-Specific Safety Training
Presenter: Timothy Cone

12:00pm – 12:50pm
Exhibit Hall Main Stage
Lunch and Learn

12:00am – 1:30pm
AmericasMart, Room G
*International/PATT Luncheon
Presenter: Richard Kimball
International/PATT

1:00pm – 1:50pm
Augusta C (7th Floor)
The Makerspace Movement as a STEM Collaborative
Presenter: Donna Matteson, Richard Kulbert, Dustin Burdick

1:00pm – 1:50pm
Augusta D (7th Floor)
Toys for Tots in your T&E Program
Presenters: Mike Berkeiher, Steve Ortega

1:00pm – 1:50pm
Augusta E (7th Floor)
Iceman Technology, Smelting in the Bronze Age
Presenter: Mark Hainsworth

1:00pm – 1:50pm
Augusta F (7th Floor)
Vision, Collaboration, and Passion: Key Ingredients for Building Working Partnerships
Presenter: Leon Grant

1:00pm – 1:50pm
Augusta G (7th Floor)
Creating a Diverse Community Through Electric Vehicles
Presenters: Pam Carpenter, Erik Schettig, Megan Patberg Morin, Bill DeLuca

1:00pm – 1:50pm
Chastain 2 (6th Floor)
ACTION LAB: WhiteBox Learning

1:00pm – 1:50pm
Chastain D (6th Floor)
ITEEA Children’s Council/Elementary STEM Council General Meeting
Children’s Council

1:00pm – 1:50pm
Chastain E (6th Floor)
PANEL: Partnerships
- Developing and Sustaining Community Partnerships in STEM
  Presenters: Eric Knapp, Lisa B. Green
- Successful Integration of STEM Through Community Partnerships
  Presenter: Gina Dalan

1:00pm – 1:50pm
Chastain F (6th Floor)
Bridging TEE Teacher Preparation Programs – Current Challenges
Presenters: Kenny Rigler, Ken Volk, Johnny J Moyer, DTE CTETE

1:00pm – 1:50pm
Chastain G (6th Floor)
Integrated Computer Programming: Approaches, Outcomes, and Resources
Presenter: Mary Annette Rose
CTETE

1:00pm – 1:50pm
Chastain H (6th Floor)
Teach Critical Thinking Using STEAM
Presenter: Christina Liu
STEAM

1:00pm – 1:50pm
Chastain I (6th Floor)
ACTION LAB: Pitsco Education

1:00pm – 1:50pm
ITEEA Action Annex (AmericasMart)
Mini Theatre 3 (Blue Theater)
Covering 20 TFAA Standards In One Class
Presenter: Richard Seymour

1:00pm – 1:50pm
ITEEA Action Annex (AmericasMart)
Mini Theatre 1 (Red Theater)
Bring the Excitement of BattleBots to Schools!
Presenter: Kirk Marshall

1:10pm – 2:15pm
Chastain 1 (6th Floor)
ITEEA 101 and CSL Forum
Presenters: Jennifer Buelin, Don Fischer, Council for Supervision and Leadership

*Ticket required.
1:00pm – 2:45pm
ITEEA Action Annex (AmericasMart)
TEECA Transportation Competition
TEECA

1:00pm – 4:50pm
Augusta 1 (7th Floor)
*EbDLab™: Foundations of Technology (9th grade)
Engineering byDesign™

1:00pm – 4:50pm
Augusta 2 (7th Floor)
Engineering byDesign™

1:00pm – 4:50pm
Augusta 3 (7th Floor)
*EbDLab™: EbD-TEEMS - Grades PreK-2
Engineering byDesign™

1:00pm – 4:50pm
Chastain A
EPT Board of Directors Meeting

2:00pm – 2:50pm
Augusta A (7th Floor)
3D Medical Modeling to Reinforce STEM Education
Presenter: Charlie McLaughlin

2:00pm – 2:50pm
Augusta B (7th Floor)
Integrated STEM with Fab Labs
Presenter: Kenneth Welty

2:00pm – 2:50pm
Augusta C (7th Floor)
Establishing STEM Collaboration Across the Stakeholder Spectrum
Presenter: Kenneth Hayward

2:00pm – 2:50pm
Augusta D (7th Floor)
Documenting Your Engineering Design Project
Presenter: Jeff Rosen

2:00pm – 2:50pm
Augusta E (7th Floor)
Computer Science as Technology Education in Maryland?
Presenters: Thomas Loveland, Kevin Koperski, Chris Buckler

2:00pm – 2:50pm
Augusta F (7th Floor)
Students Extrude Their Own 3D Printer Filament
Presenters: Jim Flowers, Alex Wierzbicki

2:00pm – 2:50pm
Augusta G (7th Floor)
Grades 9-12 Engineering: Investigation of Student Problem-Solving Skills
Presenter: Susheela Shanta
CTETE

2:00pm – 2:50pm
Chastain 1 (6th Floor)
Teacher Recruitment in Engineering and Technology
Presenters: Greg Kane, Richard Seymour
Council for Supervision and Leadership

2:00pm – 2:50pm
Chastain 2 (6th Floor)
ACTION LAB: Activate Learning: Engage ALL Students by Integrating Engineering, Science, and Daily Life

2:00pm – 2:50pm
Chastain E (6th Floor)
PANEL: Gamification
- Virtual Reality Becoming Part of the STEM Toolbox
  Presenter: Pamela Speelman
- Ready Player One: Gamified Learning Strategies
  Presenter: Jamie Lang

2:00pm – 2:50pm
Chastain F (6th Floor)
Bridging TEE Teacher Preparation Programs - Future Goals
Presenters: Kenny Rigler, Ken Volk, Johnny J Moye, DTE
CTETE

2:00pm – 2:50pm
Chastain G (6th Floor)
Blue Whale STEM Integration for Elementary Students
Presenter: Lori Barker

2:00pm – 2:50pm
Chastain H (6th Floor)
International Roundtable Discussion
Moderator: Marc de Vries
International/PATT

2:00pm – 2:50pm
Chastain I (6th Floor)
STEAM Elementary Charter Lagoon Study
Presenters: Terry Duncan, Jill Mucci
STEAM

2:00pm – 2:50pm
Chastain J (6th Floor)
ACTION LAB: Applied Inspirations

2:00pm – 2:50pm
ITEEA Action Annex (AmericasMart)
Mini Theatre 3 (Blue Theater)
Celebrating STEM Day Through STEM WARS
Presenter: Angela Quarles, DTE

2:00pm – 2:50pm
ITEEA Action Annex (AmericasMart)
Mini Theatre 1 (Red Theater)
Teaching STEM Through Electric Guitar Design
Presenters: Gary Mahoney, Molly Reich, Lisa Marks

3:00pm – 3:50pm
Chastain 1 (6th Floor)
I-STEM Education in Action
 Council for Supervision and Leadership

3:00pm – 3:50pm
Augusta A (7th Floor)
The Many Roads to Success
Presenter: Debbie Bondy

3:00pm – 3:50pm
Augusta B (7th Floor)
DOING: The STEM Education Imperative
Presenters: Johnny J Moye, DTE, William E. Dugger, Jr., DTE

*Ticket required.
3:00pm – 3:50pm  
Augusta C (7th Floor)  
The Fast Formula for Dimensioning Engineering Drawings  
Presenter: Allen Patton

3:00pm – 3:50pm  
Augusta D (7th Floor)  
Survive Your First Year of Engineering Design  
Presenter: James Hemming

3:00pm – 3:50pm  
Augusta E (7th Floor)  
TEK8 - Engineering Design Challenges from Engineering Lab Experiences  
Presenter: Paul Post

3:00pm – 3:50pm  
Augusta F (7th Floor)  
Integrated STEM Through Tumblewings in Tanzania  
Presenters: Scott Bartholomew, Marlee DeSplinter

3:00pm – 3:50pm  
Chastain 2 (6th Floor)  
ACTION LAB: Texas Instruments: STEM/Coding Projects for Students Using TI Graphing Technology

3:00pm – 3:50pm  
Chastain D (6th Floor)  
Soft Robotics in the Classroom  
Presenters: Andrew Jackson, Nathan Mentzer

3:00pm – 3:50pm  
Chastain E (6th Floor)  
PANEL: Professional Development  
• STEM Teacher Preparation in China: A Fulbright Experience  
  Presenter: Mark Mahoney  
• Laying Tracks: Undergirding School STEM/STEAM Reform  
  Presenter: Ashley Gess  
• Inform and Inspire Integrated STEM Teacher Partnerships  
  Presenters: Geoff Knowles, Todd Kelley

3:00pm – 3:50pm  
Chastain F (6th Floor)  
Promotion and Tenure in Technology/Engineering Education  
Presenter: Aaron Clark, DTE CTETE

3:00pm – 3:50pm  
Chastain G (6th Floor)  
Captivating Them Early: Elementary STEM That Works  
Presenters: Michael Daugherty, Vinson Carter, Lindsey Swagerty

3:00pm – 3:50pm  
Chastain H (6th Floor)  
International Roundtable Discussion  
Presenter: Marc de Vries International/PATT

3:00pm – 3:50pm  
Chastain I (6th Floor)  
A Decade Recap of STEAM  
Presenter: Georgette Yakman

3:00pm – 3:50pm  
Chastain J (6th Floor)  
ACTION LAB: Bantam Tools

3:00pm – 3:50pm  
ITEEA Action Annex (AmericasMart), Mini Theatre 3 (Blue Theater)  
Student Competitions Made Easy  
Presenters: Carol Unterreiner, Luci Coker

3:00pm – 3:50pm  
ITEEA Action Annex (AmericasMart)  
Mini Theatre 1 (Red Theater)  
The Beauty of Simple Open-Ended Challenges - STEM Activities with KEVA Planks  
Presenters: Kenneth Scheel

3:00pm – 4:00pm  
Chastain F (6th Floor)  
Hands-On, Career-Connected STEM CTE  
Presenters: Clelia McCrory, Jodi Grover

3:00pm – 4:00pm  
Chastain D (6th Floor)  
T and E Instructors Implement Appropriately Challenging Engineering Content  
Presenters: Andrew Hughes, Chris Merrill

3:00pm – 4:00pm  
Chastain C (7th Floor)  
Overarching Themes and Authentic Contexts – Not Standards!  
Presenter: Michael Hacker, DTE CTETE

3:00pm – 4:00pm  
Chastain G (7th Floor)  
An Asynchronous Approach to Integrating Science and Engineering  
Presenters: Julie Sicks-Panus, Jen Weatherbee

3:00pm – 4:00pm  
Chastain E (6th Floor)  
Baby STEM: STEM in Primary Education  
Presenter: Cherry Steffen

3:00pm – 4:00pm  
Chastain F (6th Floor)  
Panel: Modes of Learning  
• Progressions of Learning in Secondary Engineering  
  Presenters: Greg Strimel, Michael Grubbs, Tanner Huffman  
• The Five Graphic Principles for STEM Visual Thinking  
  Presenter: Pamela Speelman

4:00pm – 4:50pm  
Chastain F (6th Floor)  
Soft Robotics to Broaden the STEM Pipeline  
Presenter: Nathan Mentzer

4:00pm – 4:50pm  
Chastain H (6th Floor)  
STEM Teacher Professional Development in China  
Presenter: Su Wang International/PATT
4:00pm – 5:30pm
ITEEA Action Annex (AmericasMart)
2018 STEM Showcase and CTETE Poster Sessions
(See title listing on page 16, floor plan at right.)

4:00pm – 5:30pm
ITEEA Action Annex (AmericasMart)
TEECA Educational Display Contest
TEECA

4:00pm – 7:00pm
Savannah Ballroom BC
TEECA Teaching Lesson Competition
TEECA

5:30pm – 6:30pm
Exhibit Hall (AmericasMart)
ITEEA 80s-Themed Opening Reception

6:00pm – 9:00pm
Savannah A
TEECA Manufacturing Competition
TEECA

6:15pm – 7:45pm
Chastain 2 (6th Floor)
*CTETE Yearbook and Awards Reception
CTETE

*Ticket required.
1. TBA
2. Enhancing Student Engineering
3. Integrating Emerging Technologies into STEM
4. Cross-Curricular Undergraduate Research With STEM Applications
5. 360-Degree Video and Virtual Reality Development in Education
6. Integrating Culture-Driven Strategies for a Diverse Classroom
7. Project-Based Learning
8. (Tables 8 and 9) Engaging Students in Hands-on Adaptive Design Projects
9. Easy STEM Integration with NASA Resources
10. Learn Electronics with Creation Crate
11. Connecting Literacy and STEM
12. STEM Fridays: Connecting University and Elementary Classrooms
13. Eco World
14. Hovercraft Technology: Enabling Society to Progress Forward
15. Smart Tiny Home
16. Put a Little PBL in Your EDP!
17. Elementary Teacher Candidates Engage with “Squishy Circuits”
18. STEAM Integration Using Ozobots
19. Whole School STEAM Integration
20. True Knowledge Comes From the Practice
21. PowerTech STEAM Contest for Youth
22. STEAM Education
23. Globally-Relevant STEAM Projects in a Rural Appalachian Middle School
24. STEAM Elementary Charter Lagoon Study
25. Teaching STEM Through Guitar Design and Construction
26. National Robotics League = Athletics for the Mind
27. CTE STEM Maker Summer Camp
28. RoboZoo Makeathon for Underrepresented Middle School Students
29. Teaching About Computational Thinking Through Magic Mirror
30. Board Games and the Manufacturing Process
31. Teaching Coding and Design Through Quadcopters
32. ITEEA’s IdeaGarden: For Teachers, By Teachers
33. ExGen Educators
34. Learning About “High-Tech” from “Old Tech”
35. STEM Children’s Rhymes
36. TEK8 – Design Challenges for Middle School
37. MS iSTEM Learning through Historical Inventions
38. Make to Learn Invention Kits
39. Engineering Workbooks at Westside Middle School
40. Connecting from Here to the Stars
41. (Tables 42 and 43) Keys to Effective Production of Interactive Mediums
42. NASA Literacy Resources for K-5 Educators
43. Milwaukee Middle School Engineering the Future
44. Using CAD in the Elementary Grades
45. A District-Wide FIRST Robotics Program Initiative
46. Clean Water: A Necessity
47. CYMATICS: Using Sound to Teach STEM
48. Architecture: The Integration of STEM, Academic, and SPED
49. Teaching STEM Content with NEED Resources
50. STEM Education Institutes for Elementary School Teachers and Administrators
51. Remo-Con: Hands-On Making Remote Control Contest
52. WeVideo Equals QR Code With Google Documents
53. Using Phenomena to Drive STEM Investigations With 3D Learning
54. Robotics Primer
55. Climate Change in the Polar Regions: Digital Place-Based Teacher Resources
56. Entrepreneurs Start Early
57. Starting with STEM
58. Biomimicry: Innovations Inspired by Nature
59. eleSTEMary: Putting the STEM in Elementary Schools
60. TBA
61. How Fast Can a Butterfly Fly?
62. STEM in a Jar
63. Satellites
64. Tinkering, Making, Engineering: What is STEM?
65. Engineering and Content...How Does That Work?
66. Inventing is a Contact Sport!
67. STEM Clubs in Elementary and Middle Schools
68. K-2 Engineering: Books, Hands-on, and Research
69. Gravity Water Filter Challenge
70. Tactile Technology: Help Students “See” Our Classroom!
71. ITEEA’s Elementary STEM Council
72. ITEEA’s Children’s Technology and Engineering Journal
73. Best STEM Books: Engaging Students Through Literature
74. Elementary STEM Competition
75. Captivating Them Early: Elementary STEM That Works
76. K-5 Engineering and Technology Design
77. Autonomous Vehicle Design Challenge With TI Innovator System
78. Girls in Engineering: Building, Competing, Award Winning
79. Mindful Approaches to Safety and Classroom Management
80. Design and Scientific Inquiry Through Soft Robot Design
81. TBA
82. Civil Air Patrol
83. Partner Engagement Menu
84. Rainy Day Engineering
85. Industry-Driven Projects for the Manufacturing Ecosystem
86. Developing Preservice Elementary Integrative STEM Courses
87. Similarities/Differences Existing Between STEM Teaching Licensure Areas
88. PK-4 STEM Preservice Teachers: A First Look
89. Development of Technology Teacher Education in Connecticut

CTETE Posters
- Industry-Driven Projects for the Manufacturing Ecosystem
- Developing Preservice Elementary Integrative STEM Courses
- Similarities/Differences Existing Between STEM Teaching Licensure Areas
- PK-4 STEM Preservice Teachers: A First Look
- Development of Technology Teacher Education in Connecticut
FRIDAY CONFERENCE PROGRAMMING

For session descriptions, view the ITEEA mobile app. Download instructions are on page 4.

April 13

8:00am – 3:00pm
Exhibit Hall
Registration and EbD™ Learning Lounge Open

7:00am – 8:45am
Chastain 2 (6th Floor)
*FTEE "Spirit of Excellence" Breakfast
Presenter: Richard Seymour

8:00am – 8:50am
Chastain 1 (6th Floor)
CSL/Administrator Breakfast
Sponsored by TSA.
Council for Supervision and Leadership

8:00am – 8:50am
Augusta A (7th Floor)
STEMbassadors: Connecting Higher Education and K-12 Communities
Presenter: Brooks Payette

8:00am – 8:50am
Augusta C (7th Floor)
Teaching Soft Skills in Technology and Engineering
Presenter: Thomas Loveland

8:00am – 8:50am
Augusta D (7th Floor)
Learning With Apps
Presenter: Daniel Carroll

8:00am – 8:50am
Augusta E (7th Floor)
Teaching STEM Content with NEED Resources
Presenter: Sharon Donovan

8:00am – 8:50am
Augusta F (7th Floor)
Recruitment Strategies: Roundtable
Presenter: Megan Jackson

8:00am – 8:50am
Augusta G (7th Floor)
A Robotics Primer
Presenter: Naveen Cunha

8:00am – 8:50am
Chastain D (6th Floor)
Easy STEM Integration With NASA Resources
Presenters: Joan Harper-Neely, Sharon Bowers

8:00am – 8:50am
Chastain E (6th Floor)
PANEL: Summer Programs
- Hosting Summer Camps for Teachers and Students
  Presenters: Dave Weidkamp
- CTE STEM Maker Summer Camp
  Presenters: Sarah Martin, John Crow, Stephen Bennett

8:00am – 8:50am
Chastain F (6th Floor)
Engineering Design Thinking: Elementary to Post-Secondary
Presenter: Greg Strimel
CTETE

8:00am – 8:50am
Chastain G (6th Floor)
STEM Camp: Animatronics and Coding
Presenter: Virginia Jones, Dan Trent
STEAM Session

8:00am – 8:50am
Chastain I (6th Floor)
STEAM: How 1 Project Changed a District
Presenter: Beth Haynes
STEAM

9:00am – 10:50am
Peachtree CD (8th Floor)
Teacher Excellence General Session
Sponsored by Goodheart-Willcox Publisher
Presenter: Dr. Lonnie Johnson

9:00am – 10:50am
Peachtree CD (8th Floor)
Teacher Excellence General Session
Sponsored by Goodheart-Willcox Publisher
Presenter: Dr. Lonnie Johnson

9:00am – 10:50am
Peachtree CD (8th Floor)
Teacher Excellence General Session
Sponsored by Goodheart-Willcox Publisher
Presenter: Dr. Lonnie Johnson

9:00am – 10:50am
Peachtree CD (8th Floor)
Teacher Excellence General Session
Sponsored by Goodheart-Willcox Publisher
Presenter: Dr. Lonnie Johnson

9:00am – 10:50am
Peachtree CD (8th Floor)
Teacher Excellence General Session
Sponsored by Goodheart-Willcox Publisher
Presenter: Dr. Lonnie Johnson

10:00am – 4:00pm
Savannah Ballroom AB
TEECA Communication Turn-In
TEECA

11:00am – 11:50am
Chastain 2 (6th Floor)
ACTION LAB: Texas Instruments
STEM/Coding Projects for Students Using TI Graphing Technology

11:00am – 11:50am
Chastain E (6th Floor)
ITEEA Committee and Review Board Meeting

11:00am – 12:30pm
ITEEA Action Annex (AmericasMart)
TEECA Problem-Solving Competition
TEECA

*Ticket required.
FRIDAY CONFERENCE PROGRAMMING

11:30pm – 12:30pm
Exhibit Hall Main Stage
Lunch and Learn

12:30pm-1:00pm
ITEEA Action Annex (AmericasMart)
ITEEA 80th Anniversary Sweet Treats Celebration

1:00pm – 1:30pm
Chastain 1 (6th Floor)
I-STEM Ed Share
Presenters: Anita Deck, Megan Morin
Council for Supervision and Leadership

1:00pm – 1:50pm
Augusta A (7th Floor)
STEM Community Collaboration is a Win-Win!
Presenters: Joanne Trombley DTE, Paul Joyce, Jennifer Weatherbee

1:00pm – 1:50pm
Augusta B (7th Floor)
STEAM Integration Using Ozobots
Presenter: Joanna Papadopoulos

1:00pm – 1:50pm
Augusta C (7th Floor)
Designing With Immersive Technologies
(Virtual/Augmented Reality)
Presenter: Brenden Davidson

1:00pm – 1:50pm
Augusta D (7th Floor)
Connecting From Here to the Stars
Presenter: Debra Shapiro

1:00pm – 1:50pm
Augusta E (7th Floor)
PLTW and Technology Education: One School’s Perfect Fit
Presenter: Courtney Moyer

1:00pm – 1:50pm
Augusta F
AMP Up Your STEM Instruction
Presenters: Jeff Rosen

1:00pm – 1:50pm
Chastain D (6th Floor)
Making STEM Work: Writing for the Children’s Technology and Engineering Journal
Presenters: Thomas Roberts, Virginia Jones

1:00pm – 1:50pm
Chastain E (6th Floor)
PANEL: Robotics
- Curriculum Development for a Weekend Robotics Experience Series
  Presenter: Chi Thai
- Self-Efficacy and Participation in VEX Robotics Competitions
  Presenters: Joseph Furse, Gary Stewardson, Trevor Robinson

1:00pm – 1:50pm
Chastain F (6th Floor)
How Does Sketching Support Children’s Cognitive Development?
Presenter: Euisuk Sung
CTETE

1:00pm – 1:50pm
Chastain G (6th Floor)
Best Practices for Modeling and Simulation Integration
CTETE

1:00pm – 1:50pm
Chastain H (6th Floor)
STEAM Education Professional Development Practicum and Research
Presenter: Georgette Yakman
International/PATT

1:00pm – 1:50pm
Chastain I (6th Floor)
Globally-Relevant STEAM in Rural Appalachian MS
Presenter: Sarah Hampton
STEAM

1:00pm – 4:00pm
*Mercedes-Benz Stadium SOLD OUT
EDUCATIONAL FIELD TRIP:
Mercedes-Benz Stadium

1:00pm – 4:00pm
Augusta 1 (7th Floor)
*EbDLab*: Engineering for All - Water: The World in Crisis and Vertical Farms: Fresh Food for Cities
Engineering byDesign™

1:00pm – 4:00pm
Augusta 2 (7th Floor)
*EbDLab*: Engineering Design, Third Edition (12th grade capstone)
Engineering byDesign™

1:00pm – 4:50pm
Augusta 3 (7th Floor)
*EbDLab*: EbD-TEEMS (Grades 3-6)
Engineering byDesign™

1:00pm – 4:50pm
Chastain A
EPT Board of Directors Meeting

1:30pm – 2:15pm
Chastain 1 (6th Floor)
Flexibility, Affordability, Accountability: The EbD™ Nitty Gritty
Presenter: Nathan Mentzer

2:00pm – 2:50pm
Augusta A (7th Floor)
Aligning STEM Standards to STEM Job Requirements
Presenter: Tonya Garcia-Arnold

2:00pm – 2:50pm
Augusta B (7th Floor)
Integrated STEM Instructional Strategy on Learning Performance
Presenter: Lung-Sheng (Steven) Lee

2:00pm – 2:50pm
Augusta C (7th Floor)
Iowa’s Statewide STEM Initiative: Building Partnerships
Presenter: Carrie Rankin

2:00pm – 2:50pm
Augusta D (7th Floor)
Threading and Embedding Engineering Design Thinking PreK-12
Presenters: Nicole Anne Culella, Whitney Smith

2:00pm – 2:50pm
Augusta E (7th Floor)
Stop Complaining about Millennials in the Classroom!
Presenter: Daniel Kelly

2:00pm – 2:50pm
Augusta F
Developing and Maintaining STEM Relationships in Higher Education
Presenter: Ashley Gess

*Ticket required.*
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Presentation Details</th>
</tr>
</thead>
</table>
| 2:00pm – 2:50pm | Chastain D (6th Floor) | Collaborative Engineering With Skype  
Presenters: Anita Mays, Jennifer Whitenack |
| 2:00pm – 2:50pm | Chastain E (6th Floor) | **PANEL: Program Promotion**  
- Optimizing Strengths of STEM Educators and Resources  
  Presenter: Maurice Frazier  
- Promoting Technology and Engineering Education  
  Presenter: Frank Caccavale |
| 2:00pm – 2:50pm | Chastain F (6th Floor) | Making Meaning of Design Failure  
Presenter: Andrew Jackson  
CTETE |
| 2:00pm – 2:50pm | Chastain G (6th Floor) | Connected Learning: Building Partnerships Within Your School Community  
Presenters: Freda Hicks, Christy Velasquez, Julie Morgan |
| 2:00pm – 2:50pm | Chastain H (6th Floor) | Energy Resources, Sustainability, and the Environment  
Presenter: Len Litowitz  
International/PATT |
| 2:00pm – 2:50pm | Chastain I (6th Floor) | Int’l STEAM – China Beijing No 4 HS  
Presenter: Duan Yupei  
STEAM |
| 2:00pm – 4:00pm | AmericasMart, Room G | CTETE Business Meeting and Committee Worksession  
CTETE |
| 2:15pm – 3:05pm | Chastain 1 (6th Floor) | Barriers to Technology/Engineering Education Implementation: Asked and Answered  
Presenter: Amy Sabarre  
Council for Supervision and Leadership |
| 3:00pm – 3:50pm | Peachtree CD (8th Floor) | ITEEA Governance Session |
| 3:00pm – 3:50pm | Augusta B (7th Floor) | Girl Power: Recruiting and Retaining Girls  
Presenters: Carol Unterreiner, Luci Coker |
| 3:00pm – 3:50pm | Augusta C (7th Floor) | Connecting Within the STEM Community Through Aquaponics  
Presenter: Gary Stewardson |
| 3:00pm – 3:50pm | Augusta D (7th Floor) | Branding: Ideas for Marketing Your Classroom  
Presenter: Megan Jackson |
| 3:00pm – 3:50pm | Augusta E (7th Floor) | Modeling Integrated STEM PBL: Preservice Teacher Preparation  
Presenter: Julie Maynard |
| 3:00pm – 3:50pm | Augusta F (7th Floor) | Using Phenomena to Drive STEM Investigations With 3D Learning  
Presenter: David Crowther |
| 3:00pm – 3:50pm | Chastain D (6th Floor) | Secondary Technology and Engineering Educators Supporting Elementary STEM  
Presenter: Laura Hummell, DTE |
| 3:00pm – 3:50pm | Chastain E (6th Floor) | Reconstructing Historic Inventions With Advanced Manufacturing Technologies  
Presenter: James Rutter |
| 3:00pm – 3:50pm | Chastain F (6th Floor) | Applying 3D Printing to STEM Learning Activities  
Presenter: Kuen-Yi Lin  
CTETE |
| 3:00pm – 3:50pm | Chastain G (6th Floor) | Global Collaboration + STEM = Exponential Learning  
Presenters: Kimberly Bradshaw, Tina Coffey |
| 3:00pm – 3:50pm | Chastain H (6th Floor) | STEM Education in China  
Presenter: Jie Wang |
| 3:05pm – 3:45pm | Chastain I (6th Floor) | Closure: Opportunities and Next Steps  
Presenters: Anita Deck, Paul Camick  
Council for Supervision and Leadership |
| 4:00pm – 4:30pm | Chastain A | EPT Reception |
| 4:00pm – 4:50pm | Chastain I (6th Floor) | STEAM Punked! Connect Making to Education for Personal Portable Environments  
STEAM |
| 4:00pm – 4:50pm | Peachtree CD (8th Floor) | ITEEA Task Force Work Session |
| 5:00pm – 6:00pm | Chastain J (6th Floor) | EPT Exemplary Initiation & Reception |
| 5:30pm – 6:30pm | Augusta A (7th Floor) | International/PATT Reception  
International/PATT |
| 6:00pm – 8:30pm | Chastain 1-2 | *TEECA Awards Dinner and Closing Ceremony  
TEECA |

*Ticket required.*
April 14

For session descriptions, view the ITEEA mobile app. Download instructions are on page 4.

7:00am – 8:45am
Augusta 3 (7th Floor)
EPT Breakfast

7:45am – 8:45am
Augusta 2 (7th Floor)
Program Excellence Breakfast

8:00am – 8:50am
Chastain 1 (6th Floor)
Cultivating Language Goals in the STEM Classroom
Presenter: Sharon Carlton

8:00am – 8:50am
Chastain D (6th Floor)
Integrated Educational Ecosystems
Moderator: Pavel Luksha
STEAM Session

8:00am – 8:50am
Chastain E (6th Floor)
Evolution of the Engineering Design Process
Presenters: Douglas Lecorchick, Bryanne Peterson, Megan Morin

8:00am – 8:50am
Chastain G (6th Floor)
Teaching, Learning, and Technology... What is Really Going On?
Presenter: Daniel Carroll

8:00am – 8:50am
Chastain H (6th Floor)
Broadening Borders to Build Better Schools
Presenter: Paul Munshower

8:30am – 10:00am
Augusta G (7th Floor)
China Roundtable Session
Presenters: Jianjun Gu and China Delegation

9:00am – 9:50am
Chastain 2 (6th Floor)
Bridging the Gap Between Science and Engineering
Presenters: Cathi Cox-Boniol, Lindsey Keith-Vincent

9:00am – 9:50am
Chastain D (6th Floor)
Roundtable: STEAM Teams, Programs, and Vision
STEAM Session

9:00am – 9:50am
Chastain E (6th Floor)
Building Bridges Through Stackable Credentials
Presenters: Trevor Robinson, Steve Williams

9:00am – 9:50am
Chastain F (6th Floor)
STEM Integrative Learning: After-School and Summer Camp
Presenter: Carolyn Banks

9:00am – 9:50am
Chastain G (6th Floor)
Renewable Energy and Recreational Charging Station Project/Curriculum
Presenters: Eric Deneault, Danea Buschkoetter, McKenzie Brungardt, Joseph Walters, Blake Dreher, Tanner Swartz, Blake Hinson, Davin Smith

9:00am – 9:50am
Chastain H (6th Floor)
Computer Science, Engineering and Technology Education, Integrated STEM!
Voices from the Field
Presenter: Paul Asunda

9:00am – 10:00am
Chastain I (6th Floor)
CTETE Executive Board Meeting
CTETE

10:15am – 11:45am
Augusta 1 (7th Floor)
ITEEA Awards and Recognition Brunch

12:15pm – 2:45pm
Chastain I (6th Floor)
ITEEA Board Post-Conference Meeting

1:00pm – 4:00pm
*Georgia Aquarium
EDUCATIONAL FIELD TRIP: Georgia Aquarium

3:00pm – 5:30pm
Chastain I (6th Floor)
Executive Committee Board Meeting

*Ticket required.
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TeacherGeek, Inc.  
Texas Instruments  
UBTECH Robotics  
WhiteBox Learning
### Confirmed Exhibitors as of March 29, 2018

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Blue indicates ITEE Corporate exhibitor.
Red indicates Institutional exhibitor.
* indicates ITEE member.
Here in Atlanta, there are SO many exciting activities planned, we created:

The ACTION ANNEX!

Competitions!  STEM Showcase!  Ride-on car builds!  Mini-Theatre Presentations!

It's all here and all free for ITEEA conference registrants!
Here's some of what you'll find on Thursday, April 12th and Friday, April 13th in ITEEA's Atlanta Action Annex!

THE ITEEA STEM SHOWCASE
Highlighting Best Practices Through Integrative STEM Education!
The ITEEA STEM Showcase is a unique and exciting event that features ideas, techniques, or best practices related to learning activities, marketing materials, career guidance, facility design, program design, assessment methods, equity, or classroom and laboratory management techniques. Showcasers illustrate a single element of technology or engineering teaching and learning that they feel they have exemplified. Attendees are invited to join ITEEA in the exhibit area for our Celebration Reception immediately following the STEM Showcase.

GO BABY GO RIDE-ON CAR BUILD
Go Baby Go! provides mobility (and play!) to very young children in the form of adapted toy ride-on cars. Over the course of the conference, faculty and students from Central Connecticut State University will be adapting several motorized ride-on cars near the Exhibit Floor. Detailed information about the Go Baby Go! program and ways to get involved will be available, and all conference attendees are encouraged to stop by for as little or as long as they’d like to see the program in action. On Friday, April 13th, the cars will be donated to children with special needs from the Atlanta area, who’ll “test drive” their new rides before taking them home.
Learn more at www.tedmed.com/talks/show?id=292991.

TEECA STUDENT COMPETITIONS
The Technology and Engineering Education Collegiate Association is well represented at the ITEEA Annual Conference, with over 20 universities participating annually in a series of exciting competitions that require fast-paced ingenuity to solve problems and create solutions pertaining to robotics, manufacturing, and more. This year, teams competing in the Transportation Challenge will work to model, design, and fabricate a new frame for an existing quadcopter that will allow it to pick up packages of varying shapes and sizes and deliver them to predetermined locations. You won’t want to miss the finals!

ITEEA MINI THEATRES
In Atlanta, ITEEA introduces Mini Theaters, which provide a forum for action-oriented presentations on topics such as STEM Wars, BattleBots, Student Competitions, and AMPing up Your STEM Instruction!

Make plans to spend time at the ACTION ANNEX in Atlanta!

Stop by and check out the Action!

For the latest conference information, go to www.iteea.org/ITEEA_Conference_2018.aspx
Students in middle school and up, can learn about aeronautics and problem-solving while they build a complete model from provided kit material and then test how it flies around the PowerPole™. Model planes are evaluated on speed (rpm), load, and how high they fly. Airplanes can now be designed to fly faster and higher, controlled by the operator, with no time limit. Includes PowerPole™ and 2 balsa plane kits. Requires power supply. Use safety glasses.

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