



Forum & Expo

HOSTED BY NSTA

Denver, CO

July 27–29, 2016

Session Evaluations

Help NSTA's GREEN efforts by completing session evaluations online **July 27–August 11, 2016**, while the session is fresh in your mind!

To evaluate a session, you should visit the STEM Forum & Expo session browser (www.nsta.org/stemforumbrowser) and search for part of the session title or presenter's name using the **Find Keyword** search option. Once you find the session you wish to evaluate, simply click the **Evaluate Session** button, enter your badge number, and answer the evaluation questions. When you finish evaluating the session, click the **Submit Evaluation** button. Repeat this process for each session attended.

Note: Our session evaluation system is designed to work from a computer and while it may work on smartphones/tablets, it is not really designed for them.

Concurrent session presenters may also complete an evaluation for their own sessions in order to track professional development credit. Remember—the last day to evaluate STEM Forum & Expo sessions is **August 11**.

Beginning **August 23, 2016**, you can view your transcript at the NSTA Learning Center (learningcenter.nsta.org) by clicking on "My PD Record and Certificates." You can also document credit for activities that are not being evaluated (e.g., Exhibit Hall visits). In addition, the NSTA Learning Center offers professional development experiences (online and face-to-face) for your long-term growth and professionalism.

For more details, see page 8. A Professional Development Documentation Form is included following page 16. This form can help you keep track of sessions/events attended that are NOT available for online session evaluation...and it can be used to take notes on sessions attended that are available for online session evaluation.

Wi-Fi in Colorado Convention Center

Free wireless internet is available in the street-level public spaces and street-level meeting rooms. The name of the network is "Complimentary WIFI."

Graduate Credit Opportunity

STEM Forum & Expo attendees can earn one graduate-level credit in professional development through Framingham State University. For details on the assignment requirements, visit www.framingham.edu/nsta. Questions? E-mail Paula Hogard at phogard@framingham.edu or call 508-626-4034.

Program Changes

5th Annual STEM Forum & Expo, hosted by NSTA

July 27–29, 2016

Wednesday Kickoff: First-Timers Session and Student Panel Discussion followed by Evening Exhibit Preview & Welcome Reception, as well as STEM Leaders' Panel

6th Annual STEM Forum & Expo, hosted by NSTA

Mark your calendar for the **6th Annual STEM Forum & Expo, hosted by NSTA** next summer, which will be held at Gaylord Palms Resort/Kissimmee, Orlando, Florida, **July 12–14, 2017**. Stay tuned to www.nsta.org/conferences for more details.

Exhibit Hall Hours

Located in Exhibit Hall A, exhibits will be open for viewing during the following hours:

Evening Exhibit Preview and Welcome Reception
Wed., July 27 4:30–6:30 PM

Exhibits
Thu., July 28 9:15–3:00 PM
Fri., July 29 9:15–3:00 PM

NSTA Science Store Hours

Be sure to shop the NSTA Science Store. Open Wednesday afternoon/evening and early in the morning before the Exhibit Hall opens, the hours are very convenient.

Wed., July 27 1:00–7:00 PM
Thu., July 28 7:30 AM–5:30 PM
Fri., July 29 7:30 AM–5:30 PM

CAST Booth

The Colorado Association of Science Teachers (CAST) booth is located in the registration area of Hall A of the Convention Center. Stop by for information on the benefits of becoming a member of this organization. Membership forms and information on association activities will be available. This is your opportunity to update your information, renew your membership, or become a member. Find out what is happening in science education in Colorado!

VISIT DENVER Tourist Information Center

Looking for restaurant recommendations or help making reservations? Located inside the 14th and California Street entrance of the Convention Center, the staff here is available to assist with city questions and dining reservations—they know all the best restaurants in the city! Stop by for brochures, maps, and general visitor information. Hours are 9:30 AM–6:30 PM on Thursday and Friday.

Thursday Program Changes

Canceled Sessions

Follow the Road to a Successful STEM Career, presentation, 11:00 AM–12 Noon, 710, Conv. Center (p. 37).

Integrative STEM for Middle School/High School Administrators and Educators, hands-on workshop, 1:30–2:30 PM, 201, Conv. Center (p. 45).

Increasing English Language Learner Vocabulary Through STEM, presentation, 3:00–4:00 PM, 506, Conv. Center (p. 50).

Rescheduled Session

The hands-on workshop **Will It Sink or Float? Why?** has been rescheduled to Thursday, 1:30–2:30 PM, in Room 206, Conv. Center, from Friday, 11:00 AM–12 Noon, Room 207, Conv. Center (p. 72).

New Presenters

Faatimat Sylla (*faatimatsmarts@gmail.com*), Student, George Washington Carver High School, Philadelphia, Pa., joins Betsy Payne et al. as a co-presenter of the presentation **Engaging Teens in Climate Change**, 9:30–10:30 AM, 709, Conv. Center (p. 30).

Rebecca Vieyra (@AAPTHQ; #RVieyraAEF; *rvieyra@aapt.org*), American Association of Physics Teachers, College Park, Md., joins Kimberly Duncan as co-presenter of the presentation **AACT/AAPT/NABT-Sponsored Session: Using the NGSS and the Framework to Implement Crosscutting Concepts in Discipline-Specific Courses**, 11:00 AM–12 Noon, 501, Conv. Center (p. 36).

Jody Bintz (@JBintzBSCS; *jbintz@bscs.org*), BSCS, Colorado Springs, Colo., joins Jaclyn Reeves-Pepin and Cindy Gay as a co-presenter of the hands-on workshop **NABT and BSCS Present: The AP Biology Academy—Professional Development with an Impact, Part 1**, 1:30–2:30 PM, 709, Conv. Center (p. 46).

Friday Program Changes

Canceled Sessions

Global STEM Expeditions: Discovering Real-World STEM Challenges While Circumnavigating the Globe, hands-on workshop, 11:00 AM–12 Noon, 102, Conv. Center (p. 71).

Food Waste, Aviation, and Gaming: Real-World STEM Units with Applied Student Solutions, hands-on workshop, 1:30–2:30 PM, 102, Conv. Center (p. 78).

New Location

The presentation **STEM Literacy: An Innovative Way to Collaborate with Language Arts** is now scheduled in Mile High Ballroom 2C (same day/time) (p. 62).

Rescheduled Session

The hands-on workshop **Will It Sink or Float? Why?** has been rescheduled to Thursday, 1:30–2:30 PM, in Room 206, Conv. Center, from Friday, 11:00 AM–12 Noon, Room 207, Conv. Center (p. 72).

New Session Description

The hands-on workshop **NASA's Beginning Engineering, Science, and Technology (BEST)**, 1:30–2:30 PM, 610/612, Conv. Center, has a new description (p. 80):

Let's use the engineering design process to solve a simulated real-world issue of designing a supersonic parachute for landing large spacecraft on the surface of Mars. This activity is from the NASA's BEST (Beginning Engineering, Science, and Technology) Next Generation educational guide.

New Presenters

David Quigley (*david.quigley@colorado.edu@gmail.com*), University of Colorado Boulder, joins Katie Van Horne as co-presenter of the presentation **Designing a 3-D NGSS Digital High School Biology Curriculum**, 9:30–10:30 AM, 107, Conv. Center (p. 60).

Jeannie Gargiulo (*jeanniegargiulo@gmail.com*), and **Amanda Solarsh** (@stemsuccessedu; *amandasolarsh@gmail.com*), Simon Baruch MS104, New York, N.Y., join Gina Tesoriero as co-presenters of the presentation **Biome Challenges That Will Blow Your Mind!**, 9:30–10:30 AM, 706, Conv. Center (p. 62).

Melissa Scheffer (*msheffer1995@hotmail.com*) and **Aneshka Szczesny** (*aneshka.szczesny@gmail.com*), Millersville University, Millersville, Pa., join Jason Petula as co-presenters of the hands-on workshop **Simple Machine: It's That Simple**, 9:30–10:30 AM, 205, Conv. Center (p. 63).

Taylor Yoo (*taylorwoo15@gmail.com*), Avenues: The World School, New York, N.Y., joins Elizabeth Rosenberger et al. as a co-presenter of the presentation **Designing and Making Your Personal Wooden Ruler Through STEAM**, 11:00 AM–12 Noon, 106, Conv. Center (p. 67).

Christine Anne Royce (@caroyce; *caroyce@aol.com*), Shippensburg University, Shippensburg, Pa., and **Peggy Carlisle** (*peggy.carlisle1@gmail.com*), Pecan Park Elementary School, Jackson, Miss., join J. Carrie Launius and Juliana Texley as a co-presenter of the presentation **STEM Trade Books: What Makes Them Different**, 11:00 AM–12 Noon, 109, Conv. Center (p. 67).

Gina Tesoriero (@stemsuccessedu; *ginatesoriero@gmail.com*), and **Jeannie Gargiulo** (*jeanniegargiulo@gmail.com*), Simon Baruch MS104, New York, N.Y., join Amanda Solarsh as co-presenters of the presentation **Science "STEMIFICATION": Bringing Science Instruction into the 21st Century with STEM Infusions**, 11:00 AM–12 Noon, 706, Conv. Center (p. 69).

Friday Program Changes, cont.

New Presenters, cont.

Jeremy Shorr (@JeremyShorr; *jeremyschorr@tiesteach.org*), TIES Teaching Institute for Excellence in STEM, Cleveland Heights, Ohio, will present the presentation **Early Childhood Fab Labs: Integration of Digital Fabrication into PreK–3 STEM Learning**, 11:00 AM–12 Noon, 210/212, Conv. Center (p. 72).

Steve Krak (@TIESTeach; *stev Krak@tiesteach.org*), TIES Teaching Institute for Excellence in STEM, Cleveland Heights, Ohio, will present the presentation **Developing Successful Capstone STEM Learning Experiences Through Partnerships and Integration of Digital Fabrication**, 1:30–2:30 PM, 606, Conv. Center (p. 76).

Amanda Solarsh (@stemsuccessedu; *amandasolarsh@gmail.com*) and **Gina Tesoriero** (@stemsuccessedu; *ginatesoriero@gmail.com*), Simon Baruch MS104, New York, N.Y., join Jeannie Gargiulo as co-presenters of the hands-on workshop **Science Swipe Right; It's a Match! Scientific Investigations and Engineering Design**, 1:30–2:30 PM, 607, Conv. Center (p. 79).

Raevan Askew, The Jermaine L. Green STEM Institute of Queens, Jamaica, N.Y., joins Ellen Darensbourg et al. as a co-presenter of the presentation **Making STEM a Mind-Set: A Road Map for Change**, 3:00–4:00 PM, 109, Conv. Center (p. 82).

Chelsea Burns (*cburns@windham.k12.ct.us*) and **Ashley Welch**, Charles H. Barrows STEM Academy, North Windham, Conn., join Heather Harkins et al. as co-presenters of the presentation **Triumphs and Deltas: Our Ongoing Journey Toward an Integrated STEM Curriculum at a K–8 Magnet School**, 3:00–4:00 PM, 202, Conv. Center (p. 82).

Liz Decker (*deckeerelizabeth@hotmail.com*), Informal Environmental Educator, Denver, Colo., will replace Kimberly Rickards as presenter of the hands-on workshop **Seed Bombs: Changing the World One Fragrant Explosion at a Time**, 3:00–4:00 PM, 105, Conv. Center (p. 85).

Exhibitors

New Exhibitors

eScience Labs LLC #840
1500 W Hampden Ave. E, M, HS, C
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eScience Labs collaborates with hundreds of higher education institutions to provide a traditional hands-on laboratory experience to students engaged in online and blended learning. Through a combination of hands-on lab kits, virtual learning tools, and customized digital curriculum, eScience Labs helps higher education institutions expand and strengthen science comprehension.

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Website: *www.teachfoodscience.org*

FDA's Center for Food Safety and Applied Nutrition (CFSAN) offers free food safety and nutrition education materials. In collaboration with NSTA, FDA created Science and Our Food Supply, an innovative, interactive curriculum for middle school and high school classrooms. Stop by our booth to learn more about Science and Our Food Supply.

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mcSquares are handheld whiteboards that easily snap together on a wall to create larger, collaborative whiteboard systems.

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NVBOTS® creates automated, enterprising 3D printing solutions. Every day, our customers benefit from our easy-to-use and easy-to-share printing capabilities. Our flagship product, the NVPro™, is the world's first end-to-end 3D printing solution.

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Stop by to see how this Robotics Education Service company incorporates PBL into learning and teaching robotics programming.

The Science Box #340
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E-Mail Correction

The correct e-mail for **Bricks 4 Kidz® (Booth #743)** is *Iskop@bricks4kidz.com* (page 89.)