

Session Evaluations

Chance to Win an Apple iPad mini 2

Help NSTA's GREEN efforts by completing session evaluations online **March 29–April 13, 2017**, while the session is fresh in your mind!

To evaluate a session, you should visit the LA session browser (www.nsta.org/LAbrowser) 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 LA sessions is **April 13**.

Beginning **April 25, 2017**, you can view your transcript at the NSTA Learning Center (learningcenter.nsta.org) by logging on and then clicking **My Profile** under the **Welcome**. Here you'll find a **Certificates** tab, which you can use to access your transcript. 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 learning experiences (online and face-to-face) for your long-term growth and professionalism.

For more details, see page 17 of Vol. 1. A Professional Learning Documentation Form is included following page 32 of Vol. 1. 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.

Parking Rates

Parking rates vary at the Los Angeles Convention Center. Please check with the parking attendant about the current rate.

Wi-Fi at Los Angeles Convention Center

Free wireless internet intended for light web browsing is available at the lobbies. To access, connect to "Free Internet"; no password is required.

Shuttle Schedule Update

Shuttles for the Level Hotel will pick up at the front entrance of the hotel. See the hotel lobby sign for times. Shuttles will depart the Convention Center at Figueroa Drive, Route 2.

Note to Presenters/Exhibitors

As you prepare for the upcoming NSTA National Conference in L.A., please take note of the following three items that require your attention and are critical to the success of the conference:

1. Apparently, there was a recent incident in the Los Angeles news where five high school students were hospitalized when a chemistry experiment went wrong. As a result, NSTA has been advised that there will be extra scrutiny by the Fire Inspector of the sessions during our conference. Please help to ensure our conference is as safe as possible by strictly adhering to the "NSTA Minimum Safety Practices and Regulations for Presenters, Workshop Leaders, Exhibitors, and Advertisers" (www.nsta.org/docs/safetyguidelines.pdf).
2. The unauthorized dumping/disposal of any liquid, solid, organic, hazardous, recyclable waste is strictly prohibited in all building facilities that contain programming for NSTA conferences and meetings (restrooms, sinks, toilets, water fountains, etc.). Any exhibitor/presenter bringing biohazard/hazardous materials on-site must make proper arrangements in advance to ensure they are disposed of off-site.
3. Please note that the Los Angeles Convention Center is a union facility, and hand carts and dollies are prohibited.

Into the Unknown, Presented by the Northrop Grumman Foundation

Thursday, March 30, 6:30–8:30 PM
Off-site, Regal LA Live Cinema

Join the Northrop Grumman Foundation for a screening of *Into the Unknown*, which tells the story of the building of NASA's James Webb Space Telescope—a revolutionary observatory, 100 times more powerful and the scientific successor to the Hubble Telescope. Launching in late 2018, Webb will reveal a universe we have never seen before and is poised to answer questions that have intrigued us for thousands of years. A story for all ages, this film captures the wonder of the cosmos and the timeless human desire to understand our place within the universe.

The film will be followed by a panel discussion with project scientists and engineers. The event is free and open to all registered conference attendees. Reservations are required. Please e-mail karla.hopkins@ngc.com or visit booth #1749. Space is limited.

Note: Regal LA Live is located at 1000 West Olympic Blvd. Transportation is on your own to the theater, which is located fairly close to both the Convention Center and main conference hotels.

NSTA TV

NSTA is partnering with the international film and broadcasting company, WebsEdge, to bring NSTA TV to this year's Los Angeles National Conference on Science Education.

NSTA TV is an on-site conference television channel featuring a new episode daily, screened around the Los Angeles Convention Center, as well as on a dedicated television channel in selected guest hotel rooms and online.

The TV segments will profile prominent science educators and scientists, highlight the hard work of teachers and organizations committed to elevating the quality of science education in the U.S., and provide an opportunity to learn about new teaching strategies and techniques and innovative programs and initiatives that are helping to transform science education and learning.

You can access NSTA TV at the following hotels:

- The L.A. Hotel Downtown channel 14
- Millennium Biltmore channel 87
- JW Marriott Los Angeles channel 72

You can also watch NSTA TV online at www.websedge.com/videos/nsta_tv on social media or the NSTA website.

Complete List of Presenters

A complete list of presenters for each session is available at www.nsta.org/LAbrowser.

Graduate Credit Opportunity

LA conference attendees can earn one or two graduate-level credit hours in professional development through Dominican University of California (dominicancaonline.com) For details, visit bit.ly/2kjinmg, or see Vol. 1, page 16.

Exhibit Hall Hours

Located in Hall H/J of the Los Angeles Convention Center, exhibits will be open for viewing during the following hours:

| | |
|------------------|------------------|
| Thurs., March 30 | 11:00 AM–6:00 PM |
| Fri., March 31 | 9:00 AM–5:00 PM |
| Sat., April 1 | 9:00 AM–3:00 PM |

NSTA Science Store Hours

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

| | |
|----------------|------------------|
| Wed., March 29 | 4:00–7:00 PM |
| Thu., March 30 | 7:30 AM–5:00 PM |
| Fri., March 31 | 7:30 AM–5:30 PM |
| Sat., April 1 | 7:30 AM–4:00 PM |
| Sun., April 2 | 8:00 AM–12:30 PM |

Thursday Program Changes

New Exhibitor Workshops

STEMExplore and EarthEcho Expeditions: Adventures in STEM Education

12 Noon–1:30 PM
512, Convention Center

(Grades 5–12)

Science Focus: ESS2.C, ESS3.C, ETS2.B

Sponsor: EarthEcho International

Philippe Cousteau and **Stacey Rafalowski**, EarthEcho International, Washington, D.C.

Join adventurer Philippe Cousteau, to connect with STEM careers and conservation through the lens of exploration featuring middle school or high school content developed by Cousteau's nonprofit organization EarthEcho International. First, we will connect to STEM careers through STEMExplore, a new digital resource with exciting day-in-the-life videos. Then we will feature EarthEcho Expedition: Into the Dead Zone, Cousteau's upcoming expedition exploring water scarcity in Southern California. Get a sneak peek at our latest design challenge around clean water. Take home STEMExplore and EarthEcho Expeditions resources.

An Evening of Science & Hip-Hop Presented by Master Scientist, Grand Hank

5:30–7:30 PM
Theatre (411), Convention Center

(Grades 1–12)

Science Focus: GEN

Sponsor: The Knowledge Factory, Inc.

Tyraine "Grand Hank" Ragsdale, Grand Hank Productions, Inc., Philadelphia, Pa.

Globally known for engaging multimedia productions, master scientist/rap educator Grand Hank presents this high-energy interactive session with tools and strategies for using exciting science demonstrations combined with the superpower of hip-hop music to pique the interest of hard-to-reach and even harder-to-interest students. This creative out-of-box approach shows how to use music and movement to turn students on to science.

Thursday Program Changes, cont.

Canceled Sessions

Enhancing Science Through Culturally Responsive Teaching, presentation, 8:00–9:00 AM, Kentia Hall L, Convention Center (Vol. 1, p. 90)

FIRST® Tech Challenge Proves You CAN Program a Robot, exhibitor workshop, 10:00–11:30 AM, 305, Convention Center (Vol. 1, p. 106)

Interactive Notebooks Made Equitable, Engaging, and Easy, presentation, 1:00–1:30 PM, Platinum Ballroom Salon J, JW Marriott (Vol. 1, p. 127)

The Broader Impacts/NGSS Connection, presentation, 2:30–3:00 PM, Platinum Ballroom Salon I, JW Marriott (Vol. 1, p. 140)

Elementary Science Methods: Learning to Teach Students with Learning Disabilities, presentation, 5:00–6:00 PM, Olympic 1, JW Marriott (Vol. 1, p. 156)

New Presenter

Nandita Dangoria (*info@measuredprogress.org*), Measured Progress, Dover, N.H., replaces Justine Hargreaves as presenter of the exhibitor workshop **Assess the NGSS: Formative Assessment Strategies for Grades K–8**, 2:00–3:30 PM, 409 AB, Convention Center (Vol. 1, p. 139).

New Room

Come Wiggle with the Bees! Learn All About Bee-havior!, hands-on workshop, 2:00–3:00 PM, has moved to 501C in the Convention Center from Kentia Hall H (Vol. 1, p. 134)

New Session

Meaningful Notebooking!

8:00–9:00 AM

Kentia Hall K, Convention Center

Presentation

(Grades 4–9)

Science Focus: GEN

Karen Ziminski (*karen.ziminski@gmail.com*) and **Darren Wells** (*@dtwinboston; dtwinboston@gmail.com*), Boston (Mass.) Public Schools

Get introduced to a variety of note-booking techniques that will increase student engagement and excitement for learning in ALL students. Students will take pride in their notebooks, and therefore increase the level of effort they put into their work.

Rescheduled Sessions

The presentation **Problem-Posing SSI (Socio-Scientific Issues): Making Science Personal for Diverse Learners** is now scheduled 8:00–9:00 AM in Diamond Ballroom Salon 9, JW Marriott (Volume 1, p. 87).

The presentation **Uncovering Student and Teacher Ideas in Science Using Probes** is now scheduled 12:30–1:30 PM in Diamond Ballroom Salon 10, JW Marriott (Volume 2, p. 93).

The hands-on workshop **Helping Teachers and Students Learn Science Through Picture Books!** is now scheduled 3:30–4:30 PM in Diamond Ballroom Salon 10, JW Marriott (Volume 3, p. 34).

Friday Program Changes

Rescheduled Session

The presentation **A STEM Approach to Integrate Drones as a Teaching and Technology Tool** is now scheduled 9:30–10:00 AM in 504, Convention Center (Volume 3, p. 77).

New Presenter

Nandita Dangoria (*info@measuredprogress.org*), Measured Progress, Dover, N.H., replaces Justine Hargreaves as presenter of the exhibitor workshop **Assess the NGSS: Formative Assessment Strategies for Grades K–8**, 4:00–5:30 PM, 409 AB, Convention Center (Vol. 2, p. 103).

Canceled Sessions

STEM Will Not Grow Among Our Youth Unless We Give Them the Tools to Do So, presentation, 8:00–9:00 AM, Kentia Hall L, Convention Center (Vol. 2, p. 16)

Using Weather Data Collection and Analysis to Promote Data Literacy, presentation, 8:30–9:00 AM, 501C, Convention Center (Vol. 2, p. 29)

New Exhibitor Workshop

Presidential Awards for Excellence in Mathematics and Science Teaching (PAEMST)

8:00–9:30 AM

511C, Convention Center

(Grades 1–12)

Science Focus: GEN

Sponsor: National Science Foundation

Marilyn Suiter and **Nafeesa Owens**, National Science Foundation, Arlington, Va.

K–12 teachers are invited to apply to the Presidential Awards for Excellence in Mathematics and Science Teaching. Recipients receive a paid trip to Washington, D.C.; a citation signed by the President of the United States; and \$10,000. Past awardees will discuss the application process and their leadership roles as PAEMST alumni.

Friday Program Changes, cont.

Canceled Sessions, cont.

Teachers' Use of Mobile Technology Platform to Promote Scientific Inquiry Skills Among Incarcerated Youth with Special Need, hands-on workshop, 11:00 AM–12 Noon, West Hall B-3, Convention Center (Vol. 2, p. 56)

School-Business Partnership United and Ignited Through STEM: NGSS in Action!, presentation, 12:30–1:00 PM, Gold Ballroom Salon 1, JW Marriott (Vol. 2, p. 62)

Science By Design: Addressing Science Concepts Through Engineering, hands-on workshop, 2:00–3:00 PM, Kentia Hall N, Convention Center (Vol. 2, p. 82)

Rethinking Biology in 3D, hands-on workshop, 2:00–3:00 PM, Kentia Hall R, Convention Center (Vol. 2, p. 82)

More than Robots...FIRST® Tech Challenge "Drives" STEM Learning Beyond the Classroom, exhibitor workshop, 2:00–3:30 PM, 305, Convention Center (Vol. 2, p. 85)

Moving to Authentic Assessments, presentation, 3:30–4:00 PM, Plaza 1, JW Marriott (Vol. 2, p. 92)

Building Scientific Literacy by Using Science News Reported in the Popular Media, presentation, 3:30–4:00 PM, Plaza 2, JW Marriott (Vol. 2, p. 92)

Sweet Math: How Much Corn Did I Drink?, presentation, 3:30–4:30 PM, Kentia Hall M, Convention Center (Vol. 2, p. 95)

Empower ALL Students with Neuroscience, presentation, 5:00–5:30 PM, Kentia Hall R, Convention Center (Vol. 2, p. 105)

Real-World and Real Simple Engineering Activities for the Elementary Classroom, hands-on workshop, 5:00–6:00 PM, Kentia Hall J, Convention Center (Vol. 2, p. 108)

NARST-Sponsored Session: Opportunities to Learn Science: A Case Study of Science Classrooms in Successful/Diverse Texas High Schools, presentation, 5:30–6:00 PM, Georgia 1, JW Marriott (Vol. 2, p. 110)

Saturday Program Changes

Canceled Sessions

Unpacking a K–5 Inquiry-Based Science Investigation with a Focus on Engaging English Language Learners, presentation, 8:00–8:30 AM, Kentia Hall G, Convention Center (Vol. 3, p. 15).

Expanding Our Capacity for Observation: Prototyping Tools for Scientific Investigation with Arduino Electronics Boards, hands-on workshop, 8:00–9:00 AM, Diamond Ballroom Salon 9, JW Marriott (Vol. 3, p. 19).

Under the California Sun—Where Photosynthesis Happens!, hands-on workshop, 8:00–9:00 AM, Platinum Ballroom Salon F, JW Marriott (Vol. 3, p. 20).

Common Scientific Misconceptions: An Accurate, Exciting, and Interactive Approach to Teaching Fundamental Concepts in the Primary Grades, hands-on workshop, 8:00–9:00 AM, Kentia Hall F, Convention Center (Vol. 3, p. 20).

Exploring STEM Across the Curriculum, hands-on workshop, 8:00–9:00 AM, West Hall B-2, Convention Center (Vol. 3, p. 22).

Your Ecological Footprint in a 3D NGSS Classroom, hands-on workshop, 9:30–10:30 AM, Kentia Hall K, Convention Center (Vol. 3, p. 34)

Assess the NGSS: Formative Assessment Strategies for Grades K–8, exhibitor workshop, 10:00–11:30 AM, 409 AB, Convention Center (Vol. 3, p. 39)

STEM on a Shoestring: How to Hit the Standards When You Have No Funding!, presentation, 11:00–11:30 AM, 513, Convention Center (Vol. 3, p. 41)

The House Project: A Science-Math Collaborative, Cross-Curricular Design Project, presentation, 11:00 AM–12 Noon, 514, Convention Center (Vol. 3, p. 44)

Engaging Middle School Girls from Underrepresented Groups in Astronomy and Astrobiology Learning Using the Creative Arts, presentation, 11:00 AM–12 Noon, Kentia Hall Q, Convention Center (Vol. 3, p. 44)

Success for Struggling Students, hands-on workshop, 11:00 AM–12 Noon, Kentia Hall H, Convention Center (Vol. 3, p. 48)

Middle School Life Science Activities That Make Science Engaging and Fun, hands-on workshop, 11:00 AM–12 Noon, Kentia Hall R, Convention Center (Vol. 3, p. 48)

STEM Ahead, presentation, 11:30 AM–12 Noon, 513, Convention Center (Vol. 3, p. 50)

Girls Just Want to Do STEM, presentation, 1:00–1:30 PM, 513, Convention Center (Vol. 3, p. 61)

Argue Like a Scientist #SocraticSeminars, hands-on workshop, 2:00–3:00 PM, Kentia Hall K, Convention Center (Vol. 3, p. 66).

Rescheduled Session

The hands-on workshop **Beat Masters: Analyzing the Energy of Sound Waves and Audio Engineering** is now scheduled 9:30–10:30 AM in Diamond Ballroom Salon 8, JW Marriott (Volume 3, p. 22).

Exhibitor Changes

New Exhibitors

Airwolf 3D #1130
 130 McCormick Ave. All
 Suite 105
 Costa Mesa, CA 92626
 Phone: 949-478-2933
 E-mail: info@airwolf3d.com
 Website: www.airwolf3d.com

Southern California-based Airwolf 3D was built on a simple premise: Create a superior desktop 3D printer that empowers users of all ages to create and print objects thought impossible until now by perfecting a fully integrated ecosystem of products that work together to create a seamless 3D printing experience.

Astronomy To Go #1260
 1115 Melrose Ave. B, C, EA, EN, G, PH
 Melrose Park, PA 19027
 Phone: 215-831-0485
 E-mail: astro2go@aol.com
 Website: stores.ebay.com/astronomytogo

As a nonprofit education organization, we fund our traveling astronomy programs through our traveling Museum Shop, which carries a large assortment of astronomy and science-related T-shirts, books, teaching aids, and gifts, as well as an extensive collection of meteorites and tektites. We also carry the full line of GIANT MICROBES. Visit our online store any time at stores.ebay.com/astronomytogo.

Bloxxels Builder #925
 317 N. 11th St. T
 Suite 500 PreK-12, College
 St. Louis, MO 63101
 Phone: 314-541-2642
 E-mail: amber@projectpixelpress.com
 Website: www.bloxxelsbuilder.com

We offer a hands-on platform for kids to build, collaborate, and tell stories through video game creation.

Bone Room #537
 3383 Cerritos Ave. B
 Los Alamitos, CA 90720 K-12, College
 Phone: 510-504-4339
 E-mail: boneroom@gmail.com
 Website: www.boneroom.com

A natural history store, Bone Room is dedicated to providing a range of natural science products to educators as well as to the public. We offer real bones, skulls, and skeletons; insects both framed and in acrylic; fossils; and casts and models from several manufacturers. Natural History For Everyone!

Brown Dog Gadgets #1052
 3540 N. 126th St. G, PH, T
 Unit J 4-12, College
 Brookfield, WI 53005
 Phone: 262-788-9223
 E-mail: joshua@browndoggadgets.com
 Website: www.browndoggadgets.com

Come check out our hands-on STEM and STEAM science projects, great for all ages. We specialize in fun arts and crafts electronics projects that spark creativity in students, but don't break your budget. Stop by our booth and make a free light-up name tag!

Carson Optical #1262
 2070 5th Ave. K-12, College
 Ronkonkoma, NY 11779
 Phone: 631-963-5000
 E-mail: phulbert@carson.com
 Website: www.carson.com

Carson Optical is a leading optical manufacturer of microscopes, magnifiers, telescopes, binoculars, smartphone optical adapters, and more! Look to Carson for all your classroom needs. Use the HookUpz 2.0 to digitally record/capture everything you see through your microscope, telescope, or any optical device and share instantly via text, e-mail, on social media, or in the classroom.

LabSmith #1150
 6111 Southfront Rd. B, C, PH, T
 Suite E 9-12, College
 Livermore, CA 94551
 Phone: 925-292-5161
 E-mail: info@labsmith.com
 Website: www.labsmith.com

For over a decade, LabSmith has been making microfluidic tools used in top research labs around the world. These tools, coupled with curriculum packages, are now available for high school and undergraduate programs. The product suite teaches interdisciplinary engineering skills along with real-world techniques in biology, chemistry, and microfluidics.

Long Beach Marine Institute #518
 6475 E. Pacific Coast Hwy., Suite 281 B, EN
 Long Beach, CA 90803 K-12, College
 Website: www.longbeachmarine.org

We provide marine science and other science-based educational programs aboard our 118-foot research vessel the *Challenger* and on Catalina Island. We can also customize a program to fit with your curriculum. All our programs are adaptable for ages K-12 and university level.

Look Up to the Stars #518
 242 S. Washington Blvd., EA, PH, PD
 Suite 311 K-12
 Sarasota, FL 34236
 Phone: 631-921-9716
 E-mail: kevin@lookuptothestars.com
 Website: www.lookuptothestars.com

Join forces with an international award-winning astronomer and former consultant to NASA. The mission of Look Up to the Stars is to generate interest and foster scientific literacy in K-12 students and teachers nationwide through the delivery of awe-inspiring, educational, and entertaining astronomy programs directly aligning with requirements for STEM.

Planet3 #2317
 1630 Connecticut Ave. NW B, EA, EN, G, T
 Washington, DC 20009 6-8
 Phone: 415-215-9305
 E-mail: hello@exploreplanet3.com
 Website: www.exploreplanet3.com

Planet3 is an exploration-based learning company transforming science education by delivering NGSS content through a digital platform with a compelling game-based narrative using real-world data and case studies. Our curriculum inspires students to understand the connections between STEAM subjects and our changing planet. Become a Planet3 explorer today: exploreplanet3.com.

Seacamp Association, Inc. #2058
 1300 Big Pine Ave. B, EN, G, PD
 Big Pine Key, FL 33043 4-12, College
 Phone: 305-872-2331
 E-mails: info@nhmi.org; info@seacamp.org
 Websites: www.nhmi.org; www.seacamp.org

Seacamp Association is a private nonprofit organization that operates two programs in the Florida Keys. Newfound Harbor Marine Institute is our school-based program offering marine and environmental education programs for visiting school groups. Seacamp is our summer residential program for youth ages 12-17 with programs in marine science, scuba, sailing, and windsurfing.

Exhibitor Changes, cont.

TeacherGeek #2113
 16551 Ridge Rd. PH, T
 Holley, NY 14470 K-12, College
 Phone: 888-433-5345
 E-mail: dcoon@teachergeek.com
 Website: www.teachergeek.com

Come check out our Rockstar Maker/STEM/science supplies, free amazing curricula, and ultra-engaging activities. They are incredibly affordable and incorporate recycling bin materials. Make real working contraptions. Get kits to innovate and reach higher cognitive domains. Plus, they are NGSS focused and made in the United States.

U.S. Dept. of Energy #2348
Office of Fossil Energy EN, T
 1000 Independence Ave. SW 9-12, College
 Washington, DC 20585
 Phone: 202-586-7920
 E-mail: fecomms@hq.doe.gov
 Website: energy.gov/fe

The Office of Fossil Energy is responsible for several high-priority initiatives including implementation of the \$2 billion, 10-year Clean Coal Power Initiative to develop a new generation of environmentally sound clean coal technologies.

U-FUTuRES 2.0 #755
 2423 Norman Hall G
 PO Box 117048 4-12
 Gainesville, FL 32611
 Phone: 352-273-4213
 E-mail: ufutures@coe.ufl.edu
 Website: education.ufl.edu/science-education/u-futures

Additional/Corrected Program Information:

9 Dots
 E-mail: www.9dots.org
 Website: www.9dots.org

ABRAMS
 E-mail: nschaefer@abramsbooks.com

Cubit
 E-mail: christopher.king@cubit.cc

Esri description

Esri applies *The Science of Where* to unlock data's full potential in every organization. We continue to pioneer real-world problem solving using geographic information systems (GIS). Using this powerful platform to reveal deeper insights in their data, Esri users are creating the maps that run the world.

FLIR® Systems, Inc. description

Instead of reading about STEM concepts, FLIR thermal imaging cameras give students the opportunity to learn about heat, temperature, and the electromagnetic spectrum in an interactive and engaging way. See first-hand how FLIR's cameras offer a vehicle for discovery at booth #2139!

Green Edventures, LLC #2252
 5348 Vegas Dr., Suite 1102 EA
 Las Vegas, NV 89108 7-12, College

National Science Foundation description

The National Science Foundation (NSF) is an independent federal agency created "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense... ." The mission of its Education and Human Resources Directorate (EHR) is to achieve excellence in U.S. science, technology, engineering, and mathematics (STEM) education at all levels.

Simulation Curriculum
 E-mail: mgoodman@simcur.com

Slooh—Space for Everyone! #1965
 176 W. Morris St. EA
 Washington, CT 06794 5-12, College

STAR, Inc.
 E-mail: marisac@starinc.org

U.S. ITER
Oak Ridge National Laboratory
 E-mail: paynejp@ornl.gov

Canceled Exhibitor:
Sensavis, The 3D Classroom #925