



Reno, NV Area Conference
October 11–13, 2018

Program Changes

2018 Reno Area Conference on Science Education

October 11–13, 2018

Session Evaluations

Chance to Win an Apple iPad mini 4

Help NSTA's GREEN efforts by completing session evaluations online **October 11–25, 2018**, while the session is fresh in your mind! Please visit page 11 for complete instructions.

On or before **November 6, 2018**, NSTA will e-mail attendees instructions for accessing their respective Reno transcripts. All information in these transcripts will be maintained (and can be accessed) indefinitely as part of an attendee's individual profile.

A Professional Learning Documentation Form is included following page 32. 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.

NSTA Store Hours

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

Wed., October 10	5:00–7:30 PM
Thu., October 11	7:30 AM–5:30 PM
Fri., October 12	7:30 AM–4:30 PM
Fri., October 13	8:00 AM–12 Noon

Graduate Credit Opportunity

Reno conference attendees can earn one (1) or two (2) graduate-level credit/units in professional development through Dominican University of California course **#EDUO 9031**. To obtain credit/units, you must be registered for the NSTA Reno area conference, complete the required assignments, and pay a fee of \$95 for one credit/unit or \$190 for two credits/units. An NSTA transcript is also required. Your required assignments must be successfully completed and sent to the instructor within three weeks of the conference ending date. Deadline is **November 30, 2018**. Visit bit.ly/2QI3KFQ for more information.

Exhibit Hall Hours

Located in Hall 3, exhibits will be open for viewing during the following hours:

Thu., October 11	11:00 AM–5:00 PM
Fri., October 12	9:00 AM–4:00 PM
Sat., October 13	9:00 AM–12 Noon

Super Connections



Win Southwest Airlines tickets PLUS full conference registration! Make **Six Super Connections** at the Reno Area Conference to win **Southwest Airlines tickets PLUS full conference registration** to either the 2019 NSTA St. Louis National Conference or the 8th Annual STEM Forum & Expo in San Francisco.

Simply visit the Exhibit Hall and chat with exhibitors to earn one connection chip per exhibitor visited. Collect six chips and then head to the **NSTA Community Hub** to enter. Two (2) winners will be drawn each day of the conference. Make sure to visit the Exhibit Hall each day to earn connection chips because the more exhibitors you connect with, the more chances you have to win!

Courtesy of Southwest Airlines.

NSTA Teacher's Lounge

While in the exhibit hall, you can relax in the **NSTA Teacher's Lounge** with a game of Jumbo Jenga or Supersized Connect 4 with your friends!

Interested in Joining NSTA?

Be sure to stop by the **NSTA Community Hub**, located at **Booth #715** in the Exhibit Hall. While you're there, ask us about the prizes you can win! Find out more about the benefits of becoming an NSTA member, including all the best professional development and resources a science educator needs. The NSTA Community Hub will be open during exhibit hall hours.

Meet the Presidents and Board/Council

Be sure to stop by **Friday from 2:45 to 3:30 PM** at the entrance to Hall 3 for a special session. Come "meet and greet" with your elected NSTA officers on your way to the exhibits. The President, President-Elect, and Retiring President along with your Board and Council members are looking forward to talking with you at the conference! **We will be giving away several gift cards for use in the NSTA Store totaling \$100.** Must be present to win. Drawing will take place at 3:20 PM.

CATHERINE CORTEZ MASTO
NEVADA

204 RUSSELL SENATE OFFICE BUILDING
WASHINGTON, DC 20510
(202) 224-3542
FAX: (202) 224-7327
CortezMasto.Senate.Gov

United States Senate

COMMITTEES:
BANKING, HOUSING, AND
URBAN AFFAIRS
COMMERCE, SCIENCE, AND
TRANSPORTATION
ENERGY AND NATURAL RESOURCES
AGING
INDIAN AFFAIRS
RULES AND ADMINISTRATION

October 11, 2018

Dear Friends:

It is with great pleasure that I welcome you all to the National Science Teachers Association 2018 Area Conference on Science Education, here in beautiful Reno, Nevada.

The challenges facing today's science educators are multifaceted, and often reach beyond the classroom. The conference theme, "Elevating Science: Digging Deeper", encapsulates the wide range of topics you will cover in discussions and workshops over the course of these three days to assist everyone working in science education in addressing these challenges.



The National Science Teachers Association is vital to the success of our science teachers and their respective curriculums in Nevada and across the country. Whether it is through providing growth opportunities like this conference or in advocating for the teaching of climate science, NSTA is a true champion of advancing scientific study and learning. NSTA's commitment to scientific literacy is evident in its most recent position statement, *The Teaching of Climate Science*, as well as its organizing efforts in helping communities across America host "Marches for Science", to raise awareness of the importance of scientific research and in using facts and data to make policy decisions. The importance of developing a scientifically adept populace through quality teaching and educational opportunities is a goal we share.

I would like to thank retiring NSTA President and University of Nevada, Reno Professor Dr. David Crowther for his dedicated service and welcome current President Dr. Christine Anne Royce. In addition, I would like to thank all of the staff, board of directors, volunteers and participants who made this conference possible.

Best wishes for an inspiring and insightful conference and thank you for all you do to advance education in the sciences within both your classroom and your communities.

Sincerely,

CATHERINE CORTEZ MASTO
United States Senator

LAS VEGAS
333 LAS VEGAS BOULEVARD SOUTH
SUITE 8018
LAS VEGAS, NV 89101
(702) 388-5020
FAX: (702) 388-5030

RENO
400 SOUTH VIRGINIA STREET
SUITE 902
RENO, NV 89501
(775) 686-5750
FAX: (775) 686-5757

Thursday Program Changes

Canceled Sessions

Phenomenal Notebooking: Putting the Interaction into Interactive Notebooks, presentation, 8:00–9:00 AM, D9/10, Convention Center (p. 34).

STEM in the Summer: Travel Experiences for Teachers, presentation, 8:00–9:00 AM, E1, Convention Center (p. 34).

Beyond Spaceship Earth, hands-on workshop, 8:00–9:00 AM, C2, Convention Center (p. 35).

Performance Assessments Combining Math and Science, presentation, 12:30–1:30 PM, D9/10, Convention Center (p. 43).

Anatomy of an NGSS Unit, presentation, 3:30–4:30 PM, A8, Convention Center (p. 51).

New Exhibitor Workshop

Thursday, 2:00–3:00 PM

Take Action to Move Student Learning Forward Using Science and Math Probes!

(Grades K–12)

A4, Convention Center

Sponsor: McGraw-Hill Education

Toni Osterbuhr, McGraw-Hill Education, Columbus, Ohio
Misconceptions are a natural part of learning, but then what? We will highlight grade-level specific probes written by Page Keeley and Cheryl Tobey that nudge learning toward science, math, and STEM targets. Probes coach us to listen to our students, foster uncontainable curiosity, motivate students to do the hard work, and boost social, emotional, and growth mind-sets! Leave with a “toolkit” of ready-to-go probes!

Friday Program Changes

Canceled Sessions

Bring the World to Your Classroom, presentation, 9:30–10:30 AM, F9, Convention Center (p. 62).

Eureka! Science Trade Books—Good as Gold!, presentation, 11:00 AM–12 Noon, D8, Convention Center (p. 68).

The Best STEM Books for Kids: What Are They, How Are They Selected, How to Use Them!, presentation, 2:00–3:00 PM, A19, Convention Center (p. 77).

WIDA Session: Engaging English Language Learners in Science and Mathematics, hands-on workshop, 2:00–3:00 PM, A7, Convention Center (p. 78).

New Location

The presentation **The NSF and the NGSS in the Ruby Mountains of Elko, Nevada** (2:00–3:00 PM) is now in **Treasures C/D, Atlantis**. The original location was E2, Convention Center (p. 78).

New Titles and Descriptions

Friday, 11:00 AM–12 Noon

The exhibitor workshop titled **Moving from Learning to Read and Write...to Reading and Writing to Learn: Literacy Strategies in the Science Classroom** (p. 72) has a new title and description:

Reading, Writing, Thinking, and Talking Science: Literacy Strategies in the Science Classroom

Experience a lesson from the phenomenon-based middle school curriculum Investigating and Questioning our World through Science and Technology (IQWST®) as a model for how instructional materials can engage children in fluent and contextualized ways of thinking, reading, writing, and talking science. Walk away with literacy tools and strategies that can be implemented in any science classroom! Uses IQWST unit, *How Can I Make New Stuff from Old Stuff?*

Friday, 2:00–3:00 PM

The exhibitor workshop titled **Engage ALL Students by Integrating Engineering and Science into Daily Life** (p. 81) has a new title and description:

A Focus on Modeling in the Phenomenon-Based Classroom

As one of the NGSS science practices—developing and using models—allow our students to imagine the unseen, make predictions, ask questions, and develop further investigations. Taken from Investigating and Questioning our World through Science and Technology (IQWST®), participants will experience an anchoring phenomenon and draw a model explaining how it works. Models are then shared, critiqued, and participants are guided to develop a consensus model. Uses IQWST unit, *How Can I Smell Thing from a Distance?*

Saturday Program Changes

Canceled Session

Developing NGSS-Focused Short Stories to Launch a Unit and Hook Students into Science Learning, hands-on workshop, 11:00 AM–12 Noon, A19, Convention Center (p. 92).

New Exhibitors

AeroTech/ Quest Division of RCS #418
Rocket Motor Components C, CS,
 2113 W. 850 N. EA, ENG, G, M, PH, T
 Cedar City, UT 84721 4–12, College
 Phone: 435-865-7100
 E-mail: service@aerotech-rocketry.com
 Website: www.aerotech-rocketry.com

AeroTech/ Quest provides Educational Model Rocketry Products for “A” through “G” type composite solid propellant model rocket motors, using the same family of propellant as the Space Shuttle boosters. We offer starter sets, kits, rocket motors, igniters, launch systems, special class packs, water rockets, and accessories, along with educator discounts.

FDA’s Center for Food Safety #718
and Applied Nutrition (CFSAN) B, C,
 600 Maryland Ave., Suite 180 EA, ENV
 c/o Graduate School
 Washington, DC 20024
 Phone: 202-314-4713
 E-mail: isabelle.howes@graduateschool.edu
 Website: www.teachfoodscience.org

FDA’s Center for Food Safety and Applied Nutrition (CFSAN) offers free food safety and nutrition education materials. FDA, in collaboration with NSTA, created Science and Our Food Supply, an interactive curriculum for middle school and high school classrooms. Learn about the curriculum content and receive free supplementary materials on nutrition.

Girls Who Code #316
 28 W. 23rd St. CS, PD, T
 4th Floor 3–12
 New York, NY 10010
 E-mail: kat.dej-panah@girlswhocode.com
 Website: www.girlswhocode.com

Girls Who Code is a national nonprofit leading the movement to close the gender gap in technology. Our Girls Who Code Clubs are free after-school programs for grades 3–12 girls to join a sisterhood of supportive peers and role models and use computer science to change the world.

National Integrated Cyber #314
Education Research Center CS, M,
 6300 E. Texas St. PH, PD, T
 Bossier City, LA 71111 2–12
 Phone: 318-759-1600
 E-mail: info@cyberinnovationcenter.org
 Website: www.nicerc.org

Based out of Bossier City, Louisiana, NICERC develops innovative cyber-based curricula for use by K–12 teachers across the country. The curricula developed by NICERC is free to any K–12 educator within the United States.

Otto Trading, Inc. #420
 1921 Carnegie Ave.
 Suite C
 Santa Ana, CA 92705-5510
 E-mail: ottotradinginc@gmail.com
 Website: www.unimedmassager.com

Otto aims to manufacture and distribute health, wellness, and medical devices in order to make people’s lives easier and more comfortable.

SDI Innovations #720
 2880 U.S. Hwy. 2231 S CS, ENG, G, T
 Lafayette, IN 47909 K–12, College
 Phone: 800-705-7526
 E-mail: cortney@sdiinnovations.com
 Website: www.schooldatebooks.com

School Datebooks and STEM Education Works, both powered by SDI Innovations, provide skills that will last a lifetime. School Datebooks assignment planners make time management a reality for students. STEM Education Works supports your school’s efforts to introduce and incorporate affordable, teacher-designed, and industry-aligned STEM technology into the classroom.

Exhibitor Update:
Carolina® Curriculum’s e-mail address
curriculum@carolina.com