



Portland, OR Area Conference
November 10-12, 2016

Program Changes

NSTA Portland Area Conference

November 10-12, 2016

Chance to Win an Apple iPad mini 2

Help NSTA's GREEN efforts by completing session evaluations online **November 9–November 29, 2016**, while the session is fresh in your mind!

To evaluate a session, you should visit the Portland session browser (www.nsta.org/portlandbrowser) 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 Portland sessions is **November 29**.

Beginning **December 6, 2016**, 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 **My 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 development experiences (online and face-to-face) for your long-term growth and professionalism.

For more details, see page 12. A Professional Development 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.

Wi-Fi in Convention Center

Complimentary Wi-Fi internet access is available in designated "zones" throughout the Convention Center. Service is intended for casual internet access, e-mail, etc. To access, choose "OCC Comp WiFi Zone"; no code required.

These zones are:

- Portland Roasting 1 coffee shop by the B meeting rooms
- the Stir lounge in the King Lobby
- Portland Roasting 2 coffee shop near the D meeting rooms
- Ginkoberry Concourse adjacent to Portland Roasting 2 coffee shop
- Holladay Lobby

Special Offer

Show your NSTA badge and receive free admission (a \$10 value) to the 27th Annual Holiday Food & Gift Festival, running Friday through Sunday at the Convention Center. For festival details, visit www.hfgf.com/portland.html.

Ticket Updates

F-1 Columbia River Gorge Geology Tour *Sold Out*

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., Nov. 9	4:00–7:00 PM
Thu., Nov. 10	7:30 AM–5:30 PM
Fri., Nov. 11	7:30 AM–4:00 PM
Sat., Nov. 12	8:00 AM–12 Noon

Exhibit Hall Hours

Located in Hall A of the Convention Center, exhibits will be open for viewing during the following hours. Don't forget the Exclusive Exhibits Hall hours on Thursday from 11:00 AM to 12:30 PM and Friday from 1:30 to 3:00 PM. During these hours, there are no teacher sessions scheduled and it's a perfect time to visit the exhibits and discover all the products and services companies and organizations have to offer.

Thurs., Nov. 10	11:00 AM–5:00 PM
Fri., Nov. 11	9:00 AM–3:00 PM
Sat., Nov. 12	9:00 AM–12 Noon

Graduate Credit Opportunity

Portland attendees can earn one (1) graduate-level credit in professional development through Portland State University. For complete details on assignment requirements, go to bit.ly/2aoAWjw. You can also contact Terry Shlaes at shlaest@loswego.k12.or.us with any questions. An NSTA transcript is also required. **Deadline is December 2, 2016.**

Thursday Program Changes

Canceled Sessions

NSTA Press® Session: Argumentation in the Biology Science Classroom, hands-on workshop, 8:00–9:00 AM, E142, Convention Center (p. 42).

So Your Students Won't Talk (Argue)?, hands-on workshop, 2:00–3:00 PM, E146, Convention Center (p. 58).

New Exhibitor Workshop

Exhibitor Workshop 2:00–2:30 PM

Now You See It, Now You Don't

(Grades 5–8) Booth #909, Exhibit Hall

Science Focus: ESS

Sponsor: Science First®/STARLAB®

Justin Pascoe, Science First®/STARLAB®, Yulee, Fla.

In this in-dome workshop, you will learn about solar and lunar eclipses.

New Session Title/Description

The exhibitor workshop **An NGSS Approach to Engineering in the Upper Grade Bands**, 11:00 AM–12 Noon, A106, Convention Center, has a new title, description, and grade levels (p. 48):

Engineering for the NGSS Elementary and Middle School Science Classroom

(Grades K–8)

Engage in hands-on activities as you learn best practices for addressing the engineering standards in the grades K–8 NGSS classroom. From evidence notebooks to self-directed learning, explore the challenges and changes that lie ahead for integrating an incremental or complete retool toward NGSS.

New Presenters

Shelley Olds (*olds@unavco.org*), UNAVCO, Boulder, Colo., joins Cheryl Manning as co-presenter of the hands-on workshop **NESTA Shares: Earth and Space Science Share-a-Thon**, 12:30–1:30 PM, Oregon Ballroom 204, Convention Center (p. 53).

Christy Mathes (*cmathes@ccsd1schools.net*), Campbell County School District, Gillette, Wyo., joins Ana Houseal as co-presenter of the hands-on workshop **Developing and Implementing NGSS-Focused Curricula in Gillette, Wyoming: Focus on Earth and Space Science as a Vehicle for Mathematics and Literacy Integration**, 2:00–3:00 PM, D135, Convention Center (p. 57).

The following presenters join Lisa Martin-Hansen et al. as co-presenters of the presentation **ASTE-Sponsored Session: Sharing Innovative Program Designs for Professional Development and Research in Science Education**, 3:30–4:30 PM, Oregon Ballroom 203, Convention Center (p. 62):

Henriette Burns (*hdburns@wsu.edu*), Washington State University, Pullman

Shay Fairchild (@Spanlmusd; *sfairchild@nlmusd.k12.ca.us*), Norwalk La Mirada Unified School District, Norwalk, Calif.

Jonah Firestone (@jonah.firestone; *jonah.firestone@tricity.wsu.edu*) and **Sarah Newcomer** (*sarah.newcomer@tricity.wsu.edu*), Washington State University Tri-Cities, Richland

Steve Rich (*bflywriter@comcast.net*), University of West Georgia, Carrollton, joins Christine Anne Royce as co-presenter of the hands-on workshop **NSTA Press® Session: Inside or Out: The Perfect Place for Connecting Outdoor Science and Children's Trade Books**, 5:00–6:00 PM, E142, Convention Center (p. 68).

Wendy Abshire (@AMSeducation; *wabshire@ametsoc.org*), American Meteorological Society, Washington, D.C., replaces James Brey as presenter of the presentation **The AMS DataStreme Project: Comprehensive Earth Science Education for Teachers**, 5:30–6:00 PM, B119, Convention Center (p. 69).

Friday Program Changes

New Exhibitor Workshops

11:00–11:30 AM

Earthquakes and Their Causes

(Grades 5–8) Booth #909, Exhibit Hall

Science Focus: ESS

Sponsor: Science First®/STARLAB®

Justin Pascoe, Science First®/STARLAB®, Yulee, Fla.

In this in-dome workshop, you will learn about what causes earthquakes and why they occur where they occur.

3:30–4:30 PM

Start or Grow a Computer Science Program in Your High School

(Grades 9–12) C125/126, Conv. Center

Science Focus: GEN

Sponsor: TEALS Through Microsoft Philanthropies

Helen Henry, TEALS Through Microsoft Philanthropies, Redmond, Wash.

If your high school is one of the 75% of the U.S. high schools that do not offer a computer programming program, learn how classroom teachers can co-teach Intro or AP Computer Science with tech industry volunteers starting as soon as next school year.

Friday Program Changes, cont.

Canceled Sessions

Edible Labs, presentation, 8:00–8:30 AM, B110, Convention Center (p. 71).

3-D Outdoor Learning Strategies, presentation, 9:30–10:30 AM, D130, Convention Center (p. 78).

NSTA Press® Session: Argumentation in the Physical Science/ Physics Classroom, hands-on workshop, 12:30–1:30 PM, E142, Convention Center (p. 91).

Students Tell the Story of a Glacier Using Science, Math, and Literacy, presentation, 5:00–5:30 PM, D130, Convention Center (p. 100).

Stories in the Secondary Science Classroom, presentation, 5:00–6:00 PM, C122, Convention Center (p. 101).

Don't Tell, Let Them Inquire with SOS Explorer: NOAA's Science On a Sphere Data Visualization Tool, hands-on workshop, 5:00–6:00 PM, E144, Convention Center (p. 102).

New Session Title/Description

The exhibitor workshop **An NGSS Approach to Engineering in the Upper Grade Bands**, 8:00–9:00 AM, A106, Convention Center, has a new title, description, and grade levels (p. 74):

Engineering for the NGSS Elementary and Middle School Science Classroom (Grades K–8)

Engage in hands-on activities as you learn best practices for addressing the engineering standards in the grades K–8 NGSS classroom. From evidence notebooks to self-directed learning, explore the challenges and changes that lie ahead for integrating an incremental or complete retool toward NGSS.

New Presenters

Catherine Pozarski-Connolly (*cpozarski@gmail.com*), University of Nevada, Reno, joins David Crowther as co-presenter of the hands-on workshop **Engineering Water Wheels: A Three-Dimensional Approach for Integrating Science and Engineering**, 8:00–9:00 AM, Weidler/Halsey, DoubleTree (p. 72).

Ashley Hamill Murphy (*ashley.hamill.murphy@gmail.com*), The University of Texas at Austin, joins Victor Sampson as co-presenter of the following sessions:

NSTA Press® Session: Argument-Driven Inquiry in Chemistry: Lab Investigations for Grades 9–12, 8:00–9:00 AM, E142, Convention Center (p. 73).

NSTA Press® Session: Argument-Driven Inquiry in Biology: Lab Investigations for Grades 9–12, 9:30–10:30 AM, E142, Convention Center (p. 80).

NSTA Press® Session: Argument-Driven Inquiry in Physical and Life Science: Lab Investigations for Grades 6–8, 11:00 AM–12 Noon, E142, Convention Center (p. 86).

New Presenters, cont.

Jennifer Keil (*jenniferkeil11@gmail.com*), University of Colorado Boulder, joins Marta Gmurczyk et al. as a co-presenter of the hands-on workshop **ACS Session One: Energy in Chemistry—A Macroscopic View**, 8:00–10:00 AM, E145, Convention Center (p. 77).

Chelsea McKinney (*chelsea_mckinney@fws.gov*), U.S. Fish & Wildlife Service National Conservation Training Center, Shepherdstown, W.Va., joins Randy Robinson and Juliana Texley as a co-presenter of the presentation **Engage Your Students Through Conservation Connect**, 9:30–10:30 AM, D138, Convention Center (p. 79).

The following presenters replace Jill Stoddard Tepe as presenters of the hands-on workshop **Integrating Green Chemistry and Engineering Design into Every Classroom: An Interactive Workshop for High School Educators**, 9:30–10:30 AM, D133/134, Convention Center (p. 79):

Mary Burt (*strandmb@hotmail.com*), Walla Walla High School, Walla Walla, Wash.

Jennifer Dean (*jennifer.dean@camas.wednet.edu*), Camas High School, Camas, Wash.

Grace Lasker (*glasker@uw.edu*), University of Washington Bothell

Andrew Uy, Somavia High School, Gonzales, Calif., replaces Brandon Watters as presenter of the following exhibitor workshops:

pH Scale and Math Modeling, 9:30–10:30 AM, B116, Convention Center (p. 81).

Chemical Formula and Amino Acids, 11:00 AM–12 Noon, B116, Convention Center (p. 88).

Sheryl Braile (*brailed@purdue.edu*), Happy Hollow Elementary School, West Lafayette, Ind., joins Lawrence Braile as co-presenter of the following presentations:

Making Waves: Seismic Waves Activities and Demonstrations, 11:00 AM–12 Noon, B110, Convention Center (p. 84).

Tsunami! Understanding the Generation, Propagation, and Hazards of Tsunamis, 3:30–4:30 PM, B110, Convention Center (p. 97).

The following presenters join Jim McDonald as co-presenters of the hands-on workshop **CESI-Sponsored Session: Elementary Science Share-a-Thon**, 11:00 AM–12 Noon, Oregon Ballroom 203, Convention Center (p. 86):

Karen Ostlund (*karen_ostlund; klostlund@utexas.edu*), 2012–2013 NSTA President, and The University of Texas at Austin

Betty Crocker (*betty.crocker@unt.edu*), Retired Educator, Denton, Tex.

Elizabeth Rusch (*author@elizabethrusch.com*), Author, Portland, Ore., joins Pamela Turner and Suzanne Flynn as a co-presenter of the presentation **Science Is a Story: Using Kids' Science Trade Books and the Internet to Explore Current Developments in Science**, 12:30–1:30 PM, D130, Convention Center (p. 90).

Friday Program Changes, cont.

New Presenters, cont.

The following presenters join Pamela Farr as co-presenters of the hands-on workshop **FieldSTEM Plus: An Integrated Learning Model**, 12:30–1:30 PM, D133/134, Convention Center (p. 90):

Denise Buck (*dbuck@pacifieducationinstitute.org*) and **Pat Otto** (*potto@pacifieducationinstitute.org*), Pacific Education Institute, Olympia, Wash.

Diane Satak (*dsatak@sheltonschools.org*) and **Lora Rhoades** (*lrhoades@sheltonschools.org*), Bordeaux Elementary School, Shelton, Wash.

Andrea Huntoon (*huntoon@fvtc.edu*), Fox Valley Technical College, Appleton, Wis., joins Alishia Huntoon as co-presenter of the hands-on workshop **Recipe for Research and Application: The Science of Food and Eating**, 12:30–1:30 PM, D135, Convention Center (p. 91).

Virginia Rehberg, Wilson High School, Tacoma, Wash., replaces Dawn Posekany as presenter of the following exhibitor workshops:

What Is a Species, 12:30–1:30 PM, B116, Convention Center (p. 92).

Cell Differentiation and Gene Expression, 2:00–3:00 PM, B116, Convention Center (p. 94).

Energy Flow Through an Ecosystem, 3:30–4:30 PM, B116, Convention Center (p. 99).

The following presenters join Holly Bensel as co-presenters of the presentation **Globe at Night Citizen Science Program**, 3:30–4:30 PM, B119, Convention Center (p. 97):

John Gibbs, Glencoe High School, Hillsboro, Ore.

Laura Orr (*laura.orr@ukiah.k12.or.us*), Ukiah High School, Ukiah, Ore.

The following presenters join Steve Wood as co-presenters of the presentation **Strengthen Your STEM Lessons with NSTA High School Committee Activities**, 3:30–4:30 PM, D130, Convention Center (p. 97):

Lauren Albert, Kristen One (*kone@d125.org*), and **Kristy Wrona** (*kwrone@d125.org*), Adlai E. Stevenson High School, Lincolnshire, Ill.

Rebecca Reilly (*rreilly@omsi.edu*), OMSI, Portland, Ore., joins Elizabeth Andanen as co-presenter of the hands-on workshop **No-Hassle Messy Science with a Wow! Chemical Reactions**, 3:30–4:30 PM, E141, Convention Center (p. 98).

Mary Zelinski (*zelinski@ohsu.edu*) and **Diana Gordon** (*gordondi@ohsu.edu*), Oregon National Primate Research Center, Beaverton, join Lynda Jones as co-presenters of the hands-on workshop **Cancer Medicine Focus Enhances Biology Curriculum: Cryopreservation**, 3:30–4:30 PM, E144, Convention Center (p. 99).

David Slavit (*dslavit@wsu.edu*), Washington State University Vancouver, joins Tamara Nelson as co-presenter of the presentation **What Does STEM Education Look Like in Grades 6–12 Science Classrooms?**, 5:00–5:30 PM, D140, Convention Center (p. 100).

The following presenters join Jennifer Dean and Mary Burt as co-presenters of the presentation **Integrating Green Chemistry and Engineering Design into Every Classroom for High School Educators**, 5:00–6:00 PM, Oregon, DoubleTree (p. 101):

Grace Lasker (*glasker@uw.edu*), University of Washington Bothell

Karolina Mellor, Program Coordinator, New Haven, Conn.

Saskia VanBergen (*@Saskia_SvB; sava461@ecy.wa.gov*), University of Washington, Seattle

Melissa Mullins, Baylor University, Waco, Tex.

Carolyn Schwensen (*cschwenn@yahoo.com*), Cate School, Carpinteria, Calif., joins Angela Powers as co-presenter of the presentation **Incorporating CCSS for Literacy in Science and Technical Subjects into Introductory Chemistry Investigations**, 5:30–6:00 PM, D130, Convention Center (p. 102).

New Location

The hands-on workshop **Moon Mania: Modeling Lunar Phases** is now scheduled in E141, Convention Center, instead of D132 (same day/time) (p. 90).

Saturday Program Changes

Canceled Sessions

Bringing Science to Life: Authentic Learning Experiences, presentation, 8:30–9:00 AM, D140, Convention Center (p. 108).

Interactive Notebooks in the Secondary Science Classroom, hands-on workshop, 11:00 AM–12 Noon, C122, Convention Center (p. 112).

Science in the “Shark Tank,” hands-on workshop, 11:00 AM–12 Noon, Mt. Hood, DoubleTree (p. 112).

New Presenters

Philip Wade (*wadep@mail.wou.edu*), Western Oregon University, Monmouth, joins Arlene Courtney as co-presenter of the presentation **Flipping, Cinematography, Podcasting, and Authoring: Nontraditional Teaching Strategies to Engage Students in the Science Classroom**, 8:00–9:00 AM, B119, Convention Center (p. 105).

Saturday Program Changes

New Presenters, cont.

Philip Bell (*pbell@u.washington.edu*), University of Washington, Seattle, joins Shelley Stromholt as co-presenter of the following sessions:

How to Make Science Instruction Compelling for Students: Designing Formative Assessments to Build on Learners' Interests and Knowledge, 8:00–9:00 AM, E145, Convention Center (p. 107)

STEM Teaching Tools: Linking Research and Practice, 11:00 AM–12 Noon, Alaska/Idaho, DoubleTree (p. 111)

Nichole LeGrant (*legrantn@pcsb.org*), Douglas L. Jamerson, Jr. Elementary School, Saint Petersburg, Fla., joins Margaret Giunta as co-presenter of the hands-on workshop **Goldilocks, an Engineer?**, 9:30–10:30 AM, D135, Convention Center (p. 110).

Devalyn Rogers (*devrog@sbcglobal.net*), Hoffman Middle School, Houston, Tex., joins Christine Shupla and Nana Baffour as a co-presenter of the hands-on workshop **Seasons in the Sun**, 9:30–10:30 AM, E141, Convention Center (p. 110).

The following presenters join Cait Goodwin and Kama Almasi as co-presenters of the presentation **Making Waves with Marine-Themed Project-Based Learning**, 11:00 AM–12 Noon, D140, Convention Center (p. 112):

Tracy Crews (*tracy.crews@oregonstate.edu*), OSU Hatfield Marine Science Center, Newport, Ore.

Ruth McDonald (*wesmcd@charter.net*), Lincoln County School District, Newport, Ore.

Joshua Jannusch (*jannuschj@warrentonk12.org*), Warrenton-Hammond School District, Warrenton, Ore.

Exhibitor Changes

New Exhibitors

<p>Foresters Financial Services #424</p> <p>9400 SW Beaverton-Hillsdale Hwy. Suite 250 Beaverton, OR 97005 Phone: 503-296-7676 E-mail: <i>robert.krage@foresters.com</i> Website: <i>www.foresters.com</i></p>	<p>Seattle Times Newspapers #724</p> <p>In Education EN, G</p> <p>1000 Denny Way K–12, College Seattle, WA 98109 Phone: 206-652-6361 E-mail: <i>lperrin@seattletimes.com</i> Website: <i>nie.seattletimes.com</i></p>	<p>TEALS Through Microsoft #422</p> <p>Philanthropies PD</p> <p>1 Microsoft Way, Bldg. 34 9–12 Redmond, WA 98052 Phone: 425-681-4804 E-mail: <i>v-helhen@microsoft.com</i> Website: <i>www.tealsk12.org</i></p>
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