

11th Annual NSTA Global Conversations in Science Education Conference
Science Goes Global: The Next Generation

Broadway E, Omni Nashville Hotel, Nashville, Tennessee
Wednesday, 30 March 2016

Ticket: M-1 / Cost: \$10 – *by pre-registration only*

Agenda

(3/21/2016)

- 8:00 AM** **Departure from Omni Nashville Hotel (*Educational trip participants only*)**
W-1 Global Conversations, Welcome to My Classroom: Elementary
W-2: Global Conversations, Welcome to My Classroom: High School
Ticket Price: \$30; *by pre-registration only (*arrive at least 15 minutes prior to departure time)*
- 10:00 AM** **Poster setup** (*Setup until 12 Noon for those who attend the school excursion)
- 12 Noon** **Lunch**
- 12:15 PM** **Welcome – NSTA Leadership and Conference Chair**
Carolyn Hayes, NSTA President, 2015-2016, Indiana, USA
Oliver Grundmann, NSTA International Advisory Board Chair, 2015-2016, Florida, USA
NSTA International Advisory Board Members
- 12:30 PM** **Opening Speaker**
Teaching Science with a Global Citizenship Approach: The Association for Science Education
Speaker: Shaun Reason, The Association for Science Education, United Kingdom
- The session will focus on creating relevant contexts and creative hooks for science lessons using global contexts with reference to successful Association for Science Education (ASE) projects and activities for students aged from 5 to 18 in the UK and internationally. The science based themes of the United Nations 'Sustainable Developments Goals' aim to make our planet fair, healthy and sustainable by 2030. Science plays a crucial role in meeting these targets to end poverty, fight inequality and justice and tackle climate change. Global Citizenship provides a wealth of real-life contexts for learning science.*
- 12:50 PM** **Presentation Session 1**
The GAIA Project: Student, Crowd-Sourced, Environmental Science Research
Speaker: Stuart A. Fleischer, The Walworth Barbour American International School in Israel
- A Comparative Study of the Standards for High Schools Chemistry in the United States and in China**
Speaker: Yi Li and Ann Rivet, Teachers College, United States
- 1:30 PM** **Participant Break and Roundtable Discussion 1**
- 1:50 PM** **Presentation Session 2**
Mothers Talking Everyday Science in Bangladesh
Speaker: Sue Dale Tunnicliffe, University of London, United Kingdom

Using Fictional Storybooks in Understanding French Children’s Ideas of Animal Metamorphosis?

Speakers: Catherine Bruguiere, University of Lyon, France and Sue Dale Tunnicliffe, University of London, United Kingdom

Chemistry – The Life We Live-Teaching Chemistry from ‘Known’ to “Unknown” (songs and drama)

Speaker: Margaret Enedoh, Imo State University, Nigeria

Linking Local Wisdom, Place-based and Environmental Education in Southeast Asia (Isan, Thailand)

Speaker: Parichat Saenna, Khon Kaen University, Thailand

3:10 PM Participant Break and Poster Presentations

3:40 PM Panel Discussion

K-12 Global Collaborative Science Teaching from Policy to Practice

Walter S. Smith, Daniel Carpenter, Jill Nugent, Camille Stegman and Terry Sutton, Texas Tech University, United States

4:05 PM Presentation Session 3

The Flipped Lab: Reviving Science Education with Virtual Reality Simulations

Speaker: Maarooof Fakhri, Labster, Denmark

Measuring the Angular Speed of Venous Using a DSLR Device

Speaker: Mohammad Alshahrani, Bisha College of Technology, Saudi Arabia

4:45 PM Roundtable Discussion 2

5:15 PM Closing Remarks

Carolyn Hayes, NSTA President, 2015-2016, Indiana, USA

NSTA is extremely grateful to Northrop Grumman Foundation, Labster, and Google Inc. for their generous support and contribution to this event.

For updates and announcements, please check the Global Conversations Conference website: <http://www.nsta.org/international/>

Poster presentations

A Mixed Methods Exploration of Global Education Among International Baccalaureate Schools of the Americas

Linda Cook, Coppell Independent School District, Texas, United States

Developing STEM Academies to Develop the Next Generation of Scientists and Engineers

Michael Odell and **Teresa Kennedy**, University of Texas at Tyler, United States

Dramatic Inquiry: Using Theatrical Pedagogies to Inspire Children's Investigative Thinking

Deb McGregor, Oxford Brookes University, United Kingdom

Drilling Back to the Future: What Do Ice Cores Tell Us About Global Change?

Louise Huffman, Ice Drilling Program Office, Dartmouth College, United States

Engaging High School Students with "Big Data": Societal Implications, Analytical Practices, and Classroom Activities

G. Michael Bowen, Mount Saint Vincent University, Halifax, Nova Scotia, Canada, **Donna Governor**, Forsyth County Schools, Georgia, United States, and **Eric Brunsell**, University of Wisconsin-Oshkosh, United States

Engineering in K12 Teaching and Learning Environment: Experiences from ENGINEER Project in Turkey

Bulent Cavas, **Jack Holbrook**, and **Miia Rannikmae**, International Council of Associations for Science Education (ICASE), and **Ilhan Silay**, Dokuz Eylul University, Turkey

Enhancing Middle School Science Learning Through Exploration Curriculum and Service Learning

Chih-Che Tai, East Tennessee State University, United States, and **Mao-Cheng Lin**, Guang Wu Junior High School, Taiwan

Global School Reform of Professional Learning Communities and the Collaborative Culture: The Intellectual and Physical Shared Workspace Model

Daniel Carpenter and **Brenda Bartlett**, Texas Tech University, United States

Introducing Biology Undergraduates to Authentic Research through Grand Challenges in Global Health

Kathleen A. Marrs and **James A. Marrs**, Indiana University-Purdue University Indianapolis (IUPUI), United States

Philosophical Toys

Richard Frazier, American Embassy School, India

Polar Educator International: Educators from all Around the World Bringing Polar Sciences into Classrooms

Alessia Cicconi, University of Camerino, Italy, **Sarah Bartholow**, Arctic Research Consortium, United States, and **Louise Huffman**, Ice Drilling Program Office, Dartmouth College, United States

Special Science Programs for Students in Taiwan

Kate Fraser, Perkins School for the Blind, United States, and Changhua National Education University, Taiwan

Stories of Symbiosis: An Appealing Path to Dynamic Systems

Richard Frazier, American Embassy School, India

Switching Traditional to Student-based Teaching in a High School Chemistry Curriculum

Martha P. Pérez and **Oralia Ramirez**, Universidad de Monterrey, Mexico

Three Nations: An Engaged Global Engineering Collaboration

Walter Smith, Texas Tech University, United States, **Kuen-Yi Lin**, National Taiwan Normal University, Taiwan, **Tarah McDonald** and **Thalia Micklewhite**, College of the Bahamas, Bahamas