The Farthest Voyager in Space
Special Screening
Georgia World Congress Center
Friday, March 16, 2018
Register: hhmi.org/farthest

Movie Nights
Presented by hhmi | BioInteractive

THE FARTHEST VOYAGER IN SPACE

Special Screening
Georgia Aquarium
Thursday, March 15, 2018
Register: hhmi.org/backyardwilderness

Special 3D Screening
Georgia Aquarium
Thursday, March 15, 2018
Register: hhmi.org/backyardwilderness
“I want to geek out with my science teacher friends from around the country!”

“I love the exhibit hall swag but mostly I need more confidence with NGSS.”

“As a department chair and coordinator of a medical STEM program at an urban girls school, I am always searching for resources on a budget. The NSTA conference is a treasure trove of ideas, resources, and contacts.”

“I am the only science teacher in my district attending this year. It’s my responsibility to bring back great ideas and best practices to share with my district.”

“I am really excited to learn about flipped classrooms, STEM, and implementing NGSS in my classroom!”

— PAST NSTA CONFERENCE ATTENDEES
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speakers</td>
<td>3</td>
</tr>
<tr>
<td>Community Connections Forums</td>
<td>8</td>
</tr>
<tr>
<td>Meet Me in the Middle Day</td>
<td>9</td>
</tr>
<tr>
<td>Elementary Extravaganza</td>
<td>10</td>
</tr>
<tr>
<td>First-Timers' Session</td>
<td>10</td>
</tr>
<tr>
<td>NGSS@NSTA Forum and Share-a-Thon</td>
<td>11</td>
</tr>
<tr>
<td>Professional Learning Institutes</td>
<td>12</td>
</tr>
<tr>
<td>Networking Event</td>
<td>14</td>
</tr>
<tr>
<td>NSTA Science Store and Press® Sessions</td>
<td>15</td>
</tr>
<tr>
<td>Sample Conference Schedule</td>
<td>17</td>
</tr>
<tr>
<td>Educational Trips</td>
<td>18</td>
</tr>
<tr>
<td>Graduate Credit Opportunity</td>
<td>23</td>
</tr>
<tr>
<td>Committee Leaders</td>
<td>23</td>
</tr>
<tr>
<td>Short Courses</td>
<td>24</td>
</tr>
<tr>
<td>Registration and Travel Arrangements</td>
<td>28</td>
</tr>
<tr>
<td>Exhibitors</td>
<td>30</td>
</tr>
</tbody>
</table>
Speakers

Keynote Speaker

Teaching Through Adversity: Facing Challenges and Making a Difference

Ron Clark /// @ronclarkacademy
Founder of The Ron Clark Academy, Atlanta, Ga.

A 2000 Disney American Teacher of the Year awardee, Ron Clark will share his journey from teaching in a low-wealth rural area in North Carolina to the inner-city streets of Harlem in New York City. Ron will use stories from his experiences with his students and examples of award-winning projects they conducted to show how to motivate and inspire disinterested students. In 2006, he founded The Ron Clark Academy, an inner-city school serving students from across metro Atlanta. The privately funded institution is unique for its innovative teaching methods and curriculum based on worldwide travel. Each year the students, grades 5–8, apply their in-class lessons to international adventures. He has also authored several books, including The Essential 55: An Award-Winning Educator’s Rules for Discovering the Successful Student in Every Child.

FEATURED PRESENTATION

3-D Science Assessment: How Do You Still Make Construction a Priority?

Stephen Pruitt /// @DrSPruitt
Commissioner of Education, Kentucky Board of Education

Before being tapped as commissioner for Kentucky, Stephen Pruitt served as senior vice president at Achieve, Inc. During his tenure with Achieve, Stephen coordinated the development of the Next Generation Science Standards. He began his career as a high school chemistry teacher in Georgia, where he taught for 12 years. In 2003, he joined the Georgia Department of Education as program manager for Science. Until 2010, he held various roles in the agency, culminating with him being named chief of staff to the state School Superintendent, coordinating the work of the agency.

STRAND

Focusing On Evidence of 3-D Learning

States continue to develop and adopt standards that build on a three-dimensional approach, which calls on students to use disciplinary core ideas, science and engineering practices, and crosscutting concepts to explain real-world phenomena and solve authentic problems. Three-dimensional learning allows students to connect science to their everyday lives and helps prepare them for future careers. This approach is fully realized only when instruction leads to tangible evidence of three-dimensional learning through authentic student products. This strand will help teachers, whether they are 3-D novices or experts, expand their understanding of three-dimensional teaching, learning, and assessment. Sessions in this strand will target participants with a beginning, intermediate, or advanced level of familiarity with three-dimensional learning.
FEATURED PRESENTATION

Science Is to STEM as Coffee Is to Starbucks: Real World, Relevant, and Grounds for the Perfect Integration

Jo Anne Vasquez /// @stemlessons

Science provides the main “ingredient” to help students learn about the world around them—to answer questions, solve problems, and construct explanations. Science is the anchor for developing interdisciplinary STEM instruction. Join Jo Anne to explore together how easy it is to use science as the main ingredient in the STEM instructional recipe. Jo Anne’s various job titles include classroom teacher, district science specialist for Mesa Public Schools, adjunct professor of science education at Arizona State University, and director of professional development and outreach at ASU’s Center for Research on Education in Science, Mathematics, Engineering and Technology (CRESMET). Currently, she is a STEM education consultant.

STRAND

Imagining Science as the Foundation for STEM

STEM education has become a priority for many states as we seek to provide today’s students with the real-world, innovative skills that they will need to be successful in tomorrow’s world. STEM instruction that builds on the foundation of core science ideas provides students with opportunities that equip them to make sense of the world in which they live, hone their critical-thinking skills, and spark their sense of innovation.

FEATURED PRESENTATION

Engaging All Students in Science

Okhee Lee /// @LeeOl16
Professor of Childhood Education, Steinhardt School of Culture, Education, and Human Development, New York University

There is broad consensus on the vision of academically rigorous science learning with all students to be ready for college and careers in STEM fields. This vision coincides with the rapidly growing student diversity in the nation...hence, “all standards, all students.” As the NGSS begin to take hold in schools and classrooms across the nation, it is critically important that science educators are prepared for classroom implementation. Okhee will present NGSS-focused instructional materials for diverse student groups, including English language learners.

STRAND

Reflecting On Access for All Students

Research has identified the unique challenges of a number of underserved groups, including students from urban and rural areas, English language learners, students with low socioeconomic status, those with special needs, gifted and talented students, and students from diverse cultural backgrounds. Cultivating a culture of equity and inclusion for all students not only aligns with the NSTA mission statement and the vision put forth by A Framework for K–12 Science Education, but also prepares students for future career opportunities in a global society.
MARY C. McCURDY LECTURE

Cultivating Every Child’s Curiosity in the Natural World

Carla Zembal-Saul / / / @czem
The Kahn Professor of STEM Education, Penn State, University Park, Pa.

Young children are naturally curious about how the world works and are capable of sophisticated thinking and reasoning. In the age of an ambitious framework and the Next Generation Science Standards, there is a compelling focus on young children—nurturing their wonder about phenomena and equipping them to engage in scientific discourse and practices for investigating the natural world. Carla will share the approaches that elementary teachers are using to leverage children’s natural curiosity in early grades to support three-dimensional learning in science. Special attention will be given to approaches intended to engage English language learners. A former middle school science teacher with a background in biology, Carla is co-author of the book, What’s Your Evidence? Engaging K–5 Students in Constructing Explanations in Science.

STRAND

Comprehending the Role of Literacy in Science

A great number of personal and societal issues require citizens to draw upon a foundation of scientific knowledge, technological understanding of problem solving, and the ability to design scientific solutions to obtain, evaluate, and communicate information in order to make informed decisions. Engaging ALL students in science, beginning in the early years, is the way to develop students’ skills in thinking creatively, expressing themselves, and investigating their world. As college- and career-ready students investigate natural phenomena, they should be able to communicate their argument-driven claims based on data-driven evidences. Science core ideas can be developed by using current technology and media to create, refine, and collaborate through reading, writing, listening, and speaking. This strand will allow educators to become advocates of literacy in preK–12 science and engineering, to see the connections between science and literacy, and to learn literacy strategies that encompass active student engagement.

FEATURED PRESENTATION

Reframing Reading as an Inquiry Practice of Science

Cynthia L. Greenleaf
Co-Director, Strategic Literacy Initiative, WestEd, Oakland, Calif.

What if science teachers did not have to choose between engaging students in science practices and building their literacy skills? Cynthia’s talk will offer compelling reasons to read in science classes, as well as science-supportive ways to do so. She will show examples of curriculum and videos of science classrooms that illustrate how reframing reading as an investigation can help students gain both science and literacy practices. Cynthia has co-authored the books Leading for Literacy: A Reading Apprenticeship Approach and Reading for Understanding.
ROBERT H. CARLETON LECTURE

My Teaching Career—The Good, the Bad, the Ugly

Edward Ortleb
1978–1979 NSTA President and Science Consultant, Saint Louis, Mo.

Join Ed for highlights of his teaching career as an elementary teacher, science supervisor, adjunct university professor, and textbook author. He will take attendees on a trip down memory lane with the comical and not-so-comical events of his wondrous 40 years in education. For decades, Ed has lectured, taught, and written prolifically on science education. His many roles include classroom teaching at the primary and intermediate levels, model teaching, curriculum leadership positions, university faculty member, author, and science education consultant. He has written over 100 publications for teachers and students, including textbooks for major publishing companies along with authoring or co-authoring eight science research articles that appeared in juried publications.

NSTA/ASE HONORS EXCHANGE LECTURE

Literacy and Success in Science

Linda Needham // @NeedhamL56
Chair, The Association for Science Education (ASE), Herts, U.K.

A native of Leeds, West Yorkshire, Linda Needham is chair of The Association for Science Education in the United Kingdom. She will address the universal issue facing science teachers everywhere of too much lesson plan content (schemes of work in England) and too little time, as well as the emphasis on developing mathematical and literacy skills to ensure student success in science examinations. She will share ideas to strengthen students’ use of literacy to make them better scientists. Linda holds a degree in biological sciences from The University of Lancaster and a post-graduate certificate in education from Loughborough University. She also is a Chartered Science Teacher (CSciTeach), a professional recognition for excellence in science teaching and learning.

NSTA wishes to thank The Association for Science Education (ASE) for sponsoring this speaker.
Citizen Science: How Ordinary People Are Changing the Face of Discovery

Caren Cooper /// @CoopSciScoop
Associate Professor of Forestry and Environmental Resources, North Carolina State University, Raleigh; and Assistant Head, Biodiversity Research Lab, North Carolina Museum of Natural Sciences, Raleigh

Around the world, in fields ranging from astronomy to zoology, millions of people are choosing to participate in the scientific process through citizen science. In schools, citizen science can help prepare young people for future STEM career paths and, as important, to become well-rounded adults in which science is a lifelong hobby and a form of civic engagement. Citizen science challenges old notions about who can conduct research, where knowledge is acquired, and even how solutions to some of our biggest societal problems might emerge. An ecologist with broad interest in conservation and natural resource management, Caren has authored the book Citizen Science: How Ordinary People Are Changing the Face of Discovery.

NSTA wishes to thank Brandwein Institute for sponsoring this speaker.

Chasing Coral Bleaching: A Present and Growing Ecological Disaster

C. Mark Eakin /// @MarkEakin
Coordinator, NOAA Coral Reef Watch, National Oceanic and Atmospheric Administration, Silver Spring, Md.

Coral reefs have shown us that climate change is impacting nature and people now—it’s not just some far-off problem we can worry about later. Mass coral bleaching is only a 35-year-old problem and it has been increasing in frequency and severity; a gruesome picture painted during the recent three-year global coral bleaching event. The focus of this talk will be on describing this growing problem and its haunting future while attempting to leave you hopeful that we still can save coral reefs before they are all gone. NOAA resources will be shared to understand this essential marine ecosystem, how we study them, and how we can help save them. We’ll also explore a new film, Chasing Coral, that takes students—and everyone else—on a journey to document and understand coral reefs and the problems they face.

NSTA wishes to thank the American Geophysical Union and the National Earth Science Teachers Association for sponsoring this speaker.
Community Connections Forums

The Community Connections Forums build awareness of the abundance of existing high-quality out-of-school (informal) science education methods, resources, and opportunities available to enhance science teaching and learning. Both out-of-school and in-school science educators meet and interact to share best practices in informal science, learn about exciting collaborations happening among informal and formal science organizations, network with colleagues, and dialogue around ideas and innovations. Informal organizations participating in the Community Connections Forums include zoos, museums, media, after-school programs, universities outreach, and others that provide or support out-of-school science education.

Thursday, 3:30–4:30 PM  Exploring Strategies for Culture-Inclusive Student Engagement (see speaker on facing page)
Friday, 10:00 AM–12 Noon  Featured Presentation and Panel  Spare Parts: Re-Inventing Engineering Education for the 21st Century (see details below)
Friday, 12:30–2:30 PM  Community Connections Share-a-Thon
Saturday, 12:30–2:30 PM  Learn How to Better Advocate for Science and Science Education

COMMUNITY CONNECTIONS FEATURED PRESENTATION AND PANEL

Spare Parts: Re-Inventing Engineering Education for the 21st Century

Fredi Lajvardi /// @falconmaster
Nationally Recognized STEM Educator and Subject of the Critically Acclaimed Documentary, Underwater Dreams, and Major Motion Picture, Spare Parts

Fredi Lajvardi will open this two-hour featured presentation and panel with an engaging story about how he led a group of high school teenagers to achieve the impossible—defeating leading universities in an underwater robotics competition. Then we will hear from engineering education pioneer Woodie Flowers, who co-founded FIRST Robotics Competition along with Dean Kamen. Completing our panel will be Craig Forest, founder of the acclaimed Georgia Tech Invention Studio; Lonnie Johnson, former NASA spacecraft engineer and inventor of the Super-Soaker; and Danielle Newman, executive director of Kell Robotics. The moderator will be Ed Barker, the 2011 NSTA Faraday Award recipient.

Honored with numerous awards for his spirited passion for teaching, Fredi continues to serve as a prominent advocate about the importance of STEM education nationwide. With humor and compassion, Fredi brings audiences on his inspiring journey, illustrating the need to embrace diversity and invest in people to help others realize their potential. His incredible real-life tale equips you with encouragement to maximize your own potential and to work together to solve complex problems.
Exploring Strategies for Culture-Inclusive Student Engagement

Eric Jolly
President and Chief Executive Officer, The Saint Paul & Minnesota Community Foundations

This session will aid educators by exploring strategies for uncovering students’ natural curiosity and joy in learning. Eric Jolly will examine language metaphor and cultural issues that can open STEM disciplines to all students. In his role as president and chief executive officer of The Saint Paul & Minnesota Community Foundations, Eric continues his lifelong work to educate, elevate, and give voice to people in his communities. Eric began leading the foundations in August 2015 and has declared his intention to create a philanthropic arc to serve donors at all stages of life who are committed to strengthening their communities. He was appointed by President Obama to the Institute of Museum and Library Services board and he is a life member of the Society for Advancement of Chicanos and Native Americans in Science.

CALLING ALL MIDDLE SCHOOL EDUCATORS

Friday, March 16, 2018 | 10:15 AM–4:30 PM
Rooms A311-314, A411/412b, GWCC

*MUST BE REGISTERED FOR THE CONFERENCE TO ATTEND*

Join us for a special “Meet Me in the Middle Day,” designed just for middle school educators, at NSTA’s 2018 National Conference in Atlanta!

The day’s events will include a networking session, more than a dozen presentations specifically for middle school educators, and an afternoon share-a-thon featuring more than 100 presenters. You’ll walk away with ideas you can put to use in your classroom next week!

Organized by the National Middle Level Science Teachers Association (NMLSTA)

#NSTA18
www.nsta.org/Atlanta

ATTEND FOR A CHANCE TO WIN A VARIETY OF INCREDIBLE DOOR PRIZES!
ELEMENTARY EXTRAVAGANZA

Friday, March 16, 2018
8:00–10:00 AM • Exhibit Hall B-1
GWCC

• Hands-on activities
• Preview science trade books
• Learn about award and grant programs
• Walk away full of ideas and arms filled with materials
• Door prizes and refreshments
• 100+ presenters


Sponsored by:

First NSTA Conference?
First-Timer Conference Attendees’ Orientation

Thursday, March 15, 8:00–9:00 AM
B102, Georgia World Congress Center

Join NSTA Board and Council members for this session for conference first-timers and those who haven’t come for a while. Get tips on navigating and how to make the most of the amazing opportunities!

www.nsta.org/atlanta
The Best Place to Explore Three-Dimensional Teaching and Learning

Take a deep dive into the Next Generation Science Standards (NGSS) with two special events free to all conference attendees!

**NGSS@NSTA Forum**

**Friday, March 16 • Maple C, South Tower, Omni at CNN Center**

This year’s NGSS@NSTA Forum focuses on instructional materials. The opening session describes tools you can use to evaluate resources and then there are six separate sessions highlighting instructional units designed to address 3-D standards. Participate in one or more presentations:

- 8:00–9:00 AM—Looking for NGSS-Focused Instructional Materials?
- 9:30–10:30 AM—What’s the Matter with Addie, and What Should We Do with CRISPR? Next Generation Storylines That Connect Science to Student Interests and Concerns
- 11:00 AM–12 Noon—A Model-Based Educational Resource for High School Biology
- 12:30–1:30 PM—Disruptions in Ecosystems: An NGSS-Designed Middle School Unit and PD Model
- 2:00–3:00 PM—*Interactions*: A Free 3-D Science Curriculum for Ninth-Grade Physical Science
- 3:30–4:30 PM—How Can Light Help Me See and Communicate with Others? A Storyline Designed to Support 3-D Learning in an Early Elementary Classroom

**NGSS@NSTA Share-a-Thon**

**Saturday, March 17 • 9:30–10:30 AM
B102, Georgia World Congress Center**

At the NGSS@NSTA Share-a-Thon, get even more tips and tools to implement three-dimensional standards from NSTA’s NGSS Curators, NGSS writers, and other education experts. Leave with plenty of handouts and ideas you can use in your classroom right away!
District-Level Administrators: You are the Fourth Dimension in Implementing 3-D Teaching and Learning! (PLI-1)

Ticket Price: $125, by preregistration only

When facing paradigm shifts in STEM education policy, district-level administrators and instructional leaders often face challenges in providing professional learning aligning curriculum and implementing new science standards. NSTA empathizes with your needs and has developed this PLI especially for you. Come share solutions with your peers while walking away with tangible resources, tools, and ideas from leading NSTA authors and experts.

Analyzing Instructional Materials for Next Generation Science (NextGen AIM) (PLI-2)

Ticket Price: $125, by preregistration only

NextGen AIM is a suite of tools and processes for the evaluation, selection, and implementation of instructional materials designed for the NGSS. NextGen AIM serves as a professional learning opportunity for teachers to deepen their understanding of NGSS as they evaluate instructional materials and helps to prepare teachers to use the materials effectively in their classrooms. In this session, participants will use a common set of instructional materials and work as a “mock” materials selection committee to learn, via active learning experiences, about the five components of the NextGen AIM tools and processes. Emphasis will be placed on the Paper Screen component, which utilizes visual representations of data collected from the materials and rubrics to assess quality.

Connecting STEM Education to the Workplace (PLI-3)

Ticket Price: $125, by preregistration only

Jeff Weld, author of Creating a STEM Culture for Teaching and Learning, will provide an overview about connecting secondary STEM education to the workplace before attendees take a deep dive in practical applications with one of the most innovative work-based learning programs in the country, Waukee Aspiring Professional Experience (APEX). APEX pairs students with businesses to work on professional and technical skills through value-added learning projects. This interactive session will explore and answer your many questions about how to develop and maintain business relationships for an entire work-based learning program and/or to personalize learning in an individual course. Bring your questions as this session will be customized specifically for the attending audience.
STEM Curriculum Topic Study: A Process for Linking Standards, Research, and Learning (PLI-4)

Ticket Price: $125, by preregistration only

Curriculum Topic Study (CTS) is a systematic process that helps STEM educators build a bridge between curricular topics and effective teaching and learning, informed by standards and research on commonly held ideas in science. This PLI will introduce participants to the new, updated CTS tools and processes that can be used with NGSS or any set of curricular or state standards. Participants will be introduced to the CTS process, experience how to use CTS in a collaborative PD setting, and plan how they will use CTS in their own contexts both individually and with their colleagues.

Picture-Perfect Powerful Practices: STEM and Literacy Integration (PLI-5)

Ticket Price: $125, by preregistration only

Join the authors of Picture-Perfect STEM and the Powerful Practices book series for a dynamic exploration of integrated STEM investigations. Learn how to use picture books to engage students in meaningful STEM learning. Apply questioning, investigating, and authentic assessment design techniques to deliver thoughtfully prepared and customized units that will improve engagement and student performance.

A Shell One-Day Institute: Embracing an Equitable Mindset: Developing Culturally Proficient Leaders (PLI-6)

Cost: No fee, completion of survey is required after conference registration
Educators are encouraged to attend in teams of 2–4; individuals welcome

This session will bring together individuals wanting to further their journey toward becoming culturally proficient leaders, helping to ensure high levels of success for all students. Throughout the day, participants will address personal and professional bias, gaps in equitable services, and issues of access. Attendees will share experiences, learn about tools used in developing cultural proficiency, and review data and effective programs, identifying possible next steps as well as creating alliances with other science educators.
Networking Event
Join your colleagues at this networking event. To purchase tickets, visit www.nsta.org/atlantabrowser. (Tickets Required)

NSTA Teacher Awards Gala (M-1)

Date: Friday, March 16, 6:00–8:45 PM
Registration Fee: $75 advance; $80 on-site

Come enjoy a fabulous evening celebrating with this year’s teacher award recipients! ALL of the teacher awards will be presented in one grand evening. Join your colleagues in recognition of this year’s winners. Evening attire is requested to honor our teacher award recipients. A limited number of tickets are available for this social event.
Visit the NSTA Science Store

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>4:00–7:00 PM</td>
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<td>Sunday</td>
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- Award-winning books filled with best practices, science content, teaching tips, and lesson plans.
- T-shirts, totes, and other science gifts to take back to your classroom.
- All attendees get member pricing—20% off all NSTA Press® products.

NSTA Press® offers new classroom ideas and standards-based strategies, from Earth science to nanoscience and from preK to college. Join NSTA Press authors for these sessions linked to the topics of their books. Visit us online at bit.ly/2y8drCZ for a complete list of NSTA Press sessions.
This dynamic event brings together educators and organizations who are actively implementing STEM programs in their schools or districts.

Come prepared to learn tactics that work, build your professional learning network, connect with effective outreach programs and partnerships, discover new resources, and build a strong curriculum.

For information and to register, visit www.nsta.org/stemforum
## Sample Conference Schedule

Make your own conference schedule using the Atlanta Session Browser/Personal Scheduler (www.nsta.org/atlantabrowser). Browse events by day, format, subject, grade level, conference strand, sponsor, or keyword.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td><strong>Elementary</strong></td>
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<tr>
<td>Thu., 8:00–9:00 AM—Exploring the Science of Sound</td>
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<td>Thu., 2:00–3:00 PM—Birding in Three Dimensions</td>
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<td>Thu., 3:30–4:00 PM—3-D Learning Through Interdisciplinary Teaching in Elementary School</td>
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<td>Thu., 5:00–6:00 PM—Developing Scientifically Literate Students with STEM-Manities!</td>
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<td>Fri., 9:30–10:30 AM—Protecting the Outer Space Environment</td>
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<td>Fri., 2:00–3:00 PM—Using NASA Data to Enhance Earth Science and Make STEM Connections</td>
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<td>Fri., 5:00–6:00 PM—&quot;The Sheep Are in the Jeep&quot;: Forces and Motion</td>
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<td>Sat., 11:00–11:30 AM—How to Develop an Amazing After-School Science Enrichment Program</td>
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<td>Sat., 12:30–1:30 PM—Milkweed in the Classroom</td>
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<td>Sat., 4:00–4:30 PM—Family Learning Opportunities and Research in Engineering and Science (FLORES) Education</td>
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<td>Sun., 8:00–9:00 AM—Just Build It!</td>
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<td><strong>Middle Level</strong></td>
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<td>Thu., 8:30–9:00 AM—STEMing-Up Life Science</td>
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<td>Thu., 3:30–4:30 PM—Soil: A Nonrenewable Resource?</td>
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<td>Thu., 5:00–6:00 PM—Illuminating Evidence of 3-D Learning</td>
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<td>Fri., 9:30–10:30 AM—3-D Learning Through NASA Orion Missions</td>
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<td>Fri., 11:00 AM–12 Noon—Unpacking Sources of Variation in Ecological Data</td>
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<td>Fri., 12:30–1:30 PM—Engineering Design Journals: Trials and Tribulations</td>
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<td>Sat., 3:30–4:30 PM—Citizen Science in the K–12 Classroom</td>
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<td>Sat., 5:00–5:30 PM—Integrated Robotics for All Middle School Students</td>
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<td>Sun., 8:00–9:00 AM—Drop, Stop, Don’t Pop! A Daredevil Engineering Adventure</td>
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<td>Sun., 9:30–10:30 AM—Global Collaboration in STEM Projects</td>
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<td><strong>High School-College</strong></td>
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<td>Thu., 8:00–8:30 AM—Touching Triton</td>
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<td>Thu., 12:30–1:30 PM—Planning and Carrying Out Erosion and Deposition Investigations</td>
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<tr>
<td>Thu., 2:00–3:00 PM—Weaving Biotechnology Throughout Your Biology Curriculum</td>
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<tr>
<td>Thu., 3:30–4:30 PM—Deflategate: Critical Thinking and the Ideal Gas Law</td>
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<tr>
<td>Fri., 10:00–10:30 AM—A Few of Our Favorite Chemistry Things</td>
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<tr>
<td>Fri., 12:30–1:00 PM—STEM on Station</td>
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<tr>
<td>Sat., 9:30–10:30 AM—Exploring Sound and Music with Arduinos</td>
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<td>Sat., 12:30–1:30 PM—Experience Question Formulation!</td>
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<td>Sat., 2:30–3:00 PM—Using 3D Printers to Support Deeper Content Knowledge</td>
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<td>Sun., 8:00–9:00 AM—Improving Scientific Literacy in a STEM Lesson</td>
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<td>Sun., 11:00 AM–12 Noon—Developing High School Peer-Reviewed Research Journals</td>
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Educational Trips

Discover what Atlanta has to offer on one of our ticketed educational trips. To purchase tickets, visit www.nsta.org/atlantabrowser. (Tickets Required)

Global Conversations: Welcome to My Elementary Classroom (W-1)
Date: Wednesday, March 14, 8:00 AM–12 Noon

Global Conversations: Welcome to My High School Classroom (W-2)
Date: Wednesday, March 14, 8:00 AM–12 Noon

Ticket Price: $25; by preregistration only

Welcome to My Classroom is a program sponsored by NSTA’s International Advisory Board and is intended primarily for international participants to view science classrooms. This year, trip participants will visit Beecher Hills Elementary School or Benjamin E. Mays High School. Participants will be split into groups where half will visit the elementary school, and the other half will visit the high school. Time has been set aside for participants to observe and interact with teachers and students at their selected location.

Those with W-1 tickets will visit Beecher Hills Elementary School, a preK–5 Authorized IB World School located in the scenic Beecher Hills Community in Southwest Atlanta. Beecher Hills is part of the Atlanta Public School System.

Those with W-2 tickets will visit Benjamin E. Mays High School, a public school located in southwest Atlanta serving grades 9–12. Part of the Atlanta Public School System, the high school is a Georgia School of Excellence.

—Photo courtesy of Beecher Hills Elementary School
Botanical Garden Self-Guided Tour (T-1)
Date: Thursday, March 15, 8:30–11:30 AM

Botanical Garden Self-Guided Tour (F-2)
Date: Friday, March 16, 8:30–11:30 AM

Botanical Garden Self-Guided Tour (S-1)
Date: Saturday, March 17, 8:30–11:30 AM
Ticket Price: $22 advance; $27 on-site

Enjoy a self-guided tour at the Atlanta Botanical Garden. Pick a tour on either Thursday (T-1), Friday (F-2), or Saturday (S-1). In addition to the outdoor gardens, you can explore the Venus flytraps in the Soggy Bog and learn about honeybees in the observation hive. Walk through the treetops on the 600-foot Kendeda Canopy Walk, learn about new plants, and discover seasonal edibles in the Edible Garden. Many critters and native birds make their home in the Garden, including various quails that live in the Tropical Rotunda and the rarely seen Saffron Finches. Stop by the Conservatory terrarium and look for the orange poison dart frogs. Light snacks and refreshments are available for purchase. Visit atlantabg.org/visit/day-planner to preplan your trip.

NSTA wishes to thank the Atlanta Botanical Garden for providing complimentary admission for participants.

Stones and Stories: A City Earth Science Walk (T-2)
Date: Thursday, March 15, 9:00 AM–12:30 PM

Stones and Stories: A City Earth Science Walk (S-2)
Date: Saturday, March 17, 9:00 AM–12:30 PM
Ticket Price: $15 advance; $20 on-site

Tag along with two geologists/retired K–12 educators to see the beautiful building stones and folded natural rock layers of Midtown Atlanta, on a tour from Symphony Hall to Rhodes Hall. Pick a tour on either Thursday (T-2) or Saturday (S-2). Bill Witherspoon, co-author of Roadside Geology of Georgia, teams up with Georgia Mineral Society leader Bill Waggener to interpret the stories that rocks tell. Wear comfortable shoes. Must be able to walk moderate distances.
Watershed Activities at Dunwoody Nature Center (T-3)

Date: Thursday, March 15, 12:30–5:00 PM
Ticket Price: $35 advance; $40 on-site

Move through the meadow and trails at Dunwoody Nature Center while led by environmental educators for a hands-on experience that reinforces and brings to life the STEM concepts that are taught in the classroom. Engage in Project WET, Urban Watershed, and Getting Little Feet Wet activities. Dunwoody Nature Center features four distinct habitats—meadow, stream, wetlands, and forest—that are ideally suited to enhance the fundamentals of environmental science in a controlled setting. Dress for the weather and wear comfortable hiking shoes. Must be able to walk moderate distances. For more information on the activities, visit www.projectwet.org. Travel time is approximately one hour each way.

Fernbank Science Center: Where the Stars Shine Over Atlanta (T-4)

Date: Thursday, March 15, 6:00–9:30 PM
Ticket Price: $25 advance; $30 on-site

Looking for STARS in Atlanta? Follow us to Fernbank Science Center, Home of the STARS! Join us for a planetarium show on the largest screen in Atlanta, the Jim Cherry Memorial Planetarium, and then step outside and be among the stars at the Dr. Ralph L. Buice, Jr. Observatory, the largest telescope in the southeastern United States. See where the stars hang out in Atlanta—Fernbank Science Center.

NSTA wishes to thank Fernbank Science Center for providing complimentary admission and planetarium show tickets for trip participants.

From Appalachia to Asteroids: Exploring a Billion Years of Georgia History (F-1)

Date: Friday, March 16, 8:00 AM–5:00 PM
Ticket Price: $57 advance; $62 on-site

From asteroid impacts to the rise of the Appalachian Mountains, the rocks of Georgia feature a record of cataclysms dating back more than a billion years. We will explore ancient coastlines where debris from two major asteroid impacts rained down 35.5 and 65 million years ago and investigate the clues of a large Proterozoic impact more than 900 million years ago. Along the way, we will see dramatic evidence of the tectonic forces that shaped eastern North America.
during the Paleozoic, massive volcanic eruptions during the Mesozoic, and sea level rise and fall during the Cenozoic. Come dressed ready to explore. Hard hats, rock hammers, and a boxed lunch will be provided. Trip includes stops at four sites.

Note: Please bring a sturdy bag for collecting. If you have steel or composite-toe boots, please bring them. Toe guards will be provided for those who don’t.

From Gardens to Granite: GSU Perimeter College Native Garden and Arabia Mountain (F-3)

Date: Friday, March 16, 8:30–11:30 AM
Ticket Price: $42 advance; $47 on-site

See one of the largest collections of fern taxa and native plants in the country during a tour of the Native Plant Botanical Garden (sites.gsu.edu/pcnativegarden) located on Georgia State University’s Perimeter College Decatur Campus. Then hike through one of Georgia’s most fascinating ecosystems at Arabia Mountain National Heritage Area (arabiaalliance.org). Be sure to dress for the weather and wear comfortable walking shoes. It is recommended that you bring bottled water for the hike at the Davidson–Arabia Mountain Nature Preserve.

STEM-Themed Guided Tour at Zoo Atlanta (F-4)

Date: Friday, March 16, 9:30 AM–2:30 PM
Ticket Price: $39 advance; $44 on-site

Explore the Zoo through bio-inspired design! Find out how animals are inspiring solutions to everyday scientific and engineering problems. For example, learn how researchers are studying the drinking behaviors of cats to create technologies that will propel liquid upward, helping to find more efficient ways to clean up oil spills! Time included for lunch on own, as well as self-exploration of the Zoo after STEM-themed guided tour.

Exploring the White Whaleback of Granite—Stone Mountain (F-5)

Date: Friday, March 16, 12:45–5:00 PM
Ticket Price: $42 advance; $47 on-site

Tour Stone Mountain and learn about its fascinating geologic history with the authors of Roadside Geology of Georgia. Receive an overview of the geology of Stone Mountain, a granite monadnock about 20 miles east of Atlanta, rising about 800 feet above the surrounding terrain. Beginning at the Walk-Up Trail, we will examine granite cut by pegmatite dikes, and observe solution pits with evidence of ecologic succession and early spring wildflowers near the base of the trail. You can see evidence of hand-quarrying of the rock and carvings made by visitors to the mountain, dating back more than 100 years. We will visit the natural history museum in Confederate Hall, where we will learn about the geologic history and formation of Stone Mountain. Then we will board the bus and travel to the outdoor Quarry Exhibit, where the granite was quarried.

—Photo courtesy of Stone Mountain
from the 1850s to the 1970s. At the Quarry Exhibit, we will observe evidence of recent exfoliation, clusters of tourmaline crystals or “cat’s paws” in the granite, flow banding, pegmatite dikes, and xenoliths of gneiss that got caught up in the magma as the Stone Mountain granite intruded the surrounding rocks of the Piedmont. Dress for the weather, bring a water bottle, and wear comfortable walking shoes or field boots. Must be able to walk moderate distances. Visit www.georgiarocks.us for more information about Georgia’s geology.

Public Health on Display at the Centers for Disease Control’s Museum (F-6)

Date: Friday, March 16, 1:15–4:30 PM
Ticket Price: $35; by preregistration only

Ever wonder how CDC scientists merge old-fashioned detective work with high-tech science to crack the cases of mystery diseases? Get the story as we tour the David J. Sencer CDC Museum at CDC Headquarters. One of 13 major operating components of the Department of Health and Human Services (HHS), the Centers for Disease Control and Prevention in Atlanta is one of the only federal government agencies with headquarters outside of Washington, D.C. The CDC Museum teaches public health, specifically as it relates to CDC’s work. Other tour topics may include microbiology, infectious disease, environmental health, CDC history, or even the art in our exhibits. All guided tours of the CDC Museum exhibits include an introduction using the short stories on the multimedia show, an introduction to the current temporary exhibit, and a tour of the permanent exhibit, The Story of CDC.

Note: A valid government-issued ID is required for entry onto CDC’s campus. (driver’s license for U.S. citizens; passport for non-U.S. citizens). The ID requirement only applies to adults. No food or beverages allowed; no vending or concessions are available in the CDC Museum. Cameras are allowed inside the David J. Sencer CDC Museum’s exhibit space, but please refrain from taking any pictures outside of the CDC Museum.

Taste and Explore World of Coca-Cola (S-3)

Date: Saturday, March 17, 1:45–4:15 PM
Ticket Price: $16; by preregistration only

For more than 25 years, World of Coca-Cola has welcomed guests from more than 100 countries, and all of the U.S. Join over 25 million people who have visited the Atlanta attraction and experience the history of the famous beverage brand at the dynamic, multimedia home of the 131-year-old secret formula for Coca-Cola. Enjoy an ice-cold, refreshing Coca-Cola, Diet Coke, Coke Zero Sugar, or Coke Life in the lobby before beginning your self-guided tour. Get closer than ever before to the vault containing the secret recipe, view more than 1,200 historic artifacts, and get a behind-the-scenes look at the bottling process. Take a trip around the world in a thrilling 4-D movie experience, take a photo with the Coca-Cola Polar Bear, and tempt your taste buds with more than 100 beverages from around the globe.

Group will walk to World of Coca-Cola.

—Photo courtesy of World of Coca-Cola
Committee Leaders

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Graduate Credit offer
Graduate Credit Sponsored by Dominican University of California

Earn one (1) or two (2) graduate-level credit/s in professional development through Dominican University of California (dominicancaonline.com) course #EDUO 8018. To obtain credit/s, you must be registered for the 2018 Atlanta National Conference, complete the required assignments, and pay a fee of $95 for one credit or $190 for two credits. An NSTA transcript is also required. Deadline is April 30, 2018.

For details, visit bit.ly/2jwJzff.
Short Courses

All short courses are filled on a first-come, first-served basis, so act now! For complete descriptions and to purchase tickets, visit www.nsta.org/atlantabrowser. (Tickets Required)

If You Can Think It, You Can Model It (SC-1)
Date: Thursday, March 15, 3:00–6:00 PM
Ticket Price: $37 advance; $42 on-site

This short course will introduce participants to SageModeler, a simple and engaging tool for modeling complexity and examining behavior in complex systems and a variety of contexts. Through explorations and activities using this free web-based software, participants will expand their knowledge of systems and systems thinking, build and simulate visualizations of their own mental models, and explore ways to incorporate computer modeling into curricular activities and units appropriate to both middle school and high school students. Note: Bring a laptop computer or Chromebook with Google Chrome installed. For more information, visit learn.concord.org/building-models.

Climate Change Misinformation: Sort Fact from Fiction with Ice Core Science (SC-2)
Date: Thursday, March 15, 3:00–6:00 PM
Ticket Price: $33 advance; $38 on-site

This short course will provide current information and the tools and resources to teach climate change within the NGSS. Interact with an ice core scientist presenting cutting-edge research and climate change information, while a master polar educator leads hands-on activities for engaging and transferring the information to students. Receive stellar resources developed by scientists and educators from the Ice Drilling Program Office (IDPO) with National Science Foundation funding. Bring materials to take notes. For more information, visit www.climate-expeditions.org.

Meaning Making in Science: How Disciplinary Literacy Supports the Development of Scientific Understanding (SC-3)
Date: Thursday, March 15, 3:00–6:00 PM
Ticket Price: $33 advance; $38 on-site

Strand: Comprehending the Role of Literacy in Science

We are strong advocates for disciplinary literacy—helping students learn to think, act, and communicate like scientists and engineers. During this short course, participants will engage in activities that explore disciplinary literacy in science. We will showcase the critical role that the scientist’s notebook plays in literacy and science content as well as practices development. Strategies and resources built with our teachers and other experts will be shared, including our “Core Actions” and reading and notebook strategies that take students from observation to explanation and argument writing. A laptop/computer to view resources is recommended.
Science for Everyone: Engaging Diverse Learners Using SIOP Strategies, Visual Literacy, Scaffolding, and Culturally Relevant Pedagogy (SC-4)

Date: Friday, March 16, 7:15–11:50 AM
Ticket Price: $38 advance; $43 on-site

Strand: Reflecting On Access for All Students

In this off-site short course, come observe teachers and students at Clarkston High School, one of the most culturally diverse schools in the nation. The city of Clarkston has been dubbed the most culturally diverse city per square mile in the United States. Participants will observe biology, environmental science, physical science, and chemistry classrooms with the option of also visiting any of the 19 content-specific sheltered classes (ESOL-ELA, social studies, and mathematics). As small groups, participants will observe the classrooms and then join in later for a large group discussion on teaching strategies, including SIOP (Sheltered Instruction Observation Protocol Model). Bring materials to take notes.

Designing and Using Three-Dimensional Assessments in Your Classroom (SC-5)

Date: Friday, March 16, 8:00–11:00 AM
Ticket Price: $33 advance; $38 on-site

Strand: Focusing On Evidence of 3-D Learning

As states adopt three-dimensional science standards, assessment needs to integrate disciplinary core ideas, science and engineering practices, and crosscutting concepts. In this short course, a curriculum designer and a state assessment leader will take participants through a process to consider how assessment can be used to support 3-D teaching and learning.

Citizen Science Projects That Transform School Yards into STEM Labs and Help K–12 Students Make Sense of Phenomena in Nature (SC-6)

Date: Friday, March 16, 8:00–11:00 AM
Ticket Price: $37 advance; $42 on-site

Strand: Imagining Science as the Foundation for STEM

This short course is designed to equip educators with tools, resources, and strategies for facilitating field investigations, providing opportunities for students to make sense of phenomena in nature. We’ll try out citizen science projects that incorporate engineering design challenges, student-led experiments, and microcontroller coding. Participants will receive links to 3-D
Lesson Frameworks, a Foldscope field microscope, window bird feeder, the Citizen Science issue of *Natural Inquirer* magazine, and seeds, as well as find out how to obtain a Citizen Science ecoSTEM Kit. Be prepared to spend part of the time outdoors, weather permitting.

**The World Ender: A STEAM PBL Unit (SC-7)**

*Date:* Friday, March 16, 10:00 AM–4:00 PM  
*Ticket Price:* $53 advance; $58 on-site

**Strand: Imagining Science as the Foundation for STEM**

What would you do if an asteroid hit Earth? Come explore curriculum based on an engineering design challenge in which students must work collaboratively to create a knowledge base of research, inquire and investigate relevant phenomena, and think critically to redirect an asteroid. The World Ender is a problem-based unit that not only will excite your students, but also touches on many cross-disciplinary areas. Bring your laptop/tablet. Expect a half-hour break for lunch on own.

**Developing a Reasonable NGSS Transition Plan for My District or School (SC-8)**

*Date:* Friday, March 16, 10:00 AM–5:00 PM  
*Ticket Price:* $43 advance; $48 on-site  

In teams, apply tools and processes from a Connecticut NGSS implementation leader that support the development of a goal-oriented district or school plan to address the NGSS. Offered by the Connecticut Science Center, this short course is designed to help vertical district teams (and teams from schools with significant local control over their science program) in crafting a long-term vision for science education; taking stock of their own strengths, opportunities, and challenges; setting reasonable goals; and creating a multi-year transition plan that supports achieving the NGSS. Expect a half-hour break for lunch on own.

**Putting the Pieces Together: Introduction and Implementation of 3-D Learning (SC-9)**

*Date:* Friday, March 16, 3:00–6:00 PM  
*Ticket Price:* $20 advance; $25 on-site  

**Strand: Imagining Science as the Foundation for STEM**

A large urban district shares their journey to introduce 3-D science and the shifts in best practices for their 4,000 K–12 science teachers. In this short course, we will introduce a professional learning model that includes Science Ambassadors, Curriculum Writers, and Learning Architects—each with an important role in helping teachers understand the needed shifts in science instruction to realize the goals in the *K–12 Science Framework*. We are in a non-NGSS state that is focusing on phenomena-based 3-D instruction.

**Integrating Engineering into K–8 Life Science Lessons (SC-10)**

*Date:* Saturday, March 17, 8:00–11:00 AM  
*Ticket Price:* $40 advance; $45 on-site  

**Strand: Imagining Science as the Foundation for STEM**

Looking to infuse some “life” into your engineering design challenges? Come explore how nature can provide a rich context for students to engage with engineering. We’ll unpack a new framework for transforming traditional 5E life science lessons into “5E+” life science and engineering
lessons and experience a “5E+” lesson in action. Then we'll break into small groups and transform your own lessons into “5E+” lessons. We'll end with a gallery walk of each group's ideas. Come by yourself or as a school team with a lesson you’re interested in adapting and leave with practical ideas, tools, and materials!

Using NGSS Storylines to Support Students in Meaningful Engagement in Science and Engineering Practices (SC-11)

Date: Saturday, March 17, 8:00–11:00 AM
Ticket Price: $64 advance; $69 on-site

Strand: Focusing On Evidence of 3-D Learning

Participants will investigate how NGSS storylines can support students in developing ideas over time, motivated by questions about phenomena in the world, where each step is an attempt to address a question or gap in the current explanatory model. Using example open-source storylines from elementary, middle school, and high school, participants will analyze lesson designs, classroom video, and student work to investigate how to bring coherent storylines to life in K–12 classrooms. Bring a laptop/tablet to connect to the internet. For more information, visit www.nextgenstorylines.org.

Elementary GLOBE Short Course Training (SC-12)

Date: March 17, 10:00 AM–5:00 PM
Ticket Price: $58 advance; $63 on-site

Strand: Comprehending the Role of Literacy in Science

Do you teach about weather? Elementary GLOBE storybooks incorporated with NASA resources engage the natural curiosity of students through learning activities and science journaling experiences. You will be trained by our team of scientists in some of GLOBE Atmosphere Protocols, such as data submission to GLOBE website. Support continues when you return to your classroom with eTraining and webinars. Take-home materials include two storybooks (Do You Know That Clouds Have Names? and What’s Up in the Atmosphere?); air and infrared thermometers; a cloud chart; learning activities focusing on literacy skills; an NGSS-focused implementation guide; as well as NASA and GLOBE materials. It is recommended that you bring a laptop/tablet. Expect a 30-minute break for lunch on own.
**Register**

The fastest way to register 24 hours a day—register online at [www.nsta.org/confreg](http://www.nsta.org/confreg) with a credit card.

Fax your registration form* with purchase order information to 703-243-3924.

Mail your registration form* and payment to:

NSTA
Conference Department
PO Box 90214
Washington, DC 20090-0214

* Registration forms are available as PDFs at [www.nsta.org/confreg](http://www.nsta.org/confreg).

**Housing**

Atlanta Housing Deadline: February 19, 2018

Make your hotel reservations now and save! NSTA has negotiated special discounted room rates with 14 hotels near Georgia World Congress Center (the convention center).

Visit: [www.nsta.org/atlantahousing](http://www.nsta.org/atlantahousing) and have your credit card and arrival/departure information ready.

Call 877-352-6710 (toll free) or 801-505-4611 (international) between 7:00 AM and 6:00 PM Mountain Time, Monday–Friday. Be prepared to provide all the information on the housing form**.

Mail CHECKS ONLY—Download housing form** and mail with check (one form per room request) to:

Orchid.Events–NSTA/Atlanta
175 South West Temple, Suite 30
Salt Lake City, UT 84101

Do not mail to NSTA.

**Housing form is available as a PDF at [www.nsta.org/atlantahousing](http://www.nsta.org/atlantahousing).**

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Save $90 on your registration when you become an NSTA member!
TRAVEL

NSTA has made arrangements with several major airlines, as well as Amtrak to offer discounted fares to NSTA conference attendees. For complete details on these discounts as well as the best way to get around town, visit:

www.nsta.org/atlantatravel

PRICE LIST

<table>
<thead>
<tr>
<th>REGISTRATION CATEGORIES</th>
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* Georgia Science Teachers Association (GSTA)

** No exhibit hall hours on Sunday

REGISTRATION CATEGORIES

The Member rate applies to the following:

- Current NSTA members
- Nonmembers who submit an NSTA membership application and membership fee along with the registration form
- GSTA members (Georgia Science Teachers Association)—GSTA members receive the NSTA member rate for the 2018 Atlanta National Conference only

NSTA members who are fully retired and have been an NSTA member for at least five years may register at the Retired rate.

Full-time students 18 years of age or older may register at the Student rate if the registration form is accompanied by a copy of a current university ID or a letter from the university indicating full-time enrollment.

Your nonteaching spouse/guest and children must be registered in order to visit the Exhibit Hall but do not need to submit separate registration forms. Please provide their names on your own registration form. Children of high school age and younger can be registered for free. A fee is required for your spouse/guest. College students and teaching spouses must submit separate registration forms and payment.
The NSTA Exhibit Hall, with more than 350 of the leading science education companies and organizations in the world, has the newest products to show and share with educators.

THIS IS A PARTIAL LIST OF EXHIBITORS.

3B Scientific
3D Molecular Designs
7th Annual STEM Forum & Expo, hosted by NSTA
AAAS Project 2061
AALAS Foundation
ABRAMS
ACIS Educational Tours
ACT, Inc.
Activate Learning
Actively Learn
Adam Equipment Inc.
Aldon Corp.
American Association for Cancer Research
American Association of Colleges of Pharmacy
American Association of Physics Teachers
American College of Education
American Lab Design
American Meteorological Society
American Museum of Natural History
American Society of Plant Biologists
Amplify
Amy Brown Science
Anatome Inc.
ANATOMY IN CLAY® Learning System
Anatomy Warehouse
Animalearn
Appleseed Expeditions
AquaPhoenix Scientific
Arbor Scientific
Artskills®
Barbakam Science Lab Notebooks
Because Learning
Bedford, Freeman, & Worth High School Publishers
Beyond Benign
Bio Corp.
Bio-Rad Laboratories, Inc.
BIOZONE International Ltd.
Bone Clones, Inc.
BOXLIGHT
Buzz Aldrin's ShareSpace Foundation
Capital Microscope Services
Carolina Biological Supply Co.
Catalyst Learning Curricula
CCIS, Inc.
Cedar Fair Entertainment Co.
Celestron, LLC
Centripetal Press
Ceramic and Glass Industry Foundation
Clemson University
Commercial Spaceflight Federation
The Cornell Lab of Ornithology
CPO Science/School Specialty
Delta Education/School Specialty
Digitalis Education Solutions, Inc.
Dinah.com
Discovery Dome from ePlanetarium
Disney Youth Programs
Diversified Woodcrafts, Inc.
Driftwood Education Center
DroneCurriculum.net
Dynalon Labware
EAI Education
eCYBERMISSION & GEMS
Education Matters
Educational Innovations, Inc.
Edvotek Inc.
EF Explore America
Eisco Scientific
Elbit Systems of America, LLC
Energy Concepts, Inc.
Engineering is Elementary
Enovative Technologies, LLC
Esri
EVERFI
ExploreLearning
Exploring Physics
FDA Food Science & Nutrition Education
Firefly Books Ltd.
FIRST
Fisher Science Education
Flinn Scientific
FLIR Systems, Inc.
Forestry Suppliers, Inc.
Frey Scientific/School Specialty
Georgia Aquarium
Georgia Southern University
Georgia State University
Geozy Solutions
Getting Nerdy LLC
Grand Classroom
Great Minds LLC
Half Price Books
Hanna Instruments, Inc.
Hayden-McNeil Publishing
Houghton Mifflin Harcourt
Howard Hughes Medical Institute
HudsonAlpha Institute for Biotechnology
InsectLore
Insurance Institute for Highway Safety
International Ocean Discovery Program
Inventionland Institute
IRIS
IXL Learning
JASON Learning
Johns Hopkins Center for Talented Youth
K'NEX
Kaplan Early Learning Co.
Kendall Hunt Publishing Co.
Kesler Science, LLC
Killer Snails, LLC
Knopf Doubleday Publishing Group
Lab-Aids, Inc.
LaMotte Co.
LearnEd Notebooks
Learning A–Z
Learning Bits, Inc.
**EXHIBIT HOURS**
Thu., Mar. 15  11:00 AM–6:00 PM*  
Fri., Mar. 16  9:00 AM–5:00 PM  
Sat., Mar. 17  9:00 AM–3:00 PM

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**EXHIBIT LOCATION**
The exhibits are located in Hall B-2 of Georgia World Congress Center.

www.nsta.org/atlantavirtualshow  
Preview and create your own list of Atlanta exhibitors before the conference using this link.

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*Exclusive Exhibit Hall and Exhibitor Workshop Hours • Thu., 11:00 AM–12:30 PM

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Legends of Learning  
LEGO Education  
Macmillan Adult  
Macmillan Children’s Publishing Group  
The Markerboard People, Inc.  
Math for America (MfA)  
McGraw-Hill Education  
Measured Progress  
Microduino, Inc.  
MiniOne Systems  
miniPCR™  
molymod®, Spiring Enterprises Ltd.  
Monsanto Co.  
MSOE Center for BioMolecular Modeling  
Nanolive SA  
NaRiKa Corp.  
NASA Science Mission Directorate  
Nasco  
The National Academies of Sciences, Engineering, and Medicine  
National Agriculture in the Classroom  
National Center for Science Education  
National Coalition for Aviation and Space Education  
National Energy Education Development Project  
National Flight Academy  
National Geographic  
National Geographic Learning | Cengage Learning  
National Institute for STEM Education  
National Institute of Neurological Disorders and Stroke (NINDS)  
National Integrated Cyber Education Research Center  
National Inventors Hall of Fame/Camp Invention  
National Nanotechnology Coordination Office (NNCO)  
Newell Brands  
NewPath Learning  
Nomad Press  
NSTA 2018 Charlotte Area Conference  
NSTA 2018 National Harbor (MD) Area Conference  
NSTA 2018 Reno Area Conference  
NSTA 2019 St. Louis National Conference  
Nutrients for Life Foundation  
OHAUS Corp.  
Operation Wallacea  
Otto Trading LLC  
PASCO scientific  
PBS Educational Media  
PBS LearningMedia/WGBH  
PCG Education  
Peachtree Publishers  
Pearson  
Penguin Academic  
Perimeter Institute  
PETA  
The Pet Care Trust  
PheT Interactive Simulations  
Pitsco Education  
PlayMada Games LLC  
PocketLab by Myriad Sensors  
Population Connection  
PowerUpEDU  
Project Learning Tree  
Publisher Spotlight  
Random House Academic  
Responsibility.org  
Rosen Publishing  
SAE International’s A World In Motion
Safari Club International Foundation
Scholastic Inc.
School Datebooks
School Specialty, Inc.
Science Island and Smart Chick Science Take-Out, LLC
Search Associates—International Teaching Opportunities
Shape of Life
Sheldon Laboratory Systems
Shell Science Lab Challenge
Simulation Curriculum Corp.
Skulls Unlimited International, Inc.
SmartSchool Systems
Smithsonian Science Education Center
Society for Neuroscience
Society for Science & the Public
Soil Science Society of America
Sourcebooks
Southern Science Supply
Space Station Explorers/CASIS
SparkPoint Innovations
St. George’s University, Grenada, West Indies
STEM Sims
STEMscopes
STEMy Stuff
Stuppy, Inc.
Swift Optical Instruments
TeacherGeek,
Team America Rocketry Challenge
TCI

TERC
Texas Instruments
Thames & Kosmos, LLC
Toshiba/NSTA ExploraVision
TPS Publishing Inc.
Tumblehome Learning, Inc.

Tyhope
University of Delaware Dept. of Animal and Food Sciences
University of Nebraska at Kearney
Vaccine Education Center at Children’s Hospital of Philadelphia
Van Andel Education Institute
Vernier Software & Technology, Virginia Tech College of Science
Ward's Science
Washington University in St. Louis
Wavefunction, Inc.
WeatherHawk
WestEd
Western Michigan University
WhiteBox Learning
Wiley
Wisconsin Fast Plants® Program
WorldStrides
World Wildlife Fund
XanEdu Custom Solutions
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