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Ardusat creates hands-on STEM experiences for the classroom, by providing open curriculum resources mapped to standards, an experiment platform for students to build experiments and share their findings. The resources that we provide range from using an Arduino and sensors, to collecting data from high-altitude balloons, and even running experiments on space satellites.

Astronomy to Go  #1358
Melrose Park, PA 19027 PreK–12, College
Phone: 215-831-0485
E-mail: astro2go@aol.com
Website: stores.ebay.com/astronomytogo

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

Backyard Brains, Inc.  #156
308 1/2 S. State St., Suite 35 B, PH
Ann Arbor, MI 48104 7–12, College
Phone: 734-223-8133
E-mail: tim@backyardbrains.com
Website: www.backyardbrains.com

Electrical signals allow your heart and brain to function. We design easy-to-use equipment to allow you to teach electrophysiology of humans, plants, and insects in a fun and interactive way. Come to our booth to see the electrical activity of your own body. Control other humans!

BARBAKAM Science Lab  #644
Notebooks B, C, G, PH
PO Box 3493 9–12, College
Suwanee, GA 30024
Phone: 248-679-3589
E-mail: customerservice@barbakam.com
Website: www.barbakam.com

BARBAKAM publishes carbonless lab notebooks for students taking science classes. Our notebooks are used in high schools, colleges, and universities. The primary feature of our lab notebook is the self-copying page. The original record creates an instant copy on the page underneath while writing, without placing a carbon sheet in between pages. BARBAKAM offers the lowest prices among all the competitive brands.

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WORKSHOPS in room 214

| Thursday | 2:00 - 3:30 PM | Genes, Genomes and Personalized Medicine |
| Thursday | 4:00 - 5:30 PM | Of All the Nerve! |
| Friday  | 12:00 - 1:30 PM | Telling Molecular Stories with David Goodsell’s Cellular Landscapes |
| Friday  | 2:00 - 3:30 PM | The Many Jobs of Proteins: Enzymes in the Spotlight |
| Saturday | 10:00 - 11:30 AM | Let’s Get Helical |
| Saturday | 12:00 - 1:30 PM | Constructing and Crossing Cell Membranes |

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www.3dmoledesigns.com
The Cereal City Science program (by BCAMSC) supports kindergarten to middle school educators and students with curricula and professional development that meet the NGSS® and CCSS. The research-based program provides inquiry-focused science instruction where students are engaged in an integrated curriculum of physical science, life science, Earth science, engineering, and technology.

**Battle Creek Area Mathematics and Science Center**
171 W. Michigan Ave.
Battle Creek, MI 49017
Phone: 269-213-3904
E-mail: susan@bcams.org
Website: www.bcams.org

**Bedford, Freeman & Worth (BFW) Publishers**
300 American Metro Blvd., Suite 140
Hamilton, NJ 08691
Phone: 866-843-3715
E-mail: jacqueline.seltzer@macmillan.com
Website: www.bfwpub.com/highschool

**Benchmark Education**
145 Huguenot St., 8th Floor
New Rochelle, NY 10801
Phone: 877-236-2465
E-mail: info@benchmarkeducation.com
Website: www.benchmarkeducation.com

Benchmark Education develops science comprehension through leveled texts that help diverse students meet grade-level standards, as well as Big Books that build science literacy though shared reading, and differentiated text pairs that provide middle school content at two reading levels.

**Beyond Benign**
100 Research Dr.
Wilmington, MA 01887
Phone: 508-229-5453
E-mail: info@beyondbenign.org
Website: www.beyondbenign.org

Beyond Benign is a nonprofit working to revolutionize chemistry education by equipping teachers with the tools they need to bring green chemistry into their classrooms. Green chemistry is the science of creating safe, energy-efficient, and nontoxic processes and products that provide sustainable solutions for environmental problems facing our society.

**Bio Corp.**
3910 Minnesota St. SW
Alexandria, MN 56308
PreK–12, College
Phone: 320-763-9094
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Website: www.bio-rad.com

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Hamilton, Waikato 3204
New Zealand
Phone: +64 7 8568104
E-mail: richard@biozone.co.nz
Website: www.thebiozone.com

BIOZONE publishes award-winning student resources for grades 9–12 biology (NGSS, regular, honors, AP, IB), anatomy and physiology, Earth and space science; and environmental science. Our successful 3-in-1 formula: part textbook/study guide/activity workbook, along with impressive graphics and write-on format, fosters student engagement. Learn how these workbooks can revitalize your teaching program.

**BirdBrain Science**
3435 Ocean Park Blvd. B, CA, EN, G, PH, T
Santa Monica, Ca 90405
Phone: 323-456-3137
E-mail: bredan@birdbrainscience.com
Website: www.birdbrainscience.com

BirdBrain is an adaptive science platform that serves NGSS-focused articles at seven different ready levels. We diagnose student reading levels, serve the same content to all students at their independent reading level, and adapt the level they receive as they improve.

**Bone Clones, Inc.**
21416 Chase St., Suite 1
Canoga Park, CA 91304
Phone: 800-914-0091
E-mail: sales@boneclones.com
Website: www.boneclones.com

Bone Clones manufactures detailed, high-quality osteological reproductions of skeletal elements. In addition to producing specimens exhibiting trauma and pathology, we have an extensive range of skulls and skeletons providing age, sex, and ancestry.

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Phone: 360-464-2119
E-mail: sales@boxlight.com
Website: www.boxlight.com

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The goal of the Bright Schools program is to create a STEM learning experience that will help students, parents, and teachers better understand the link between light, sleep, and student health and performance. Through the Bright Schools Competition, students in grades 6–8 will select a topic related to light and sleep and select one of three exploration options (developing a prototype, creating an awareness campaign, or writing a research proposal) to create an original project.

Britannica Digital Learning

331 N. LaSalle St.
Chicago, IL 60654

Phone: 312-347-7000, x7057

E-mail: kschultz@eb.com

Teach challenging middle school science concepts as well as critical reading, writing, and thinking skills with Pathways: Science. This online, interactive resource is inquiry-based, tackling common student misconceptions while supporting literacy skills in science.

Brown Dog Gadgets

3540 N. 126th St.
Brookfield, WI 53005

Phone: 262-290-6630

E-mail: help@browndoggadgets.com

We offer solar, electrical energy, and robotic projects for all grade levels with an emphasis on STEAM education through hands on learning.

Camp Invention

3701 Highland Park NW
North Canton, OH 44720

Phone: 800-968-4332

E-mail: berickson@invent.org

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Exhibitors

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Ocean City, MD 21843
Phone: 916-844-8744
E-mail: capitaltradeevents@gmail.com

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Carolina is a worldwide leader in providing educators with top-quality, innovative science and math materials, including our newest e-learning tools available at Carolinascienceonline.com. Carolina also serves the K–12 and college markets with everything to equip a science laboratory or classroom. Our Carolina™ Science catalog is free for educators and health professionals.

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Charlotte, NC 28217
5–12, College
Phone: 419-202-5482
E-mail: laura.kreutzer@cedarfair.com
Website: www.cedarfairyouthsales.com

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Website: www.celestron.com

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45 Manitoba St.
Springfield, MA 01108
3–12, College
Phone: 413-427-1214
E-mail: dawn@cellzone.org
Website: www.cellzone.org

Cell Zone provides interactive classroom materials that are designed by a biology teacher, incorporating active learning and universal design for learning (UDL) to engage diverse students. Our products target traditionally difficult topics to facilitate student learning. We also have a new gas jet safety product. Visit our booth to enter a drawing!

Center for Chemistry Education #945
Miami University
651 E. High St.
Oxford, OH 45056
Phone: 513-529-4961
E-mail: hershbss@miamioh.com
Website: www.ccemu.org

Fighting with Food: Battling Chemical Toxicity with Good Nutrition will create, test, and assess middle school and high school classroom instructional materials designed to bring the results of current biomedical research on nutrition and toxic exposure into the classroom, incorporate best STEM education practices, and lead to improved academic achievement and food choices.

Challenger Center #1359
422 First St. SE
Washington, DC 20003
5–9
Phone: 202-827-1580
E-mail: info@challenger.org

Challenger Center offers students the opportunity to experience exciting simulated space missions taking place in interactive STEM learning environments. Modeled after Mission Control and an orbiting Space Station, students apply scientific knowledge to real-world scenarios and cultivate important 21st-century skills like problem solving, critical thinking, communication, and teamwork.

Chemglass Life Sciences #251
3800 N. Mill Rd.
Vineland, NJ 08360
PreK–12, College
Phone: 800-843-1794
E-mail: melanie@cglifesciences.com
Website: www.cglifesciences.com

In addition to our wide selection of glassware and equipment for chemistry, we have begun adding products for chromatography and cell culture. CGLS fabricates standard glassware items, components, and custom glassware. We have the capability to produce the most complex glass apparatus, intricate electronic equipment, and customized machined components.
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Whether you’re building a robot at home, teaming up for robotics competitions on the world stage, or inspiring the STEM problem solvers of tomorrow in your classroom... you're building a better future.

See for yourself at Booth 1344!
### Exhibitors

<table>
<thead>
<tr>
<th>Company</th>
<th>Booth Number</th>
<th>Address</th>
<th>Contact Information</th>
<th>Website</th>
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<tbody>
<tr>
<td>Chibitronics</td>
<td>#1344</td>
<td>2M Jalan Remaja, G, PH, T 2–12</td>
<td>Phone: +65 08239007  E-mail: <a href="mailto:info@chibitronics.com">info@chibitronics.com</a>  Website: <a href="http://www.chibitronics.com">www.chibitronics.com</a></td>
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<td>Singapore 6686671</td>
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<td>Civil Air Patrol, NHQ</td>
<td>#1417</td>
<td>105 S. Hansell St.  EA K–12, College</td>
<td>Phone: 877-227-9142  E-mail: <a href="mailto:ae@capnhq.gov">ae@capnhq.gov</a>  Website: <a href="http://www.gocivilairpatrol.com">www.gocivilairpatrol.com</a></td>
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<td>Montgomery, AL 36112</td>
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<td>The CK-12 Foundation</td>
<td>#1438</td>
<td>3430 W. Bayshore Rd.  T K–12</td>
<td>Phone: 650-494-1302  E-mail: <a href="mailto:juli@ck12.org">juli@ck12.org</a>  Website: <a href="http://www.ck12.org">www.ck12.org</a></td>
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<td>Palo Alto, CA 94303</td>
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<tr>
<td>Claire Lynn Designs</td>
<td>#1139</td>
<td>222 Henderson Midlothian, TX 76065 B, C, PH, T PreK–12</td>
<td>Phone: 972-723-2251  E-mail: <a href="mailto:clairelynn1@ibcglobal.net">clairelynn1@ibcglobal.net</a>  Website: <a href="http://www.clairelynn.com">www.clairelynn.com</a></td>
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<td>Clemson University</td>
<td>#543</td>
<td>132 Long Hall Clemson SC 29634 PD College</td>
<td>Phone: 864-656-2153  E-mail: <a href="mailto:tjarret@clemson.edu">tjarret@clemson.edu</a>  Website: <a href="http://www.clemson.edu/coafs/departments/biosci">www.clemson.edu/coafs/departments/biosci</a></td>
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<td></td>
<td></td>
<td>1740 4th Ave. SE, Suite E PreK–12, College Decatur, AL 35601</td>
<td>Phone: 256-351-4505  E-mail: <a href="mailto:schelly.corry@cookmuseum.org">schelly.corry@cookmuseum.org</a>  Website: <a href="http://www.cookmuseum.org">www.cookmuseum.org</a></td>
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<td>Cogent Education</td>
<td>#922</td>
<td>470 E. Paces Ferry Rd.  B, T 8–10, College Atlanta, GA 30305</td>
<td>Phone: 877-654-1001  E-mail: <a href="mailto:tyler@cogenteducation.com">tyler@cogenteducation.com</a>  Website: <a href="http://www.cogenteducation.com">www.cogenteducation.com</a></td>
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<td>Suite 390</td>
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<td>159 Sapsucker Woods Rd.  B, EN, G, PD Ithaca, NY 14850</td>
<td>Phone: 607-254-2474  E-mail: <a href="mailto:jlc11@cornell.edu">jlc11@cornell.edu</a>  Website: <a href="http://www.birdsleuth.org">www.birdsleuth.org</a></td>
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<td>1667 K St. NW, Suite 300 4–12 College Washington, DC 20007</td>
<td>Phone: 202-670-6501  E-mail: <a href="mailto:info@aerosolproducts.org">info@aerosolproducts.org</a>  Website: <a href="http://www.aerosolproducts.org">www.aerosolproducts.org</a></td>
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<td>The Consumer Aerosol Products Council</td>
<td>#160</td>
<td>1667 K St. NW, Suite 300 4–12 College Washington, DC 20007</td>
<td>Phone: 202-670-6501  E-mail: <a href="mailto:info@aerosolproducts.org">info@aerosolproducts.org</a>  Website: <a href="http://www.aerosolproducts.org">www.aerosolproducts.org</a></td>
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Circuit stickers are LED stickers that let kids craft and learn about circuitry at the same time. Great for STEM learning, these stickers are easy-to-use (no soldering required), work with all conductive materials, and are fun for all ages. They scale with experience, from simple LED stickers (just stick!) to interactive sensor and effects stickers. Our stickers and projects support the NGSS, ISTE, CSTA and CCSS.

The CK-12 Foundation is a California-based nonprofit organization whose mission is to reduce the cost of, and increase access to, K–12 educational resources worldwide. CK-12 provides free and fully customizable K–12 open educational resources targeting state and national curriculum standards and tailored to meet student and teacher needs.

The Consumer Aerosol Products Council (CAPCO) is a nonprofit that has developed resources for teachers to help educate their students about the environment by teaching about the history of CFCs, the Earth’s upper ozone layer, the atmosphere, and also aerosol product technology to teach about gases under pressure, phase changes, gas laws, and physics. They offer a free teacher’s kit for grades 4–9, and information on recycling empty aerosol cans.

The new Cook Museum of Natural Science will be a state-of-the-art, scientifically accurate, educational destination and cultural venue located in downtown Decatur, Alabama. Opening summer 2017, the museum will be dedicated to the exploration of our physical and natural world. Visitors will be encouraged to think critically and creatively while experiencing how “Life is Amazing!”

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Website: www.cposcience.com

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E-mail: gr@createwith3D.com
Website: www.createwith3D.com

Our journey into the world of 3D printing began simply as enthusiasts of this rapidly developing technology. We quickly saw, however, that there was a need for a more personal approach to the 3D printing market. This is why we have developed CreateWith3D, a company that offers a one-stop-shop for all of your 3D printing needs. Our true passion lies in helping you bring your ideas from concept to reality, taking mere thoughts and making them into three-dimensional actuality.

Creative Discovery Museum
321 Chestnut St.
Chattanooga, TN 37402
Phone: 423-290-4641
E-mail: jwr@cdmfun.org
Website: www.dcmfun.org

Creative Discovery Museum (Chattanooga, Tennessee) is working with the BioEnergy Science Center (BESC) in Oak Ridge, Tennessee, on a biofuels/alternative energies project called Farming For Fuels. Come by our booth to pick up free STEM materials, including curriculum, hands-on activities, “Road Trip Challenge” iPad app, website (www.learnbiofuels.org), and distance learning lesson information.
The Cyber Innovation Center provides hands-on professional development, curricula, programs, and competitions to engage students in cyber and STEM fundamentals. Project-driven curricula creates a contest for the content at every level of learning. Professional development programs for K–12 teachers enable them to motivate and spark creativity and innovation in students through problem-solving, critical thinking, and communication.

Delta Education/School Specialty Science #322
80 Northwest Blvd.
Nashua, NH 03063
Phone: 800-258-1302
E-mail: customerservice.delta@schoolspecialty.com
Website: www.deltaeducation.com

Delta Education is your leading educational partner in providing hands-on, inquiry-based K–8 curriculum and instructional resources. With programs like FOSS® and DSM®, informational texts (Delta Science Content Readers), and STEM resources, we help you develop students who set a world-class standard for college and workforce readiness.

Different Drum Educational Sailing Adventures #562
8466 Cypress Lake Circle 7–12, College
Sarasota, FL 34243
Phone: 804-694-7511
E-mail: info@differentdrumsailing.com
Website: www.differentdrumsailing.com

Different Drum Educational Sailing Adventures offers exciting, live-aboard educational trips on the sailing vessel Boundless. Trips take place in the Bahamas during the winter/spring months and on the Chesapeake Bay in the Main during the summer months. Coral reef studies, snorkeling, navigation, life skills, meteorology, and leadership development all in a self-esteem building week of adventure!

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Phone: 360-616-8915
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Website: www.digitaliseducation.com

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Website: www.dinah.com

Dinah.com is the new name for the educational publishing and consulting company owned by author/speaker Dinah Zike. The name change reflects a shift toward digital products, in addition to her popular books for educators. Dinah is known for her 3-D interactive graphic organizers (Foldables®) featured in all her publications.

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E-mail: jennifer_obrien@discovery.com
Website: www.discoveryeducation.com

Discovery Education is the global leader in standards-based digital content and professional development for K–12, transforming teaching and learning with award-winning digital textbooks, multimedia content that supports the implementation of CCSS, professional development, and the largest professional learning community of its kind.

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Celebration, FL 34787 K–12
Phone: 407-566-6507
E-mail: kathryn.n.curcio@gmail.com
Website: www.disneyyouthprograms.com

Disney Youth Group Programs is a collection of unique and enriching experiences designed to engage young minds and show students the path to making dreams a reality. These practical learning programs spark creativity and unlock the hidden potential within your students.

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300 S. Krueger St. G
Suring, WI 54174 K–12, College
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E-mail: jryno@diversifiedwoodcrafts.com
Website: www.diversifiedwoodcrafts.com

Diversified Woodcrafts is the manufacturer of high-quality wood laboratory furniture and casework. We work with all size projects from a few tables to entire buildings. We are most known for our quality wood tables and our teacher-inspired Forward Vision Workstation. If you visit schools throughout the country, chances are you’ll find the Diversified Woodcrafts label on at least one piece of furniture in the school, if not a whole classroom’s worth.

—courtesy of Jacob Slaton
EXCITE, ENGAGE, AND ENCOURAGE K–12 STUDENTS

From research-based programs and cutting edge products to new takes on classic lab supplies and tools that will enhance your STEM-based curriculum, we have what you need to outfit your classroom for the 21st century and prepare students for college and careers.

<table>
<thead>
<tr>
<th>ROOM</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>CPO SCIENCE Room #201A</td>
<td>CPO’s Chemistry Models Link Learning Module: Fun with Atom Building and the Periodic Table</td>
<td>CPO’s Optics with Light and Color: Use Light to Learn About Light with our Link Learning Module</td>
</tr>
<tr>
<td>FOSS Room #201B</td>
<td>Ten Minutes to Improving Science Achievement</td>
<td>What Does Argumentation Look Like in an Elementary Classroom?</td>
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<tr>
<td>DSM Room #202A</td>
<td>Engineering Design: Will It Sink or Float?</td>
<td>No sessions</td>
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<tr>
<td>FREY SCIENTIFIC Room #201A</td>
<td>Frey Scientific – Inquiry Investigations™ into Environmental Issues</td>
<td>Solving the Mystery of STEM using Forensic Science</td>
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<tr>
<td>DSM Room #202A</td>
<td>PEASE in Our Time – Memory Lanes of the Brain</td>
<td>No sessions</td>
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<tr>
<td>CPO SCIENCE Room #201A</td>
<td>Building and Electric Motor the STEM Way with CPO’s Link Learning Module</td>
<td>Genetics: Crazy Traits and CPO’s Link Learning Module</td>
</tr>
<tr>
<td>FOSS Room #201B</td>
<td>Floods, Heat Waves, and Hurricanes: Analyzing Evidence for a Changing Climate Using FOSS</td>
<td>Modeling Energy Flow in Ecosystems: Developing Models in Middle School Life Science</td>
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<tr>
<td>DSM Room #202A</td>
<td>Crosscutting Concepts and Argumentation Using Magnets and Electromagnetism</td>
<td>No sessions</td>
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<tr>
<td>2:00–3:30</td>
<td>CPO SCIENCE Room #201A</td>
<td>CPO’s Wind Turbine Link Learning Module: A STEM Approach to Engineering and Design</td>
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<tr>
<td>FOSS Room #201B</td>
<td>Engage Them Early: Engineering Experiences with FOSS</td>
<td>Designing with FOSS: Engineering in Elementary Science</td>
</tr>
<tr>
<td>DSM Room #202A</td>
<td>What’s Going on in There? NGSS &amp; STEM for Administrators, Teacher Trainers, and University Faculty</td>
<td>No sessions</td>
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<tr>
<td>4:00–5:30</td>
<td>CPO SCIENCE Room #201A</td>
<td>Genetics: Crazy Traits and CPO’s Link Learning Module</td>
</tr>
<tr>
<td>FOSS Room #201B</td>
<td>What Does Conceptual Modeling Look Like in Grades 5–7 Classrooms?</td>
<td>Archaea and the Three Domains: Classification of Life for Middle School</td>
</tr>
<tr>
<td>DSM Room #202A</td>
<td>High Flying Connections with Science and Literacy</td>
<td>No sessions</td>
</tr>
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Website: dronecurriculum.net

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Website: thechallenge.dupont.com

The DuPont Challenge Science Essay Competition is the premier science competition in the United States and Canada, inspiring students to excel and achieve in scientific writing. Students from grades K–12 are eligible. When students win, teachers win, too! For more information, visit The DuPont Challenge website at www.thechallenge.dupont.com.

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96 Morton St., 7th Floor
New York, NY 10014
Phone: 212-807-4200
E-mail: playingwithdata@edc.org
Website: cct.edc.org

Playing with Data is a National Science Foundation-funded research project to study how middle school science teachers use data from video game play to make decisions about instruction and student learning. The project is recruiting teachers to participate in the study beginning in fall 2016.

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ISRI is an association representing more than 1,600 companies. We provide education, advocacy, and safety training. ISRI partnered with JASON Learning to launch a national recycling education campaign targeting K–12 grades. The campaign includes lesson plans, hands-on activities, and interactive experiences, focusing on the importance of recycling and the scrap industry.

It’s A Noisy Planet—Protect Their Hearing
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Bethesda, MD 20892
Phone: 800-241-1044
E-mail: npinfo@nidcd.nih.gov
Website: www.noisyplanet.nidcd.nih.gov

The National Institute on Deafness and Other Communication Disorders, part of the NIH, developed Noisy Planet—a national science-based education campaign—to increase awareness among preteens and their parents about the causes and prevention of noise-induced hearing loss.

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<td>Math for America</td>
<td>#547</td>
<td>915 Broadway 16th Floor</td>
<td>Phone: 646-437-0904 Website: <a href="http://www.mathforamerica.org">www.mathforamerica.org</a></td>
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<td>New York, NY 10010</td>
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<tr>
<td>McDowell Farm School</td>
<td>#948</td>
<td>105 Delong Rd. B, EN, G, PD</td>
<td>Phone: 205-522-1500 E-mail: <a href="mailto:maggie@campmcdowell.com">maggie@campmcdowell.com</a> Website: <a href="http://www.mcdowellfarmschool.com">www.mcdowellfarmschool.com</a></td>
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<td>Nauvoo, AL 35578</td>
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<tr>
<td>McGraw–Hill Education</td>
<td>#1345</td>
<td>8787 Orion Place PreK–12</td>
<td>Phone: 800-334-7344 Website: <a href="http://www.mheonline.com">www.mheonline.com</a></td>
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<td>Columbus, OH 43240</td>
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<td>Measured Progress</td>
<td>#304</td>
<td>100 Education Way K–12</td>
<td>Phone: 603-749-9102 E-mail: <a href="mailto:sales@measuredprogress.org">sales@measuredprogress.org</a> Website: <a href="http://www.measuredprogress.org">www.measuredprogress.org</a></td>
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At Math for America (MfA), we do everything we can to make teaching a viable, rewarding, and respected career choice for the best minds in science and mathematics. Our Master Teacher Fellowship achieves this goal by bringing together outstanding, experienced teachers to share knowledge, advance teaching skills, and define excellence itself.

Part of McDowell Environmental Center, McDowell Farm School offers three-day trips for schools to learn more about our connection to the foods we eat and the natural world, as well as teacher workshops.

We are a learning science company that delivers personalized learning experiences that help students, parents, educators, and professionals improve results. We have offices across North America, India, China, Europe, the Middle East, and South America, and make our learning solutions available in nearly 60 languages. Learn more at mheducation.com/prek-12.

A nonprofit organization, Measured Progress is a pioneer in authentic, standards-based assessments. For more than 30 years, we have been connecting the K–12 educational community with innovative and flexible assessment solutions. Our goal is to provide meaningful information about student progress to improve teaching and learning.

---

### Connect the Dots... between chemical and biological indicators of water quality!

Explore the connection between the freshwater stream community and water quality with The Leaf Pack Stream Ecology Kit. Students design an experiment to collect and identify macroinvertebrates that colonize leaf packs made from stream-side leaves. Using pollution tolerance characteristics, the macros can act as living indicators of water quality.

The AP Water Quality Assessment Package is a complete AP level curriculum that uses the Water Quality Index to teach STEM-based skills. Students learn valuable skills through a variety of classroom activities and then apply them to design an activity that evaluates water test data to determine the water quality of a local stream.

Check out our Workshops!

- **AP Environmental Water Quality Assessment Curriculum**
- **Stream Ecology: Slimy Leaves for Healthy Streams**

**Visit us at Booth# 1015**

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We share the ultimate aim of all stakeholders: to use technology to help improve education and learning, create opportunity, and raise living standards for people around the world. Our commitment therefore, is to the success of each educator and learner. Our mission is to help learners and educators throughout the world realize their full potential.

The MiniOne™ Electrophoresis  #816
7738 Arjons Dr.  B, G
San Diego, CA 92126  7–12, College
Phone: 858-684-3190
E-mail: info@theminione.com
Website: www.theminione.com

The MiniOne streamlines the multi-step electrophoresis process, allowing middle school to high school AP biology students to take ownership of their work and develop scientific practices through inquiry-based learning. Provide your students with the skill sets to analyze results based on experiments they design and conduct all in one class period.

miniPCR  #1333
1770 Massachusetts Ave., Suite 167
Cambridge, MA 02140
Phone: 781-990-3190
E-mail: team@minipcr.com
Website: www.minipcr.com

Enable hands-on biology experimentation with miniPCR™. The DNA Discovery System™ is a complete biotechnology lab for only $990, including a miniPCR thermal cycler, blueGe™ electrophoresis with integrated illuminator, and a micropipette—miniPCR Learning Labs™ engage students in hands-on inquiry with real-world applications. Enter the world of DNA science and discovery in your own classroom!

Mississippi State University  #560
Geosciences  EA
Dept. of Geosciences  5–12, College
PO Box 5448
Mississippi State, MS 39762
Phone: 662-325-9684
E-mail: kms5@msstate.edu
Website: www.distance.msstate.edu/geosciences

Mississippi State University offers MS degrees in geosciences through distance learning in two 36-hour non-thesis programs, the Applied Meteorology Program (AMP) and the Teachers in Geosciences (TIG) Program. AMP was designed for individuals in weather-related fields while TIG was designed for educators. New programs are also under development.

The Molecularium Project  #1241
110 8th St.  B, C, EA, G
Troy, NY 12180 1–12
Phone: 845-782-387
E-mail: educators@molecularium.com
Website: www.molecularium.com

The Molecularium® Project, the flagship outreach effort of Rensselaer Nanotechnology Center, teaches kids about the amazing nanoscale world of atoms and molecules through immersive and interactive media. Our productions include Molecules to the MAX—a 3-D animated feature for IMAX theaters now on DVD and Blu-Ray, and Nano-Space—an online, game-based theme park with over 25 different games, activities, and short animations to excite and teach kids.

Mylomod™ Models, Spiring Enterprises Ltd.  #649
Unit SE, Gillmans Industrial Estate 5–12, Natts Lane, Billingshurst College West Sussex, U.K. RH14 9EZ
Phone: +44 01404 782387
E-mail: email@molymod.com
Website: www.molymod.com

Spiring Enterprises Limited is the inventor and exclusive manufacturer of Molymod® Molecular Models—a quality dual scale system of molecular and atomic models—and the advanced minDNA™—an abstract system for modeling DNA (replication), RNA (transcription/translation), and protein synthesis. Molymod® products range from sets, kits, and spare parts, suitable for chemistry, biology, and general science courses for ages 12 years and up to college and university.

Monsanto Company  #1119
800 N. Lindbergh Blvd.  B, EN, T
St. Louis, MO 63167  K–12
Phone: 314-694-1000
E-mail: stemeducation.outreach@monsanto.com
Website: discover.monsanto.com

Monsanto is a sustainable agriculture company. We deliver agricultural products that support farmers all around the world. We are focused on empowering farmers—large and small—to produce more from their land while conserving more of our world’s natural resources, such as water and energy.

Mountain Press  #1152
1301 S. 3rd St. W  EA, EN
Missoula, MT 59801  K–12, College
Phone: 406-728-1900
E-mail: info@mtnpress.com
Website: www.mountain-press.com

Mountain Press publishes nonfiction books on geology, natural history, and western U.S. history. We are best known for the Roadside Geology, Geology Underfoot, and Nature’s Yucky! series.
National Earth Science Teachers Association
Events at 2016 Nashville NSTA Conference

All NESTA sessions are in Music City Center, Davidson B, unless otherwise indicated

Friday, April 1
- 9:30 – 10:30 am Earth System Science Share-a-Thon
- 11:00 am – noon NESTA and HHMI Share: Multimedia Tools and Resources for Teaching Earth Science
- 12:30 – 1:30 pm NESTA and TERC Share: EarthScope Chronicles: The Newberry Volcano
- 2:00 – 3:00 pm Geology Share-a-Thon
- 3:30 – 4:30 pm Rock, Mineral, and Fossil Raffle
- 6:30 – 8:00 pm NESTA Friends of Earth Science Reception, Hilton Garden Inn, Skyline Junior Ballroom

Saturday, April 2
- 9:30 – 10:30 am Astronomy Science Share-a-Thon
- 11:00 am – noon American Geophysical Union Lecture, Dr. Linda Kah, Kenneth Walker Professor at UT-Knoxville, Music City Center, Grand Ballroom C2
- 12:30 – 1:30 pm NESTA and CIESIN Share: Exploring a Compendium of Online Resources for Teaching Earth Science
- 2:00 – 3:00 pm Atmosphere and Ocean Share-a-Thon
- 3:30 – 4:30 pm Innovative Ways to Teach about Weather Observation and Weather Hazards
- 5:00 – 6:00 pm NESTA Annual Membership Meeting

NESTA gratefully acknowledges the following organizations as sponsors:
As an instructional materials development laboratory, we create student-centered, hands-on kits and models for the molecular biosciences. Through our professional development experiences, teachers learn active teaching skills and are involved in developing and field-testing new kits. Ask about our outreach programs—SMART Teams and Science Olympiad Protein Modeling Event.

**Exhibitors**

**M SOE Center for BioMolecular Modeling**
1025 N. Broadway St.
Milwaukee, WI 53202
Phone: 414-277-2824
E-mail: herman@msoe.edu
Website: cbm.msae.edu

**MudWatt**
730 Roble Ave., Suite 1
Menlo Park, CA 94025
Phone: 617-858-0728
E-mail: info@mudwatt.com
Website: www.mudwatt.com

Clean Energy from Mud! The MudWatt enables students to harness the power (literally) of bacteria, and generate electricity from soil from their own backyards (or someone else’s backyard!) This ultimate STEM tool integrates energy, environmental science, sustainability, microbiology, physics, and chemistry—all in one memorable experience! Free NGSS curricula available.

**“Murder at Old Fields”**
52 Broadway, 2-7
Greenlawn, NY 11740
Phone: 631-262-7110
E-mail: john.s@ebullfrog.com
Website: www.murderatoldfields.com

“Murder at Old Fields”—a breakthrough web-based forensic science lab activity for middle school and high school students—is based on an actual double-murder that occurred in Old Fields, Long Island, in 1842. This is a visually-rich, historically true virtual lab—with learning by discovery and cutting-edge technology—perfect for Extended Learning Opportunities (ELOs), too.

**NADA Scientific, Ltd.**
39 Butternut St.
Champlain, NY 12919
Phone: 518-297-3208
E-mail: nouri@nadascientific.com
Website: www.nadascientific.com

Celebrating our 30th Anniversary, we will demonstrate a diverse new selection of science, technology, engineering, and automotive education instruments designed for the 21st-century classroom. See our new STEM Battery Kit, HyDrive, RSpec Explorer, and Hybrid System Model at our booth.

**Nano-Link: Center for Nanotechnology Education**
1300 145th St. E
Rosemount, MN 55068
Phone: 651-423-8328
E-mails: deb.newberry@dctc.edu; billie.opley@dctc.edu
Website: www.nano-link.org

Nano-Link is dedicated to promoting nanotechnology education at multiple grade levels by providing comprehensive resources for educators. These resources are supported by hands-on educator workshops and online content and activity kits.

**NaRiKa Corp.**
5-3-10, Sotokanda, Chiyoda-Ku
Tokyo, 10021
Phone: +81-3-3833-0746
E-mail: okuda@rika.com
Website: global.rika.jp

We are a leading Japanese supplier for scientific educational materials, mainly for primary/secondary schools. Visit our booth to see our physics-related products, along with original lesson plans for teachers to use with our products.

**NASA Office of Education**
300 E St. SW, Suite 4Q22
Washington, DC 20546
Phone: 202-358-0814
E-mail: kevin.e.durham@nasa.gov
Website: www.nasa.gov

NASA Education is an essential part of NASA mission to drive advances in science, technology, aeronautics, and space exploration to enhance knowledge, education, innovation, economic vitality, and stewardship of Earth. NASA’s offices, mission directorates, and centers work together to offer unique educational experiences to learners, educators, and institutions. We connect you to NASA’s content, websites, people, resources, and facilities to inspire, engage, educate, and employ.

**The National Academies**
500 5th St. NW
Washington, DC 20001
Phone: 202-334-2000
Website: www.nationalacademies.org

The National Academies Press (NAP) was created by the National Academy of Sciences to publish the reports of the National Academies of Sciences, Engineering, and Medicine. The NAP actively promotes science education and our many titles recommend science standards, explore teacher and student evaluation, and discuss education research and practice.

**National Agriculture in the Classroom**
2300 Old Main
Logan, UT 84322
Phone: 435-213-5562
E-mail: debra.spielmaker@usu.edu
Website: agclassroom.org

National Agriculture in the Classroom is an organization of state programs that seek to improve agricultural literacy through science, social studies, nutrition education, and Common Core State Standards, by providing classroom resources for preK–12 teachers and their students. Agricultural science career resources and a strategy for teaching agricultural issues will be distributed.
### Exhibitors

<table>
<thead>
<tr>
<th>National Assessment of Educational Progress</th>
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<td>1030 15th St. NW, Suite 600E</td>
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<td>Washington, DC 20005</td>
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<td>Phone: 202-842-3600</td>
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<td>E-mail: <a href="mailto:dmaiah@hagersharp.com">dmaiah@hagersharp.com</a></td>
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<td>Website: <a href="http://www.nationsreportcard.gov">www.nationsreportcard.gov</a></td>
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The National Assessment of Educational Progress (NAEP) is the largest continuing and nationally representative assessment of what students in the United States know and can do in various subjects. NAEP is a congressionally mandated project administered by the National Center for Education Statistics (NCES), located within the U.S. Department of Education’s Institute of Education Sciences.

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<tr>
<th>National Center for Science Education</th>
<th>#1009</th>
<th>B, EA, EN</th>
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<tr>
<td>1904 Franklin St., Suite 600</td>
<td>6–12, College</td>
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<tr>
<td>Oakland, CA 94612</td>
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<td>Phone: 510-601-7203</td>
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<td>E-mail: <a href="mailto:luhn@ncse.com">luhn@ncse.com</a></td>
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<td>Website: <a href="http://www.ncse.com">www.ncse.com</a></td>
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The National Center for Science Education (NCSE) defends the teaching of evolution and climate science in the public schools. The NCSE provides information, resources, and advice to schools, teachers, parents, scientists, concerned citizens, and the press at local, state, and national levels.

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<th>The National Energy Education Development Project</th>
<th>#1326</th>
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<tr>
<td>8408 Kao Circle</td>
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<td>PreK–12</td>
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<td>Manassas, VA 20110</td>
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<td>Phone: 703-257-1117</td>
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<td>E-mail: <a href="mailto:cchesson@need.org">cchesson@need.org</a></td>
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<td>Website: <a href="http://www.need.org">www.need.org</a></td>
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The mission of The NEED Project is to promote an energy conscious and educated society by creating effective networks of students, educators, business, and government and community leaders to design and deliver objective, multi-sided energy education programs. NEED works with energy companies, agencies, and organizations to bring balanced energy programs to the nation’s schools.

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**CALLING ALL MIDDLE SCHOOL EDUCATORS**

**Saturday, April 2, 2016 | 10:00 AM–4:00 PM | Omni Nashville**

*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 2016 National Conference in Nashville!

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)**

Attend for a chance to win an iPad mini and other door prizes!

**Sponsored by**

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**#NSTA16**

[www.nsta.org/nashville](http://www.nsta.org/nashville)
Exhibitors

National Environmental Education Week  #1415
4301 Connecticut Ave., Suite 160 PreK–12
Washington, DC 20008 College
Phone: 202-261-6469
Website: www.neefusa.org

The U.S. Environmental Protection Agency and its partner foundation, The National Environmental Education Foundation (NEEF) are exhibiting in support of National Environmental Education Week, April 17–23, 2016. Information will be distributed on a variety of resources designed to help educate students and the general public about the environment, STEM, and human health.

National Geographic  #749
1145 17th St. NW PreK–12
Washington, DC 20036
Website: www.natgeoed.org

National Geographic creates materials for educators and students that combines our spirit of exploration and adventure with our goal of educating young people about their world. Our award-winning products, experiences, and programs inspire students to explore and understand the world around them.

National Geographic Learning  #750
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National Geographic Learning, a part of Cengage Learning, provides quality preK–12, academic, and adult education instructional solutions for reading, science; social studies; mathematics; ESL/ELD; advanced, honors, and electives; career and technical education; and professional development. See our new catalog at NGL.Cengage.com/catalogs.

National Institute of Neurological Disorders and Stroke  #1025
31 Center Dr., Bldg. 31, Room 8407 K–12
Bethesda, MD 20892
Phone: 301-496-5751
E-mail: braininfo@ninds.nih.gov
Website: www.ninds.nih.gov

The National Institute of Neurological Disorders and Stroke (NINDS) provides information about available research support and offers free publications for students, patients, and their families on stroke and various other neurological disorders. Members of the NINDS staff will be available to assist you. Printed material is available.

National Library of Medicine  #402
8600 Rockville Pike K–12
Bethesda, MD 20894
Phone: 888-FIND-NLM (346-3656)
E-mail: tehpi@ihc.nlm.nih.gov
Website: www.nlm.nih.gov

The National Library of Medicine provides K–12 teachers and students with free, reliable science and health information resources and programs to help introduce, reinforce, and supplement education programs. Resources include biology, careers, chemistry, environmental health science, forensics, general health, genetics, and HIV/AIDS. For more information, visit sis.nlm.nih.gov/outreach/k12.html.

National Math + Science Initiative (NMSI)  #162
8350 N. Central Expressway 3–12
Dallas, TX 75206
Phone: 214-346-1213
E-mail: ndouglas@nms.org

NMSI is transforming education across the nation by building college readiness through exceptional teaching. We are a nonprofit focused on delivering educational programs to states and schools by providing training and resources.

New Knowledge Organization Ltd.  #958
13 E. 37th St., 7th Floor PreK–12, College
New York, NY 10016
Phone: 347-766-3399
E-mail: ltietjen@newknowledge.org
Website: www.newknowledge.org

New Knowledge is a nonprofit think tank that partners with teachers in formal and informal learning environments to help advance positive engagement in solving the grand challenges that face society. The exhibit will share results of recent research and invite attendees to consider becoming part of our national research projects.

NewPath Learning  #637
760C Canning Pkwy. PreK–12
Victor, NY 14564
Phone: 800-507-0966
E-mail: customerservice@newpathlearning.com
Website: www.newpathlearning.com

NewPath provides the best in blended learning resources. Its Curriculum Mastery® Games, Flip Charts, IWB software, Visual Learning Guides™, and Study Cards provide comprehensive coverage of both NGSS and current state science standards. These hands-on products are supplemented with web-based multimedia lessons and tools for developing custom lessons at www.newpathlearning.com.
NGSS@NSTA
1840 Wilson Blvd.
Arlington, VA 22201
K–12
E-mail: ngss@nsta.org
Website: www.nsta.org/ngss

How can NSTA help you prepare for the Next Generation Science Standards? Stop by our booth to hear the latest news about state adoption and check out a sampling of NSTA resources dedicated to helping teachers understand and implement the new standards.

NNCO
4201 Wilson Blvd.
Arlington, VA 22230
PreK–12, College
Phone: 703-292-7922
E-mail: dpetreski@nnco.nano.gov

The National Nanotechnology Initiative (NNI) is a U.S. federal government research and development initiative involving the nanotechnology-related activities of 20 departments and independent agencies. The NNI supports the development of robust educational resources, a skilled workforce, and supporting infrastructure and tools.

NOAA Education
1305 East-West Hwy.
Room 1W514
Silver Spring, MD 20910
Phone: 301-713-1208
E-mail: education@noaa.gov
Website: www.education.noaa.gov

NOAA is a federal science agency providing free information about weather, climate, oceans, coasts, fisheries, satellite data, and solar weather. NOAA’s science touches the lives of every American—protecting life and property and conserving and protecting natural resources. Our collaboration with NSTA also fosters our mission to educate and inspire the nation and prepare a future workforce.

Nomad Press
2456 Christian St.
White River Junction, VT 05001
3–9
Phone: 802-649-1995
E-mail: rachel@nomadpress.net
Website: www.nomadpress.net

Ever met a kid who isn’t curious? Kids are natural scientists. They want to know about the physical and natural worlds around them. Nomad Press titles engage young scientists in the scientific process as they find themselves thinking critically, making predictions, conducting experiments, documenting observations, and making discoveries about the real world.

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At Booth
734
Exhibitors

North American Association for Environmental Education
EN, PD
2000 P St. NW, Suite 540
PreK–12, College
Washington, DC 20036
Phone: 202-419-0412
E-mail: regina@naaee.org
Website: www.naaee.org

The North American Association for Environmental Education (NAAEE) has served as the professional association, champion, and backbone organization for the field of environmental education. We work with a diverse group of educators in the U.S., Canada, and Mexico to advance environmental education and engagement to help create a more environmentally informed, committed, and active citizenry.

Northeastern Integrated Pest Management Center
340 Tower Rd., Cornell University
Ithaca, NY 14853
Phone: 607-255-8815
E-mail: northeastipm@cornell.edu
Website: www.northeastipm.org

Integrated pest management (IPM) uses a scientific approach to eliminate or reduce pesticide and minimize risk of toxicity and exposure. We are posing a one-question survey about the barriers for teaching IPM sustainable practices for science teachers, administrators, and students.

Northrop Grumman Foundation
2980 Fairview Park Dr.
EA, PD, T
Falls Church, VA 22042
Phone: 888-478-5478
E-mail: ngfoundation@ngc.com
Website: www.northropgrumman.com

Northrop Grumman and the Northrop Grumman Foundation are committed to expanding and enhancing the pipeline of diverse, talented STEM students globally. They provide funding to sustainable STEM programs that span from preschool to high school and through collegiate levels, with a major emphasis on middle school students and teachers.

NSTA 2016 Columbus Area Conference
1840 Wilson Blvd.
Arlington, VA 22201
Website: www.nsta.org/columbus

Stop by and find out about the exciting program for the NSTA 2016 Columbus Area Conference—December 1–3, 2016.

NSTA 2016 Minneapolis Area Conference
1840 Wilson Blvd.
Arlington, VA 22201
Website: www.nsta.org/minneapolis

Stop by and find out about the exciting program for the NSTA 2016 Minneapolis Area Conference—October 27–29, 2016.

NSTA 2016 Portland Area Conference
1840 Wilson Blvd.
Arlington, VA 22201
Website: www.nsta.org/portland

Stop by and find out about the exciting program for the NSTA 2016 Portland Area Conference—November 10–12, 2016.

NSTA 2016 STEM Forum & Expo
1840 Wilson Blvd.
Arlington, VA 22201
Website: www.nsta.org/stemforum

Stop by and find out about the exciting program for the 5th Annual NSTA STEM Forum & Expo hosted by NSTA—July 27–29 in Denver, Colorado.

#askNSTA

AEOP eCYBERMISSION and GEMS
Booth #1046 • E-mails: missioncontrol@ecybermission.com
aeopgems@nsta.org
Website: www.usaep.com

Bright Schools Competition
Booth #1045 • E-mail: sbeistel@nsta.org
Website: www.brightschoolscompetition.org

The DuPont Challenge
Booth #1043 • E-mail: tchinick@nsta.org
Website: thechallenge.dupont.com

NGSS@NSTA
Booth #1034 • E-mail: ngss@nsta.org
Website: www.nsta.org/ngss

NSTA Awards
Booth #1040 • E-mail: awards@nsta.org
Website: www.nsta.org/awards

NSTA Membership
Booth #934 • E-mail: membership@nsta.org
Website: www.nsta.org/membership

NSTA Nominations
Booth #1038 • E-mail: nominations@nsta.org
Website: www.nsta.org/nominations

NSTA Professional Learning Opportunities
Booth #1036 • E-mail: fmendez@nsta.org
Website: www.nsta.org/conferences

Shell Science Lab Challenge
Booth #1044 • E-mail: shellsciencelab@nsta.org
Website: www.nsta.org/shellsciencelab

Toshiba/NSTA ExploraVision
Booth #952 • E-mail: exploravision@nsta.org
Website: www.exploravision.org
What are the Next Generation Science Standards?

Where can I find free articles tailored to my grade level and subject area?

What does NSTA have for student teachers?

How can I find funds to attend an NSTA conference?

The #askNSTA Lounge is the place in Nashville to learn more about NSTA Membership and become part of the group who is crafting the future of science education!

Come by booth #934 in the Exhibit Hall and ASK US ANYTHING!
NSTA 2017 Los Angeles National Conference
1840 Wilson Blvd.
Arlington, VA 22201
Website: www.nsta.org/conferences

Stop by and find out about the exciting program for the NSTA 2017 Los Angeles National Conference—March 30–April 2, 2017.

NSTA Awards
1840 Wilson Blvd.
Arlington, VA 22201
Phone: 703-312-9217
E-mail: awards@nsta.org
Website: www.nsta.org/awards

Come find out how to apply and win a trip to the 2017 Los Angeles conference. NSTA’s award program features 20 awards from preK–college level, as well as informal science. You can’t win if you don’t apply!

NSTA Membership
1840 Wilson Blvd.
Arlington, VA 22201
Phone: 703-243-7100
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Website: www.nsta.org/membership

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Phone: 800-899-6337
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**Hands-On Training with the Ward’s Science Plus Us Team**

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**Thursday, March 31**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 9:30 a.m.</td>
<td>Artificial Selection, it’s unnatural!</td>
</tr>
<tr>
<td>10:00 – 11:30 a.m.</td>
<td>Forces, Integrations and Energy, Oh My</td>
</tr>
<tr>
<td>12:00 – 1:30 p.m.</td>
<td>Introduction to BioBuilder</td>
</tr>
<tr>
<td>2:00 – 3:30 p.m.</td>
<td>Lift Weight and Produce Electricity with the Power of Wind</td>
</tr>
<tr>
<td>4:00 – 5:30 p.m.</td>
<td>CTE: Real life Forensics Brought to the Classroom, Solving the Case</td>
</tr>
</tbody>
</table>

**Friday, April 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Title</th>
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</thead>
<tbody>
<tr>
<td>8:00 – 9:30 a.m.</td>
<td>Outbreaking Bad!!</td>
</tr>
<tr>
<td>10:00 – 11:30 a.m.</td>
<td>Apply the Science of Energy, Motion, and Friction</td>
</tr>
<tr>
<td>12:00 – 1:30 p.m.</td>
<td>Fracking the CASE</td>
</tr>
<tr>
<td>2:00 – 3:30 p.m.</td>
<td>Grant Writing: Designing for Dollars</td>
</tr>
<tr>
<td>4:00 – 5:30 p.m.</td>
<td>Chemistry of Wine</td>
</tr>
</tbody>
</table>

**Saturday, April 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 9:30 a.m.</td>
<td>Vampire Chronicles: Sink Your Teeth into Genetics and Blood Typing</td>
</tr>
<tr>
<td>10:00 – 11:30 a.m.</td>
<td>Grant Writing: Pipelines, Partnerships, and Finding Funding</td>
</tr>
<tr>
<td>12:00 – 1:30 p.m.</td>
<td>Let physics show how cars may really drive themselves in the future with the ERGOBOT!</td>
</tr>
<tr>
<td>2:00 – 3:30 p.m.</td>
<td>Elementary Science Activity Jamboree</td>
</tr>
<tr>
<td>4:00 – 5:30 p.m.</td>
<td>Physics of Music</td>
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**Stop by Booth #142 to see our latest products and enter to win science prizes!**
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*MCC stands for Music City Center*

#### 3D Molecular Designs (Booth #516)

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<tbody>
<tr>
<td>Thursday</td>
<td>4:00–5:30 PM</td>
<td>214, MCC</td>
<td>Of All the Nerve!</td>
</tr>
<tr>
<td>Friday</td>
<td>2:00–3:30 PM</td>
<td>214, MCC</td>
<td>The Many Jobs of Proteins: Enzymes in the Spotlight</td>
</tr>
<tr>
<td>Saturday</td>
<td>12 Noon–1:30 PM</td>
<td>214, MCC</td>
<td>Constructing and Crossing Cell Membranes</td>
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#### Accelerate Learning—STEMscopes (Booth #520)

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<th>Day</th>
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<th>Workshop Title</th>
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<tbody>
<tr>
<td>Thursday</td>
<td>8:00–9:30 AM</td>
<td>109, MCC</td>
<td>Assessment Writers Workshop</td>
</tr>
<tr>
<td>Thursday</td>
<td>10:00–11:30 AM</td>
<td>109, MCC</td>
<td>Successful Use of Argumentation in the STEM Classroom</td>
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<tr>
<td>Thursday</td>
<td>12 Noon–1:30 PM</td>
<td>109, MCC</td>
<td>Engineering Solutions in the STEM Classroom</td>
</tr>
<tr>
<td>Thursday</td>
<td>2:00–3:30 PM</td>
<td>109, MCC</td>
<td>The Secret to Project-Based Learning Success</td>
</tr>
<tr>
<td>Thursday</td>
<td>4:00–5:30 PM</td>
<td>109, MCC</td>
<td>The Failed EdTech Revolution</td>
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#### Activate Learning (Booth #1204)

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<tbody>
<tr>
<td>Thursday</td>
<td>10:00–11:30 AM</td>
<td>214, MCC</td>
<td>Integrating Literacy and Science—The Wow Factor</td>
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<tr>
<td>Thursday</td>
<td>12 Noon–1:30 PM</td>
<td>214, MCC</td>
<td>Discourse Tools for Equitable and Rigorous Talk</td>
</tr>
<tr>
<td>Friday</td>
<td>10:00–11:30 AM</td>
<td>214, MCC</td>
<td>Making Critical Thinking More Than Just a Cliché Using Three-Dimensional Learning</td>
</tr>
<tr>
<td>Saturday</td>
<td>8:00–9:30 AM</td>
<td>214, MCC</td>
<td>Discourse Tools for Equitable and Rigorous Talk</td>
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#### Advancement Courses (Booth #1351)

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<tr>
<td>Saturday</td>
<td>10:00–11:30 AM</td>
<td>207B, MCC</td>
<td>Using Fables to Scaffold Inquiry-Based STEM Instruction and the Engineering Design Process</td>
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#### AEOP eCYBERMISSION (Booth #1046)

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<td>10:00–11:30 AM</td>
<td>107B, MCC</td>
<td>Engineering Design in the Middle School Classroom</td>
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<tr>
<td>Friday</td>
<td>4:00–5:30 PM</td>
<td>107B, MCC</td>
<td>“Hard” Doesn’t Mean “Bad”</td>
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#### Albert Einstein Distinguished Educator Fellowship (Booth #1535)

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<tr>
<td>Saturday</td>
<td>8:00–9:30 AM</td>
<td>107B, MCC</td>
<td>Albert Einstein Distinguished Educator Fellowship Program: Exciting Opportunities for K–12 STEM Educators to Influence Federal Programs and Policy in Washington, D.C.</td>
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#### Amplify (Booth #308)

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<td>Thursday</td>
<td>8:00–9:30 AM</td>
<td>107B, MCC</td>
<td>Navigating the Shifts of the NGSS with Leaders from The Lawrence Hall of Science</td>
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<tr>
<td>Thursday</td>
<td>12 Noon–1:30 PM</td>
<td>107B, MCC</td>
<td>What Is Amplify Science? Learn About the Newest K–8 Curriculum from The Lawrence Hall of Science</td>
</tr>
<tr>
<td>Friday</td>
<td>8:00–9:30 AM</td>
<td>107B, MCC</td>
<td>Amplify Science for Grades K–5: Experience Three-Dimensional Teaching and Learning with the Newest Curriculum from The Lawrence Hall of Science</td>
</tr>
<tr>
<td>Friday</td>
<td>10:00–11:30 AM</td>
<td>107B, MCC</td>
<td>Amplify Science for Grades 6–8: Experience Three-Dimensional Teaching and Learning with the Newest Curriculum from The Lawrence Hall of Science</td>
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<tr>
<td>Thursday, Mar 31</td>
<td>10:00–11:30 AM</td>
<td>212, MCC</td>
<td>Understanding Muscle Concepts of Human Anatomy: Building It in Clay</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>212, MCC</td>
<td>Human Anatomy Lab: Building from the Inside Out</td>
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#### Animalearn (Booth #924)

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<tr>
<td>Friday, Apr 1</td>
<td>4:00–5:30 PM</td>
<td>212, MCC</td>
<td>Leap into the Future with Hands-On Science Teaching</td>
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#### AquaPhoenix Education (Booth #1153)

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<td>Saturday, Apr 2</td>
<td>8:00–9:30 AM</td>
<td>209C, MCC</td>
<td>Implementing Three-Dimensional Learning</td>
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#### Arbor Scientific (Booth #743)

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<tr>
<td>Thursday, Mar 31</td>
<td>2:00–3:30 PM</td>
<td>202C, MCC</td>
<td>Cool Tools for Force and Motion</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>202C, MCC</td>
<td>Cool Tools for Light and Color</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>2:00–3:30 PM</td>
<td>202C, MCC</td>
<td>Cool Tools for Sound and Waves</td>
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#### Backyard Brains, Inc. (Booth #156)

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<tbody>
<tr>
<td>Thursday, Mar 31</td>
<td>10:00–11:30 AM</td>
<td>202C, MCC</td>
<td>Bringing Real Neuroscience and Neural Engineering into Your Classroom</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>12 Noon–1:30 PM</td>
<td>202C, MCC</td>
<td>Bringing Real Neuroscience and Neural Engineering into Your Classroom</td>
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#### Battle Creek Area Mathematics and Science Center (Booth #1143)

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<th>Date</th>
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<tbody>
<tr>
<td>Saturday, Apr 2</td>
<td>8:00–9:30 AM</td>
<td>110B, MCC</td>
<td>Cereal City Science: Going Great Lengths Toward the NGSS</td>
</tr>
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#### Bedford, Freeman, & Worth Publishers (Booth #744)

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<th>Date</th>
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<tbody>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>214, MCC</td>
<td>Living By Chemistry: What Shape Is That Smell?</td>
</tr>
<tr>
<td>Saturday, Apr 2</td>
<td>8:00–9:30 AM</td>
<td>210, MCC</td>
<td>Living By Chemistry: Pass the Proton—Acids and Bases</td>
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#### Bio-Rad Laboratories, Inc. (Booth #152)

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<th>Time</th>
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<th>Workshops</th>
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<tbody>
<tr>
<td>Thursday, Mar 31</td>
<td>8:00–9:30 AM</td>
<td>208A, MCC</td>
<td>Contagion! Track the Progress of Dangerous Viruses That Are Spreading Throughout the Country</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>8:00–9:30 AM</td>
<td>208B, MCC</td>
<td>Investigate Photosynthesis and Cellular Respiration with Algae Beads</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>10:00–11:30 AM</td>
<td>208A, MCC</td>
<td>Improve Student Engagement Using Pop Culture in Your Life Science Class</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>10:00–11:30 AM</td>
<td>208B, MCC</td>
<td>Enzymes: Technology Inspired by Nature</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>2:00–3:30 PM</td>
<td>208B, MCC</td>
<td>ThiNQ™ About It: Bacterial Transformation, GMO Probiotics, and the Runs Make a Great Case Study for AP Biology</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>2:00–3:30 PM</td>
<td>208A, MCC</td>
<td>Fast Electrophoresis</td>
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<tr>
<td>Thursday, Mar 31</td>
<td>4:00–5:30 PM</td>
<td>208B, MCC</td>
<td>Communicating Science Through Lab Notebooking</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>4:00–5:30 PM</td>
<td>208A, MCC</td>
<td>Starting a Biotech Program: One Piece of Equipment at a Time</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>208A, MCC</td>
<td>How to Use Pop Culture in Your Life Science Class</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>208B, MCC</td>
<td>Preparing Tomorrow’s Scientists: Issues in Inquiry-Based Life Science Education</td>
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<tr>
<td>Workshops</td>
<td>Time</td>
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<tr>
<td>Bio-Rad Laboratories, Inc., continued</td>
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<tr>
<td>Project-Based Learning for High School: Sequencing a Plant Species</td>
<td>Friday, Apr 1 10:00–11:30 AM</td>
<td>208A, MCC</td>
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</tr>
<tr>
<td>Investigate Photosynthesis and Cellular Respiration with Algae Beads</td>
<td>Friday, Apr 1 10:00–11:30 AM</td>
<td>208B, MCC</td>
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<tr>
<td>Upgrade Your Chemotaxis Lab! (Focuses on AP Biology Big Ideas 1–4)</td>
<td>Friday, Apr 1 2:00–3:30 PM</td>
<td>208B, MCC</td>
<td></td>
</tr>
<tr>
<td>Identify Patient Zero of a Zombie Apocalypse!</td>
<td>Friday, Apr 1 2:00–3:30 PM</td>
<td>208A, MCC</td>
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<tr>
<td>Science, Style, and Fun! Genes in a Bottle™ Kit</td>
<td>Friday, Apr 1 4:00–5:30 PM</td>
<td>208A, MCC</td>
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<tr>
<td>The GMO Debate Rages On!</td>
<td>Friday, Apr 1 4:00–5:30 PM</td>
<td>208B, MCC</td>
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<tr>
<td>Get that Grant Money!</td>
<td>Saturday, Apr 2 8:00–9:30 AM</td>
<td>208A, MCC</td>
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<tr>
<td>NGSS in the High School Biology Classroom</td>
<td>Saturday, Apr 2 10:00–11:30 AM</td>
<td>208A, MCC</td>
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<tr>
<td>BIOZONE International Ltd. (Booth #840)</td>
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<tr>
<td>Engaging Students Effectively: The BIOZONE Solution for Grades 9–12</td>
<td>Thursday, Mar 31 10:00–11:30 AM</td>
<td>202B, MCC</td>
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<tr>
<td>Biology for NGSS: A New Approach for a New Program (Grades 9–12)</td>
<td>Friday, Apr 1 10:00–11:30 AM</td>
<td>202B, MCC</td>
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<tr>
<td>Earth and Space Sciences for NGSS: A New Program (Grades 9–12)</td>
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<td>Bone Clones Inc. (Booth #1021)</td>
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<td>Hominid Evolution Activity</td>
<td>Thursday, Mar 31 8:00–9:30 AM</td>
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<td>Bright Schools Competition (Booth #1045)</td>
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<td>Engage Grades 6–8 Students in a Free STEM Competition Associated with Light and Sleep</td>
<td>Friday, Apr 1 4:00–5:30 PM</td>
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<td>Carolina Biological Supply Co. (Booth #118)</td>
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<tr>
<td>Autopsy: Forensic Dissection Featuring Carolina’s Perfect Solution® Pigs</td>
<td>Thursday, Mar 31 8:00–9:30 AM</td>
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<tr>
<td>Keep Calm and Chemistry On: Successful Lab Activities for the New Chemistry Teacher</td>
<td>Thursday, Mar 31 8:00–9:30 AM</td>
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<td>Bring Visual Science into K–5 Classrooms—It’s a Game Changer!</td>
<td>Thursday, Mar 31 8:00–9:30 AM</td>
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<td>Introduction to Wisconsin Fast Plants®</td>
<td>Thursday, Mar 31 10:00–11:30 AM</td>
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<tr>
<td>Modeling Beyond a Flashlight and Beach Ball</td>
<td>Thursday, Mar 31 10:00–11:30 AM</td>
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<tr>
<td>They Come in Pairs: Using Socks to Identify and Address Student Misconceptions About Chromosomes</td>
<td>Thursday, Mar 31 10:00–11:30 AM</td>
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<td>Genetics Brought to Life: Gene-ius Model Organisms</td>
<td>Thursday, Mar 31 12 Noon–1:30 PM</td>
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<tr>
<td>EQuIP Your District for NGSS</td>
<td>Thursday, Mar 31 12 Noon–1:30 PM</td>
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<tr>
<td>Strawberry Milkshakes: DNA and Lactose Intolerance</td>
<td>Thursday, Mar 31 12 Noon–1:30 PM</td>
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<td>Thursday, Mar 31 2:00–3:30 PM</td>
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<tr>
<td>Pushing and Pulling Your Teachers to NGSS</td>
<td>Thursday, Mar 31 2:00–3:30 PM</td>
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<tr>
<td>Engineer Excitement in Your Classroom with a Carolina STEM Challenge®</td>
<td>Thursday, Mar 31 2:00–3:30 PM</td>
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<tr>
<td>Shark Dissection: A Jawsome Experience!</td>
<td>Thursday, Mar 31 4:00–5:30 PM</td>
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<tr>
<td>Hands-On Activities to Model Habitat Preference and Population Sampling</td>
<td>Thursday, Mar 31 4:00–5:30 PM</td>
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<tr>
<td>Argumentation—Claims, Evidence, and Reasoning Made Easy</td>
<td>Thursday, Mar 31 4:00–5:30 PM</td>
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<tr>
<td>Pushing and Pulling Your Teachers to NGSS</td>
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<td>Partners in Crime: Forensic Fingerprinting with the Professionals</td>
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<td>204, MCC</td>
<td>Comparative Vertebrate Anatomy with Carolina’s Perfect Solution® Specimens</td>
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<td>Friday, Apr 1</td>
<td>9:00–10:30 AM</td>
<td>Grand Blrm. C2, MCC</td>
<td>Beyond The Flipped Classroom: A Pedagogical Pilgrimage</td>
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<tr>
<td>Friday, Apr 1</td>
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<td>Hands-On Activities to Model Habitat Preference and Population Sampling</td>
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<td>Friday, Apr 1</td>
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<td>Engineer Hands-On Chemistry Fun with a Carolina STEM Challenge®!</td>
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<td>Early Elementary Engineering with Smithsonian: What’s New with STC3?</td>
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<td>204, MCC</td>
<td>Introduction to Wisconsin Fast Plants®</td>
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<tr>
<td>Friday, Apr 1</td>
<td>12 Noon–1:30 PM</td>
<td>205B, MCC</td>
<td>Top 10 for 2016: Genetics and Biotechnology Discoveries for Your Classroom</td>
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<td>2:00–3:30 PM</td>
<td>205B, MCC</td>
<td>Keep Calm and Chemistry On: Successful Lab Activities for the New Chemistry Teacher</td>
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<td>205A, MCC</td>
<td>EQuIP Your District for NGSS</td>
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<td>204, MCC</td>
<td>Hands-On Science with Classroom Critters</td>
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<td>205A, MCC</td>
<td>Bring Visual Science into K—5 Classrooms—It’s a Game Changer!</td>
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<td>Carolina’s Young Scientist™ Dissections with Carolina’s Perfect Solution® Specimen</td>
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### Celestron (Booth #1218)

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<td>BUGDORK! Using Insects to Engage Students and Inspire Learning</td>
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<td>110A, MCC</td>
<td>Structure and (Fun)ction: Arthropod Body Parts and Evolution</td>
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<td>108, MCC</td>
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### Chibitronics (Booth #1344)

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<td>Circuits as Crayons: Crafting Interactive Circuits with Circuit Stickers</td>
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### Cogent Education (Booth #922)

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### CPO Science/School Specialty Science (Booth #420)

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<td>CPO’s Chemistry Models Link™ Learning Module: Fun with Atom Building Games</td>
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<td>Building an Electric Motor the STEM Way with CPO’s Link™ Learning Module</td>
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<td>CPO’s Link™ Wind Turbine Learning Module: A STEM Approach to Engineering and Design</td>
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<td>Thursday, Mar 31</td>
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<td>201A, MCC</td>
<td>Genetics: Crazy Traits and CPO’s New Link™ Learning Module</td>
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<td>Friday, Apr 1</td>
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<td>Thursday, Mar 31</td>
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<td>Thursday, Mar 31</td>
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<td>401 A/B, MCC</td>
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<tr>
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<td>212, MCC</td>
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## Educational Innovations, Inc. (Booths #1026/ #1126)

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<td>202A, MCC</td>
<td>Fantastical Chemistry Demos for All Classrooms</td>
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<tr>
<td>Friday, Apr 1</td>
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<td>202A, MCC</td>
<td>Cool! Can We Do That Again?!?</td>
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<td>Elementary Teacher Survival Kit</td>
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<td>Magnify Your Mind!…with The Private Eye®</td>
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<td>202A, MCC</td>
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## Edvotek Inc. (Booth #606)

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<td>Exploring the Genetics of Taste: SNP Analysis of the PTC Gene Using PCR</td>
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<td>Use Robots to Engage Elementary/Middle School Students with Hands-On Project-Based Learning</td>
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<td>Build a Robot Using an Android App: FIRST® Tech Challenge Extends STEM Learning Beyond the Middle School and High School Classroom</td>
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<td>The STEM Design Challenge</td>
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## Flinn Scientific, Inc. (Booth #333)

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<td>Solving the Mystery of STEM Using Forensic Science</td>
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<td>Proteins Are the Cash of Biotech</td>
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## HHMI BioInteractive (Booth #822)

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<td>BioInteractive’s Free Resources to Teach Math, Statistics, and Data Analysis</td>
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NSTA Nashville National Conference on Science Education 71
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<td>Awesome, Engaging, and Motivating STEM Activities</td>
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<tr>
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## LaMotte Co. (Booth #1015)

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<tr>
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<td>107A, MCC</td>
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## LEGO Education (Booths #341 / #358)

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<tr>
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<tr>
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<td>Make Science Come to Life</td>
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<td>Make Science Come to Life</td>
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<td>Make Science Come to Life</td>
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<td>Make Science Come to Life</td>
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## McDowell Farm School (Booth #948)

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## McGraw-Hill Education (Booth #1345)

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## Measured Progress (Booth #304)

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### The MiniOne™ Electrophoresis (Booth #816)

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### MSOE Center for BioMolecular Modeling (Booth #518)

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### Nano-Link: Center for Nanotechnology Education (Booth #1354)

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### National Agriculture in the Classroom (Booth #1113)

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### National Geographic Learning (Booth #750)

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<td>Climate Changes Series I: Polar Popsicles—Life in the Ice</td>
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<td>201A</td>
<td>Climate Change Series II: Bringing Climate Change Closer to Home: U.S. Forest Service Climate Change Education Resources</td>
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### Northrop Grumman Foundation (Booth #442)

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### Nutrients for Life Foundation (Booth #1226)

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**Online M.A. in Science Education**

When did you fall in love with science? The online M.A. in Science Education at Western Michigan University is designed for any teacher with a passion for science. Program highlights:

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<td>207C, MCC</td>
<td>Human Physiology with Vernier</td>
</tr>
<tr>
<td>Saturday, Apr 2</td>
<td>2:00–3:30 PM</td>
<td>207D, MCC</td>
<td>Introductory Engineering Design Projects with Vernier</td>
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## Ward’s Science (Booth #142)

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<tbody>
<tr>
<td>Thursday, Mar 31</td>
<td>8:00–9:30 AM</td>
<td>207A, MCC</td>
<td>Artificial Selection, It’s Unnatural!</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>10:00–11:30 AM</td>
<td>207A, MCC</td>
<td>Forces, Interactions, and Energy, Oh My!</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>12 Noon–1:30 PM</td>
<td>207A, MCC</td>
<td>Introduction to BioBuilder</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>2:00–3:30 PM</td>
<td>207A, MCC</td>
<td>Lift Weight and Produce Electricity with the Power of Wind</td>
</tr>
<tr>
<td>Thursday, Mar 31</td>
<td>4:00–5:30 PM</td>
<td>207A, MCC</td>
<td>CTE: Real-Life Forensics Brought to the Classroom, Solving the Case</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>8:00–9:30 AM</td>
<td>207A, MCC</td>
<td>Outbreaking Bad!</td>
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<tr>
<td>Friday, Apr 1</td>
<td>10:00–11:30 AM</td>
<td>207A, MCC</td>
<td>Apply the Science of Energy, Motion, and Friction</td>
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<tr>
<td>Friday, Apr 1</td>
<td>12 Noon–1:30 PM</td>
<td>207A, MCC</td>
<td>Fracking the CASE</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>2:00–3:30 PM</td>
<td>207A, MCC</td>
<td>Grant Writing: Designing for Dollars</td>
</tr>
<tr>
<td>Friday, Apr 1</td>
<td>4:00–5:30 PM</td>
<td>207A, MCC</td>
<td>Chemistry of Wine</td>
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<tr>
<td>Saturday, Apr 2</td>
<td>8:00–9:30 AM</td>
<td>207A, MCC</td>
<td>Vampire Chronicles: Sink Your Teeth into Genetics and Blood Typing</td>
</tr>
<tr>
<td>Saturday, Apr 2</td>
<td>10:00–11:30 AM</td>
<td>207A, MCC</td>
<td>Grant Writing: Pipelines, Partnerships, and Finding Funding</td>
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<tr>
<td>Saturday, Apr 2</td>
<td>12 Noon–1:30 PM</td>
<td>207A, MCC</td>
<td>Let Motion Show How Cars May Really Drive Themselves in the Future with the ERGOBOT!</td>
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<tr>
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<td>2:00–3:30 PM</td>
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<td>Elementary Science Activity Jamboree</td>
</tr>
<tr>
<td>Saturday, Apr 2</td>
<td>4:00–5:30 PM</td>
<td>207A, MCC</td>
<td>Physics of Music</td>
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</tbody>
</table>

## Wavefunction, Inc. (Booth #1443)

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</thead>
<tbody>
<tr>
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<td>212, MCC</td>
<td>Teaching Chemistry Effectively with Visualization and Simulation at the Molecular Level</td>
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<tbody>
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<td>Thursday, Mar 31</td>
<td>8:00–9:30 AM</td>
<td>209B, MCC</td>
<td>Project-Based STEM/Engineering</td>
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<tr>
<td>Friday, Apr 1</td>
<td>2:00–3:30 PM</td>
<td>209B, MCC</td>
<td>Project-Based STEM/Engineering</td>
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