



Connecticut Science Educators Annual Conference

November 19, 2016

Hamden Middle School

2623 Dixwell Avenue, Hamden, Connecticut

7:00 – 8:00	Registration (Main Hall)	
7:00 – 8:00	Continental Breakfast (Cafeteria)	
8:00 – 9:00	Breakout A.....	Begins on page 2
9:15 – 10:15	Plenary, Annual Meeting & Awards (Auditorium).....	See page 5
10:30 – 3:00	Exhibit Hall (Gymnasium)	See page 20
10:30 – 11:30	Breakout B1.....	Begins on page 6
10:45 – 11:45	Breakout B2.....	Begins on page 8
11:00 – 1:00	Lunch (Cafeteria)	
12:15 – 1:15	Breakout C.....	Begins on page 10
1:30 – 2:30	Breakout D	Begins on page 14
2:45	Raffle Prize Drawings (Gymnasium)	



CSTA Connecticut
Science Teachers
Association

www.csta-us.org



www.cssaonline.org

NGSS Special Strand

Breakout-Room	
A-123	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects Nick Balisciano & TJ McKenna, Connecticut Science Center
Plenary-Auditorium	Looking at the Three Dimensions from All Angles Ted Willard, National Science Teachers Association
B1-133	Next Generation Science Implementation & Assessment Jeff Greig & Ron Michaels, Connecticut State Department of Education
B2-133	NSTA's Resources to Support NGSS Ted Willard, National Science Teachers Association
C-133	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects Nick Balisciano & TJ McKenna, Connecticut Science Center
C-133	Next Generation Science Implementation & Assessment Jeff Greig & Ron Michaels, Connecticut State Department of Education
D-123	Leading NGSS Implementation in Schools: A Facilitated Discussion Louise McMinn, CSTA President Chris Ozmun, CSSA President

8:00 – 9:00 Breakout A (Cross-indices and facility maps are available near the end of this program.)

Breakout -Room	Title Strand Grade Level	<i>Presenter(s)</i> Description
A-115	Building an Electric Motor the STEM Way with CPO's New Link Learning Module Engineering Middle	<i>Erik Benton, Frey Scientific/CPO Science & Jon DiVito,</i> Description: Join CPO where we will design and build a unique motor to generate the fastest RPMs, then refine it to spin at a specific rate; a true STEM learning activity.
A-116	Chemistry Connections: Inspiring Students with Innovation NGSS 3D Learning High	<i>Teri Natoli, Hyde School of Health Sciences & Sports Medicine, New Haven</i> Description: Bring chemistry concepts to life through free green chemistry curriculum modules developed through a partnership with Steelcase, Inc. and Beyond Benign, a non-profit dedicated to green chemistry education. We are highlighting industrial examples of sustainable design along with innovative products and processes is one way to engage students and meet NGSS. During the workshop, there will be a brief presentation followed by hands-on lab activities featuring the presented curriculum.
A-123	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects NGSS 3D Learning Elementary-Middle	<i>Nick Balisciano, Connecticut Science Center & TJ McKenna, Connecticut Science Center</i> Description: Get all of your lessons and units off to a strong start with inquiry starters. Using multidisciplinary principles, you'll try starters in numerous subjects and discuss the five essential features these activities all have in common. We'll place special focus on inquiry starters in science and examine criteria for evaluating the phenomena that drive them. This workshop will be especially valuable for educators looking for a unified pedagogical approach and a better sense of how to launch NGSS-aligned lessons and units.
A-125	Exploring Waves & Their Applications NGSS 3D Learning Elementary-Middle	<i>Marilyn Decker, Carolina Biological</i> Description: Knowing about waves begins early in the NGSS with the study of vibrations and sound. As students progress through the grades they learn about models of waves that explain their behavior and how waves can transmit information and energy. No subject is more important to our daily lives than our ability to communicate and investigate using waves so it is an important topic for our students to understand.

<p>A-126</p>	<p>Digital Science Notebooks</p> <p>Instructional Technology in Science</p> <p>All</p>	<p><i>Jeffrey Giliberto, LEARN</i></p> <p>Description: Join us as we transform the science notebook into a tool that will redefine your classroom. Digital notebooks allow students to add text, images, videos, drawings, links and animations to increase learning. By digitizing, students and teachers will both have access to the notebook on any web connected device such as a smartphone, tablet or computer at all times. Laptop or tablets are required for full participation in this workshop.</p>
<p>A-135</p>	<p>Meteorology in Action: Creating Wind Energy in Your Classroom</p> <p>Earth/Space Science</p> <p>Middle</p>	<p><i>Kathleen Brooks, CREC</i></p> <p>Description: When teaching meteorology it is sometimes difficult to find activities for the students to do in addition to working with weather maps. In this eesmarts lesson, participants use easily attainable materials and observe the movement of air when a heat differential is created. Participants will also learn about eesmarts, which offers free professional development, curriculum, and materials.</p>
<p>A-136</p>	<p>What is a Scientific Model?</p> <p>NGSS 3D Learning</p> <p>All</p>	<p><i>J.T. Schemm, Joel Barlow High School, Regional School District 9</i></p> <p>Description: Kids learn science, by doing science! Teachers will be working in “student mode”, constructing your own scientific models! You and other teachers will take on the role of students to develop models and sense making presentations from your choice of phenomenon in Bio, Chem, or Physics. Designed for any level science educator who is interested in building models and putting on their student hat!</p>
<p>A-143</p>	<p>TEVAL & Teaching 3-D Science: Working with Non-Science Evaluators</p> <p>NGSS 3D Learning</p> <p>All</p>	<p><i>Carrie DePetris, Lincoln Middle School, Meriden & Heather Verdi, Lincoln Middle School, Meriden</i></p> <p>Description: Are you working hard toward teaching 3-dimensionally in your classroom? Join us, an evaluator and a science teacher, for a discussion about working together to understand how the CCT Rubric can align with teaching NGSS! Come get ideas for observation lessons and share what you've tried!</p>
<p>A-144</p>	<p>PAEMST: How to Recognize Outstanding Grades 7-12 Science Teachers</p> <p>Leadership in Science</p> <p>All</p>	<p><i>Harry Rosvally, Danbury Public Schools</i></p> <p>Description: Hear about how to recognize an excellent grade 7-12 science teacher for the 2016-17 school year and what is involved in the application process for the Presidential Award in Mathematics and Science Teaching. Join a panel discussion that will include former PAEMST winners as well as State Coordinators to discuss the program and application process.</p>
<p>A-145</p>	<p>3-D Learning: Let's Explore Crosscutting Concepts in Action</p> <p>General Science</p> <p>Elementary (Upper)</p>	<p><i>Erica Beck Spencer, Lawrence Hall of Science, University of California, Berkeley</i></p> <p>Description: Arguably, the trickiest aspect of the Next Generation Science Standards is the crosscutting concepts. Come get a better understanding of this dimension of NGSS and experience elementary hands-on FOSS activities that dig into these concepts. Come learn how emphasizing crosscutting concepts can help students better understand the content you're studying while forming long-term memories.</p>

<p>A-146</p>	<p>Measuring the Environment</p> <p>Literacy in Science</p> <p>All</p>	<p><i>Susan Quincy, Connecticut Department of Energy & Environmental Protection</i></p> <p>Description: How can you provide meaningful lessons to help students see the application of science and the analysis of data? Come and see how you can apply environmental data collection to classrooms that help students understand the use of science and applications of research. Integration techniques will be demonstrated that take general lessons from national resources of, Project WILD, WET and Food, Land and People to make them locally relevant and interactive.</p>
<p>A-220</p>	<p>Safety Risks Assessments: The Root of Safer STEM Demos & Labs</p> <p>Engineering</p> <p>All</p>	<p><i>Dr. Ken Roy, Glastonbury Public Schools</i></p> <p>Description: There are new legal safety standards and better professional practices involving mandatory risks assessments teacher MUST do. Learn what they are and teacher liability if you don't. If things go wrong...you are it legally! Learn the process and protect both you and your students for a safer science/STEM demos or lab activities.</p>
<p>A-221</p>	<p>Teaching STEM Skills through Blended Online Learning</p> <p>Instructional Technology in Science</p> <p>Middle</p>	<p><i>Luke Martin, EverFi</i></p> <p>Description: Join us to learn how to integrate EverFi's STEM digital learning programs into your classroom! In this workshop we will explore programs for grades 4th-11th. Join us to explore Hockey Scholar, (4-8th) which uses the game of hockey to teach foundational math and science concepts via the scientific method. For grades 8th-11 we will explore Radius - STEM Readiness, which features 16 modules, covering topics ranging from the real world application of algebra to basic computer science and STEM career exploration.</p>
<p>A-222</p>	<p>Activities for the Anthropocene</p> <p>Environmental</p> <p>High</p>	<p><i>Karolyn Baumgartner, Newtown High School</i></p> <p>Description: Combine history and environmental science in this hands-on session exploring how humans have shaped the earth and atmosphere since the Industrial Revolution. Discover classroom activities and interactive online resources to help students explore different aspects of the Anthropocene including human population growth, climate change, changes in biodiversity and land use.</p>
<p>A-223</p>	<p>NGSS Lessons from the NASA Endeavor Community</p> <p>NGSS 3D Learning</p> <p>Middle-High</p>	<p><i>Crystal Caouette, CREC Magnet Schools</i></p> <p>Description: Discover how the NASA Endeavor program incorporates data and technology as authentic tools for learning. NASA design challenges, lessons, data, and resources will be shared to cultivate student's critical thinking and problem solving skills! Join us as we use NGSS 3-dimensional learning and the 5E lesson planning process to integrate STEM and engineering design into our resources to create meaningful lessons!</p>

A-232 	Introducing Argumentation: Sudoku & Mystery Cube NGSS 3D Learning High	<i>Cindy Kern, Quinnipiac University</i> Description: Teenagers rarely need an incentive to argue, however they do need help understanding and achieving argumentation as a scientific practice. As Connecticut moves forward with the implementation of the NGSS, we have to better understand how to engage our students in argumentation. Come join us to take a look at how to scaffold argumentation in your classroom.
A-233 	Murder at Old Fields: the “Fourth Dimension of Learning” General Science Middle-High	<i>John Stevens, Bullfrog Communications</i> Description: Participants will learn how teachers can stay at the heart of the learning experience for their students, but in a radical new way that incorporates technology, history, literacy and, most importantly, science in a mind-blowing cross-curricular learning experience, that supports and extends science learning standards: the forensic science learning activity: Murder at Old Fields.

9:15 – 10:15 Plenary, Annual Meeting & Awards (Auditorium)

“Looking at the Three Dimensions from All Angles”



Ted Willard

Director of NGSS@NSTA, National Science Teachers Association

Mr. Willard supports implementation of the NGSS by creating resources such as web seminars, conference sessions, workshops, books, and journal articles. In addition, he oversees the content of the NGSS@NSTA Hub, a website that offers dynamic browsing and searching of the NGSS, tools to support curriculum planning and professional learning, and classroom resources focused on the standards. Previously, Ted spent 12 years at AAAS Project 2061, where he was responsible for the development of the Atlas of Science Literacy, Volume 2, and involved in many of Project 2061's efforts toward standards-based education reform – including teacher professional development, curriculum resources development, assessment development, and science education research. Ted also spent five years editing science textbooks for commercial publishers and is a former high school physics teacher.

10:30 – 11:30 Breakout B1

Breakout -Room	Title Strand Grade Level	Presenter(s) Description
B1-133	Next Generation Science Implementation & Assessment NGSS Strand All	<i>Jeff Greig, Connecticut Department of Education & Ronald Michaels, Connecticut State Department of Education</i> Description: Get an update from the State Department of Education on implementation plans and assessment development for the Next Generation Science Standards. Efforts including stakeholder engagement, professional development opportunities, and curriculum work through the collaboration of the State Department of Education, Connecticut Science Center and state educators will be highlighted. Early progress on the creation of a next generation science assessment system will also be presented.
B1-135	Lunar NASA Resources Earth/Space Science Middle	<i>Amy Capobianco, DePaolo Middle School, Southington</i> Description: Are you a grade 6-9 science teacher? Do you teach your students about the Moon? Would you like to learn exciting, interactive ways to bring lunar science and exploration into your classroom? This workshop focused on lunar science, exploration, and how our understanding of the Moon is growing and changing with new data from current and recent lunar missions. Connects to NGSS science standards.
B1-136	Jumpstart Your NGSS Classroom with Science Olympiad Engineering Tasks Engineering Middle	<i>Cindy Wilbur, Farmington Public Schools & Lucy Walter, Regional School District 18</i> Description: Learn how tried and true Science Olympiad engineering challenges can be adapted for the classroom. Seamlessly integrate the NGSS practice of engineering with science content. Ramp up the engagement level of your core curriculum and extend advanced student's abilities through a structured competition.
B1-143	Invention Dimension: Addressing NGSS Though the Invention Process NGSS 3D Learning Elementary-Middle	<i>Jake Mendelsohn, Connecticut Invention Convention</i> Description: The Connecticut Invention Convention and CRECs Institute of Teaching and Learning are working collaboratively to improve science engagement through instructional innovation and practice to support implementing the Next Generation Science Standards. Your students will be able to acquire and apply scientific knowledge to unique situations. They will also think and reason scientifically. Learn how you can bring this successful methodology into YOUR classroom.
B1-144	Enhance Wildlife Habitat on School Grounds: 1800 Opportunities Environmental All	<i>Peter Picone, Connecticut Department of Energy & Environmental Protection</i> Description: Does your science curriculum include the value of native plants and the inextricable link between wildlife and plants? Do students know that they can make a difference for wildlife by improving habitat, one plant at a time? Join me to discover how planting diverse species on your landscaping can increase wildlife present on your school grounds.

<p>B1-145</p> <p>Life/Biology</p> <p>Middle-High</p>	<p>Using HHMI BioInteractive to Bring Math into the Biology Lesson</p>	<p><i>Valerie May, The Woodstock Academy & Howard Hughes Medical Institute</i></p> <p>Description: Looking for engaging and authentic ways to increase quantitative analysis (yes - I mean MATH) in your high school and middle school biology lessons. We will look at activities embedding the concepts of ecology (Great Elephant Census) and natural selection (Galapagos Finches) that expose students to computational thinking. Basic statistical analysis will also be covered, so have no fear.</p>
<p>B1-146</p> <p>General Science</p> <p>All</p>	<p>Implementing ESRI GIS Geoinquires in Science Classrooms</p>	<p><i>Margaret Peterson, Retired Teacher</i></p> <p>Description: Do you know teachers have access to Geography Information Systems (GIS) Geoinquires free? Many of the Geoinquires can support NGSS 3-D standards and this workshop will provide the opportunity to explore the Geoinquires, which include topics such as high school environmental science, middle school earth science and 4th grade integrated science. Bring a laptop or other device for a hands-on experience.</p>
<p>B1-221</p> <p>NGSS 3D Learning</p> <p>All</p>	<p>NGSS the Easy Way!</p>	<p><i>Bryan Holmes, Academy of Aerospace & Engineering at Wallace Middle School, Newington</i></p> <p>Description: Wondering how to incorporate Next Generation Science Standards (NGSS) into your curriculum? Are you stressing out on how to do "engineering design" in a chemistry or biology lesson? There is an easy way! Come explore how to use NASA Engineering Design Process to conduct real and virtual design challenges that will fit perfectly into any curriculum and make your students love science!</p>
<p>B1-222</p> <p>NGSS 3D Learning</p> <p>All</p>	<p>The Power of the Crosscutting Concepts</p>	<p><i>Jaime Rechenberg, CREC</i></p> <p>Description: Come delve into the Crosscutting Concepts and realize their potential to deepen learning and student discourse. Together we will look at both the Framework's description of each Crosscutting concept and the NGSS's Crosscutting Concepts progression matrix so that we can apply them to a science topic.</p>
<p>B1-223</p> <p>NGSS 3D Learning</p> <p>All</p>	<p>Learn Our Process for Writing NGSS Units for K-12 Science</p>	<p><i>Crystal Caouette, CREC Magnet Schools</i></p> <p>Description: CREC Magnet Schools embarked upon NGSS unit writing in grades 3, 6, 7, and 8, along with Physical Science and Biology in the summer of 2016. Learn how we used phenomena to develop a discussion board to support 5E learning sequence and the assessments that gauge mastery of the performance expectations. Our unit writers and pilot units will be available at this workshop.</p>

Breakout -Room	Title Strand Grade Level	Presenter(s) Description
B2-113	NSTA's Resources to Support NGSS NGSS Strand All	<i>Ted Willard, National Science Teachers Association</i> Description: This session will provide a tour about the wealth of resources NSTA has to support implementation of the new New Generation Science Standards. Whether you are trying to understand the basics of three dimensional learning, planning a curriculum, or looking for some lessons, NSTA has resources for you!
B2-115	CPO's Wind Turbine Link Learning Module: A STEM Approach to Engineering General Science Middle	<i>Erik Benton, Frey Scientific/CPO Science & Jon DiVito,</i> Description: CPO's new Link Wind Turbine learning module lets students use hands-on STEM activities to build, test, and revise their own designs of a fully functional Wind Turbine.
B2-116	Welcome to the "Dark Side" of the Universe Earth/Space Science High	<i>Daryl Taylor, Retired Teacher</i> Description: "Dark Matter". "Dark Energy." Two terms that sends shivers down an astronomer's spine, let alone us common folk. 96% of the Universe is actually "missing!" Through a fast-paced, sometimes humorous, historical view of our understanding of the "Universe", gather basic classroom-ready lessons and activities usable tomorrow to help students understand these cutting-edge topics. NASA freebies for all.
B2-125	I'm All About the "E"! Discovering Elementary Engineering in STEM Engineering Elementary	<i>Stephanie White, Quinnipiac Real World Magnet Math STEM School, New Haven & Eric Rank, Celentano Biotech, Health & Medical Magnet School, New Haven</i> Description: Are you afraid of the "E" in STEM? You don't need to be a professional engineer to discover how it will transform your K-6 classroom. Engage in hands-on activities that follow the 5E (Engage, Explore, Explain, Elaborate & Evaluate) model and design process to engage elementary students in engineering/
B2-126	Flipping the Chemistry Classroom Chemistry High	<i>Elizabeth Hagymasi, Canton Public Schools</i> Description: Not all students learn at the same pace, and some need more examples than others. In this workshop I will be sharing some of the tools that I have used to flip my classroom. I now get to help my students DO more in the classroom with their new learning. I also have been able to prepare students for labs better utilizing a few flipping tools! Let me show you the tools to flip your classes too!

B2-232	On the Shoulders of Giants & in the Footsteps of Dinosaurs: Bringing the Museum into Your Classroom NGSS 3D Learning All	<i>Corinne Flax, Bruce Museum & Kathleen Holko, Bruce Museum</i> Description: Whether you learn best through hands on activities, lively debate, thoughtful research or a combination of all of the above, there is something for everyone in this dynamic workshop. Educators from the Bruce Museum will help you give your practice a jump start by illustrating how students and adults alike learn and grow through the connections between museum exhibitions, life science, and literacy standards. Attendees will get the chance to explore life science through objects, develop a well thought out opinion and defend it, and create their own piece of art to take home, all while learning about the forces that shaped the landscape of Connecticut.
B2-233	Connecting Phenomena, NGSS & 3D Learning with SEPUP Lessons NGSS 3D Learning Middle	<i>Stephanie Brunnett, Lab-Aids & Beth Richter, Hamden Hall Country Day School</i> Description: CPO's new Link Wind Turbine learning module lets students use hands-on STEM activities to build, test, and revise their own designs of a fully functional Wind Turbine.

12:15 – 1:15 Breakout C

Breakout -Room	Title Strand Grade Level	Presenter(s) Description
C-113	Explore & Build Robots with FIRST Inspires & LEGO Education NGSS 3D Learning All	<i>Vinnie Rodino, FIRST Inspires & Christina Specht, LEGO Education</i> Description: Join us for a hands-on session to explore FIRST LEGO League Jr. (K-4) and the LEGO WeDo 2.0 which combines core science concepts and engineering with robotics to bring your science classroom and FIRST LEGO League Jr. Challenge to life. During the session, participants will build a WeDo 2.0 robot, explore programming and look at the documentation tool set. Session limited to 20 participants. * This session runs from 12:15-2:30pm
C-115	Genetics & Heredity: Crazy Traits & CPO's new Link Learning Module Life/Biology Middle	<i>Erik Benton, Frey Scientific/CPO Science & Jon DiVito,</i> Description: Concepts like traits, alleles, phenotypes, genotypes, and heredity will come alive as you create crazy creatures with a unique kit and study probability, adaptation, dominance, and recession.
C-116	Newton's Laws: Not Just for Physics Anymore! General Science All	<i>Daryl Taylor, Retired Teacher</i> Description: Newton's 3 Laws of Motion are always pigeonholed into physics. However, they govern just about every science topic you can think of! Through a fast-paced activity-based presentation, attendees will actually touch, do, feel, and otherwise experience 20+ simple demonstrations of everyday life that pertain to these Laws using nothing more than common items. NASA freebies to all.
C-123	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects NGSS 3D Learning Elementary-Middle	<i>Nick Balisciano, Connecticut Science Center & TJ McKenna, Connecticut Science Center</i> Description: Get all of your lessons and units off to a strong start with inquiry starters. Using multidisciplinary principles, you'll try starters in numerous subjects and discuss the five essential features these activities all have in common. We'll place special focus on inquiry starters in science and examine criteria for evaluating the phenomena that drive them. This workshop will be especially valuable for educators looking for a unified pedagogical approach and a better sense of how to launch NGSS-aligned lessons and units.
C-125	NGSS & Common Core Wrapped in a Green Bow Environmental All	<i>Laurel Kohl, Institute for Sustainable Energy, Eastern Connecticut State University & Leticia Denoya, Institute for Sustainable Energy, Eastern Connecticut State University</i> Description: Explore some great plant-based environmental education lessons that include NGSS, math, LA, Social Studies and more, using your own school grounds. Fun and learning for PK-12 from CT Green LEAF Schools.

<p>C-126</p>	<p>Pairing NGSS Science & Engineering Practices with Core Ideas</p> <p>Literacy in Science</p> <p>Middle</p>	<p><i>Kathi Brown, Delta Education</i></p> <p>Description: Experience how the NGSS Science & Engineering Practices bundle with middle level subject matter. Engage in meaningful argumentation and construct explanations regarding Middle Level core ideas (e.g. particles, density, characteristics of life, formation of the solar system). Participants will engage in design, communication, explanation and argumentation. Handouts include materials, strategies specific for middle level scientific literacy for the first 25 participants</p>
<p>C-133</p>	<p>Next Generation Science Implementation & Assessment</p> <p>NGSS Strand</p> <p>All</p>	<p><i>Jeff Greig, Connecticut Department of Education & Ronald Michaels, Connecticut State Department of Education</i></p> <p>Description: Get an update on implementation plans and assessment development for the Next Generation Science Standards. Efforts including stakeholder engagement, professional development opportunities, and curriculum work through the collaboration of the State Department of Education, Connecticut Science Center and state educators will be highlighted. Early progress on the creation of a next generation science assessment system will also be presented.</p>
<p>C-135</p>	<p>Make Your Students NASA Scientists with GAVRT</p> <p>Earth/Space Science</p> <p>All</p>	<p><i>Patricia DeCoster, Ansonia High School</i></p> <p>Description: Learn about how GAVRT can allow your students to gather real data for real NASA missions. We will discuss how the training works, example radio astronomy lessons and see the telescopes themselves. Lessons and missions can be adapted for all students in grades K-12.</p>
<p>C-136</p>	<p>Argument for All: Engaging English Learners in Scientific Argumentation</p> <p>Special Education / Science for All</p> <p>All</p>	<p><i>Kevin Fleming, ACES & Maggie Stevens Lopez, ACES</i></p> <p>Description: Participants in this interactive session will explore the correspondences between the NGSS and the CT English Language Proficiency (CELP) Standards in order to understand the importance of language in the science classroom for English Learners. Participants will learn featured strategies that build language skills through argumentation and provide accessibility for English Learners.</p>
<p>C-144</p>	<p>Zoology for Kids with Animal Embassy</p> <p>Environmental</p> <p>Elementary (Lower)</p>	<p><i>Chris Evers, Animal Embassy</i></p> <p>Description: Discover how live Animal Ambassadors engage students and bring science curriculum to life with a diversity of animals from around the globe. Animal Embassy will uncover some of the mysteries of nature as we explore habitats, adaptations, classifications, biodiversity and more. We'll interact with animals such as a Solomon Islands Monkey-Tailed Skink, a South American Chinchilla, and a Spectacled Owl.</p>
<p>C-145</p>	<p>I'll Be Seeding You!</p> <p>Life/Biology</p> <p>Elementary (Upper)</p>	<p><i>Ralph J. Yulo Jr., Eastern Connecticut State University</i></p> <p>Description: Learn about a set of hands-on/minds-on activities that can help children learn and appreciate some of the fascinating and beautiful adaptations that enable seeds to travel and grow. See how seeds can be used to help children have first-hand experience with NGSS cross-cutting concepts (Patterns and Structure & Function), and learn Core Life Science Concepts. Each teacher will receive a reference set of seeds.</p>

<p>C-146</p>	<p>Having Fun with the Periodic Table</p> <p>Chemistry</p> <p>High</p>	<p><i>Alice Baxter, Retired Teacher</i></p> <p>Description: Learn about a new website that presents the elements of the periodic table in an entertaining and engaging way. Each element is represented by a poem or song, based on a nursery rhyme or popular song, along with a colorful illustration. The rhymes contain accurate information about the elements and lesson plans that teachers can use to encourage students to learn more about the elements.</p>
<p>C-220</p>	<p>FOSS Brings NGSS to the Connecticut Elementary Classroom</p> <p>Engineering</p> <p>Elementary (Upper)</p>	<p><i>Steven Murray, Delta Education</i></p> <p>Description: Learn about how students can design, gather and communicate ideas and information in ways that are authentic and integrate Common Core and literacy strategies about Energy and Energy Transfer. Handouts from the FOSS K-5 program will include literacy connections, reading samples, and ideas on note-taking and assessment. Participants will explore Core Ideas from the NGSS that will engage students in constructing explanations and designing solutions. Through the exploration in an active investigation, presenters will model how the FOSS program will assist the teachers in CT in meeting the NGSS standards.</p>
<p>C-221</p>	<p>Traveling Professional Development: Learn from Scientists & Teachers Worldwide</p> <p>General Science</p> <p>All</p>	<p><i>Louise McMinn, Scofield Magnet Middle School, Stamford</i></p> <p>Description: Are you interested in participating in Professional Development that will allow you to travel? Do you want to engage your students with information from around the world, and show them how science is done in the field? A National Geographic Grosvenor Fellow will share opportunities, resources and technology gathered from teachers nationwide.</p>
<p>C-222</p>	<p>Car Crash[®] Course in 3-Dimensional Learning</p> <p>NGSS 3D Learning</p> <p>Middle</p>	<p><i>Amy O'Neal, JASON Learning</i></p> <p>Description: Explore pedagogical shifts called for by the new science frameworks, and experience 3-dimensional learning in the classroom through car crash physics using easy-to-find and low cost materials. First meet an Engineer from IIHS and review authentic videos of two crash tests as the anchoring phenomenon. Then plan and carry out an investigation of your own to contribute to a whole-class data set. This session will focus on the new pedagogy called for by A Framework for K-12 Science Education by comparing an older version of a JASON Learning Lab on momentum with a new, modified version aimed at increasing the level of student-driven exploration, designing investigations, communicating findings and constructing explanations based on whole-class evidence/data.</p>
<p>C-223</p>	<p>That's a Dot of a Different Color</p> <p>Engineering</p> <p>High</p>	<p><i>Katherine Nuzzo, Joel Barlow High School, Redding & Elizabeth Petritus, Smith Middle School, Glastonbury</i></p> <p>Description: Participants are introduced to the physical concept of the colors of rainbows as light energy in the form of waves with distinct wavelengths. Quantum dots, a type of semiconducting nanostructure, are unique in that the energy levels can be tailored by simply altering size, shape, and charge potential. Looking at different quantum dot solutions, make observations and measurements, and graph your data. Learn the dependence of particle size and color wavelength and about real-world applications of these colorful liquids.</p>

<p>C-232</p>	<p>Creative Clay Anatomy: Explore Structure of the Human Body</p> <p>Life/Biology</p> <p>High</p>	<p><i>Penny Kelly, Academy of Aerospace & Engineering, CREC</i></p> <p>Description: Explore the Anatomy in Clay Learning System from an educator who has used it to help teach Anatomy and Physiology for the past seven years. It allows students to learn kinesthetically through building with clay. You can explore all human body structures through this model. Participants will complete an overview of this system, create structures of many body systems and relate them to disease.</p>
<p>C-233</p>	<p>Coding the STEM: Simulations & Modeling That Sticks</p> <p>NGSS 3D Learning</p> <p>All</p>	<p><i>John Pellino, Talcott Mountain Science Center</i></p> <p>Description: Science models the world, testing hypotheses & building theories. Much of it is math, much can be done by coding with graphical languages via the web, computers & handhelds. We'll show how you and your students can manipulate variables, test, modify & re-test models in a range of STEM topics, linking science, language, math & tech. We'll focus on grades 4-8 with free / open source solutions.</p>

Breakout -Room	Title Strand Grade Level	Presenter(s) Description
D-113	Explore & Build Robots with FIRST Inspires & LEGO Education NGSS 3D Learning All	<i>Vinnie Rodino, FIRST & Christina Specht, LEGO Education</i> Description: Join us for a hands-on session to explore FIRST LEGO League Jr. (K-4) and the LEGO WeDo 2.0 which combines core science concepts and engineering with robotics to bring your science classroom and FIRST LEGO League Jr. Challenge to life. During the session, participants will build a WeDo 2.0 robot, explore programming and look at the documentation tool set. Session limited to 20 participants. * This session runs from 12:15-2:30pm
D-115	Optics with Light & Color: A Series of EnLIGHTening Experiments General Science Middle	<i>Erik Benton, Frey Scientific/CPO Science & Jon DiVito,</i> Description: Finally, a comprehensive kit that takes a STEM approach to teaching about focal length, concave and convex lenses, reflection, refraction, polarization, and color mixing. CPO's Link Learning module does it all.
D-116	Bad Hollywood Science General Science All	<i>Daryl Taylor, Retired Teacher</i> Description: Why did Clooney have to die in "Gravity?" Could Willis really save us from an asteroid "the size of Texas?" Through a fast-paced often whimsical examination of popular media, arm yourself with examples of the good, the bad, and the downright ugly science found in popular media. Video clips and freebies provided for all attendees.
D-123	NGSS Facilitated Discussion NGSS Strand All	<i>Facilitated By: Louise McMinn, CSTA President Chris Ozmun, CSSA President</i> Description: A facilitated discussion led by CSTA and CSSA presidents that focusing on the implementation of NGSS in the state of Connecticut. These discussions will benefit school leaders, department chairs, and teachers that want to tackle what's working and what's not. Tables will be set-up with NGSS topics and suggested questions to guide your discussions.
D-125	Using Phenomena to Frame Earth Science Topics Earth/Space Science Middle-High	<i>Laurel Kohl, Institute for Sustainable Energy, Eastern Connecticut State University</i> Description: Earth Science lessons offer the opportunity to use good phenomena to help students explore the complications of cause and effect in the world around them. Using examples such as the landslide in Oso, WA to the loss of Malaysian Flight 370, students demonstrate increased understanding and connection.

<p>D-126</p>	<p>STEM, Nature's Designs & NGSS in the Classroom</p> <p>Engineering</p> <p>Middle</p>	<p><i>Mistral Dodson, New England Science & Sailing</i></p> <p>Description: Get rid of that set of directions, give your students supplies, and guide them to figure it out on their own! Draw, design, build, fail and modify. Delve into the field of Biomimicry to examine and mimic the aspects of the natural world and its models and challenge your students to solve human needs. Use these STEM-based examples to strengthen the engineering aspects of the NGSS in your classroom.</p>
<p>D-135</p>	<p>Biobottles: Student-Created Living Worlds</p> <p>Life/Biology</p> <p>Elementary</p>	<p><i>Patricia DeCoster, Ansonia High School</i></p> <p>Description: Using two 2-liter soda bottles, your students can create a miniature ecosystem for both land and water habitats. Students collect the specimens that will inhabit them. Abiotic and biotic factors are monitored and described as students journal their observations. Successful at all grade levels.</p>
<p>D-136</p>	<p>NGSS in the Digital Classroom</p> <p>Instructional Technology in Science</p> <p>All</p>	<p><i>Keagan Radziwon, Bristol Eastern High School & Orlando Valle, Bristol Eastern High School</i></p> <p>Description: Overwhelmed with the amount of paper to display as you incorporate NGSS? Trying to figure out how to digitally preserve the thought process of your students? This session will use modeling to explore a scientific phenomenon and will use Google Classroom and other Google tools to digitally document the work created and discussions that ensue. Please bring a phone or tablet if possible.</p>
<p>D-143</p>	<p>Games To Explain Human Performance: Perfect For Your Class!</p> <p>General Science</p> <p>All</p>	<p><i>Dr. Ronald G. Shapiro, Ph.D. LLC</i></p> <p>Description: Would you like to have a portfolio of games and activities to help you explain thinking, learning, problem solving, and information processing to your students? Find out how to help your students to learn and communicate more effectively. Join us for the first time and you'll leave with at least 20 new classroom activities. If you've attended previously please share your experiences.</p>
<p>D-144</p>	<p>Technology Tools for Engagement & Assessment</p> <p>Instructional Technology in Science</p> <p>Middle</p>	<p><i>Julie Christianson, Greater Hartford Academy of the Arts Middle School, CREC</i></p> <p>Description: During this session, we will explore a few different tools to increase engagement through technology such as nearpod and kahoot, and methods to help ease assessment doctopus, and goobric. Bring a computer, smartphone, or tablet to fully participate.</p>
<p>D-145</p>	<p>Taking Science Outside: Smarter, Healthier & Happier Students</p> <p>General Science</p> <p>Elementary (Upper)</p>	<p><i>Erica Beck Spencer, Lawrence Hall of Science, University of California, Berkeley</i></p> <p>Description: Participants will engage in several outdoor activities from the FOSS Next Generation Edition, will learn valuable strategies for managing students and materials outside, and will learn how teaching outside makes students happier, healthier, and smarter. Access to activities and teaching tools will be provided. We will go outside no matter the weather!</p>

<p>D-146</p> <p>General Science</p> <p>Middle</p>	<p>Dropping into NGSS Practices</p>	<p><i>Jeanette Glover, Eagle Hill School</i></p> <p>Description: An oldie but goodie! Use paper parachutes to introduce experimental design, measurement, independent variables, dependent variables, controls, data analysis and graphing. This activity immerses students in concepts and language critical for skills in the Practices dimension of NGSS. It's highly engaging and readily differentiated for varied language skills and levels of background knowledge.</p>
<p>D-220</p> <p>Physics</p> <p>Middle</p>	<p>Teaching with Aeronautics</p>	<p><i>Stephen M. Rocketto, Civil Air Patrol</i></p> <p>Description: This presentation will focus on simple demonstrations useful to teach the physics of aeronautics and the interrelationships among a range of different disciplines. The presentation will demonstrate a Socratic approach based on easily performed demonstrations using simple equipment. The demonstrations will be used to invoke responses from students and encourage analysis of the problems. Handouts will be provided.</p>
<p>D-221</p> <p>NGSS 3D Learning</p> <p>Middle</p>	<p>Inquiry Notebooking: If You Don't Write It Down, It Didn't Happen</p>	<p><i>Dario Soto, Rawson Elementary School, Hartford</i></p> <p>Description: In many STEAM and STEM classrooms and schools we are doing a great job getting our students to have discourse, but do you struggle with ways to record these great discussions? Having the students create an inquiry notebook will allow them to record ideas and have a place to refer to when they are creating presentations or studying for an assessment. These notebooks also service as a data point for teachers and student portfolios. They are really fun for the students and teachers to use!</p>
<p>D-222</p> <p>NGSS 3D Learning</p> <p>Middle-High</p>	<p>Using Summary Tables to Promote Argumentation from Evidence</p>	<p><i>Jennifer Duell, Maloney High School, Meriden</i></p> <p>Description: Are you a novice NGSS-er or an experienced teacher? Join us! Explore how to integrate the use of summary tables to support planning and executing a phenomenon-based unit, and use it to support students arguing from evidence. We will discuss implementation and assessment of multiple NGSS practices including constructing explanations and argumentation from evidence.</p>
<p>D-223</p> <p>NGSS 3D Learning</p> <p>High</p>	<p>Project-Based Learning for NGSS Crosscutting Concepts & Engineering Practices</p>	<p><i>Kerry MacFarland, Skills21 at EdAdvance & Susan Auchincloss, Skills21 at EdAdvance</i></p> <p>Description: Skills21 introduces Launchpad, a digital learning platform supporting student led innovation and design in preparation for its annual state competition, Expo Fest. The project based format allows students to engage in engineering practices, data interpretation, problem solving while communicating information using 21st century resources. Learn how our program can help in the transition to NGSS.</p>

D-232	Real Time Assessment of Science Practices NGSS 3D Learning Middle	<i>Dr. Janice Gobert, Rutgers University & Dr Michael Sao Pedro, Apprendis</i> Description: BYOD! Using big data analytics, Inq-ITS enables real time assessment of science practices. Explore Inq-ITS: Intelligent Tutoring System. Both student and teacher receive immediate feedback on inquiry science practices in Life, Earth, and Physical Science virtual labs. During this demonstration, you will see how easily you can track student growth.
D-233	STEMIE: Science, Technology, Engineering & Mathematics Involve Everyone Engineering All	<i>John Cook, All Saints Catholic School & Bardhyl Gjoka, St. Aloysius School</i> Description: Join me to discuss how to create effective, NGSS aligned, engineering design lessons with minimal expense. Grade level teacher clusters will participate in problem-based model activities which have been successful in motivating all students to critically think, collaborate, communicate through written journal work, class presentations, and create solutions to real-world challenges!

2:45 Return to the Exhibitor Hall to collect your Prizes!

Sessions at a Glance

Breakout-Room	Title				Strand
		Elem	Middle	High	
A-115	Building an Electric Motor the STEM Way with CPO's New Link Learning Module		✓		Engineering
A-116	Chemistry Connections: Inspiring Students with Innovation			✓	NGSS 3D Learning
A-123	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects	✓	✓		NGSS 3D Learning
A-125	Exploring Waves & Their Applications	✓			NGSS 3D Learning
A-126	Digital Science Notebooks	✓	✓	✓	Instructional Technology in Science
A-135	Meteorology in Action: Creating Wind Energy in Your Classroom		✓		Earth/Space Science
A-136	What is a Scientific Model?	✓	✓	✓	NGSS 3D Learning
A-143	TEVAL & Teaching 3-D Science: Working with Non-Science Evaluators	✓	✓	✓	NGSS 3D Learning
A-144	PAEMST: How to Recognize Outstanding Grades 7-12 Science Teachers	✓	✓	✓	Leadership in Science
A-145	3-D Learning: Let's Explore Crosscutting Concepts in Action	✓			General Science
A-146	Measuring the Environment	✓	✓	✓	Literacy in Science
A-220	Safety Risks Assessments: The Root of Safer STEM Demos & Labs	✓	✓	✓	Engineering
A-221	Teaching STEM Skills through Blended Online Learning		✓		Instructional Technology in Science
A-222	Activities for the Anthropocene			✓	Environmental
A-223	NGSS Lessons from the NASA Endeavor Community		✓	✓	NGSS 3D Learning
A-232	Introducing Argumentation: Sudoku & Mystery Cube			✓	NGSS 3D Learning
A-233	Murder at Old Fields: the "Fourth Dimension of Learning"		✓	✓	General Science
B1-133	Next Generation Science Implementation & Assessment	✓	✓	✓	NGSS Strand
B1-135	Lunar NASA Resources		✓		Earth/Space Science
B1-136	Jumpstart Your NGSS Classroom with Science Olympiad Engineering Tasks		✓		Engineering
B1-143	Invention Dimension: Addressing NGSS Through the Invention Process	✓	✓		NGSS 3D Learning
B1-144	Enhance Wildlife Habitat on School Grounds: 1800 Opportunities	✓	✓	✓	Environmental
B1-145	Using HHMI BioInteractive to Bring Math into the Biology Lesson		✓	✓	Life/Biology
B1-146	Implementing ESRI GIS Geoinquires in Science Classrooms	✓	✓	✓	General Science
B1-221	Learn Our Process for Writing NGSS Units for K-12 Science	✓	✓	✓	NGSS 3D Learning
B1-222	The Power of the Crosscutting Concepts	✓	✓	✓	NGSS 3D Learning
B1-223	NGSS the Easy Way!	✓	✓	✓	NGSS 3D Learning
B2-113	NSTA's Resources to Support NGSS	✓	✓	✓	NGSS Strand
B2-115	CPO's Wind Turbine Link Learning Module: A STEM Approach to Engineering		✓		General Science
B2-116	Welcome to the "Dark Side" of the Universe			✓	Earth/Space Science
B2-125	I'm All About the "E"! Discovering Elementary Engineering in STEM	✓			Engineering
B2-126	Flipping the Chemistry Classroom			✓	Chemistry
B2-232	On the Shoulders of Giants & in the Footsteps of Dinosaurs: Bringing the Museum into Your Classroom	✓	✓	✓	NGSS 3D Learning
B2-233	Connecting Phenomena, NGSS & 3D Learning with SEPUP Lessons		✓		NGSS 3D Learning

C-113	Explore & Build Robots with FIRST Inspires & LEGO Education	✓	✓	✓	NGSS 3D Learning
C-115	Genetics & Heredity: Crazy Traits & CPO's new Link Learning Module		✓		Life/Biology
C-116	Newton's Laws: Not Just for Physics Anymore!	✓	✓	✓	General Science
C-123	Let's Get Started: Launching Inquiry Lessons in Multiple Subjects	✓	✓		NGSS 3D Learning
C-125	NGSS & Common Core Wrapped in a Green Bow	✓	✓	✓	Environmental
C-126	Pairing NGSS Science & Engineering Practices with Core Ideas		✓		Literacy in Science
C-133	Next Generation Science Implementation & Assessment	✓	✓	✓	NGSS Strand
C-135	Make Your Students NASA Scientists with GAVRT	✓	✓	✓	Earth/Space Science
C-136	Argument for All: Engaging English Learners in Scientific Argumentation	✓	✓	✓	Special Education / Science for All
C-144	Zoology for Kids with Animal Embassy	✓			Environmental
C-145	I'll Be Seeding You!	✓			Life/Biology
C-146	Having Fun with the Periodic Table			✓	Chemistry
C-220	FOSS Brings NGSS to the Connecticut Elementary Classroom	✓			Engineering
C-221	Traveling Professional Development: Learn from Scientists & Teachers Worldwide	✓	✓	✓	General Science
C-222	Car Crash Course in 3-Dimensional Learning		✓		NGSS 3D Learning
C-223	That's a Dot of a Different Color			✓	Engineering
C-232	Creative Clay Anatomy: Explore Structure of the Human Body			✓	Life/Biology
C-233	Coding the STEM: Simulations & Modeling That Sticks	✓	✓	✓	NGSS 3D Learning
D-113	Explore & Build Robots with FIRST Inspires & LEGO Education	✓	✓	✓	NGSS 3D Learning
D-115	Optics with Light & Color: A Series of EnLIGHTening Experiments		✓		General Science
D-116	Bad Hollywood Science	✓	✓	✓	General Science
D-123	NGSS Facilitated Discussion	✓	✓	✓	NGSS Strand
D-125	Using Phenomena to Frame Earth Science Topics		✓	✓	Earth/Space Science
D-126	STEM, Nature's Designs & NGSS in the Classroom		✓		Engineering
D-135	Biobottles: Student-Created Living Worlds	✓			Life/Biology
D-136	NGSS in the Digital Classroom	✓	✓	✓	Instructional Technology in Science
D-143	Games To Explain Human Performance: Perfect For Your Class!	✓	✓	✓	General Science
D-144	Technology Tools for Engagement & Assessment		✓		Instructional Technology in Science
D-145	Taking Science Outside: Smarter, Healthier & Happier Students	✓			General Science
D-146	Dropping into NGSS Practices		✓		General Science
D-220	Teaching with Aeronautics		✓		Physics
D-221	Inquiry Notebooking: If You Don't Write It Down, It Didn't Happen		✓		NGSS 3D Learning
D-222	Using Summary Tables to Promote Argumentation from Evidence		✓	✓	NGSS 3D Learning
D-223	Project-Based Learning for NGSS Crosscutting Concepts & Engineering Practices			✓	NGSS 3D Learning
D-232	Real Time Assessment of Science Practices		✓		NGSS 3D Learning
D-233	STEMIE: Science, Technology, Engineering & Mathematics Involve Everyone	✓	✓	✓	Engineering

Exhibitors

Remember to place your raffle tickets in exhibitors raffle jars. Prizes will be drawn at 2:30pm in the exhibit hall.

Company/Organization	Representative	Email Address
Accelerate Learning	Robert Miot	rmiot@acceleratelearning.com
CT Invention Convention	Jake Mendelsohn	jake@ctinventionconvention.org
Lab-Aids	Stephanie Brunnett	sbrunnett@lab-aids.com
Animal Embassy	Jennifer Balbes	jennifer@animalembassy.com
Connecticut Science Center	Brit Montmeat	htorpey@ctsciencecenter.org
Connecticut Women's Hall of Fame	Bambi Mroz	bambi@cwfh.org
Earthwatch Institute	Stacey Monty	smonty@earthwatch.org
Ward's Science/div. of VWR International	Kristen Baish	kristen.baish@vwr.com
Cell Zone, Inc.	Dawn A. Tamarkin, Ph.D.	dawn@cellzone.org
Grand Classroom	Gregg Watchelhausen	maryannchapman@grandclassroom.com
New England Science & Sailing	Pam Gibbs	pgibbs@nessf.org
Beyond Benign, Inc.	Mollie Enright	mollie_enright@beyondbenign.org
Cody Outdoor Classroom	Kristen Fenstermacher	kristen@campcody.com
Connecticut's Beardsley Zoo	Justin Vaughan Gian Morresi	programming@beardsleyzoo.org
Mosa Mack Science	Lissa Johnson	lissa@mosamack.com
Inq-ITS	Charity Staudenraus	charity@appendis.com

Presenters

Breakout-Room	Presenter(s)	Email Address
A-115	Erik Benton, Frey Scientific/CPO Science Jon DiVito	jon.divito@schoolspecialty.com
A-116	Teri Natoli, Hyde School of Health Sciences & Sports Medicine, New Haven	therese.natoli@new-haven.k12.ct.us
A-123	Nick Balisciano, Connecticut Science Center TJ McKenna, Connecticut Science Center	nbalisciano@ctsciencecenter.org tmckenna@ctsciencecenter.org
A-125	Marilyn Decker, Carolina Biological	mjrdecker@gmail.com
A-126	Jeffrey Giliberto, LEARN	JGiliberto@learn.k12.ct.us
A-135	Kathleen Brooks, CREC	kathy.bih.brooks@gmail.com
A-136	J.T. Schemm, Joel Barlow High School, Regional School District 9	jtschemm@er9.org
A-143	Carrie DePetris, Lincoln Middle School, Meriden Heather Verdi, Lincoln Middle School, Meriden	carrie.depetris@meridenk12.org heather.verdi@meridenk12.org
A-144	Harry Rosvally, Danbury Public Schools	rosvah@danbury.k12.ct.us
A-145	Erica Beck Spencer, Lawrence Hall of Science, University of California, Berkeley	ebspencer@berkeley.edu
A-146	Susan Quincy, Connecticut Department of Energy & Environmental Protection	susan.quincy@ct.gov
A-220	Dr. Ken Roy, Glastonbury Public Schools	safesci@sbcglobal.net
A-221	Luke Martin, EverFi	lmartin@everfi.com
A-222	Karolyn Baumgartner, Newtown High School	baumgartnerk@newtown.k12.ct.us
A-223	Crystal Caouette, CREC Magnet Schools	crystal@snet.net
A-232	Cindy Kern, Quinnipiac University	clkern@quinnipiac.edu
A-233	John Stevens, Bullfrog Communications	john.s@ebullfrog.com
B1-133	Jeff Greig, Connecticut Department of Education Ronald Michaels, Connecticut State Department of Education	jeff.greig@ct.gov ronald.michaels@ct.gov
B1-135	Amy Capobianco, DePaolo Middle School, Southington	acapobianco@southingtonschools.org
B1-136	Cindy Wilbur, Farmington Public Schools Lucy Walter, Regional School District 18	wilburc@fpsct.org lwalter@region18.org
B1-143	Jake Mendelssohn, Connecticut Invention Convention	jake@ctinventionconvention.org
B1-144	Peter Picone, Connecticut Department of Energy & Environmental Protection	peter.picone@ct.gov
B1-145	Valerie May, The Woodstock Academy & Howard Hughes Medical Institute	Vmay@woodstockacademy.org
B1-146	Margaret Peterson	margpete953@gmail.com
B1-221	Crystal Caouette, CREC Magnet Schools	crystal@snet.net
B1-222	Jaime Rechenberg, CREC	jrechenberg@crec.org
B1-223	Bryan Holmes, Academy of Aerospace & Engineering at Wallace Middle School, Newington	bryanholmesstem@gmail.com
B2-113	Ted Willard, National Science Teachers Association	twillard@nsta.org
B2-115	Erik Benton, Frey Scientific/CPO Science Jon DiVito	jon.divito@schoolspecialty.com
B2-116	Daryl Taylor	AstroFizzixGuy@Gmail.com
B2-125	Stephanie White, Quinnipiac Real World Magnet Math STEM School, New Haven Eric Rank, Celentano Biotech, Health & Medical Magnet School, New Haven	stephanie.white@new-haven.k12.ct.us eric.rank@new-haven.k12.ct.us
B2-126	Elizabeth Hagymasi, Canton Public Schools	ehagymasi@cantonschools.org
B2-232	Corinne Flax, Bruce Museum Kathleen Holko, Bruce Museum	cflax@brucemuseum.org kholko@brucemuseum.org

B2-233	Stephanie Brunnett, Lab-Aids Beth Richter, Hamden Hall Country Day School	sbrunnett@lab-aids.com brichter@hamdenhall.org
C-113	Vinnie Rodino, FIRST Inspires Christina Specht, LEGO Education	VRodino@firstinspires.org christina.specht@LEGO.com
C-115	Erik Benton, Frey Scientific/CPO Science Jon DiVito	jon.divito@schoolspecialty.com
C-116	Daryl Taylor	AstroFizzixGuy@Gmail.com
C-123	Nick Balisciano, Connecticut Science Center TJ McKenna, Connecticut Science Center	nbalisciano@ctsciencecenter.org tmckenna@ctsciencecenter.org
C-125	Laurel Kohl, Institute for Sustainable Energy, Eastern Connecticut State University Leticia Denoya, Institute for Sustainable Energy, Eastern Connecticut State University	kohll@easternct.edu denoyal@my.easternct.edu
C-126	Kathi Brown, Delta Education	Kmbrownsience@verizon.net
C-133	Jeff Greig, Connecticut Department of Education Ronald Michaels, Connecticut State Department of Education	jeff.greig@ct.gov ronald.michaels@ct.gov
C-135	Patricia DeCoster, Ansonia High School	patsail62@gmail.com
C-136	Kevin Fleming, ACES Maggie Stevens Lopez, ACES	kffleming@aces.org mstevens@aces.org
C-144	Chris Evers, Animal Embassy	jennifer@animalembassy.com
C-145	Ralph J. Yulo Jr., Eastern Connecticut State University	oluy@aol.com
C-146	Alice Baxter	alice.baxter1@gmail.com
C-220	Steven Murray, Delta Education	s-murray@comcast.net
C-221	Louise McMin, Scofield Magnet Middle School, Stamford	lou.mcminn@gmail.com
C-222	Amy O'Neal, JASON Learning	amy@jason.org
C-223	Katherine Nuzzo, Joel Barlow High School, Redding Elizabeth Petritus, Smith Middle School, Glastonbury	kdnuzzo@gmail.com petrituse@glastonbury.us.org
C-232	Penny Kelly, Academy of Aerospace & Engineering, CREC	pkelly@crec.org
C-233	John Pellino, Talcott Mountain Science Center	jpellino@tmssc.org
D-113	Vinnie Rodino, FIRST Christina Specht, LEGO Education	vrodino@firstinspires.org christina.specht@LEGO.com
D-115	Erik Benton, Frey Scientific/CPO Science Jon DiVito	jon.divito@schoolspecialty.com
D-116	Daryl Taylor	AstroFizzixGuy@Gmail.com
D-125	Laurel Kohl, Institute for Sustainable Energy, Eastern Connecticut State University	kohll@easternct.edu
D-126	Mistral Dodson, New England Science & Sailing	mdodson@nessf.org
D-135	Patricia DeCoster, Ansonia High School	patsail62@gmail.com
D-136	Keagan Radziwon, Bristol Eastern High School Orlando Valle, Bristol Eastern High School	keaganradziwon@bristol12.org orlandovalle@cox.net
D-143	Dr. Ronald G. Shapiro	DrRonShapiro1981@SigmaXi.Net
D-144	Julie Christianson, Greater Hartford Academy, CREC	jm_christianson@yahoo.com
D-145	Erica Beck Spencer, Lawrence Hall of Science, University of California, Berkeley	ebspencer@berkeley.edu
D-146	Jeanette Glover, Eagle Hill School	j.glover@eaglehill.org
D-220	Stephen M. Rocketto, Civil Air Patrol	srocketto@aquilasys.com
D-221	Dario Soto, Rawson Elementary School, Hartford	dario.soto@hartfordschools.org
D-222	Jennifer Duell, Maloney High School, Meriden	jduell88@gmail.com
D-223	Kerry MacFarland, Skills21 at EdAdvance Susan Auchincloss, Skills21 at EdAdvance	macfarland@educationconnection.org auchincloss@educationconnection.org
D-232	Dr. Janice Gobert, Rutgers University Dr Michael Sao Pedro, Apprendis	janice.gobert@gse.rutgers.edu mikesp@apprendis.com
D-233	John Cook, All Saints Catholic School Bardhyl Gjoka, St. Aloysius School	jscook390@icloud.com bmgoka@gmail.com

