

Thursday Preliminary Schedule

8:30 - 9:30 am

Coding in Elementary Classrooms	Alisa	Wickliff	K-2, K-5, 3-5
Camera Traps In The Classroom: Creating Authentic Learning Opportunities	Rachael	Polmanteer	K-12
PTC Taster Lab: From Genotype to Phenotype.	Robert	Dennison	6-12, College
The Science House Presents: Using Makey Makey Devices to Capture STEM Innovation	Michelle	Benigno	K-12, College, General
Exploration and Discovery through Maps: Teaching Science with Technology	Jenna	Hartley	K-12, College
Vocab out of the Box: Getting Students to Mastery with all that Vocabulary	Jess	Miller	K-2, K-5, K-8, K-12, 3-5, 6-8, 9-12, 6-12, General
Inquiry? Check. Increase in Student Learning? Not Yet.	Cherelle	Sanders	3-5, 6-8
KNOT--- THE LAST TIME	Michael	Welter	General
STEM is more than Rockets and Robots	Thom	OBrien	3-5, 6-8, 9-12
Connecting Ecology Concepts Globally – Modeling How Species Coexist Within Ecosystems	Tim	Guilfoyle	9-12
Innovation in Science and Engineering! Where do I start?	Judy	Day	3-5, 6-8, 9-12, General
Viewing Science Through Different Lenses	Tammy	Lee	K-5
Energy in Action	Teresa	Fulk	K-8
Divide and Conquer	Faith	Freeman	6-12
1 Class Period+ 1 Model System + 2 Cellular Processes= Success 4 Students!	Tamica	Stubbs	6-12, College
The Envelope Please... It's a Winner!	Evalee	Parker	K-12
TBD	Learn Ed		

9:45 - 10:45 am

Presidential Awards for Excellence in Math and Science Teaching	Donna	Kenestrick	K-12, General
Harry Potter in Your Classroom	Judy	Walker	K-5
Using Physics in Plastic Surgery: New Treatments for Bacterial Infections	Nicole	Levi-Polyachenko	6-12, College
Good Google-y Moogly!!!!	Elizabeth	Harwick	3-5, 6-8, General
Disciplinary Literacy - How to Read and Write Like a Scientist	Stacey	Wilson	K-5
Teaching Evolution In Middle School	Amanda	Clapp	6-8
Bringing Math into the Biology Classroom	Robin	Bulleri	9-12, 6-12
Scientific Literacy and Community Awareness: A Farm-to-Table PBL	Ada	Lopez	6-8, 9-12
The Science House Presents: Enhancing your STEM program with data-collection technology	Gina	Barrier	K-12
Modeling Physics with Glowscript 2D and 3D Simulations	Charles	Payne	9-12, College

Don't take rocks for granite, these are gneiss samples but tuff to identify	Randy	Bechtel	K-12
The Ions Song	Sharon	Beck	9-12, College
"Cloze"-ing the Achievement Gap in Science and Literacy	Jess	Miller	K-5, K-8, K-12, 3-5, 6-8, 9-12, 6-12, General
Why is that? Science simulations that lead to understanding	Thom	OBrien	3-5, 6-8, 9-12
Developing Models through Sense Making	FOSS	Consultant	K-2, K-5, K-8
The Triple E's of Climate Change: Environmental Change, Epidemiology & ELISA Testing!	Tamica	Stubbs	6-12, College
What's in Your Top Pocket?	Evallee	Parker	K-12
	Learn Ed		
11:00 am - 12:30 pm General Session			
12:30 - 1:15 pm - Celebrate the Life of Fred Beyer			
12:30 - 2:00 pm - Reality Check			
			Pre-Service Teachers
1:15 - 2:15 pm			
Tips for Writing Successful Grant Proposals	Pat	Shane	General
PhET and Fold Your Way To Understanding Basic Atomic Structure	Stephanie	Creech	9-12
Photosynthesis and Respiration: A Discovery-Based Approach	Christine	Muth	6-8, 9-12, 6-12, College
Inspired by nature: exploring renewable energy solutions based on biological principles	Dana	Haine	6-12, College
Computer Science in Your Classroom with Games, Simulations, and Models	Bitia	Akram	6-8
Creating Virtual Field Trips with Google Earth	Scott	Grumelot	6-8, 9-12, General
The Science House Presents: The LilyPad Development Board	Pamela	Gilchrist	6-8
Using Phenomena to Engage Students in Science	Brad	Fountain	K-12
Revving Up For Review	Stephanie	Jacobs	6-8
Representation in Action	Mary Beth	Hes	K-5
Still "Centered" on Science	Rebecca	Robison	3-5
Creating an Inquiry-Based Classroom for Student Success	Stan	Hill	K-12, General
Introduction to Modeling Instruction in Biology	Jennifer	Griffin	6-8, 9-12, 6-12
STEMrangers - Science Night that Mean Something	Rhys	Lutsky	3-5, 6-8
Civil Air Patrol STEM Activities for Modeling and Design	Chris	Gordon	K-12
Tricked into Thinking!?	Thom	OBrien	3-5, 6-8, 9-12

Elementary Share-a-Thon			Elementary
	Science Bits		
2:30 - 3:30 pm			
VR in the Planetarium and Classroom	Kenneth	Brandt	3-5, 6-8, 9-12, College, General
Integrating Chromebook with Vernier Technology	Judy	Day	3-5, 6-8, 9-12, 6-12, College, General
How do You Read like a Scientist? Using the Scientific Method, of Course!	Sara	Torpey	K-8
	Jason	Painter	3-5, 6-8, 9-12
Strategies for Navigating the 4 Levels of Inquiry	Brad	Fountain	K-12
How to activate Einstein and other unique geniuses with IEP: Individual Educational Plans	Tabelech	Shipp	K-12, 6-12, College
Why is that? Common Science Misconceptions You Can Easily Dispel!	Laurie	Merlo	K-12
Come Alive in the Classroom for Children with Special Needs	Amy	Sparks	K-5
Differentiated Instruction that will Engage Everyone in Your Classroom	Brenda	LaFayette	6-12
Elementary engineering: Ideas from the UNCG STEM Teacher Leader Collaborative	Heidi	Carlone	K-5
Reading, Writing, and STEM, OH MY!	Robin	Sechrist	K-5, General
Car design challenge	Tom	Savage	K-12
Filling the Gap	Carol	Moore	6-8, 9-12, 6-12, College
Connecting Ecology Concepts Globally – Modeling How Species Coexist Within Ecosystems	Tim	Guilfoyle	6-12
DIVE-IN to Engineering - A new idea for the Maker Movement!	Rhys	Lutsky	3-5, 6-8
Stand Back Let's Make Science Fun in the K-5 Classroom	Sarah	Tharpe-Winchell	K-5
	Science Bits		
Middle School Share-a-Thon			Middle
3:45 - 4:45 pm			
Class Management Techniques Kids Don't Want You to Know	Brenda	LaFayette	6-12
Enhancing Motivation, Confidence & Career Goals: Creating Tomorrow's Scientists	M. Gail	Jones	6-8, 9-12, 6-12
Science Teacher/STEM Teacher: What's the difference?	Rhys	Lutsky	K-12, General
Geniventure: Explore Genetics in Your Classroom Through Virtual Dragons	Osman	Aksit	6-8, 9-12
WeDo 2.0 and Computational Thinking	John	Garrett	K-5
Our Nuclear World	Lisa	Marshall	9-12
Text-Based STEM Inquiry: A Teacher/Media Coordinator Collaborative Success	Anne	Bucci	6-8, 9-12, 6-12

Integrating iPad with Vernier Technology	Judy	Day	3-5, 6-8, 9-12, 6-12, College, General
The Science of STEM in the Classroom	Kelsey	Phillips	K-2, K-5
Diving into STEM with Underwater Robots	Patrick	Curley	K-12, College
Great American Eclipse of 2017 - Did you see it? What really happened?	Laurie	Merlo	K-12
Future Science Educators Present Discrepant Events	Penny	Jeffrey	6-12
Graffiti in the classroom? Yes, it is OK!	Jean	Pelezo	K-8
Biology Test Strategies That Count	Lori	Khan	9-12, 6-12
Break Out and Escape from Boring Review	Covey	Denton	K-8
New Worlds: Integrating Engineering and Science Fiction	Jason	Carter	6-8, 9-12
The "Miracle" of the K-5 PBL	Jennifer	Caligan	K-2, K-5, K-8, 3-5
A-a-achoo! Cold, Flu, or Allergy?	Blenda	Singleary	6-12
5:00-6:00 Awards Ceremony			
6:00-7:00 Reception			
Friday Preliminary Schedule			
8:00 - 9:00 am			
Inspiring students to see STEM as the key to their success	Tanya	Curren	K-2, K-5, K-8, K-12, 3-5, 6-8, 9-12, 6-12, College, General
Blending technology and hands-on experiences at the Greensboro Science Center	Martha	Regester	K-12, College, General
The Innovation Lab: Building a Community Makerspace	Dayson	Pasin	K-12, General
Differentiation through Curriculum Compacting and Digital Notebooks	Maribeth	Leonard	6-12, General
LEGOS and Coding and Kids, Oh My!	Julia	Wagner	K-2, K-5, 3-5
Integrating Research into the AP Biology Classroom	Kimberly	Monahan	9-12, College
How an Elementary AIG Teacher Integrated STEM / STEAM Activities In the Classroom	Lisa	Burke	3-5
Meaningful and Creative Formative Assessments	Adam	Haas	3-5
The Science House Presents: Science Olympiad	Kim	Gervase	K-12
Making the GRADE: Generating Reliable Alternative Diagnostic Engaging Strategies	Molly	Barlow	9-12
What's your evidence? Scientific Argumentation	Roxane	Dupuis	K-5
I-Engineering Design for Sustainable Community Solutions	Aerin	Benavides	K-12
Exploring Science Snacks: Physical Science	Sara	Heredia	6-8, 9-12

NASA Resources and Opportunities for Teachers and Students	Karen	Kingrea	K-12
Using Shrinky Dinks to teach Middle and High School Sciences	Penny	Shumaker Jeffrey	6-12
NCDPI: Support and Resources for Science Education and Leadership	Donna	Kenestrick	K-12, General
8:30-4:00 K-4 Focused Science Workshop			
8:30-4:00 5-8 Focused Science Workshop			
9:15-10:30 General Session			
10:45 - 11:45 am			
Using Critical Competitors to Deepen Understanding in Primary Science	FOSS	Consultant	K-5
Flipping for Science	Veronica	Stender	3-5
PBL: Science and 3D Printing	Andrew	Vinal	K-5, K-8, K-12, 3-5, 6-8, 9-12, College, General
Energizing students to learn about NC's renewable energy sources & the future	Ruthann	McComb	6-12
Reinventing the Field Trip	Willow	Alston-Socha	K-8
Innovative and Creative Centers	Peter	Panico	K-12
Sphero - Capturing Students Attention Through Coding	Brian	Whitson	K-2, K-5, K-8, 3-5, 6-8, General
Science? Oh, No! I don't do science!	Judy	Jones	K-5
BrainDumps and Movement for 5th Grade Science EOG Review	Lindsay	Rice	3-5
Putting it All Together	Jessica	Croson	9-12, 6-12
"The Sharks Aren't The Ones To Watch Out For": How Dialogue Can Change Minds About Sharks and Foster Teaching Skills	Christine	Brown	K-12, General
NASCAR PBLs ≥ Beyond S=D/T	Eliza	Russell	K-12
"Centered" on Science	Rebecca	Robison	K-5
Bioinspired Materials	Joseph	Tracy	6-12, College
Rockin' First Grade Science	Marta	Toran	K-2
Earth/Environmental Share-a-Thon			
12:30 - 1:30 pm			

Blending Technology into the Elementary Science Classroom	Karen	McAvinney	K-5
It Happens So Fast: Wave Communication	FOSS	Consultant	6-8
Introducing Project Learning Tree's New E-Units	Renee	Strnad	K-2, 3-5, 6-8
Using ALICE programming in the science classroom	Adrienne	Evans	6-8, 9-12, 6-12, College, General
#PBLclouds - using technology for inquiry in PBL	Aubrey	DiOrio	K-2
Using QR Codes and Mobile Apps to get your students outdoors!	Amy	Taylor	K-12, College
United PLC + Positive Class Community = Growth and Success in Sciencs Classroom	Lauren	Copley	6-8, 9-12, 6-12
Embrace the Science Within	Cassandra	Williams	K-12
Implementing New Technologies to Solve Global Health Problems	Shane	Westhafer	6-12
Science by Design: PBL STEM Integration Through Content	Alisa	Wickliff	K-5
EPA's Generate! game explores energy choices and environmental quality	Ruthann	McComb	6-8, 9-12
Exploring from the Ground Up in Ecosystems: Modeling Diversity and Interactions	Shannon	Pylant	6-8
Curriculum for a Crowded World	Megan	Ennes	6-12
Energy from the Sun	Kimberly	Swan	6-12
Engaging Geysers, modeling geyser eruptions in the Earth Science classroom	Tim	Martin	K-12, 6-12, College, General
Biology Share-a-Thon			
1:45 - 2:45 pm			
Show me what you learned	Peter	Panico	K-12
Teaching the Unity of Sciences	Lucy	Laffitte	9-12, 6-12, College, General
The Exposome: Making Chemical Exposures Relevant to Biology Instruction	Dana	Haine	9-12, College
Using Biocubes to Explore a Sample of the World	Ted	Miracle	K-5
"Why Do I Have to Learn This?" Connecting Science Topics to Sports	Yvette	Medina	3-5, 6-8
Energy in Ecosystems: Project Learning Tree's New E-Unit for Grade 3-5	Renee	Strnad	3-5
Interactive Simulations That Extend the Classroom Walls	Richard	Smith	3-5, 6-8, 9-12
Leading The Way In Science Education	Michelle	Ellis	General
Yorel Lofters, M.Ed.	Yorel	Lofters	K-5, 3-5
Strategies for Making Science Reviews and Assessments More Productive	Iris	Mudd	6-8, 9-12, 6-12, College, General
Camp Focus: Enhancing STEM Education Through Informal Learning	Jennifer	Stalls	6-8
Pendulum Paintings! Forces of Motion Hands On Activity	Amy	Taylor	K-8
What's Snot To Like?: Explore the Respiratory and Immune Systems Through Mucus	Daniel	Wheeler	6-8
Teaching and Learning through Exploration and Discovery	James	Martin	9-12, 6-12, College, General
Physical Science/Chemistry/Physics Share-a-Thon			

3:00 - 4:00 pm

Classroom Misbehavior is Ingenious - For the Wrong Reasons	Peter	Vajda	K-12
Re-Imagining the Grid: Hands-on and Practical Ideas for Teaching Energy and the Grid in the Classroom	Samantha	Lawing	6-8, 9-12
Carbon & Climate: Project Learning Tree's New E-Unit for Grade 6-8	Renee	Strnad	6-8
Wait, learning can be fun?	Alicia	Baldwin	K-2, K-5, 3-5
SciencELA: Novels in Science	Elisabeth (Betty Jo)	Moore	6-8, 6-12
Best Practices for Student Achievement and Engagement in Biology	Erica	Sypole	9-12
Science and the Korean War	Kathy	Bosiak	6-8, 9-12, 6-12
Teaching Science by Addressing Different Learning Styles	Susan	Nazario	3-5, 6-8
Begin With the End in Mind: Deconstructing the 5th grade EOG	Cynthia	Dey	3-5
Passports to Smooth Sailing Through Assessments	Jean	Stowell	6-8, General
Problem Based, Project Based, Hands On = Differentiation	Mark	Case	6-12
How to Prepare for the Middle Grades Science edTPA	Cheryl	Horton	6-8
Implementing Design Challenge Approaches for K-5 Science	Wayne	Shore	K-5
SWEET! Potatoes	Ted	Miracle	3-5
The Science of Design: Modeling Atomic Theory Over Time	Stephen	Roman	9-12, College