

**VIRGINIA ASSOCIATION OF SCIENCE TEACHERS
2023 PROFESSIONAL DEVELOPMENT INSTITUTE
LIST OF CONCURRENT SESSION PRESENTATIONS (Draft as of July 10)**

Differentiating Student Choice

Grade: Middle School, Content: Physics/Physical Science

Rachel Alldaffer, Prince William County Public Schools

Inclusivity Fostered with STEAM-Infused Instruction

Grade: Elementary, Content: Infusing STEM & the Arts

Susan Bardenhagen, AIAA-NCS K12 STEM Committee Chair

Weaving Earth Science, Social Studies, & Civics Education

Grade: Elementary, Middle School, Content: Middle Grades 4-6 Content

Susan Bardenhagen, American Institute of Aeronautics & Astronautics K12 STEM Committee Chair

The Autoclave: A Versatile Tool in High School Science

Grade: High School, Content: General

Timothy Bill, Harrisonburg High School

Re-envisioning Science for Students with Visual Impairment

Grade: Middle School, High School, Advanced High School/College, Content: Adaptive STEM

Dylan Boeckmann, The Virginia School for the Deaf and the Blind

Kerry Cresawn, James Madison University

How to Slay Every Science Lesson

Grade: Middle School, High School, Content: General

Kristen Boudreau, Prospect Heights Middle School

Developing the Mind of an Experimentalist

Grade: All grade levels, Content: STEM

Arthur Bowman, Norfolk State University

Culturally Responsive Teaching for STEM Instruction

Grade: All grade levels, Content: STEM

Arthur Bowman, Norfolk State University

Kianga Thomas, Norfolk State University

Science & Diverse Learners

Grade: Middle School, High School, Content: Earth/Space Science, General

Andrea Bryant, Lucille Brown Middle School

Bringing Science to Life

Grade: Elementary, Content: General

Meryl Butler, Henrico County Public Schools

Rebecca Fischer, Laburnum Elementary School

VCU: Role Play Experiences Sustaining Watershed Ecosystems

Grade: Middle School, High School, Content: Earth/Space Science, Biology/Life Science, Environmental Science

Al Byers, VCU School of Education: Center for Innovation in STEM Education

Sue Kirk, VCU School of Education

Elizabeth Edmondson, VCU School of Education

VCU: The Role of Bivalves in Sustaining Watershed Ecosystems

Grade: Middle School, High School, Content: Earth/Space Science, Biology/Life Science, Environmental Science
Al Byers, VCU School of Education: Center for Innovation in STEM Education
Sue Kirk, VCU School of Education
Elizabeth Edmondson, VCU School of Education

Bye-Bye, Bycatch and Hello Terrapin Town!

Grade: Middle School, Content: Biology/Life Science, Environmental Science, STEM
Celia Cackowski, Virginia Institute of Marine Science, Marine Advisory Program (VIMS MAP)
Anna Caputo, Chesapeake Bay National Estuarine Research Reserve in Virginia (CBNERR-VA)
Not-for-Profit Exhibitor

Bridge DATA - Bay Nettles: What are the Chances?

Grade: Middle School, High School, Content: Biology/Life Science
Celia Cackowski, Virginia Institute of Marine Science, Marine Advisory Program (VIMS MAP)
Not-for-Profit Exhibitor

Building Vocabulary and Sense-making with Makerspace Tasks

Grade: Elementary, Content: General, STEM
Pam Caffery, hand2mind
Commercial Exhibitor

Integrating Coding Skills with Screen-free STEM Activities

Grade: Elementary, Middle School, Content: STEM
Pam Caffery, hand2mind
Commercial Exhibitor

Phenomenal Hands-On Kits Session and Coding session

Grade: Elementary, Middle School, Content: Math in Science, General, STEM
Pam Caffery, hand2mind
Commercial Exhibitor

Bonding the Beauty of Science and Best of Computer Science

Grade: Elementary, Content: Computer Science Integration
Jessa Campbell, Albemarle County Public Schools
Charli Nolan, Albemarle County Public Schools
Sandy Shaffer, Albemarle County Public Schools
Katie Breaud, Albemarle County Public Schools

Methods for Fostering Dialogue in the Science Classroom

Grade: All grade levels, Content: General
Ben Campbell, Longwood University
Erich Sneller, Harrisonburg High School

Engaging Science Lessons Through the 5-E Lesson Model

Grade: Middle School, Content: Biology/Life Science
Marlin Campbell, Carroll County Public Schools
Jennifer Campbell, Grayson County Public Schools

Exploring Climate Change Solutions in the Classroom

Grade: High School, Advanced High School/College, Content: Climate Change Social Impacts
Anna Caputo, CBNERR

Engaging in Scientific Argumentation in STEM

Grade: Elementary, Middle School, Content: General, STEM
Chelsea Chandler, STEMscopes by Accelerate Learning
Commercial Exhibitor

Integrating the Arts Into the Science Classroom

Grade: Elementary, Middle School, High School, Content: General, STEM
Chelsea Chandler, STEMscopes by Accelerate Learning
Commercial Exhibitor

Exploring Content with Student Created Podcasts

Grade: Elementary, Content: General
Lauren Connor (Berk), Bon Air Elementary School
Sonya Smith, Bon Air Elementary School

Opportunities for MS & HS Students and Teachers at VT

Grade: Middle School, High School, Content: Biology/Life Science, Chemistry, STEM
Victoria Corbin, Virginia Tech, College of Science
Sandy Hancock, Fralin Life Sciences Institute, Virginia Tech

March Mammal Madness: if You're Learning, You're Winning!

Grade: All grade levels, Content: Biology/Life Science
Linda Correll, Fauquier County Public Schools

Informal K-5 STEM: Let's do More than Spark Interest

Grade: Elementary, Content: STEM
Kerry Cresawn, James Madison University STEM Center
Julianna DiRocco, James Madison University STEM Center

Physics for All

Grade: High School, Content: Physics/Physical Science
George T Dewey, Fairfax County Public Schools, retired
Robert C. Smith, Chantilly High School, Fairfax County Public Schools

Real Science: Science Teachers in Research Labs

Grade: Middle School, High School, Content: Biology/Life Science, STEM
Elizabeth Edmondson, Virginia Commonwealth University

Science and Social Justice

Grade: Middle School, High School, Advanced High School/College, Content: STEM
Elizabeth Edmondson, Virginia Commonwealth University
Meredith Kier, College of William and Mary

Empowering Science Ed: Integrating CS for Engaging Learning

Grade: Middle School, Content: Biology/Life Science, STEM
Valerie Fawley, CodeVA
Natalie Rice, CodeVA
Not-for-Profit Exhibitor

Environmental Awareness: Supporting a Path Towards Action

Grade: Elementary, Middle School, Content: Environmental Science, General
Stefany Feldbusch, Blandy Experimental Farm
Emily Ford, Blandy Experimental Farm

Be an A11y Ally: Creating Accessible STEM Classrooms

Grade: Middle School, High School, Content: General
Katie Fielding, Prince William County Schools

STEM Initiatives: A Collaborative Discussion

Grade: All grade levels, Content: STEM
Katie Fielding, Prince William County Schools
Kirsten White, Prince William County Schools

Moon Phases and Tides- Teach the Abstract to Concrete Brains

Grade: Elementary, Middle School, High School, Content: Earth/Space Science, Physics/Physical Science
Thomas Fitzpatrick, Roanoke City Public Schools
Angelo Bonilla, James Breckinridge Middle School
Leslie Barrett, James Breckinridge Middle School

Are you Moody?

Grade: Middle School, High School, Content: Physics/Physical Science, STEM
Michelle Grooms, Texas Instruments Inc
Commercial Exhibitor

Bring It Together: Elementary Engineering Integration

Grade: Elementary, Content: Engineering, STEM
Kristie Gutierrez, Old Dominion University
Jennifer Kidd, Old Dominion University

Marsh Cam Takeover

Grade: All grade levels, Content: Biology/Life Science, Environmental Science, General
Courtney Hallacher, Virginia Department of Wildlife Resources
Not-for-Profit Exhibitor

Teaching Beyond the Text: Integrating Arts and Literacy

Grade: Elementary, Middle School, High School, Content: Earth/Space Science, Biology/Life Science, General
Christina Hannaman, Gayle Middle School- Stafford County Public Schools
Alyssa Scrubb, Gayle Middle School - Stafford County Public Schools

Experiencing Biology through Interactive Learning

Grade: High School, Advanced High School/College, Content: Biology/Life Science
Patrick Hardner, Turner Ashby High School

Gifted Learners in the Science Classroom

Grade: All grade levels, Content: Science Education for All
Debra Hicks, Kilgore Gifted Center

Pre-service and Early Career Teacher Lunch

Grade: Advanced High School/College, All grade levels, Content: Pre-service/early career
Robbie Higdon, VAST Colleges and Universities Chair

Building the Future of Science Education

Grade: Advanced High School/College, All grade levels, Content: Pre-service and early career
Robbie Higdon, VAST Colleges and Universities Chair
Elizabeth Edmondson, Virginia Commonwealth University

Colleges and Universities Roundtable

Grade: Advanced High School/College, Content: General
Robbie Higdon, VAST Colleges and Universities Chair

Three Programs to Integrate Environmental Ed in Your Classroom

Grade: All grade levels, Content: Biology/Life Science, Environmental Science
Krista Hodges, Dan River Basin Association
Regina Flora, Dan River Basin Association

Cross Circular Connections with Colonial Williamsburg

Grade: All grade levels, Content: Cross-Curricular Connections
Rachel Honchul, Colonial Williamsburg Foundation
Brandon Lyles, Colonial Williamsburg Foundation

Integrating Organic Gardening into Atmospheric Science

Grade: All grade levels, Content: Earth/Space Science, Biology/Life Science
Richard Howell, Tabb High School

School Science Safety - Practical Guidelines

Grade: All grade levels, Content: General
Andrew Jackson, Harrisonburg City Schools - retired

Infusing Environmental Action Civics into Your Curriculum

Grade: Elementary, Middle School, High School, Content: Biology/Life Science, Environmental Science, STEM
Sarah Jennings, Earth Force
Sheri Sharwarko, Jamestown Elementary School

CVCSI Team- Core Content Plans to Help You Integrate CS

Grade: Elementary, Middle School, Content: All K-8 teachers
Allison Kappler, Bedford County Public Schools

Nothing is Random: Weathering, Erosion, Provinces, & The Bay

Grade: All grade levels, Content: Earth/Space Science, Environmental Science
Chris Kaznosky, Central High School, Shenandoah County
Steve Leslie, James Madison University Geology Department

A Quick Chemistry Grab Bag

Grade: High School, Content: Chemistry
James Key, Huguenot High School

Using a Simulation, PEWI, to Experience Watershed Ecosystems

Grade: Middle School, High School, Content: Earth/Space Science, Biology/Life Science, Environmental Science
Suzanne Kirk, Virginia Commonwealth University
Elizabeth Edmondson, Virginia Commonwealth University
Al Byers, Virginia Commonwealth University

Making Biology Lessons More Active!

Grade: Middle School, High School, Content: Biology/Life Science
Julia Kogut, John Handley High School
Marisa George, John Handley High School
Kelly Huynh, John Handley High School
Emilia Guirguis, John Handley High School

Building Critical Thinkers that are Prepared for the Future

Grade: Elementary, Middle School, Content: Biology/Life Science, Environmental Science
Leslie Lausten, School Specialty - FOSS
Commercial Exhibitor

Getting Started with Anchor Phenomena in FOSS Elementary

Grade: Elementary, Content: General
Leslie Lausten, School Specialty - FOSS
Commercial Exhibitor

Knock Down the Silos: Outdoor Science Learning and Literature

Grade: All grade levels, Content: Science supports language arts
Lillian Ledford, University of Virginia
Emily Ford, University of Virginia

The Life of a Monarch Butterfly (PBL)

Grade: High School, Content: Environmental Science
Carolene Lewis, Westmorland High School
Paris Hickman, Westmoreland High School

Regional STEM PD - Crosspollination Results & Tips

Grade: All grade levels, Content: STEM
Cheryl Lindeman, STEM Consultant
Lani Patrick, Campbell County Public Schools
Allison Kappler, Bedford County Public Schools

Computer Science for Middle School

Grade: Middle School, Content: STEM
Melani Loney, Old Dominion University
Lisa Steffian, Old Dominion University

STEAMing into an Improved School Culture

Grade: Elementary, Content: STEM
Liz Lynch, Patrick Henry Elementary School
Ashley Taylor, Patrick Henry Elementary School
Lizzy Fulcher, Patrick Henry Elementary School
Erica Becker, Patrick Henry Elementary School

Applying for PAEMST: Highlighting Your Teaching

Grade: Elementary, Middle School, High School, Content: General
Gregory MacDougall, Virginia Department of Education
Anne Petersen, Virginia Department of Education
Myra Thayer, Virginia Department of Education

Plan for Learning with the 2018 Science Curriculum Framework

Grade: All grade levels, Content: General
Gregory MacDougall, Virginia Department of Education
Anne Petersen, Virginia Department of Education
Myra Thayer, Virginia Department of Education

Debunking Myths about Engineering

Grade: Elementary, Middle School, Content: Engineering, STEM

Jennifer Maeng, University of Virginia

Amanda Gonczi, Michigan Technological University

A Catalyst for Independent Learners in a Science Classroom

Grade: High School, Advanced High School/College, Content: Chemistry, Instructional Practices

Mithra Marcus, Rock Ridge High School

Heather Cox, Rock Ridge High School

Bottom Up: Introduction of STEM and Navigating Gender Bias

Grade: Elementary, All grade levels, Content: General, STEM

Lizzy Marples, James Madison University

How Student-Driven Inquiry Can Address Climate Justice

Grade: Middle School, High School, Advanced High School/College, Content: Biology/Life Science, Environmental Science

Sandra Marr, Collegiate School

Small Steps to Lead with Phenomena

Grade: All grade levels, Content: General

Jason Marshall, McGraw Hill

Commercial Exhibitor

Exploring Mendelian Inheritance with Labradoodle Genetics

Grade: High School, Advanced High School/College, Content: Biology/Life Science

Katy Martin, miniPCR bio

Commercial Exhibitor

Accessible Gel Electrophoresis for Middle & High School Bio

Grade: Middle School, High School, Content: Biology/Life Science

Katy Martin, miniPCR bio

Commercial Exhibitor

Search for Antibiotic Resistance Genes in Environmental DNA

Grade: High School, Advanced High School/College, Content: Biology/Life Science

Katy Martin, miniPCR bio

Commercial Exhibitor

Design an Experiment for the International Space Station!

Grade: Middle School, High School, Content: Biology/Life Science

Katy Martin, miniPCR bio

Commercial Exhibitor

Coffee Chat with the VAST Content Chairs

Grade: All grade levels, Content: General

David Matchen, VAST Earth Science Content Chair

Tony Wayne, Albemarle High School

Jennifer Sharp, Floyd County High School

Jill Collins, Martinsville City Public Schools

A Report on Teaching Dual-Enrollment Geology in High School

Grade: High School, Content: Earth/Space Science, Environmental Science
David Matchen, VAST Earth Science Content Chair

Hello Science, Meet Creative Arts! (STEAM K-5)

Grade: Elementary, Content: Science and the Arts (STEAM)
Jenna Mercury, ExploreLearning
Commercial Exhibitor

STEM +1: Stirring Literacy into Your Science Lessons!

Grade: Elementary, Content: Science Literacy
Jenna Mercury, ExploreLearning
Commercial Exhibitor

Don't Reinvent the Wheel: The New Virginia SOL standards

Grade: High School, Content: Chemistry
Laura Moffett, Floyd E. Kellam High School

Buffers! Buffers! Buffers!

Grade: High School, Content: Chemistry
Laura Moffett, Floyd E. Kellam High School

Promoting Science Appreciation with #ScienceSaves

Grade: All grade levels, Content: General
Christopher Moran, The Teacher Institute for Evolutionary Science
Therese Whitehurst, The Teacher Institute for Evolutionary Science
Not-for-Profit Exhibitor

Evolution for Middle School Educators

Grade: Middle School, Content: Biology/Life Science
Christopher Moran, The Teacher Institute for Evolutionary Science
Therese Whitehurst, The Teacher Institute for Evolutionary Science

Skull Comparison Lab on a Budget

Grade: High School, Content: Biology/Life Science
Christopher Moran, The Teacher Institute for Evolutionary Science

MineCraft, Engineering, & Biology

Grade: All grade levels, Content: Biology/Life Science, Engineering, STEM
Angela Morris, Henry County Public Schools

Intro to Project Learning Tree's® Forests of the World

Grade: Middle School, High School, Advanced High School/College, Content: Environmental Science, Math in Science, General
Lesley Newman, Project Learning Tree, Virginia Department of Forestry
Ellen Powell, Virginia Department of Forestry
Not-for-Profit Exhibitor

The Shallow End of the Teacher Leader Pool

Grade: Elementary, Middle School, High School, Advanced High School/College, All grade levels, Content: Everyone/Every subject
Heather Overkamp, Portsmouth Public Schools
Dara Brinkman, Portsmouth Public Schools

The Deep End of the Teacher Leader Pool

Grade: All grade levels, Content: Everyone/All levels
Heather Overkamp, Portsmouth Public Schools

Workshop for Teachers that Mentor Students in Research

Grade: All grade levels, Content: Everyone/All levels
Heather Overkamp, Portsmouth Public Schools

Using Solar Energy to Power Learning

Grade: All grade levels, Content: Environmental Science, Engineering, STEM
Remy Pangle, Center for the Advancement of Sustainable Energy at JMU
Meghan Milo, Sun Tribe Solar
Not-for-Profit Exhibitor

Integrating Science Using a Cup, a Tray, and a Great Book

Grade: All grade levels, Content: Math in Science, General, STEM
Lori Pawlik, Colgan High School/Prince William County

"Probing" Chemistry Topics with Texas Instruments

Grade: Middle School, High School, Content: Chemistry
Wendy Peel, Texas Instruments, Inc.
Commercial Exhibitor

Simulations, Data Collection and Assessments Oh My!

Grade: Middle School, High School, Content: Biology/Life Science, Chemistry, Physics/Physical Science
Wendy Peel, Texas Instruments, Inc.
Commercial Exhibitor

More Than Hands On

Grade: Elementary, Middle School, Content: Authentic learning
Karen Perry, Roanoke County Schools

Authentic Learning in the Science Classroom

Grade: Elementary, Middle School, High School, Content: General
Karen Perry, Northside Middle School

VDOE Update

Grade: All grade levels, Content: K-12 Educators
Anne Petersen, Virginia Department of Education
Myra Thayer, Virginia Department of Education
Gregory MacDougall, Virginia Department of Education

The Science Standards of Learning Development and Revision

Grade: All grade levels, Content: K-12 Educators
Anne Petersen, Virginia Department of Education
Myra Thayer, Virginia Department of Education
Gregory MacDougall, Virginia Department of Education

A Bewildering Tale

Grade: High School, Content: Biology/Life Science
Jinx Rasmussen, Virginia High School
Amanda Gardner, Virginia High School

Engaging Strategies for Teaching Forensic Science

Grade: Middle School, High School, Content: Biology/Life Science, STEM
Kaitlyn Ray, Charlottesville High School

Student-Centered Science using SEPs

Grade: Elementary, Middle School, High School, Content: General
Eric Rhoades, Retired

The Genetics of Education

Grade: All grade levels, Content: Psychology/Behavioral Genetics
Bryan Rhodes, Reynolds Community College

Performance Tasks for Elementary Science

Grade: Elementary, Content: Assessment/Performance Tasks
Kimberly Rice, Five Ponds Press
Commercial Exhibitor

Performance Tasks for Middle School Science

Grade: Middle School, Content: Assessment/Performance Tasks
Kimberly Rice, Five Ponds Press
Commercial Exhibitor

Tackling Misinformation

Grade: All grade levels, Content: Biology/Life Science
Erin Rierson, Rustburg High School
Jamie Banton, Rustburg High School

It's Phenomenal! Real-World Science to Support 3D-Learning

Grade: Middle School, High School, Advanced High School/College, Content: Earth/Space Science, Biology/Life Science, Physics/Physical Science
Steven Romano, Savvas Learning Company
Commercial Exhibitor

Amplifying Instruction to Reach ELs in the Science Classroom

Grade: Elementary, Middle School, High School, Content: General
Alexis Rutt, University of Mary Washington
Erich Sneller, Harrisonburg City Public Schools

Empowering Student's Scientific Literacy with C-E-R

Grade: Elementary, Middle School, Content: Scientific Literacy
Jennifer Saleeba, Rocky Mount Elementary
Lisa Angell, Ferrum Elementary

A Creative Project Using Research & Data to Use the 5 C's

Grade: All grade levels, Content: Biology/Life Science
Patrick Scharf, Louisa County Public Schools

Unraveling Chromosomes Through Modeling

Grade: High School, Advanced High School/College, Content: Biology/Life Science
Alice Scheele, 3D Molecular Designs
Commercial Exhibitor

Lets Get Interactive! Are Science Notebooks for You?

Grade: High School, Advanced High School/College, Content: Biology/Life Science, Chemistry, General
Alice Scheele, Patrick Henry High School
Bryan Buckalew, Patrick Henry High School
Jennifer Falin, Louisa High School

Do You Teach AP? Lets Learn How the CRR Can Help

Grade: Advanced High School/College, Content: Biology/Life Science, Environmental Science, Physics/Physical Science
Alice Scheele, Patrick Henry High School

Getting Real to Get Better: Rebuilding Rigor and Rapport

Grade: Middle School, High School, Content: Biology/Life Science
Kristin Scheible, Massaponax High School

Teaching Chemistry Lab Skills - Inexpensively and Quickly!

Grade: Middle School, High School, Content: Chemistry
Jen Sharp-Knott, Floyd County High School

AI-Driven Mock Classroom Science Fair

Grade: All grade levels, Content: General, STEM
Demetrice Smith-Mutegi, Old Dominion University
Matthew McConnell, Old Dominion University
Tamu Crisden, Old Dominion University

Pipette Micro Rockets

Grade: High School, Advanced High School/College, Content: Chemistry, Math in Science, STEM
Erich Sneller, Harrisonburg City Public Schools
Suzie Smith, Harrisonburg City Public Schools

Insights from Human Remains: East Marshall Street Well Proj

Grade: High School, Advanced High School/College, Content: Chemistry
Tori Solano, Virginia Commonwealth University
Tal Simmons, Virginia Commonwealth University
Elizabeth Edmondson, Virginia Commonwealth University

Collaborative Elementary Curriculum Design

Grade: Elementary, Content: Elementary Science
Tammy Stone, Rockingham County Public Schools
Carrie Lillard, Mountain View Elementary School
Allison Mendenhall, John C Myers Elementary School
Miranda Lyle, John Wayland Elementary School

Inspiring Innovators

Grade: Middle School, High School, Advanced High School/College, Content: Earth/Space Science, Chemistry, Environmental Science
Rachel Stuart, Eastern View High School
Heather Glick, Eastern View High School

Forms of Energy & Energy Transformations Interactive Lessons

Grade: Elementary, Middle School, High School, Content: Chemistry, Physics/Physical Science, General
Kimberly Swan, National Energy Education Development Project
Not-for-Profit Exhibitor

Exploring Marine Hydrokinetics

Grade: High School, Content: Environmental Science, Physics/Physical Science, Engineering
Kimberly Swan, National Energy Education Development Project
Not-for-Profit Exhibitor

Kinematics as the Mathematics of Time-dependence

Grade: All grade levels, Content: Physics/Physical Science, Math in Science
Tatsu Takeuchi, Virginia Tech Department of Physics

Making Meaningful Connections CS Curriculum Integration

Grade: Elementary, Middle School, Content: General
Keisha Tennessee, Virginia Department of Education
Kim Wilkens, Tech-Girls

What Do I Do About Vocabulary?

Grade: All grade levels, Content: General
Myra Thayer, Virginia Department of Education
Anne Petersen, Virginia Department of Education
Gregory MacDougall, Virginia Department of Education

Gotta Talk: How to Facilitate Productive Classroom Talk

Grade: All grade levels, Content: General
Myra Thayer, Virginia Department of Education
Anne Petersen, Virginia Department of Education
Gregory MacDougall, Virginia Department of Education

Swimming with the Fishes: Effects of Climate on Fish

Grade: Elementary, Content: Earth/Space Science, General
Matthew Thayer, CBNERR/VIMS
Sarah Nuss, CBNERR/VIMS
Anna Caputo, CBNERR/VIMS

Science Teaching Revisited: The STEM Clinical Experience

Grade: Elementary, Middle School, High School, Content: Math in Science, General, STEM
Kianga Thomas, Norfolk State University
Shafeeq Ameen, Norfolk State University

Increasing Student Participation in Independent Research

Grade: High School, Advanced High School/College, Content: General, STEM
Matthew (Matt) Togna, Collegiate School

A Breath of Fresh Air

Grade: All grade levels, Content: Environmental Science
Melinda VanDevelder, Virginia Commonwealth University School of Education

Beguiling Biology

Grade: Middle School, High School, Content: Biology/Life Science
Melinda VanDevelder, Virginia Commonwealth University School of Education
Colleen Joseph, Petersburg High School

Inquisitive - The 5e Model Comes to life in K-5 Classrooms

Grade: Elementary, Content: Earth/Space Science, Biology/Life Science, Physics/Physical Science
Peter Walters, Inquisitive
Commercial Exhibitor

Zero- Gravity- Taking Your Classroom to the Next Level

Grade: Middle School, High School, Content: Earth/Space Science, Math in Science, STEM
Cindy Watson, Bedford County Public Schools/Forest Middle School

Laparoscopic Surgery Simulation in Your Classroom

Grade: All grade levels, Content: Biology/Life Science, Chemistry, STEM
Cindy Watson, Bedford County Public Schools/Forest Middle School

Bernoulli, Pressure and more -Demonstrations for class.

Grade: High School, Content: Physics/Physical Science
Tony Wayne, Albemarle High School

Get Involved with the Journal of Virginia Science Education!

Grade: All grade levels, Content: General
Angela Webb, James Madison University
Joi Merritt, James Madison University

Using Talk as Tool for Learning in High School Science

Grade: High School, Content: General
Angela Webb, James Madison University

Experiencing Science as a Language Learner

Grade: All grade levels, Content: General
Angela Webb, James Madison University
Emily Stewart, James Madison University

How Students can L.E.A.R.N. Science the Fun Way!

Grade: Elementary, Middle School, Content: STEM
Joselyn Whetzel, Legends of Learning
Commercial Exhibitor

Repairing the Climate System's Yellow Brick Road

Grade: All grade levels, Content: Earth/Space Science, Environmental Science, Physics/Physical Science
John White, U.S. Gov't - Meteorologist
Laurie Ashworth, Pittsylvania County Schools

"I Love Teaching, but I Just Need a Break"

Grade: All grade levels, Content: STEM
Jessica White, Hampton City Schools/ Regent University

Transdisciplinary Learning through Artifact Conservation

Grade: Middle School, High School, Advanced High School/College, Content: Chemistry, Engineering, STEM
Rachel White, Landstown High School STEM Academy VBCPS
Megan Wong, Landstown High School STEM Academy VBCPS
Laura Newsham, Landstown High School STEM Academy VBCPS

STEM Majors in Sustainability, Environment, & Conservation

Grade: High School, Advanced High School/College, Content: Biology/Life Science, Environmental Science, STEM
John Gray Williams, Virginia Tech - College of Natural Resources and Environment
Not-for-Profit Exhibitor

If I Built a Solar Powered House ...

Grade: Elementary, Content: Environmental Science, Engineering, STEM
Laurie Witt, Martinsville City Public Schools

Elementary Teachers and STEM Teachers Coffee Talk

Grade: Elementary, Content: Environmental Science, General, STEM
Laurie Witt, Martinsville City Public Schools

Using Bloom's Taxonomy and Webb's DoK to Increase Rigor

Grade: All grade levels, Content: Earth/Space Science, Environmental Science, General
Tabatha Zarkauskas, Prince William County Public Schools