



November 9, 2018

Colorado Science Conference

PRESENTATIONS AT-A-GLANCE*

Session 1: 8:00-8:55

Seeking a Solution for STEM? Come meet the Solution Seekers at Shepardson STEM Elementary

Becky Woodcox

Shepardson STEM Elementary

Focus: General Science

Audience: General Elementary (K-6)

Room: H 40-46

Enhance Science Learning through Literacy Strategies

Beverly DeVore-Wedding

Focus: General Science

Audience: General

Room: G 30-36

Making Science Fun Again!

Cassie Whitecotton

Educational Consultant

Focus: General Science

Audience: Middle / High School

Room: J 41-47

Circular Motion Activities and Experiments For Your Physics Classroom!

Cherie Bornhorst

Focus: Physics

Audience: High School

Room: H 30-38

Using Bugs to Determine Local Water Quality

Jenny Daily

Highlands Ranch High School

Focus: Life Science/Biology

Audience: High School

Room: K 35-39

The Thrills of Roller Coaster Design

David Beier

Independent

Focus: Physical Science

Audience: Middle / High School

Room: H 39-45

Challenge and Engage all learners: personalized learning in a Physics classroom

Emilie Cross

Smoky Hill High School

Focus: Physics

Audience: Middle / High School

Room: K 49-53

Thinking SPACE-ially! Satellite Imagery meets Problem-Based Learning for ALL!

Heidi Ragsdale

West Middle School

Focus: General Science

Audience: General

Room: J 40-46

Fun Strategies for Formative Assessment Using Emojis, Hashtags, and Super Heroes in grades 3-8 Science!

Kathy Reeves

Scientific Minds, LLC

Focus: General Science

Audience: Elementary (3-6)

Room: H 31-37

Bring Science and Math Together Using.....ZOMBIES?!?!

Jeff Lukens

Retired Science Teacher

Focus: General Science

Audience: Middle / High School

Room: J 31-39

The Three Dimensions in the Classroom: Using Lab Experiences to Transform Instruction

Dr. Victor Sampson

Argument-Driven Inquiry

Focus: General Science

Audience: General

Room: H 48-52

NGSS Chemistry: Inquiry Labs to Support Core Ideas, Scientific Practices and Crosscutting Concepts

Ed Waterman

Rocky Mountain High School

(Retired)

Focus: Chemistry

Audience: High School

Room: J 49-53

Navigate the Newly Revised Colorado Academic Standards for Science

Joanna Bruno

Colorado Department of Education

Focus: General Science

Audience: General

Room: J 30-38

Renew Our Schools nationwide energy competition

Katherine Croasdale

Resource Central

Focus: Environmental Science

Audience: Middle School

Room: G 38-44

Reciprocal Integrated Learning Ecosystems

Janelle Johnson

MSU Denver

Focus: Other

Audience: Supervision/Administration

Room: K 41-47

Human Orrery

Mary Gregory

Lewis Palmer High School

Focus: Earth/Space Science

Audience: General

Room: G 31-37

***Please Note:**

Sessions & room numbers
may change

Session 2: 9:10-10:05

The Effect of Creative Assessments on High School Students' Learning

Angela Cannava

Northfield High School

Focus: General Science

Audience: Middle / High School

Room: F 30-36

Transplantation Science - A FREE Hands-on Workshop for Students

Anne Gaspers

Donor Alliance

Focus: Life Science/Biology

Audience: Middle / High School

Room: J 41-47

3-D isn't just for printing!

Beverly DeVore-Wedding

Focus: General Science

Audience: General

Room: G 30-36

The Drone Mission Board Game and Hands-on Activities for Engineering Education

Randy Russell

UCAR Center for Science Education

Focus: Technology Education

Audience: Middle / High School

Room: G 39-45

Hands-On Anatomy Lab: Building Body Systems In Clay

David Mack

www.anatomyinclay.com

Focus: Life Science/Biology

Audience: High School / College

Room: K 41-47

Argument-Driven Inquiry in Grades 3-5

Dr. Victor Sampson

Argument-Driven Inquiry

Focus: Physical Science

Audience: Elementary (3-6)

Room: H 48-52

Essential AP Chemistry Teaching Materials

Ed Waterman

Rocky Mountain High School (Retired)

Focus: Chemistry

Audience: High School

Room: J 49-53

STEM-ulating Activities on Human Ecology

Eugene Kutscher

Population Connection

Focus: Environmental Science

Audience: Middle School

Room: G 47-53

The CU Boulder Museum's Fossils in the Classroom Project: The Hands-on Study of Fossils

James Hakala

University of Colorado Museum

Focus: Earth/Space Science

Audience: Elementary (3-6)

Room: J 31-39

Navigate the Newly Revised Colorado Academic Standards for Science

Joanna Bruno

Colorado Department of Education

Focus: General Science

Audience: General

Room: J 30-38

Get Students Talking! Resources and Strategies for Supporting Student Discussions

Kathryn Fleegal

DenverPublicSchools

Focus: Other

Audience: General

Room: H 39-45

MSU Denver Noyce U-STEM Panel

Nicole Cozzi

MSU Denver

Focus: Other

Audience: College

Room: K 35-39

Early Childhood Robotics

Lindsay Craig

QuestBotics Inc.

Focus: Technology Education

Audience: Elementary (K-2)

Room: J 40-46

Improvisational Theater Exercises to Promote Students' Science Communication and Collaboration Skills

Megan Littrell

CIRES Education & Outreach

Focus: Environmental Science

Audience: High School

Room: G 38-44

Make Scale Drawings of the Solar System and Geologic Time

Michael Johnson

Focus: Earth/Space Science

Audience: General

Room: K 49-53

Raising the Bar in an Alternative Setting

Nadene Klein

D.C. Oakes High School

Focus: General Science

Audience: Middle / High School

Room: H 31-37

Using Children's Literature to Inspire STEM Learning K-5

Kim Stilwell

NSTA

Focus: General Science

Audience: General Elementary (K-6)

Room: H 40-46

Superhero, Villain and Monster Cells. Oh my!

Pam McWilliams

Littleton Public Schools

Focus: Life Science/Biology

Audience: Middle / High School

Room: H 30-38

What's the Big Deal with Radon?

Chris Nichols

Focus: Physical Science

Audience: Middle/ High School

Room: J 48-52

Little Shop of Physics Presents: A Warm Planet in a Cold Universe Activities for teaching about climate & climate change

Sheila Ferguson

Colorado State University

Focus: Physical Science

Audience: General

Room: G 46-52/H 47-53

Are Earth's plates really moving? Explore Earth science data to explore and quantify plate motions

Shelley Olds

UNAVCO

Focus: Earth/Space Science

Audience: Middle / High School

Room: G 31-37

Session 3: 12:15-1:10

The Science of Science Fiction - Using Pop Culture to make Science Accessible

Anthony Scott
Greeley West High School

Focus: General Science

Audience: General

Room: G 38-44

Science Alphabet Soup: STEM ... PBL ... 4 C's ... 5 E's ... 3 D's ... Spell Success for Kids!

Becky Woodcox
Shepardson STEM Elementary

Focus: General Science

Audience: General Elementary (K-6)

Room: H 40-46

Professional Learning Communities for Linguistically Responsive Science

Chris Carson
University of Colorado, Denver

Focus: General Science

Audience: General

Room: G 31-37

Argument-Driven Inquiry in the Middle School Classroom

Dr. Victor Sampson
Argument-Driven Inquiry

Focus: General Science

Audience: Middle School

Room: H 48-52

Amazing NGSS activities that will be phenomenal for your high school classroom

Damon Smerchek
Houghton Mifflin Harcourt

Focus: General Science

Audience: High School

Room: G 30-36

The Answer is Blowin' in the Wind

David Beier
Independent

Focus: Environmental Science

Audience: Middle / High School

Room: H 39-45

Engaging Activities from ChemEd X

Deanna Cullen
ChemEd X

Focus: Chemistry

Audience: High School

Room: K 49-53

Integrated STEM for the Primary Years

Dorothy Shapland
Metropolitan State University of Denver

Focus: Other

Audience: Elementary (K-2)

Room: F 30-36

What's New from the Perimeter Institute?

Chris Nichols
Focus: Physics

Audience: High School

Room: J 48-52

Tablet-Based Earth Science Data Visualizations in the Classroom

Eric Hackathorn
National Oceanic and Atmospheric Administration (NOAA)

Focus: Technology Education

Audience: Middle / High School

Room: G 39-45

Show What You Know With Video

Eric Rasmussen
Erie High School

Focus: Other

Audience: General

Room: J 49-53

Destination Mars!

Heidi Ragsdale
West Middle School

Focus: Earth/Space Science

Audience: General

Room: J 40-46

STEM21: Equity in Teaching and Learning to Meet Global Challenges of Standards, Engagement and Transformation

Janelle Johnson
MSU Denver

Focus: Other

Audience: General

Room: K 41-47

Canned Data?! Not in The STEM House!

Jeff Lukens
Retired Science Teacher

Focus: General Science

Audience: Middle / High School

Room: J 31-39

Peer Instruction in High School Biology Classrooms

Jennifer Parrish
University of Northern Colorado

Focus: Life Science/Biology

Audience: High School / College

Room: J 41-47

Interactive Notebooking and Fold-it Templates for Grades 3-8 Science!

Kathy Reeves
Scientific Minds, LLC

Focus: General Science

Audience: Elementary (3-6)

Room: H 31-37

Incorporating Action into Environmental Science

Katie Navin
Colorado Alliance for Environmental Education

Focus: Environmental Science

Audience: General

Room: H 30-38

Enhancing STEM though Spatial Understandings

Mary Jo Pollman
Metropolitan State University

Focus: General Science

Audience: Elementary (K-2)

Room: K 35-39

3D Printing: Bringing Models to the STEM Classroom

Nadene Klein
D.C. Oakes High School

Focus: General Science

Audience: Middle / High School

Room: G 47-53

Science Experiment Ideas

Neva Nardone
eleSTEMary and UNC

Focus: General Science

Audience: General Elementary (K-6)

Room: J 30-38

Elementary Science Make and Take

Teresa Higgins
UNC

Focus: General Science

Audience: General Elementary (K-6)

Room: G 46-52/H 47-53

Session 4: 1:55-2:50

Using Games to Energize your Chemistry Classroom

Beth Kochevar

Sand Creek High School

Focus: Chemistry

Audience: Middle / High School

Room: H 40-46

Quest Tower

Lindsay Craig

QuestBotics Inc.

Focus: Technology Education

Audience: Elementary (3-6)

Room: J 40-46

Getting Down and Dirty with Physics

Cassie Whitecotton

Educational Consultant

Focus: Physics

Audience: Middle / High School

Room: J 41-47

National Geographic's Geo-Inquiry Process in Action

Chris Hines

National Geographic Society

Focus: Environmental Science

Audience: Middle School

Room: G 39-45

Modeling Changes on the Earth's Surface

Deborah Linscomb

Carolina Biological

Focus: Earth/Space Science

Audience: Elementary (3-6)

Room: H 30-38

Argument-Driven Inquiry in the High School Classroom

Dr. Victor Sampson

Argument-Driven Inquiry

Focus: General Science

Audience: High School

Room: H 48-52

Can Your Students Handle the Truth? Cultivating Critical Thinking Skills to Combat Fake News

Eric Rasmussen

Erie High School

Focus: Other

Audience: General

Room: J 49-53

Engage Your Students Through International Collaboration

Heather Berry

Highlands Ranch High School

Focus: General Science

Audience: Middle / High School

Room: K 49-53

Inclusive STEM Professional Development with Pre and Inservice Teachers: A Flood of Ideas

Janelle Johnson

MSU Denver

Focus: Earth/Space Science

Audience: General

Room: K 41-47

Infect Your Science Classroom with Math

Jeff Lukens

Retired Science Teacher

Focus: General Science

Audience: Middle / High School

Room: J 31-39

Returning Native Plants and Pollinators to the Classroom

Jen Bousset

Colorado Native Plant Society

Focus: Life Science/Biology

Audience: Middle / High School

Room: K 35-39

Empowering Climate Understanding and Action

Jennifer Taylor

CIRES Education & Outreach

Focus: Environmental Science

Audience: Middle / High School

Room: G 38-44

Elementary Engineering

Beverly DeVore-Wedding

Focus: General Science

Audience: General Elementary (K-6)

Room: G 30-36

3-Dimensional Learning in Science Education

Joanna Bruno

Colorado Department of Education

Focus: General Science

Audience: General

Room: J 30-38

How to use local anchoring phenomena to drive lesson series

Kathryn Fleegal

DenverPublicSchools

Focus: General Science

Audience: General

Room: H 39-45

Engineering Scientific Understanding

Jess Noffsinger

STEM Magnet Lab

Focus: Other

Audience: Middle / High School

Room: G 47-53

STEM on a Shoestring

Monnie Barrett

Science Matters in America

Focus: General Science

Audience: General Elementary (K-6)

Room: J 48-52

Using a "Solo" to Connect to the Real World

Nadene Klein

D.C. Oakes High School

Focus: General Science

Audience: General

Room: H 31-37

Rocks and Minerals in Our Food

Richard Beach

Minerals Education Coalition, Colorado Section, Society for Mining, Metallurgy & Exploration

Focus: Earth/Space Science

Audience: Middle / High School

Room: G 31-37

Development of a Stem Classroom. From Genius Hour to, "What IF?"

Rob Funk

Sagewood Middle School

Focus: Other

Audience: General

Room: F 30-36

30 Demos in 50 Minutes

Rob Reinsvold

University of Northern Colorado

Focus: General Science

Audience: General

Room: G 46-52/H 47-53

Session 5: 3:05-4:00

Chemistry Escape Classroom

Beth Kochevar

Sand Creek High School

Focus: Chemistry

Audience: Middle / High School

Room: H 40-46

Cannabis in the Classroom- Where Does it Fit?

Caren Kershner

Retired

Focus: General Science

Audience: Middle / High School

Room: J 40-46

Amazing NGSS activities that will be phenomenal for your K-6 classroom

Damon Smerchek

Houghton Mifflin Harcourt

Focus: General Science

Audience: General Elementary (K-6)

Room: G 30-36

Energy in Action - How Does Energy Move and Change?

Deborah Linscomb

Carolina Biological

Focus: Physical Science

Audience: Elementary (3-6)

Room: H 30-38

3 Easy Steps to Improve Every Evolution Lesson

Sandra Weeks

Rocky Mountain High School

Focus: Life Science/Biology

Audience: Middle / High School

Room: J 48-52

Together Everyone Achieves More

Pat Dickerson

Falcon Creek Middle School

Focus: Other

Audience: Middle School

Room: J 49-53

CLEAN & NGSS

Katie Boyd

CIRES

Focus: Earth/Space Science

Audience: Middle / High School

Room: J 31-39

Are your students in the "mood" for science?

Judy Hicks

retired

Focus: Technology Education

Audience: Middle / High School

Room: G 31-37

Working with Pre-Service Teachers

Stephanie Fanselow

University of Northern Colorado

Focus: Other

Audience: General

Room: K 35-39

eleSTEMary and the Engineering Design QUEST

Neva Nardone

eleSTEMary and UNC

Focus: General Science

Audience: General Elementary (K-6)

Room: J 30-38

Implementing NGSS for Engagement, Equity, and Agency

Shannon Wachowski

Platte Valley High School

Focus: General Science

Audience: Middle / High School

Room: H 48-52

Critical Creativity

Pam McWilliams

Littleton Public Schools

Focus: Life Science/Biology

Audience: Middle School

Room: H 31-37

De-extinction - Blending Scientific Discovery and Moral Implications of Genetic Engineering

Heather Berry

Highlands Ranch High School

Focus: Life Science/Biology

Audience: High School

Room: K 49-53

The Engineering Design Process, the 5E Learning Model, and Writing in the Elementary Classroom

Ingrid Carter

Metropolitan State University of Denver

Focus: General Science

Audience: General Elementary (K-6)

Room: J 41-47

Ice, Ice, Baby: An Integrated 3D Storyline Unit for Middle School Science using Instant Ice Packs

Kathryn Fleegal

DenverPublicSchools

Focus: Physical Science

Audience: Middle School

Room: H 39-45

Preservice Teachers in the Peruvian Amazon: Enhancing Science Teaching & Learning

Janelle Johnson

MSU Denver

Focus: Environmental Science

Audience: Middle / High School

Room: K 41-47

Meeting Science Standards with Wireless Data Collection and Analysis with PASCO Technology

Rosario Rodolfo

PASCO scientific

Focus: General Science

Audience: Middle / High School

Room: G 38-44

Join Colorado Parks and Wildlife for a Special Archery Session, 12:00-2:00 pm

Audience: All ability levels welcome!

Room: Exhibit Hall

Session is designed for you to drop by any time between 12:00-2:00 pm