

# UTSTA NEWSLETTER

UTAH SCIENCE TEACHERS ASSOCIATION



December 2020

Check out the message from President Maggie Huddleston [here!](#)

## December 3rd Virtual Conference Presenters

### Introducing Presenters

K Nate Barholomew- Using Nearpod to Support Student Lead Sense-making of Phenomena

1-Annette Nielson - Standards 1.3.2 & 1.3.3 How to engage your 1st graders in 3D investigations to make sense of light.

2-Rachael Coleman - Changes of Matter 2.3.4

3-Emily Tuckett -Getting Handsy-How to use everyday materials to take your science to the next level.

4-Lynn Gutzwiller - Crash 4.2.2

5-Britney Manderino -

6-Nich Hoffman - Online & Virtual Resources for Teaching Elementary/Middle School Astronomy

7-Madlyn Larson - Understanding Natural Processes Through A 150 Million Year Old Mystery

8-Emily Harward - Scaffolding argumentation and explanations for student engagement

ESS-Amy Pace - Let's Focus on the Weather

Chem-Brett Moulding - Engaging Students in Science Investigation Using GRC

Bio-April Thompson-Genetic Disorders and Evolution

Phys-Adam Johnston-The Nature of Waves and Particle Analog and Digital: Modeling, Arguing, and Communicating



## Looking for SEEd Lessons?

UtSTA Virtual Conference

### Cultivating SEEd in Diverse Environments

4 Sessions dedicated to SEEd Lessons

Dec. 3, Jan 21, March 18, April 1st

Register at [utsta.org](http://utsta.org)



Drawing for prizes

Thanks to Day Scott Photography

## Cultivating SEEd In Diverse Environments

Brett Moulding

Engaging Students in Science Investigation Using GRC

January 7, 2021 @ 4:00

**This session provides teachers with ways to productively engage students in 3-Dimensional Science Investigations.**

**We will discuss how to use science phenomena to initiate science instruction and how to structure instruction to motivate students to learn.**



REGISTER AT  
[UTSTA.ORG](http://UTSTA.ORG)



### USBE Science Listserv

The USBE Science listservs are being updated to make them more focused on grade bands, elementary and secondary. The change will be starting December 1st and the

old list serves will be discontinued. Please sign up for the one that fits your situation.

The Science Listservs are designed for Science Teachers at two different levels:

- Elementary Science - <https://lists.uen.org/mailman/listinfo/science-elem>
- Secondary Science - <https://lists.uen.org/mailman/listinfo/science-sec>

If you have any questions, please contact one of these great people.

Melissa Mendenhall  
Elementary Science/STEM Specialist  
[melissa.mendenhall@schools.utah.gov](mailto:melissa.mendenhall@schools.utah.gov)

Ricky Scott  
Secondary Science Education Specialist  
[richard.scott@schools.utah.gov](mailto:richard.scott@schools.utah.gov)

# 3-D Thursdays!

**"Three-Dimensional" Series for K-12 Rural Educators**

Professional Development   Networking   NGSS Connections

## First Thursdays of Each Month

### Upcoming: Dec. 3<sup>rd</sup> at 7:00 pm Central Time

With hosts Rachael Arens and Michael Guarraia, Albert Einstein Distinguished Educators Fellows at NASA

*Join us for a freestyle conversation and workshop with NASA partners from GLOBE Observer and WGBH/PBS Learning Media: Bringing the Universe into America's Classrooms! You'll gain access to free NASA resources and learn new skills to bring engaging citizen science projects into your classroom.*

### Special Guests



#### **Dr. Russanne (Rusty) Low:** **GLOBE Observer**

Dr. Rusty Low is the Senior Earth Scientist for Education and Public Outreach, Institute for Global Environmental Strategies. Dr. Low has worked with GLOBE since 2001 in several capacities and now serves as lead scientist responsible for the development of GLOBE's new eTraining program. She is also Workgroup Lead for development of GLOBE Observer protocols for Biosphere and Hydrosphere. Trained as a Holocene paleoecologist, she has a strong interest in the human dimensions of global change, past, and present. Dr. Low will introduce GLOBE Observer's Land Cover app-based tool to involve K-12 students in Citizen Science projects.

#### **WGBH/PBS: Bringing the Universe to America's Classroom**

WGBH in collaboration with NASA presents digital media resources you can use to teach topics in K-12 Earth and Space Science. These free resources are organized into four grade bands. Each resource emphasizes engaging students in phenomena related to core ideas and science and engineering practices of the Next Generation Science Standards.

BRINGING THE UNIVERSE TO AMERICA'S CLASSROOMS



PRODUCED BY WGBH IN COLLABORATION WITH NASA

Register at: <https://forms.gle/99TG84J6E72jgw2K8>

Space is limited, sign up now!

## Online-Endorsement Courses Starts Jan 7, 2021. Register Now

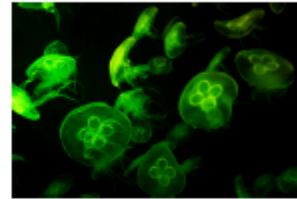
Register @ [utsta.org](http://utsta.org) Endorsment tab



Meteorology.



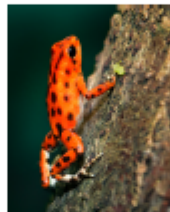
Physics 1



Biology.



Geology.



Zoology.



Biochemistry.



Astronomy.



Chemistry 1



Lab Safety



Anatomy.

Evolutionary Bio



ALL SCIENCE TEACHERS SEEKING ENDORSEMENTS. THE COURSES START ON JAN 7TH IN AN ONLINE SETTING. TEACHERS CAN MAKE TIME IN THE WEEK WHEN IT WORKS FOR THEM. EACH COURSE IS SETUP ON A 12 WEEK SCHEDULE AND REQUIRE BETWEEN 4-6 HOURS A WEEK. EVERY WEEK INCLUDES FOUR MODULES: CONTENT LEARNING, DISCUSSION, CLASSROOM APPLICATION, AND A WEEKLY WRAP-UP ASSIGNMENT. TOTAL COST IS \$500 FOR UTSTA MEMBERS. CONTACT YOUR DISTRICT FOR POSSIBLE REIMBURSEMENT OF \$500.00.

## Face-to-face Endorsement

# Summer 2021

Possible reimbursement from your district or charter school. Register by week before class.



Physics 1 & 2



Astronomy



Chemistry 1



Advanced Phys

REGISTER AT  
UTSTA.ORG



Physical Geology



Science Methods



ALL SCIENCE TEACHERS SEEKING ENDORSEMENTS. The courses start dates vary. Go to [utsta.org](http://utsta.org) to learn more. Content learning, Discussion, Classroom Application, and a weekly wrap-up assignment. Total cost is \$500 for UtSTA Members. Contact your District for possible reimbursement of \$500.00.

## THIRD ANNUAL AWARD

The Governor's  
Office of Energy  
Educator Award



A collaboration between the Governor's Office  
of Energy Development and UtSTA

- How do you focus on Energy in your classroom?
- Tell us about your natural resources activities.
- Do you encourage careers in STEM Energy?
- \$500 award and trophy
- Presented at Governors Energy Summit 2021
- Must be UtSTA member
- [Apply at https://tinyurl.com/EnergyAward2021](https://tinyurl.com/EnergyAward2021)

**Application due Jan. 5, 2021**  
**apply at [utsta.org](http://utsta.org)**

## **Energy in the Classroom**

PROFESSIONAL DEVELOPMENT FOR ELEMENTARY TEACHERS (GRADES 4-6)

### **WHEN AND WHERE**

February 23, 2021

8 a.m. to 3 p.m.

**Jordan Applied Technology Center — North Campus**

9301 S Wights Fort Rd.

West Jordan, UT 84088

### **COST**

\$30

Register at [utsta.org](http://utsta.org).

### **YOU'LL RECEIVE**

\$150 worth of materials

\$100 stipend for a sub

Access to 30+ SEEd Lessons – 3D

Seven hours of relicensure

### **LESSONS**

Core Drilling

Patterns in Minerals

Solar Power Challenge

Transporting Oil

Physical Change

Natural Gas: Density

Discover more lesson plans at [energy.utah.gov](http://energy.utah.gov). For more information, contact Dawn Monson at [dmonson@utsta.org](mailto:dmonson@utsta.org).



UTAH GOVERNOR'S OFFICE OF  
**ENERGY DEVELOPMENT**



# Energy in the Classroom

PROFESSIONAL DEVELOPMENT FOR ELEMENTARY TEACHERS (GRADES 4-6)

## WHEN AND WHERE

March 16, 2021

8 a.m. to 3 p.m.

### SUU STEM Center

351 W University Blvd.

Cedar City, UT 84720

## COST

\$30

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# Energy in the Classroom

PROFESSIONAL DEVELOPMENT FOR SECONDARY ED TEACHERS (GRADES 7-12)

## WHEN AND WHERE

February 25, 2021

8 a.m. to 3 p.m.

**Jordan Applied Technology Center — North Campus**

1000 S. Westfield Blvd.

9301 S WIGHTS FORT RD.  
West Jordan, UT 84088

### **COST**

\$30

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### **LESSONS**

Transporting Natural Gas

Digging into Renewables

Combustion Process

Peltier Plates

Batteries

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## Want More Science News?

Follow the [State Science Blog](#)! It's updated regularly with opportunities for science teachers across the state.

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