

November newsletter from your grade-level representative



November 2019

Select your grade-level newsletter below

Elementary

Middle School

High School

Higher Ed

UtSTA 2020 Mini Regional Conferences

UtSTA is proud to announce:

MINI REGIONAL SCIENCE CONFERENCE

*Planting the
SEEd of Science*

Southern Utah
Feb 22, 2020
Cedar City, UT

Northern Utah
Feb 29, 2020
Ogden, UT

9:00am-3:30pm

Cost: \$35 (includes lunch)

Register at utsta.org

#supersaturdayscience

#nosubplansneeded

Presenters Needed for UtSTA Conferences



UtSTA Board Member Nominations

The UtSTA Board has several positions coming open. If you are interested please click on [this link](#) and apply by November 9th.

The Governor's Office of Energy Award

SECOND ANNUAL AWARD

The Governor's Office of Energy Award

GOVERNOR'S OFFICE OF
ENERGY DEVELOPMENT
Advancing Utah's Energy Future



**A collaboration between the Governor's Office
of ENERGY Development and the 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 May, 2020
- Must be UtSTA member
- Apply at <https://tinyurl.com/EnergyAward2020>

**Application due December 10, 2019
apply at utsta.org**

Energy in the Classroom



GOVERNOR'S OFFICE OF
ENERGY DEVELOPMENT
Advancing Utah's Energy Future

ANNOUNCING NEW SEEd lessons

ENERGY IN THE CLASSROOM

The Governor's Office of Energy Development is proud to partner with the Utah Science Teachers Association to create a robust library of **SEEd** state-standard lesson plans for elementary, middle and high school students.



31+ Lessons:

- Uses of Petroleum
- Digging into Renewables
- Harnessing the Sun
- Combustion Process
- Peltier Plates
- Batteries
- Natural Resources

**AVAILABLE NOW
HERE**

For more information, contact Dawn Monson at dmonson@utsta.org

Online Endorsement Courses - Start January 9th!

Online-Endorsement Courses

REGISTER AT
UTSTA.ORG

REGISTER AT
UTSTA.ORG

Starts January 9th



Zoology



Genetics



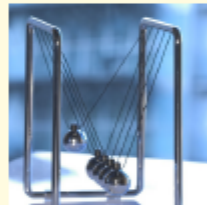
Chemistry 2



Evolutionary
Bio



Modern
Physics



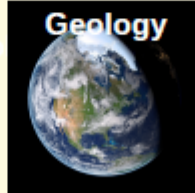
Physics 1



Earth
Systems



Astronomy



Geology



Lab Safety

ALL SCIENCE TEACHERS SEEKING ENDORSEMENTS. THE COURSES START ON JAN..
9TH IN AN ONLINE SETTING SO 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. CONTACT YOUR LEA FOR \$500 REIMBURSEMENT..

ROADS on Mars - Student Challenge



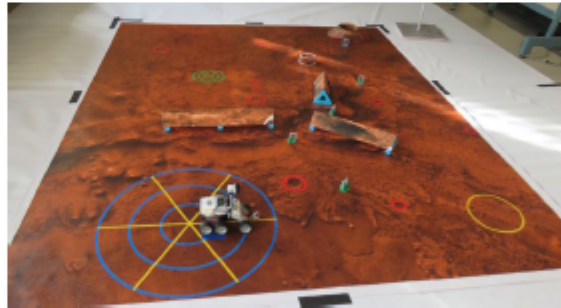
ROADS on Mars – Student Challenge

Registration is now live, closing on 11/15/2019!!

Following in the steps of NASA's Mars 2020 mission, the ROADS on Mars challenge gives teams of students grades 3–12 a chance to tackle a mission to Mars, following in the path of the next rover — Mars 2020. Just like the next rover, teams will face challenges including engineering and programming, analysis of biological signatures and geologic features, not to mention flying to Mars and successfully landing. Utah's challenge event will take place at Snow College on Utah's challenge event will take place at Snow College on 4/25/2020.

Student teams will pilot and land a drone, just as the real mission will land in Jezero crater on Mars, and then use a LEGO

Mindstorms robot "rover" to navigate the surface and complete science objectives. ROADS stands for "Rover Observation And Drone Survey," which are key components of the Mars challenge. ROADS on Mars also introduces several mini-challenges that will incorporate biological and geological concepts. Mars 2020 will be searching Mars for signs of past life, and student teams will likewise explore their local environments to identify biosignatures. Teams will also investigate both how craters are formed and the effects of erosion on a landscape.



Important links:

- Registration here: <https://nwessp.org/mars/registration/>. Teams are welcome to apply from schools, other robotics organizations, libraries, museums, scout troops, clubs, or other organizations.
- Timeline and more information: <https://pita.ess.washington.edu/nwessp/wp-content/uploads/sites/6/2019/09/ROADS-on-Mars-Brochure-v1.pdf>
- Challenge manual: <https://pita.ess.washington.edu/nwessp/wp-content/uploads/sites/6/2019/09/ROADS-on-Mars-Challenge-Manual-v0.5.pdf>

With support from:



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