NASA’s Science Mission Directorate

NASA’s Earth and Space Science for Your Classroom

Workshops and Courses at CAST 2005

To register, please go to http://www.statweb.org/CASTHouston/register.htm

Thursday

SC 1017  8:30 -11:30 a.m.
Course—registration required (Cost: $0)
NASA’s Extreme Solar System Exploration- Inspiring Teachable Moments for Earth and Space Science
Teach earth and space standards while connecting your students to exciting solar system exploration and current scientific discovery. Experiential, hands-on activities and up-to date information.
Kay Tobola, Stephanie Shipp, Jackie Allen

WS 122  8:30 – 10:00 a.m.
Workshop—all CAST participants are welcome!
Mars Image Landing Site Selection and Mission to the Red Planet
This session will introduce participants to NASA’s missions to Mars. Participants will look at images of Mars and identify potential landing sites and then design their own mission to Mars.
Paige Valderrama

WS 223  10:15 – 11:45 a.m.
Workshop—all CAST participants are welcome!
Getting Students involved in Missions to Mars: MSIP
Getting Students Involved in Missions to Mars: Mars Student Imaging Project
This hands-on session will expose grades 5-12 teachers with an opportunity of a lifetime for students - exploring Mars by conducting authentic research using a camera onboard a NASA spacecraft.
Paige Valderrama

SC 1027  2:00 - 5:00  p.m.
Course—registration required (Cost: $10)
Voyage Through Astronomy with Stars and Planets
From scale in the solar system, stars and galaxies, use real images and hands-on modeling to explore our place in the universe. Classroom-tested curriculum supported by a NASA IDEAS grant.
Mary Urquhart
**Friday**

SC 2013  8:30 - 11:30 a.m.  
*Course—registration required (Cost: $10)*  
**Earth-Moon Comparisons (NASA)**  
Compare Earth and Moon and the formation, geologic history, and processes that have shaped these two rocky planetary bodies. Learn about lunar phases and eclipses.  
Stephanie Shipp, Christine Shupla, Becky Nelson, Michael Madera

SC 2021  8:30 - 11:30 a.m.  
*Course—registration required (Cost: $0)*  
**NASA: Exploring our Universe of Galaxies, Stars, Planets, and Life**  
Explore how scientists use light and models to learn about the universe through hands-on activities that strengthen student knowledge and critical thinking skills.  
Free NASA classroom materials.  
Denise Smith, Matt Bobrowsky

WS 501  2:15 – 3:45 p.m.  
*Workshop—all CAST participants are welcome!*

**NASA MESSENGER Mission: Ice Mysteries**  
A hands-on inquiry investigates the properties of ice and integrates literature and writing, while learning about ice in our Solar System. Cool fun for elementary levels!  
Lollie Garay

WS 538  2:15 - 3:45 p.m.  
*Workshop—all CAST participants are welcome!*

**Mars: It's Elementary- Using Space Rocks and Soils to Teach Earth Science Objectives**  
NASA Mars soil stimulant activities encourage investigation, critical thinking and problem solving skills for young learners. Students observe, explain, and test soils and rocks just as exploration missions investigate Mars.  
Kay Tobola, Jackie Allen, Karen Stocco, Rebecca Collier, Loresa Loftin, Mike Henry, Anne Mangus Smith

WS 601  4:00 – 5:30 p.m.  
*Workshop—all CAST participants are welcome!*

**SkyTellers: Exploring Science through Native American Story**  
Explore our seasons, stars, and how Earth formed - and more - through Native American night sky stories. Each story is accompanied by a scientific explanation and hands-on activities.  
Becky Nelson, Lynn Moroney, Stephanie Shipp

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**Saturday**

WS 702  8:30 – 10:00 a.m.  
*Workshop—all CAST participants are welcome!*

**GAVRT: NASA/JPL Boost your Ability to Achieve Real Scientific Objectives and TEKS Goals!**  
Join the GAVRT Team with NASA/JPL. From your classroom computer, your students can visit planets, distant blackholes and quasars in space using a Radio Telescope.  
David MacLaren, Pat Reeder