**ENROLL NOW!**

**Earth Science (ESS1 & ESS2):**

Earth’s Place in the Universe & Earth’s Systems  
January 17, 2017  
8:30 am – 2:30 pm  
$195 (includes breakfast & lunch)  
10 PDPs (upon project completion)

**Register Here: Workshop 2457**

This workshop has been designed to give K-8 teachers who teach science a deeper understanding of the content in the area of Earth’s Place in the Universe & Earth Systems. Participants will explore scientific vocabulary associated with each standard and learn ways to introduce these terms to their students using a variety of resources including technology. The instructor will model effective ways to teach science vocabulary while the participants learn or re-learn the content in these areas. Participants will walk away with a deeper understanding of the science content and critical thinking skills associated with the new 2016 MA STE standards. After completing this workshop, teachers should feel confident about their understanding of the content and better equipped to teach these standards to students. Topics of exploration include:

- Explaining Earth’s relationship to the sun, moon and stars
- Using a model to explain the cycling of water on Earth
- Describing the locations and relative amounts of fresh and saltwater
- Developing and using a model to explain the causes of lunar phases
- Analyzing rock layers and fossils to determine relatives ages
- Illustrating that the Earth and solar system are parts of the Milky Way
- Interpreting maps to provide evidence of Earth’s plate movement
- Using and developing a model of the Earth-sun system to explain seasons
- Explaining gravity’s role in tides and orbital motions in the solar system
- Modeling convection in Earth’s interior which cycles Earth’s crust
- Interpreting patterns in air mass interactions in weather data
- Describing the effects the ocean has on weather and climate

**Intended Audience:** K-8 Elementary Teachers, Science Teachers, Departments Heads, STE Curriculum Leaders

[Return to STE Standards Content Workshops Overview Listing]