



Thursday, *November 20*

8:00 am Registration and Continental Breakfast

8:30 am Welcoming Remarks - Lilas M. Soukup, NETL

8:45 am The Energy Race

NETL Education Outreach Team

Through a board game, tips about energy will be unveiled. The player who completes the race first will be the winner. Participants will be provided a take-away game from this activity for their classroom.

10:00 am Break

10:15 am Sustainability in Schools

Mr. Grant Ervin, Sustainability Manager, Office of Mayor Peduto

Sustainability is the new "buzz word" being used in conjunction with our environment. Discussions will take place on how sustainability projects can be incorporated in classroom curriculum to help keep our planet's environment clean.

Sustainability Activity

11:30 am Buffet Lunch Provided

12:30 pm Mad Science

Ms. Pye Pajewski, Mad Science of Pittsburgh

Mad Science® is the world's leading science enrichment provider, offering unique, hands-on science experiences for children that are as entertaining as they are educational. Mad Science encourages scientific literacy in children in an age when science is as vital as reading, writing and arithmetic. This hour-long session will give you a sampling of what Mad Science of Pittsburgh has to offer: experience highlights of our thrilling shows, interactive funstations, afterschool programs, and exciting workshops.

1:30 pm Sedimentary, My Dear Watson

NETL Education Outreach Team

Most rocks and minerals can be identified by examining their physical properties. Techniques to identify samples will be discussed to assist with the activity. Worksheets and handouts will be used. Participants will receive a rock and mineral kit for use in their classroom.

2:15 pm Break

2:30 pm **Electronics and Economics: The Hidden World of Cost**
NETL Education Outreach Team

Observe the amount of electricity used by everyday items and the amount of CO₂ emitted by CFL vs. incandescent light bulbs. This activity on the consumption of electricity is truly illuminating. Participants will receive an energy monitor for use in their classroom.

3:30 pm **Adjourn**

Friday, *November 21*

8:00 am **Registration and Continental Breakfast**

8:30 am **"Light, Color and Spectroscopy for Kids"**
Mr. John Varine, Spectroscopy Society of Pittsburgh (SSP)

With materials provided by the Spectroscopy Society, participants learn to project a large and very bright rainbow in their classroom, and learn why colors appear the way that they do. Materials will be provided to the participants to take back to their classrooms.

10:30 am **Break**

10:45 am **UV and You**
NETL Education Outreach Team

You cannot see ultra-violet light, but it exists. This workshop will demonstrate various ways students can be exposed to the effects of invisible light. The good and bad associated with ultra-violet light will be discussed. Participants will take away UV kits to be used in their classroom.

11:30 am **Buffet Lunch Provided**

12:30 pm **A Planetarium Experience with SSP**
Penny Gardner and Ed Ladner, Spectroscopy Society of Pittsburgh

The participants will have the opportunity to experience a true planetarium. The night sky will be demonstrated from within a 20' planetarium where you will learn about constellations, etc. Information on how to have the planetarium visit your school will also be provided.

2:30 pm **Break**

2:45 pm **Time for Apples and Water**
NETL Education Outreach Team

Just in time for the fall holiday, participants will learn how to change play dough into apples. A simple method to show how water is transferred will also be demonstrated. Both activities can be used in the classroom with simple supplies.

3:30 pm **Distribution of Computers**
Adjourn