

Energy...Environment...Economics

The 19th Annual
Triple “E” Seminar
Presented by
U.S. Department of Energy
National Energy Technology Laboratory
and
Spectroscopy Society of Pittsburgh

Thursday, January 20, 2011

- 8:00 a.m. **Registration & Breakfast**
- 8:30 a.m. **Opening Remarks/Welcome**
Michael Nowak, Senior Management & Technical Advisor
National Energy Technology Laboratory
- 8:35 a.m. **Overview of Energy Issues**
Michael Nowak, Senior Management & Technical Advisor
National Energy Technology Laboratory
- 8:45 a.m. **Introduction of Presenters**
McMahan Gray
National Energy Technology Laboratory
- 8:50 a.m. Jane Konrad, Pgh Regional Center for Science Teachers
“Green – What Does it Mean”
- 9:45 a.m. **Break**
- 10:00 a.m. John Varine, Spectroscopy Society of Pittsburgh
“Light and Color for Kids”
- 11:00 a.m. Dr. Robert E. Witkowski, P.G.
“Antarctica and Meteorites”
- 12:00 p.m. **Lunch**

1:00 p.m. Steve Woodruff
“Optics”

1:45 p.m. John VanOsdol
“Fuel Cells”

2:45 p.m. **Break**

3:00 p.m. TBD

4:00 p.m. Adjournment

Friday, January 21, 2011

8:30 a.m. **Registration and Coffee**

9:00 a.m. Christine McCreary & Chuck Perry
“What’s the Matter” – Exploring the physical and chemical properties of matter including structure, magnetism and density:
“States of Matter: Solids, Liquids, Gasses”

10:20 a.m. **Break**

10:30 a.m. Christine McCreary & Chuck Perry
“Physical and Chemical Properties of Matter”

12:00 p.m. **Lunch**

1:00 p.m. Christine McCreary & Chuck Perry
“Changes in Matter”

2:15 p.m. **Break**

2:30 p.m. Christine McCreary & Chuck Perry
“Elements, Compounds and Mixtures”

3:00 p.m. **Closing Remarks, Distribution of Education Materials,
Collection of Evaluations and Adjournment**
Michael Nowak, Education Outreach Coordinator
National Energy Technology Laboratory