Friday, December 5, 2008

1:30 PM – 1:55 PM
Welcome, Introductions, Goals for the Symposium
Al Byers, Assistant Executive Director of Government Partnerships and e-Learning, NSTA
Claire Reinburg, NSTA Press Director, NSTA
Flavio Mendez, Senior Director, The NSTA Learning Center, NSTA
- About NSTA Symposia
- Agenda/Goals/Forms/Logistics/Introductions
Karen Ansberry, Co-Author More Picture-Perfect Science Lessons, Science Curriculum Leader, Mason City, Ohio Schools
Emily Morgan, Co-Author More Picture-Perfect Science Lessons, Science Leader, High AIMS Consortium, Cincinnati, OH

1:55 PM – 2:45 PM
Using Picture Books to Teach Science
Karen Ansberry and Emily Morgan
Learning Outcomes:
- After participating in the presentation,
  - Participants will summarize the benefits and cautions of using picture books to teach science.
  - Participants will describe six key reading comprehension strategies to model while reading aloud.

2:45 PM – 3:30 PM
Roller Coasters
Emily Morgan
Learning Outcomes:
- After participating in the presentation,
  - Participants will list the five stages of the BSCS 5Es learning cycle model.
  - Participants will explain how gravity affects falling objects.

3:30 PM – 3:45 PM
Break

3:45 PM – 4:30 PM
Sunshine on My Shoulders, Loco Beans
Karen Ansberry and Emily Morgan
Learning Outcomes:
- After participating in the presentation,
  - Participants will discuss how to stimulate inquiry using observations of objects and phenomena.
  - Participants will describe the inquiry continuum.
  - Participants will describe the life cycle of the jumping bean moth.
4:30 PM – 5:15 PM
**Imaginative Inventions**  
Karen Ansberry and Emily Morgan

**Learning Outcomes:**
- After participating in the activity, participants will describe the risks and benefits of a variety of inventions.
- Participants will revise the design of an existing invention.

5:15 PM – 5:35 PM
**Making Science Meaningful**  
Karen Ansberry and Emily Morgan

**Learning Outcomes:**
- After participating in the activity, participants will describe how emotion affects learning.
- Participants will describe three key strategies for making science meaningful to their students.

5:35 PM – 6:00 PM
**Final Words**  
Flavio Mendez, NSTA

- Post-assessment form
- Evaluation form/Survey/Credit info
- Drawing of door prizes
- Closing remarks from presenters (5 minutes)

**National Science Education Standards Addressed:**

**Professional Development Standard B**
- Address teachers’ needs as learners and build on their current knowledge of science content, teaching, and learning.
- Use inquiry, reflection, interpretation of research, modeling, and guided practice to build understanding and skill in science teaching.

**Content Standard A**
- Abilities Necessary to Do Scientific Inquiry
  - Ask a question about objects, organisms, and events in the environment.
- Understandings About Scientific Inquiry
  - Scientific investigations involve asking and answering a question and comparing the answer with what scientists already know about the world.

**Content Standard B**
- Position and Motion of Objects
  - The position and motion of objects can be changed by pushing or pulling.
Content Standard C
- Life Science
  - Animals have life cycles that include being born, developing into adults, reproducing, and eventually dying.

Content Standard E
- Abilities of Technological Design
  - Identify a problem or design an opportunity and propose a solution.
- Understandings About Science and Technology
  - People have always had problems and invented tools and techniques to solve problems.