Flight of the Monarch Butterflies Symposium

NSTA Phoenix Area Conference
Friday, December 7, 2012
Arizona Science Center
8:00 a.m. – 1:00 p.m.

8:00 a.m.
Continental Breakfast, IMAX Theater Lobby, 1st floor, Arizona Science Center
Welcome, pre-assessment
Brynn Slate, Manager, NSTA Symposia and Web Seminars
  • Agenda, logistics, evaluation

8:30 a.m.
Flight of the Butterflies 3D IMAX film

9:15 a.m.
Move to Big Classroom, Basement Level, Arizona Science Center

9:30 a.m.
Introduction and learning objectives
Jim O’Leary, Senior Scientist, Maryland Science Center
  • Learning objectives for the symposium
  • Introduction of presenters – De Cansler and Ann Hobbie, University of Minnesota

9:45 a.m.
Life cycle stations
DeCansler and Ann Hobbie, University of Minnesota
• Eggs/small caterpillars
• Large caterpillars
• Pupae
• Adults

Learning Outcomes:

1. After participating in the activity, participants will know
   o Where monarchs go in winter
   o How many times a monarch caterpillar sheds its skin
   o The four stages in the monarch’s life cycle
   o What monarch caterpillars eat
   o How many legs a monarch has

11:30 a.m.
Break

11:45 a.m.
Southwest Monarch Study
Gail Morris

12:00 p.m.
Curriculum Guide overview
De Cansler and Ann Hobbie

12:15 p.m.
Sorting Animals lesson
De Cansler and Ann Hobbie

12:45 p.m.
Post- assessment, symposium evaluation, door prizes
Content Standards

K-4 Life Science
1. Characteristics of organisms
2. Life cycles of organisms
3. Organisms and environments

5-8 Life Science
1. Structure and function in living systems
2. Populations and ecosystems
De Cansler
Adjunct Teacher Trainer, Monarchs in the Classroom
University of Minnesota

De Cansler taught seventh grade science at Willow Creek Middle School in Rochester, Minnesota for more than 30 years. She employed monarchs as a focal organism in her classroom for more than 20 years, using the butterflies to teach observation skills, journaling, microscope use, technical drawing, metric measurement, data collection, graphing, experimental design, ecology, conservation, and myriad other content and process topics of a standard seventh grade life science course. Each of her students raised a monarch from an egg they received the second day of school. Although Ms. Cansler continues to be a lifelong learner, classroom volunteer, and teacher/consultant, she is delighted to report that she has officially “retired” as of June 15, 2010.

Ann Hobbie
Adjunct Teacher Trainer, Monarchs in the Classroom
University of Minnesota

Ann Hobbie taught fifth and sixth grade in Roseville, Minnesota where she began rearing monarchs with her classes. Ms. Hobbie worked with the original teacher advisory group for Monarchs in the Classroom (MITC) to develop the MITC curriculum and has taught workshops in conjunction with the program since the late 1990’s. She also helped develop schoolyard ecology curricula for MITC. Currently, Ms. Hobbie’s primary work is with a Minnesota based non-profit Parents United, which works on statewide education policy and civic engagement. She continues to enjoy science outreach with Monarchs in the Classroom. Ms. Hobbie lives in St. Paul, Minnesota with her husband and two teenage sons.