



HYDROVILLE CURRICULUM PROJECT

ENVIRONMENTAL HEALTH SCIENCES CENTER
MARINE/FRESHWATER BIOMEDICAL SCIENCES CENTER

PESTICIDE SPILL SCENARIO - SUMMER INSTITUTE 2003

Training Agenda

Tuesday, June 17

- 7:30 a.m. Registration and Continental Breakfast at Fir Ridge Campus
- 8:15 a.m. Welcome to the Hydroville Curriculum Project
- Introductions and Workshop Essentials
 - Training Objectives and Agenda
- What is the Hydroville Curriculum Project?
- Hydroville Project Overview
 - Hydroville Curriculum Framework
- 8:30 a.m. Pesticide Spill Scenario Overview
- Concept Map
 - Curriculum Binder Overview
- 8:45 a.m. Activity 8: How We Perceive Risk
- 9:15 a.m. I. Problem Exposition: Pesticide Spill Video and Debrief
- Actions/solutions development
- 9:45 a.m. *BREAK*
- 10:00 a.m. II. Data Collection and Career Information
- Career Information
 - Topographic Maps (DEMO)
- 10:15 am III. Data Analysis (Split Group into A and B)
- A. Mechanical Engineers Expert Strand
- Activity 1: Pump It Up Part I - Analyzing Pumps
 - Activity 2: Pump It Up Part II - Designing a Supersoaker
 - Expert Group Outcome: Pump Design (DEMO)
- B. Soil Scientists Expert Strand
- Activity 5: Soil Texture (DEMO)
 - Activity 6: Soil Permeability (DEMO)
 - Expert Group Outcome: Pesticide Plume Simulation and Soil Permeability
- 12:00 p.m. *LUNCH*
- 12:45 p.m. III. Data Analysis(Split Group Reversed)
- B. Mechanical Engineers Expert Strand
- A. Soil Scientists Expert Strand
- 2:30 p.m. *BREAK*
- 2:45 p.m. Group debrief of Mechanical Engineers and Soil Scientists
- 3:00 p.m. III. Data Analysis (Split Group C and D)
- C. Analytical Chemists Expert Strand
- Activity 3: Constructing and Analyzing Graphs (DEMO)
 - Activity 4: Using Paper Chromatography
 - Expert Group Outcome: Analyzing Gas Chromatograms

Training Agenda - continued

- 3:00 p.m. D. Environmental Toxicologists Expert Strand
 - Activity 7: Toxicity Testing
 - Expert Group Outcome: Metam Sodium Fact Sheets and Risk Communication
- 4:45 p.m. Debrief
- 5:00 p.m. ADJOURN

Wednesday, June 18

- 7:45 a.m. Continental Breakfast at Fir Ridge Campus
- 8:10 a.m. Review Previous Day and Today's Agenda Questions and Comments
- 8:30 a.m. HCP Integration Model Discussion
 - Learning Logs/Science Journals
 - Extensions
 - Standards
- 8:45 a.m. "Why Toxicology for High School Students?"
- 9:15 a.m. III. Data Analysis (Split Group C and D Reversed)
D. Analytical Chemists Expert Strand
C. Environmental Toxicologists Expert Strand
- 9:45 a.m. *BREAK*
- 10:00 a.m. III. Data Analysis (C and D Continued)
- 11:15 a.m. Group Debrief of Analytical Chemists and Environmental Toxicologists
- 11:30 p.m. *LUNCH*
- 12:15 p.m. IV. Data Synthesis
 - Activity 9: Decision Analysis
 - Activity 10: Siting Yoretown's Landfill
 - Teams A/C and B/D - Deciding on a Remediation Plan
- 1:45 p.m. V. Solution Presentation
 - Student Work Samples and Scoring Rubrics
- 2:15 p.m. *BREAK* - hand in "Getting to Know You" contest quiz
- 2:30 p.m. Classroom Implementation Models - Panel Discussion
 - Fir Ridge Campus
 - Gateways Learning Center
 - Other examples: Sci/SS, Sci/LA
- 3:15 p.m. Teacher/Team Planning Time
- 4:00 p.m. Debrief and Evaluation
- 4:15 p.m. Paper work for Stipends, CPDUs or Grad Credits
- 4:30 p.m. Adjourn