Having Your Cake and Eating It Too: Taking Advantage of Professional Development Opportunities

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Exiting the Columbia River and entering the Pacific Ocean at Cape Disappointment, WA

Presentation Topics

- Teacher At Sea (TAS)- NOAA
- Chautauqua Courses- NSF
- Institutional Opportunities:
  - Sabbatical
  - Field Trips with Biologists
In April 2008 I was afforded the enviable opportunity to participate in oceanic research for eight days as part of the National Oceanic and Atmospheric Administration’s Teacher At Sea (NOAA TAS) program.
Net individual cost? = 0

All participant expenses are covered.
Cruise Types:
• hydrographic
• fisheries
• physical/chemical
Length: 225 feet
Breadth: 43 feet
Gross weight: 2,250 tons

Docked in Astoria, OR

Cruise dates:
April 20-27, 2008

Had full access to all the ship’s decks, including operations bridge!
Euphausia pacifica (krill) "soup"

Photophores ~1 inch

'Jellies'

Photophores ~1 inch
Chautauqua Course
Summer 2006

Energy Development in the Arctic
Some Proposed Chautauqua Summer 2010 Short Courses

- Using Research-Based Curricula and Tools to Promote Active Learning in Introductory Courses (*Dickinson College*)
- Energy Sustainability: What Every Faculty Member Should Know (*University of Dayton*)
- Teaching Green Energy (*California State University at Dominguez Hills*)
Buenos Aires National Wildlife Refuge, SW of Tucson, AZ

Institutional Cross-Disciplinary Opportunities: Biology & Welding Technology
Studying the biological world to understand the chemical world

"Bugging"
Organization of Properties/Traits
(= Functional Group Reactivity):
Taxonomy = Organic Nomenclature
Some Organic Chemistry Ideas-

- Symmetry
- Structure-Function Relationships
- Dimensionality (2D vs. 3D)
- Pheromone Chemistry
NASSCO (San Diego, CA) Shipyard Fieldtrip with Welding Technology
Hottest; most workable

Coolest; can damage piece

Thermal Emission-Spectroscopy Concepts
Iron rod

Cow magnet

Movement of rod
Faculty Sabbatical

Lee:
I’ll add more info later.
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