

# UNOLS Mentoring, Education, and Outreach Program

~ Brainstorming Session ~

# UNOLS

## Mentoring/Education/Outreach

- Background
- The current sea-going science community is aging
- Ship demand is decreasing
- New Chief Scientists could benefit by an orientation program.

# UNOLS

## Mentoring/Education/Outreach

- Goals:
  - Provide user orientation to increase cruise effectiveness and success of the cruise
  - Lesson the load on support groups
  - Lower boundaries, encourage ship time requests

# Mentoring/Education/Outreach

- Proposed Strategies
  - On-line step-by-step guide
  - UNOLS 101 PowerPoint
  - UNOLS Workshop for New Users
    - Add-on to existing workshop
    - Stand-alone workshop
  - At-Sea Opportunity

# UNOLS

## Mentoring/Education/Outreach

- Workshop Topics: Access to the Sea
  - General Overview of UNOLS and Facilities
  - Proposals and Ship Requests
  - At-Sea Experience
  - Post Cruise Responsibilities

# UNOLS

## Mentoring/Education/Outreach

- Speakers:
  - UNOLS Rep
  - Experienced Seagoing Scientists
  - Ship scheduler / marine sup
  - Marine Tech
  - Crew member
  - Program Managers
  - New Chief Scientist

# UNOLS

## Mentoring/Education/Outreach

- At Sea Opportunity:
  - Use a transit cruise as an opportunity
  - The opportunity would be competitive
  - All elements of cruise planning and execution could be experienced.
  - Participants: junior scientists, Mentors?

# UNOLS

## Mentoring/Education/Outreach

- Funding:
  - Multi-agency?
  - Eager proposal? \$200K cap
  - NSF Education/ Ship Ops



# UNOLS Cruise Opportunities

For a full list of volunteers: [www.unols.org/info/cruise\\_opportunities.html](http://www.unols.org/info/cruise_opportunities.html)

We currently have 38 volunteers listed on the cruise opportunities website.

26 of those volunteers are graduate or undergraduate students interested in oceanography (biological, chemical, physical, geological, archaeological).

We are receiving, on average, 1-2 volunteer requests per week (based on Jan, Feb, Mar 2010)

Cruise Opportunities - Windows Internet Explorer

http://www.unols.org/info/cruise\_opportunities.html

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Cruise Opportunities

*Individuals Available for UNOLS Cruises*

Contact the UNOLS Office for the names and contact information for the individuals listed below who are interested in opportunities aboard UNOLS vessels <office>

#	Gender	Affiliation	Dates Available	Current Position	Areas of Interest	Previous R/V Experience?	< 18?	Passport?	Citizen?	Highest Degree Earned?	Medical Insurance?
7	female	Tufts U	06/15/2009 to 08/01/2011	Undergrad student	Marine ecosystems, conservation, sustainable use, marine mammals, fish	no	no	yes	USA	Bachelor	Yes
5	female	U. Maine	01/01/2010 to 08/30/2010	Biology Undergrad.	Marine mammals and coral reefs.	no	no	yes	USA	High School	Yes
13	-	SEA	01/10/2009 to 01/01/2020	deckhand aboard SSV Corwith Cramer	I am interested in assisting scientists conducting research in a variety of fields: physical oceanography, geological oceanography, sediment slope stability, marine biology (organismal), and I am open to any other oceanographic research.	yes	no	yes	Bulgaria	Bachelor	Yes
31	male	URI	5/6/2009 to 5/31/2010	College Graduate	Marine Biology, Ecology, Physiology, Taxonomy, Deep-Sea research, Animal Development	yes	no	yes	USA	Bachelor	Yes
6	female	URI/GSO	05/10/2009 to 04/01/2010	Grad Student	The impacts of anthropogenic activities on coastal ecosystems, and biogeochemical nutrient cycles	yes	no	yes	USA	Bachelor	Yes
47	-	IMAU	07/01/2010 to 09/01/2010	Master Student	Physical oceanography, ocean observing systems, ENSO.	no	no	yes	Turkey	Bachelor	Yes
33	female	Linfield College	07/07/2009 to 09/01/2010	Undergrad student	Global Ocean Climate Change	no	no	yes	USA	Bachelor	Yes
30	male	USCG	07/31/2009 to 08/31/2010	Student	Its my desire to accrue more sea-time as a prospective Ordinary Seaman, and to upgrade my U.S. Merchant Mariner Document (MMD) to Able Body Seaman (Special), and to do so on a voluntary basis, in exchange for my services.	no	yes	yes	USA	High School	Yes
37	female	U. Penn	08/01/2009 to 06/01/2010	2009 College Graduate, Currently Unemployed	My primary interests are in marine biology and ecology, biological conservation and GIS technology.	no	no	yes	USA	Bachelor	Yes
34	female	UC Santa Cruz	08/15/2009 to 12/31/2010	wildlife biologist	include but are not limited to: phyto/zooplankton, current ecology, ocean acidification	yes	no	yes	USA	Bachelor	Yes
39	male	MBARI	08/23/2009 to 05/15/2010	MBARI intern	I'm interested in ecosystem dynamics, especially related to variability due to El Nino, PDO, climate change, ocean acidification etc. I'm interested in nutrient cycling and carbon flux in upwelling zones. I'm interested in going to sea!	yes	no	yes	USA	Bachelor	Yes
44	-	URI	09/01/2009 to 09/01/2010	Ph.D candidate	-	no	no	yes	China	Master	Yes

# UNOLS Cruise Opportunities

Post an opportunity at: [http://www.unols.org/forms/posting\\_opportunities.asp](http://www.unols.org/forms/posting_opportunities.asp)

*A Listing of Education and Outreach Cruise Opportunities*

Interested in participating in an oceanographic cruise? Individuals are often recruited to help stand watch and collect data. Additionally, berths are sometimes available and can accommodate ancillary science, education, and outreach activities. The Chief Scientist might sometimes ask the individual(s) associated with these ancillary activities, to assist in the cruise by also standing watch. Any cruise responsibilities and expectations should be clearly articulated and agree upon between the Chief Scientist and individual(s) occupying the available berth(s) prior to the cruise.

General criteria are:

- sea-worthiness (some experience at sea or seasickness awareness);
- good health and evidence of medical insurance;
- scientific interest or background;
- ability to follow detailed instructions carefully;
- ability to work safely on an oceanographic cruise.
- A valid passport is required.

A list of cruise opportunities is provided below. If you are interested in participating in any of these cruises, arrangements should be made with the Point of Contact listed for the cruise.

<i>Cruise Dates</i>	<i>Ship</i>	<i>Geographic Area</i>	<i>Watchstander Responsibility</i> (click on link for additional details)	<i>Berths Available</i> (for Education or Outreach Programs)	<i>Point of Contact</i>

**We currently have no education and outreach opportunities aboard UNOLS vessels posted for these volunteers.**

**The UNOLS Office has been trying to match volunteers with cruises by:**

1. Searching the 2010 schedules for cruises that match an individual volunteers interests and availability
2. Contacting the volunteer and the ship scheduler to determine if the volunteer is interested and if there is space on the cruise
3. If appropriate, putting the volunteer in touch with the chief scientist

# UNOLS Cruise Opportunities

## Has this been successful?

- Attempts have been made for 17 students
- Two Students are currently in touch with chief scientists

## Problems with this approach:

- The UNOLS Office does not know exactly what the students are looking for – often they are not interested/available for a cruise we select
- Scientists often don't know if they will have an extra berth until shortly before the cruise dates