

**Ocean Carbon and Biogeochemistry Scoping Workshop on  
Ocean Acidification Research  
Scripps Institution of Oceanography  
La Jolla, CA  
Sumner Auditorium  
October 9-11, 2007**

(Shuttles will leave La Jolla Shores Hotel starting at 7:45 a.m. It will take 3 trips to get everyone to Scripps.)

**Tuesday, October 9, 2007**

- 800 Continental Breakfast Outside the Sumner Auditorium  
(Posters can be put up immediately on the wall outside Sumner Auditorium. It is a concrete wall so we will provide tape to use.)
- 830 Logistics by **Vicki Fabry**, *California State University, San Marcos*
- 840 Welcome by **Tony Haymet**, *Scripps Institution of Oceanography*
- 850 NSF, NOAA, NASA
- 920 What we hope to accomplish **Chris Langdon**, *University of Miami*, and **Vicki Fabry**
- 930 Session A, Moderator: **Cynthia Pilskaln**, *University of Massachusetts*  
**Hugh Ducklow**, *Marine Biological Laboratory*: How Will Polar Plankton Ecosystems Respond to Ocean Acidification?
- 1010 Coffee break (30 min) Outside the Sumner Auditorium
- 1040 **Mark Green**, *St. Joseph's College*: Death by Dissolution: The Fate of Carbonate-bearing Organisms in Nearshore Marine Environments in a High CO<sub>2</sub> World
- 1120 Session B, Moderator: Richard Feely, NOAA/PMEL  
**Ulf Riebesell**, *IFM-GEOMAR*, Kiel: Pelagic Mesocosms for Future Ocean Simulations
- 1200 Lunch and posters: 1 hour Outside Sumner Auditorium: Seating will be anywhere you can perch on the wall or at the nearby Pawka Green.
- 1300 **Kerim Aydin**, *NOAA Alaska Fisheries Science Center*: Impacts on Fisheries
- 1340 Breakout 1 (Participants will be given instructions and questions to be answered)  
Breakouts rooms are: Group 1 - corals - Sumner Auditorium  
Group 2 - coastal/estuary - Munk IGPP 12B  
Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10  
Group 4 - high latitudes - Hubbs 4500
- 1500 Coffee break There will be two set ups, one outside Sumner Auditorium and one outside Hubbs 4500.
- 1530 Breakout 1 continued
- 1640 Report from Breakout 1 back to plenary Sumner Auditorium
- 17:00 Posters Outside Sumner Auditorium
- Shuttle will leave Sumner to the Birch Aquarium at 1800.
- 1800-2000 **Reception for OCB Scoping Workshop for Ocean Acidification Research, hosted by Scripps Institution of Oceanography** Birch Aquarium
- Shuttles will leave from outside of Birch Aquarium starting at 1945 to get everyone back to the hotel. It will take 3 trips to get everyone back to the hotel.

### Wednesday, October 10, 2007

- 800 Continental Breakfast Outside the Sumner Auditorium
- 830 Update: **Chris Langdon and Vicki Fabry** Sumner Auditorium
- 845 Session C, Moderator: **Peter Edmunds**, *California State University, Northridge*  
**Anne Cohen**, *Woods Hole Oceanographic Institution*: Biocalcification Responses to Ocean Acidification: the Interplay of Physicochemical and Physiological Factors
- 925 **Brad Seibel**, *University of Rhode Island*: Physiological Response to Ocean Acidification: Squids as Extreme Animal Models
- 1005 Coffee break Outside the Sumner Auditorium
- 1035 Session D, Moderator: **Chris Sabine**, *NOAA/PMEL* Sumner Auditorium  
**Gretchen Hofmann**, *University of California, Santa Barbara*: Using Functional Genomics to Explore the Impacts of Ocean Acidification on Calcifying Marine Organisms
- 1115 **Fred Mackenzie**, *University of Hawaii*: Carbonate Dissolution Under Rising Atmospheric CO<sub>2</sub> and Ocean Acidification
- 1200 Lunch and posters: 1 hour Outside the Sumner Auditorium
- 1300 Moderator: **Andrew Dickson**, *Scripps Institution of Oceanography*  
**Scott Doney**, *Woods Hole Oceanographic Institution*: Modeling Challenges for Ocean Acidification Sumner Auditorium
- 1340 Breakout 2 (Participants will be given instructions and questions to be answered)  
Breakouts rooms are: Group 1 - corals - Sumner Auditorium  
Group 2 - coastal/estuary - Munk IGPP 12B  
Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10  
Group 4 - high latitudes - Hubbs 4500
- 1500 Coffee break: There will be two set ups. One outside Sumner Auditorium and one outside Hubbs 4500.
- 1530 Breakout 2 continued
- 1640 Report back from Breakout 2 to plenary Sumner Auditorium
- 1700 Evening talk over beer: Moderator, **Andrew Dickson**, *Scripps Institution of Oceanography*  
**Danny Harvey**, *University of Toronto*: Ocean Mitigation Strategies Sumner Auditorium
- 1800 Dinner on your own: Shuttles will leave for the hotel starting at 1800.

### Thursday, October 11, 2007

- 800 Breakfast Outside the Sumner Auditorium
- 830 Update: **Chris Langdon and Vicki Fabry** Sumner Auditorium
- 845 Session E, Moderator: **Chris Sabine**, *NOAA/PMEL*  
**David Hutchins**, *University of Southern California*: Rising pCO<sub>2</sub> and Oligotrophic Ocean Biology: Winners and Losers in the Central Gyres
- 925 **Uta Passow**, *University of California, Santa Barbara*: Respiration, Decomposition and Export
- 1005 Coffee break Outside the Sumner Auditorium
- 1035 Session F, Moderator: **Dwight Gledhill**, *NOAA Coral Reef Watch* Sumner Auditorium

**Ilsa Kuffner**, *U.S. Geological Survey*: Ocean Acidification Impacts on Coral Reefs - Changes in Community Structure

1115 **Barney Balch**, *Bigelow Laboratory for Ocean Sciences*: Using Remote Sensing to Assess Ocean Acidification Impacts

1200 Lunch and posters: 1 hour Outside the Sumner Auditorium

1300 Breakout 3 (Participants will be given instructions and questions to be answered)

Breakouts rooms are: Group 1 - corals - Sumner Auditorium

Group 2 - coastal/estuary - Munk IGPP 12B

Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10

Group 4 - high latitudes - Hubbs 4500

1500 Coffee Break There will be two set ups. One outside Sumner Auditorium and one outside Hubbs 4500.

1530 Breakout 3 continued

1640 Report back from Breakout 3 to plenary Sumner Auditorium

1700 Workshop Wrap up/Recommendations

1730 Dinner on your own

Shuttles will leave for the hotel starting at 1735.

This workshop focuses on four habitats: warm water coral reefs, coastal areas/estuaries, tropical/subtropical pelagic regions and high latitudes. Each afternoon, participants will split up into these four groups and discuss a set of questions that the steering committee has formulated. The questions will change on days 1, 2 and 3. At the end of each afternoon, participants will assemble to report on their discussions and recommendations to the entire group. Each breakout group will have a leader and rapporteur.

<u>Group</u>	<u>Discussion Leader</u>	<u>Rapporteur</u>
1 Coral reefs	Joanie Kleypas	Marlin Atkinson
2 Coastal/estuaries	Burke Hales	Richard Jahnke
3 Tropical/subtropical pelagic	David Hutchins	Peter Sedwick
4 High latitudes	Barney Balch	John Guinotte

Participants will be initially assigned to groups based on the organizers' knowledge of their interests. A number (from 1 to 4) will be printed on each name tag. Participants may switch groups if the organizers were wrong about their interests, but obviously it is desirable to maintain a rough balance in numbers across the four groups.

**Overview of Rooms:**

Plenary Sessions are in Sumner Auditorium

Breakouts rooms are: Group 1 - corals - Sumner Auditorium

Group 2 - coastal/estuary - Munk IGPP 12B

Group 3 - subtropical/tropical pelagic regions -Old Scripps Bldg. Room 10

Group 4 - high latitudes - Hubbs 4500

Breakfasts, morning breaks, lunch, are outside Sumner Auditorium.

Afternoon coffee breaks are in 2 areas: outside Sumner Auditorium and outside Hubbs Hall 4500.