1st Ocean Acidification Workshop for Principal Investigators (OAPI)
LOGISTICS

- Parking, shuttles, etc.
- WiFi (OAPI)
- Meeting materials
- Posters, reception, dinner
- Sign-up sheet for sharing cars to airport
- Volunteers
- Meeting etiquette
- Mary Zawosky
- Heather Benway
1st Ocean Acidification Workshop for Principal Investigators (OAPI)

“Opie”
## Milestones in U.S. Ocean Acidification Research

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2004</td>
<td>The Ocean in a High CO₂ World I</td>
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<tr>
<td>2005</td>
<td>First Workshop on OA, St Petersburg, FL</td>
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<td>2007</td>
<td>OCB Scoping Workshop on OA, Scripps</td>
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<td>2007</td>
<td>NASA encourages proposals to address OA</td>
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<td>2008</td>
<td>OCB OA Subcommittee formed</td>
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<td>2008</td>
<td>The Ocean in a High CO₂ World II</td>
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<td>2008</td>
<td>OCB Short course on OA</td>
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<td>2009</td>
<td>FOARAM Act is signed by President Obama</td>
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<td>2009</td>
<td>EPA addresses OA within the Clean Water Act</td>
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<td>2010</td>
<td>JSOST forms the Interagency Working Group on OA</td>
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<td>2010</td>
<td>PAGES-NSF Workshop on Paleo-ocean Acidification</td>
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<td>2010</td>
<td>NSF Program Solicitation 10-530 for OA research</td>
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<td>2010</td>
<td>NSF Workshop: Evolution &amp; Climate Change in the Oceans</td>
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<tr>
<td><strong>2011</strong></td>
<td><strong>First OA Principal Investigator’s Meeting</strong></td>
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<tr>
<td>2012</td>
<td>The Ocean in a High CO₂ World III</td>
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THANK YOU

NSF  Phil Taylor, Roberta Marinelli, Dave Garrison, Don Rice, Greg Warr
NOAA  Ned Cyr, Ken Mooney, Libby Jewett, Dick Feely
NASA  Paula Bontempi & Fred Lipschultz
USGS  Lisa Robbins
EPA  Bill Fisher, Christine Ruf
BOEMRE  Mary Boatman
Navy  Courtney St. John
USFWS  Bret Wolfe & Andrew Gude

Ocean Carbon and Biogeochemistry Program
The organizing committee for this meeting
All of you
Special Welcome

Nathan Garcia
Grace Saba
Aradhna Tripati
Samantha Siedlecki
Christina McGraw
Shanlin Wang
Pauline Yu
OCB Ocean Acidification Subcommittee

Joanie Kleypas  NCAR (co-chair)
Dick Feely  NOAA (co-chair)
Sarah Cooley  WHOI
Barney Balch  Bigelow Marine Lab
Scott Doney  WHOI
Vicki Fabry  CSU-San Marcos
Jean-Pierre Gattuso  CNRS/France
David Hutchins  USC
Chris Langdon  RSMAS/Univ. Miami
Lisa Robbins  USGS
Richard Zeebe  Univ. Hawaii

Kleypas & Feely
Cooley
Balch  Doney  Fabry  Gattuso  Hutchins  Langdon  Robbins  Zeebe
New member  New member
“...like trying to put an octopus in a paper bag”
– S Cooley
Goals of the Meeting

Collaborations: Strengthen scientific collaboration and minimize duplication of effort

Capacity-building: Build capacity for improving OA research

Research Goals: Identify short & long-term research goals

Data Management: Promote effective data management

Communication: Enhance communication with the public

OCB-OA: Solicit feedback to guide future OCB-OA activities
**Expected Outcomes**

<table>
<thead>
<tr>
<th>Collaborations:</th>
<th>OA registry – who is doing what; improve on CURRENT research; increase collaboration across labs and disciplines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity-building:</td>
<td>Bring “new” researchers, early career scientists into the fold; activities such as the OA Short course, workshops, data collection, etc</td>
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<tr>
<td>Research Goals:</td>
<td>Community-acquired research goals; what are the exciting, challenging, necessary new avenues?</td>
</tr>
<tr>
<td>Data Management:</td>
<td>Everyone will be aware of this important aspect</td>
</tr>
<tr>
<td>Communication:</td>
<td>Aware of ongoing communication activities; ideas about how to make the most of our science in terms of policy and public awareness</td>
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<td>OCB-OA:</td>
<td>OCB-OA activities better defined; New members for the OA-Subcommittee</td>
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## Themes of the Meeting

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>Paleo &amp; Proxies / Paleomodeling</td>
<td>Heather Benway</td>
</tr>
<tr>
<td>Observations &amp; Monitoring</td>
<td>Lisa Robbins, Dick Feely, &amp; Chris Sabine</td>
</tr>
<tr>
<td>Physiological Responses</td>
<td>Joanie Kleypas &amp; Gretchen Hofmann</td>
</tr>
<tr>
<td>Ecology &amp; Systems Biology</td>
<td>Chris Langdon</td>
</tr>
<tr>
<td>Biogeochemistry &amp; Modeling</td>
<td>Sarah Cooley &amp; Cindy Lee</td>
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</table>
Structure of the Meeting

Each theme:

- **Plenary** – state of the science
- **Synthesis Talks** – currently funded research *(apologies in advance!)*
- **Panels** – building on these activities
- **BOGs** – where do we go from here?
- **Plenary Discussions**
The Big Picture

• Ocean acidification is serious stuff

• Will require team work to tackle the scientific questions

• Will require team work to get the message out and affect policy
Participation
Moving Toward a Mature Program

Interagency Working Group on Ocean Acidification

International Activities

The U.S. National Program on Ocean Acidification
Step 1: Build a Strong Ocean Acidification Research Community

Take Advantage of this Workshop:

Build Collaborations

Learn about others’ research

Contribute to the discussion