

**U.S. Advisory Committee for Scientific Ocean Drilling  
July 19-21, 2011; Washington, D.C.  
Meeting Report**

**MEETING PARTICIPANTS**

**USAC Members**

Gary Acton	University of California, Davis
Beth Christensen	Adelphi University
Jon Lewis	Indiana University of Pennsylvania
Mitch Lyle	Texas A&M University
Anthony Koppers	Oregon State University
Heath Mills	Texas A&M University
J. Casey Moore	University of California, Santa Cruz
Craig Moyer	Western Washington University
Stephen Pekar	Queens College
Liz Screaton (chair)	University of Florida
Susanne Straub	Columbia University

**Consortium for Ocean Leadership Staff**

Jennifer Collins	Program Specialist, Deep Earth Academy
Robert Gagosian	President/CEO
Julie Farver	Manager, Meetings & Travel
Kristin Ludwig	Communications Manager
Charna Meth	Assistant Director, U.S. Science Support Program
Greg Myers	Senior Technical Expert, US Implementing Organization
Leslie Peart	Director, Deep Earth Academy
Emily Powell	Program Specialist, U.S. Science Support Program
Sarah Saunders	Director of Science Communications
Jeff Schuffert	Director, U.S. Science Support Program

**Guests**

Peter deMenocal	Columbia University
Kelsey Dyck	University of California, Santa Cruz; Schlanger fellow
Andy Fisher	University of California, Santa Cruz
Gretchen Gehrke	University of Michigan; Schlanger fellow
Susan Humphris	Woods Hole Oceanographic Institution
Young Ji Joo	Northwestern University; Schlanger fellow
Sean Jungbluth	University of Hawaii at Manoa; Schlanger fellow
Hans Christian Larsen	Integrated Ocean Drilling Program – Management Int'l
Ian Ridley	National Science Foundation
Demian Saffer	Pennsylvania State University
Julia Schneider	University of Texas at Austin; Schlanger fellow

## USAC BUSINESS

1. USAC unanimously approved the report from the February 2011 USAC meeting.
2. USAC unanimously approved the agenda for the July 2011 USAC meeting.
3. USAC unanimously approved Anthony Koppers (Oregon State University) as the new USAC Chair, replacing Liz Sreaton (University of Florida) whose term ends September 30, 2011. Koppers' term as Chair will be October 1, 2011 through September 30, 2013.
4. The winter 2012 USAC meeting was tentatively scheduled to take place in Santa Cruz, CA on January 31 – February 2, 2012 with an alternate date of January 24-26, 2012.
5. Status of incomplete action items from the February 2011 USAC meeting:

**Action Item 1102-1:** Compile select abstracts and peer-reviewed articles related to IODP education activities. (Peart)

*This project has been part of the two reviews conducted this year, and we anticipate completing this task mid-September.*

**Action Item 1102-2:** USAC recognizes that the naming project for the new program generated a great number of ideas and messages about scientific ocean drilling. Develop a document highlighting these messages and potential use. (Saunders)

*Community suggestions regarding target audiences and key messages are currently being incorporated into the 5-Year Strategic Communications Plan, which will be completed by end of August 2011. In addition, a standalone synthesis document will be developed by late September 2011.*

**Action Item 1102-3:** Investigate the possibility for using the *JOIDES Resolution* during the tie-up period for education activities. (Peart)

*Deep Earth Academy conducted a School of Rock review during the tie-up period, but was not approved to investigate or conduct any further activities. We will continue to pursue this task and aim to demonstrate that programs can be managed aboard the ship with minimal impact on maintenance projects.*

## PRESENTATIONS

The following eight presentations were given at the February 2011 USAC Meeting:

- US Science Support Program report (Schuffert)
- Deep Earth Academy report (Peart)
- IODP-Management International report (Larsen)
- US Implementing Organization report (Myers)
- National Science Foundation report (Ridley)
- Engaging Early Career Scientists (Meth)

- Activities of the Leadership Team (Humphris)
- New Program Planning (Screaton)

## **SCHLANGER FELLOWSHIP PRESENTATIONS**

The 2010-2011 Schlanger fellows presented the initial results of their research:

- Kelsey Dyck, University of California, Santa Cruz  
*Western Pacific Warm Pool Temperature Sensitivity to Climate Change*
- Gretchen Gehrke, University of Michigan  
*Deposition of Marine Mercury through the PETM: An Investigation Using Hg Stable Isotopes*
- Young Ji Joo, Northwestern University  
*Stable Carbon Isotope Chemostratigraphy and Implications for Global Carbon Cycling, Cretaceous Western Interior Basin*
- Sean Jungbluth, University of Hawaii at Manoa  
*Molecular Microbial Ecology of Sediment-Buried Ridge Flank Crustal Fluids*
- Julia Schneider, University of Texas at Austin  
*Pore-scale Controls on Mudstone Permeability through Resedimentation Experiments*

## **SUBCOMMITTEE RECOMMENDATIONS**

### **Workshops, Pre-drilling, and Nominations Subcommittee Report**

1. The subcommittee recommended nominations for the IODP Science Advisory Structure (SAS). The nominees will begin serving their three-year terms on October 1, 2011. One nominee will serve a two-year term to allow for a more balanced rotation schedule. After deliberation with the entire committee, USAC approved the nominations.
2. The subcommittee recommended nominations for USAC. The nominees will begin serving their three-year terms on October 1, 2011. After deliberation with the entire committee, USAC approved the nominations.
3. The subcommittee recommended nominations for the 2012-2013 Distinguished Lecturers. After deliberation with the entire committee, USAC approved the nominations.
4. The subcommittee reviewed workshop proposals and provided funding recommendations to USSSP. Proposal topics included:
  - Developing new techniques and core locations to constrain the history of the Greenland Ice Sheet;
  - Scientific drilling in the Indian Ocean;
  - Exploring the Moho beyond the Pacific Ocean; and
  - Drilling on circum-Arctic shallow shelves and upper continental slopes.

### **Staffing Subcommittee Report**

1. Since the February 2011 USAC meeting, the subcommittee has conducted one staffing exercise for Expedition 340 Lesser Antilles.
2. The subcommittee reviewed and prioritized the applications to sail on Expedition 341 Southern Alaska Margin during this meeting.

### **Education and Outreach Subcommittee Report**

1. The subcommittee reviewed the high-level recommendations from the recent education review and suggested focusing on the following items:
  - Enlist previous School of Rock participants to assist in developing metrics for efficacy of educational materials.
  - Target community college and undergraduate audiences for participation in future Schools of Rock.
  - Revise the Deep Earth Academy mission statement.
  - Align educational materials with the scientific themes of the drilling program.
2. The subcommittee recognized and appreciated the efforts of the educational review panel and the resultant detailed report and recommendations. The subcommittee suggests that Deep Earth Academy continue to evaluate the program's success through both short- and long-term assessments. In addition, the subcommittee recommends seeking the assistance of a student researcher in a continued evaluation process.

### **ACTION ITEMS**

**Action Item 1107-1:** USAC recommends establishing a new thematic working group to develop activities for early career researchers in scientific ocean drilling. This thematic working group will be led by Heath Mills and Jon Lewis. (Meth)

**Action Item 1107-2:** USSSP is finalizing the efforts to develop a new website. USAC should participate in this process by conducting a beta-test of the website and provide feedback to USSSP prior to launch. (Saunders)

**Action Item 1107-3:** Prior to AGU, USSSP should encourage the community to acknowledge the drilling program in every talk or poster that includes data from IODP and predecessor programs. The community should also be encouraged to inform USSSP of any talks or posters at AGU that use data from ocean drilling programs. (Meth)

**Action Item 1107-4:** Develop a one-pager concisely describing the proposed scientific plan for the next ocean drilling program. (Meth)

**Action Item 1107-5:** USAC and other community leaders are frequently asked questions by colleagues regarding the goals, status, and importance of the next ocean drilling program. USSSP should create a frequently asked questions section on the website to provide this information to the scientific community. (Powell)

## **CONSENSUS STATEMENTS**

### **Consensus Statement 1102-1:**

The U.S. Science Support Program is funded to support U.S. participation in the Integrated Ocean Drilling Program. A new scientific drilling program will also require a new program to support U.S. participation. USAC recommends input into this process through a survey or other online mechanism that would be reviewed and distilled by a representative steering committee.