

Experiments with Portable Ocean Bottom Seismographs

September 26-28, 2010

SATURDAY, SEPTEMBER 25
4:00 - 6:00PM REGISTRATION

Alpine Lobby

DAY 1 – SUNDAY, SEPTEMBER 26

7:00 - 8:30AM REGISTRATION

Alpine Lobby

7:30AM BREAKFAST

Cottonwood A

8:30AM WELCOME: GOALS OF THE MEETING

Alpine B&C

- Science Goals
 - Facility Goals
 - Overview of PI- and Community-driven Experiments
 - Workshop Products
- Speaker: Doug Toomey*

8:50AM NSF OPENING REMARKS

Alpine B&C

- Future NSF Opportunities
 - Models for Managing and Funding PI- and Community-driven Experiments
 - Models of Managing and Funding Facilities
 - Procuring New Instruments
- Speakers: Bob Detrick and Richard Carlson*

9:20AM OVERVIEW OF CURRENT OBSIP FACILITY
(including Amphibious component)

Alpine B&C

- Types and Number of Instruments
 - Existing Capabilities
 - Standard Operations
 - Data Availability
- Speaker: John Collins*

9:50AM REPORT FROM USER'S RETREAT

Alpine B&C

Speaker: Anne Trehu

10:05AM OBS PRIMER

Alpine B&C

Present FAQ's for 10 minutes with answers, 5 for questions from audience.
Speaker: Jeff Babcock

10:20AM PLENARY DISCUSSION

Alpine B&C

Discussion Leader: Don Forsyth

10:45AM COFFEE BREAK

Alpine Lobby

11:00AM	TALKS: HIGHLIGHTS OF SOME OBSIP EXPERIMENTS <ul style="list-style-type: none"> • QDG Transform – <i>John Collins</i> • PLUME – <i>Garrett Ito</i> • GLIMPSE – <i>Nicholas Harmon</i> • MARGINS/CD Active Source – <i>Gail Christeson and Harm van Avendonk</i> 	Alpine B&C
12:30PM	LUNCH	Cottonwood A
1:30PM	TALKS: EMERGING TECHNOLOGIES <ul style="list-style-type: none"> • New Technologies to Meet the Grand Challenges – <i>John Orcutt</i> • Industry Roadmap for the Future – (<i>Indus. Split</i>) • New Sensors: Seismometers – <i>Jonathan Berger/Mark Zumberge</i> • New Sensors: Bottom Pressure Sensors – <i>Spahr Webb</i> • Reduction of Ocean/Seafloor Noise – <i>Satoru Tanaka</i> 	Alpine B&C
3:20PM	COFFEE BREAK	Alpine Lobby
3:40PM	BREAKOUT SESSION #1: EXPANDING ACCESS AND IMPACT All breakout groups will discuss the following topics, with 20 people maximum in each group. Please sign up for breakout sessions at the Registration table. Breakout rooms for this session are Alpine A, Peruvian A, Peruvian B, and Cottonwood B. <i>Discussion Leaders: Francis Wu, Donna Shillington, Alan Levander, and Anne Sheehan</i> <i>Scribes: Jacqueline Floyd, Jay Pulliam, David Okaya, and Robert Weekly</i> <ul style="list-style-type: none"> IA. Data Access and Availability IB. Expanding OBSIP User Base IC. Improving Educational Footprint ID. Community and PI Experiments IE. Priorities in Technological Development 	
4:40PM	BREAKOUT REPORTS AND PLENARY DISCUSSIONS <i>Discussion Leader: Richard Allen</i>	Alpine B&C
5:40PM	BREAK	Alpine Lobby
6:00PM	DINNER	Cottonwood A
7:00PM	POSTER SESSION	Rendezvous

DAY 2 – MONDAY, SEPTEMBER 27

7:30AM	BREAKFAST	Cottonwood A
8:30AM	RECAP/PLAN	Alpine B&C
8:40AM	TALKS: SCIENCE OPPORTUNITIES FOR EPOBS <i>Discussion Leader: Doug Toomey</i> <ul style="list-style-type: none"> • Ambient Noise Opportunities – <i>Yang Shen</i> • Body/Surface Wave Studies in the Ocean – <i>Alan Levander</i> • Earthquake Mechanics/Fault Studies – <i>Jochen Braunmiller</i> • Examples of Potential Community Experiments – <i>Don Forsyth</i> 	Alpine B&C

- Deep Earth Opportunities – *Satoru Tanaka*
- Subduction Zones – *Geoffery Abers*
- Volcanic Activity – *William Wilcock*
- Coordination with USArray – *Bob Woodward*

10:40AM	COFFEE BREAK	Alpine Lobby
11:00AM	5-MINUTE SCIENCE NUGGETS: IDEAS FROM THE FLOOR <i>Discussion Leader: Doug Toomey</i>	Alpine B&C
11:20AM	BREAKOUT SESSION #2: SCIENCE OPPORTUNITIES <i>Discussion Leaders: Daniel Lizarralde, Robert Dunn, Stephen McNutt, and Yang Shen</i> <i>Scribes: Dayanthie Weeraratne, Maya Tolstoy, James Conder, and Colleen Dalton</i>	
	2A. Passive Continental Margins	Alpine A
	2B. Ridges, Hotspots and Oceanic Mantle	Peruvian A
	2C. Subduction Zones	Peruvian B
	2D. Deep Earth and Mantle Plumes	Cottonwood B
	*Breakout groups separated thematically; each will have similar charges	
12:30PM	LUNCH	Cottonwood A
1:30PM	RECAP OF SCIENCE OPPORTUNITIES <i>Discussion Leader: Anne Trehu</i>	Alpine B&C
2:00PM	INSTRUMENT DEVELOPMENT OPPORTUNITIES AND NEW STRATEGIES FOR DEPLOYMENT <i>Discussion Leader: Jim Gaherty</i>	Alpine B&C
	<ul style="list-style-type: none"> • Trawl protected/ROV recovery – <i>Andrew Barclay</i> <ul style="list-style-type: none"> • Cyberinfrastructure – <i>John Orcutt</i> • Autonomous Instruments – <i>Tim Richardson</i> • European Union Plans – <i>Satish Singh</i> • 5-Minute Technology/Deployment Nuggets: Ideas from the Floor <ul style="list-style-type: none"> • More Accurate Time • Sensor Burial • Ocean Bottom Cables • Deep Deployment, etc. • Discussion <ul style="list-style-type: none"> • NSF/ONR/Other programs for R&D? 	
3:45PM	COFFEE BREAK	Alpine Lobby
4:00PM	BREAKOUT SESSION #3: INSTRUMENT DEVELOPMENT AND DEPLOYMENT OPPORTUNITIES All breakout groups will discuss the following topics, with 20 people maximum in each group. Please sign up for breakout sessions at the Registration table. Breakout rooms for this session are Alpine A, Peruvian A, Peruvian B, and Cottonwood B. <i>Discussion Leaders: Harm van Avendonk, Adam Schultz, Alistair Harding, and Andrew Barclay</i> <i>Scribes: Rob Sohn, Mark Zumberge, Frederick Simons, and Ralph Stephen</i>	
	3A. Instrument Requirements <ul style="list-style-type: none"> • Types of Instruments/Sensors • Duration • Numbers 	

- 3B. Priorities for Optimum Pool Development
- 3C. Accurate Time
- 3D. New/Alternative Models for Deployment

5:15PM **BREAKOUT REPORTS AND PLENARY DISCUSSIONS** **Alpine B&C**
Discussion Leader: John Orcutt

6:50PM **DINNER** Cottonwood A

DAY 3 – TUESDAY, SEPTEMBER 28

7:00AM **BREAKFAST** **Cottonwood A**

8:30AM **RECAP/PLAN** **Alpine B&C**
Discussion Leader: Doug Toomey

- Report of Langseth Meeting – *Graham Kent*
- Breakout Groups Discussing Future of Community and PI Experiments and of Facilities
- Overall Plenary Discussion to Synthesize and Prioritize

8:50AM **BREAKOUT SESSION #4: REQUIREMENTS FOR FUTURE INITIATIVES AND FACILITIES**
REQUIREMENTS FOR COMMUNITY AND PI EXPERIMENTS

All breakout groups will discuss the following topics, with 20 people maximum in each group. Please sign up for breakout sessions at the Registration table. Breakout rooms for this session are Alpine A, Peruvian A, Peruvian B, and Cottonwood B.

Discussion Leaders: Geoffery Abers, Donna Blackman, Doug Wiens, and Graham Kent

Scribes: Harold Vincent, Yev Kontar, Aibing Li, and Lanbo Liu

- 4A. Strategies for Developing Community Initiatives
 - Community Proposals for Initiatives and Instrument Development
 - International Cooperation

- 4B. Organizational Requirements of Community Experiments
 - Experiment Design
 - Proposal Preparation
 - Experiment Execution
 - Collaborative Interpretation/ Funding of Investigators

- 4C. Data Requirements
 - Metadata, Data Archiving
 - Assessment of Data Quality
 - Data Distribution

- 4D. Logistical Requirements
 - Support Services (Engineering, O&M, Deployment Schedules)

- 4E. Facilities
 - Maximizing Scientific Return and Efficiencies of Facilities
 - Management of OBSIP Facility

10:30AM **COFFEE BREAK** **Alpine Lobby**

10:45AM **PLENARY DISCUSSION: SYNTHESIS** **Alpine B&C**
Discussion Leader: Jim Gaherty

12:30PM **ADJOURN** **Alpine Lobby**