

**Oceanic Mantle Dynamics Workshop**  
**Snowbird, Utah**  
**September 18-20, 2002**

**AGENDA**

**Wednesday, September 18<sup>th</sup> AM**

7:00 – 8:30 Continental Breakfast (**Ballroom 2**)

**Meeting Room: Ballroom 1**

Introduction/Goals of Workshop: *Bob Detrick (WHOI) and Don Forsyth (Brown)*

Keynote talks on outstanding questions in upper mantle dynamics/earth structure:

8:45 - 9:15 A geophysical perspective on outstanding questions in upper mantle dynamics/earth structure *Jim Gaherty (Georgia Tech)*

9:15 - 9:30 Discussion - Provocateur: *Sean Solomon (DTM)*

9:30 - 10:00 A petrological/geochemical perspective on outstanding questions in upper mantle dynamics/earth structure *Charles Langmuir (Harvard)*

10:00 - 10:15 Discussion - Provocateur: *Stan Hart (WHOI)*

10:15 - 10:45 Break/poster viewing (**Ballroom 2**)

10:45 - 11:15 A modeler's perspective on outstanding questions in upper mantle dynamics/earth structure: *Neil Ribe (IPG, Paris)*

11:15 - 11:30 Discussion - Provocateur: *Garrett Ito (Univ. of Hawaii)*

11:30 - 12:00 Advances in Seismic Instrumentation: *Spahr Webb (L-DEO)*

12:00 - 12:15 Discussion - Provocateur: *Jim Fowler (IRIS)*

12:15 - 1:30 Lunch (**Aerie Restaurant**) and poster viewing (Ballroom 2)

**Wednesday, September 18<sup>th</sup> PM**

OMD concept and exemplary experiments

1:30 - 1:45 OMD concept: *Don Forsyth (Brown)*

1:45 - 2:15 Discussion - Provocateur: *Bob Detrick (WHOI)*

OMD-type notional experiments:

Mid-ocean ridges

2:15 - 2:30 MOR notional experiment (EPR): *Doug Toomey (Univ. of Oregon)*

2:30 - 2:45 MOR notional experiment (MAR): *Donna Blackman (Scripps/IGPP)*

Mantle plumes

2:45 - 3:00 Plume notional experiment (Hawaii): *Gabi Laske (Scripps/IGPP)*

3:00 - 3:15 Plume notional experiment (Iceland): *Yang Shen (GSO/URI)*

3:15 - 3:45 Break/poster viewing (***Ballroom 2***)

Margins

3:45 - 4:00 Active margins notional experiment: *Doug Wiens (Washington Univ.)*

4:00 - 4:15 Rift/transform margin notional experiment: *Monica Kohler (USC)*

Mid-plate processes

4:15 - 4:30 Anisotropy notional experiment: *Paul Silver (DTM)*

Earth structure (applications of leapfrogging array)

4:30 - 4:45 Earth structure: *Mike Ritzwoller (Univ. of Colorado)*

4:45 - 5:00 Earth structure: *Michael Wysession (Washington Univ.)*

5:00 - 7:00 Reception and poster viewing (***Ballroom 2***)

**Thursday, September 19<sup>th</sup> AM**

7:00 – 8:30 Continental Breakfast (***Ballroom 2***)

***Meeting Room: Ballroom 1***

Introduction

Relationship of OMD to other major geoscience programs

8:30 - 9:00 OMD and MARGINS: *Doug Wiens (Washington Univ.)*

9:00 - 9:30 OMD and R2K: *Maya Tolstoy (L-DEO)*

9:30 – 10:00 OMD and USArray/PBO: *Paul Silver (DTM)*

10:00 - 10:30 OMD and Ocean Seismic Network: *John Orcutt (SIO/IGPP)*

10:30 - 11:00 Break/poster viewing (***Ballroom 2***)

Developing an OMD science plan

11:00 - 12:15 Break up into working groups to discuss implementation of OMD

***Meeting Room: White Pine***

Process-Oriented Exp.: Critical Elements Working Group:

co-chairs: *Dave Bercovici (Yale), Emily Klein (Duke) & Dave Kohlstedt (Univ. of Minnesota)*

***Meeting Room: Red Pine***

OMD and USArray/PBO Working Group:

co-chairs: *Alan Levander (Rice) & Frank Vernon (SIO/IGPP)*

***Meeting Room: Board Room***

Leapfrogging array Working Group:

co-chairs: *John Collins (WHOI) & Barbara Romanowicz (UC Berkeley)*

12:15 - 1:30 Lunch (*Aerie Restaurant*) and poster viewing (Ballroom 2)

**Thursday, September 19<sup>th</sup> PM**

1:30 - 3:00 Working Groups reconvene

3:00 - 3:30 Break/poster viewing (*Ballroom 2*)

3:30 - 5:30 Working Groups reconvene

6:00 - 7:30 Conference Dinner (*Golden Cliff/Eagles Nest*)

**Friday, September 20<sup>th</sup> AM**

7:00 – 8:30 Breakfast Buffet (*Ballroom 2*)

***Meeting Room: Ballroom 1***

8:30 - 10:30 Final plenary session to hear reports of working groups and to discuss general program management issues and approve workshop recommendations

Moderators: *D. Forsyth and R. Detrick*

**Friday, September 20<sup>th</sup> PM**

***Meeting Room: Board Room***

1:00 – 5:00 Workshop Organizing Committee and Working Group Chairs meet to draft Workshop Report