

OCEAN WORLDS 2: AGENDA

Thu Aug 25th, 2016

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| 8:00 – 9:00 | Breakfast |
| 9:00 – 9:15 | Welcome & Introductions
<i>Ellen Stofan (NASA)</i>
<i>Mark Abbott (WHOI)</i> |
| 9:15 – 9:30 | Scientific & Technical Motivation and Framework for Ocean Worlds
<i>Christophe Sotin (JPL) & Jim Bellingham (WHOI)</i> |
| 9:30 – 9:45 | Goals for the Meeting and the Year Ahead
<i>Chris German (WHOI) & Kevin Hand (JPL)</i> |
| 9:45 – 10:00 | Q&A Session |
| 10:00 – 10:50 | Key scientific aspects of Oceans on Earth (1)
<i>(Chair: Chris German)</i>
<i>3 talks (12 min + 4 min Q&A = 48 min)</i> |
| • Paul Falkowski | Biogeochemical Evolution of a Life-Sustaining Planet |
| • Julie Huber | Life in the Extreme: Seafloor Fluid Flow and Chemosynthesis |
| • Mark Skidmore | Life in the Extreme: Microbiology at the Ice-Water Interface |
| 10:50 – 11:10 | Coffee break |
| 11:10 – 12:00 | Key scientific aspects of Oceans beyond Earth (1)
<i>(Chair: Christophe Sotin)</i>
<i>3 talks (12 min + 4 min Q&A = 48 min)</i> |
| • Carolyn Porco | The Geysering World of Enceladus |
| • Bill McKinnon | Geophysics of Ocean Worlds |
| • Krista Soderlund | Ocean Circulation Beyond Earth |
| 12:00 – 13:15 | Lunch |
| 13:15 – 14:20 | Ocean Worlds Technologies: Core components
<i>(Chair: Heidi Perry)</i>
<i>4 talks (12 min + 4 min Q&A = 64 min)</i> |
| • Pete Girguis | Sensors for Investigating the Oceans <i>In Situ</i> |
| • Henrik Schmidt | Acoustics for Interrogating the Oceans Remotely |
| • Dana Yoerger | Robotics for Ocean Exploration |
| • Bob Pappalardo | Mission to Europa |

Fri Aug 26th, 2016

- 8:00 – 9:00 **Breakfast**
- 9:00 – 9:10 Day 1 Comments/Recap: Chris German & Kevin Hand
- 9:10 – 10:30 **System-wide Approaches to Ocean Exploration on Earth**
 (Chair: Kevin Hand)
 4 talks (15 min + 5 min Q&A = 80 min)
- Chris German Nested Exploration Strategies for Seafloor Fluid-Flow
 - Jim Bellingham Coordinated Use of Multi-Platform Systems
 - Heidi Perry Latest Updates on Unmanned Underwater Systems
 - John Delaney Ocean Observatories & exploring Ocean Worlds
- 10:30 – 10:40 **Break**
- 10:40 – 12:00 **Key technologies for Ocean Exploration beyond Earth**
 (Chair: Gregg Vane)
 4 talks (15 min + 5 min Q&A = 80 min)
- Tom Cwik What Constrains Payload/Power/Accessing Ocean Worlds?
 - Ralph Lorenz Sensor Suites for Ocean World Exploration: Huygens
 - Kevin Hand Planetary Sampling
 - Bill Stone Accessing Oceans Beneath Ice
- 12:00 – 13:15 **Lunch**
- 13:15 – 14:00 **Discussion/Synthesis**
 (Chair: Jonathan Lunine)
- 14:00 - 15:30 **Choice of Tours at WHOI**

Option 1: Ocean Observatories & Telepresence

Option 2: Ocean Robotics Laboratories & Research Docks