

Decadal Survey of Ocean Sciences for NSF

August 2-3, 2023

Washington, DC

Purpose

- Discuss progress made towards high-priority science that requires ocean drilling.
- Hear from experts to help determine if there are new equally compelling science priority areas that require scientific drilling.
- Discuss what science priorities can be addressed using existing scientific drilling assets as well as which science priorities require new infrastructure or sampling investments.

WEDNESDAY, August 2, 2023

NAS, ROOM 120 (2101 CONSTITUTION AVE NW, WASHINGTON, DC 20001)

Zoom: <https://nasem.zoom.us/j/92830588708?pwd=dGRZeGRcM0N6UHM2T2pBY1JQMDhOZz09>

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OPEN SESSION (Public)

Part 1: The Ocean Drilling Program Legacy

9:00 – 9:15 Welcome, Introductions, and Meeting Goals

Tuba Özkan-Haller and Jim Yoder, Committee co-Chairs

9:15 – 10:00 Overview of IODP Program

Malone will discuss the history of drilling platforms, contributions from non-US partners, and the most significant findings, with an emphasis on the 2013-2023 time period

Mitch Malone, Texas A&M University

10:00 – 10:15 Briefing from July IODP Town Hall

Jim McManus, Division Director, Division of Ocean Sciences, National Science Foundation

Part 2: Imagining the Future Ocean Drilling Program: Science Priorities

10:15 – 11:00 Briefing on the 2050 Framework of Scientific Ocean Drilling

Anthony Koppers, Oregon State University

11:00 – 11:30 BREAK

11:30 – 12:30 Open Discussion and Panel on the Future of Scientific Ocean Drilling

Each panelist has five minutes to touch on aspects of the following questions:

- 1) What are the opportunities for science over the next decade, given the current assets of the U.S. Scientific Drilling Program?*
- 2) What is the perception of the U.S. scientific community for working with international components of IODP3 (EU and Japan)?*
- 3) What leadership opportunities are there for the U.S. over the next 10-20 years without the JOIDES Resolution platform, but rather a broader sampling portfolio?*
- 4) How do you perceive the future of the drilling program in the context of recent reports (e.g., Ocean Climate Action Plan, UNs) and TIP? How do you see drilling priorities overlapping with broader ocean science priorities?*

Panelists: Anthony Koppers, Oregon State University
Adriane Lam, Binghamton University
Patrick Fulton, Cornell University
Kathie Marsaglia, California State University, Northridge
Moderated by: Jim Yoder, Committee co-Chair

12:30 – 1:00 LUNCH (West Court)

1:00 – 1:30 A Future Vision from LEAPS Report

Larry Krissek, Ohio State University

1:30 – 2:00 Benefits to Overlapping, Cross-disciplinary Ocean and Paleo-Ocean Research Priorities

Daniel Sigman, Princeton University

2:00 – 2:45 Future Perspectives on Scientific Ocean Drilling

9 panelists will give 2 ½ minute lightning talks on what their current research is, how it fits with future priorities, and what scientific ocean drilling means to their research. Moderated discussion will follow.

Panelists: Masako Tominaga, Woods Hole Oceanographic Institution
Chijun Sun, National Center for Atmospheric Research
Adriane Lam, Binghamton University
Chris Lowery, University of Texas
Allyson Tessin, Kent State University
Jason Sylvan, Texas A&M University
Jessica Labonté, Texas A&M University, Galveston
Brandi Kiel Reese, University of South Alabama
Patrick Fulton, Cornell University

Moderator: Tuba Özkan-Haller, Committee co-Chair

2:45– 4:00 Breakout Groups to Discuss Science Priorities (NAS Rooms 120, 114, 118, & 250)

In-person and virtual breakout groups to discuss new or remaining science priority areas that can only be answered with scientific ocean drilling (groups facilitated by committee members).

4:00 – 4:15 BREAK

4:15 – 5:15 Report back from Breakout Groups and Discussion and Convergence on Highest Priorities

5:15 – 5:30 Closing Remarks & Preparation for Day 2

Tuba Özkan-Haller and Jim Yoder, Committee co-Chairs

5:30 – 6:30 Light Dinner (West Court)

6:30 pm ADJOURN PUBLIC SESSION

THURSDAY, August 3, 2023

NAS, ROOM 120 (2101 CONSTITUTION AVE NW, WASHINGTON, DC 20001)

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Part 3: Imagining the Future Ocean Drilling Program: Infrastructure Needs

9:00 – 9:30 Briefing from Science Mission Requirements

Becky Robinson, University of Rhode Island

9:30 – 10:15 Panel Discussion on New Options in Infrastructure

Each panelist has five minutes to present a key issue that needs to be addressed in relation to new options for meeting infrastructure needs.

Panelists: Sean Gulick, University of Texas

Maureen Walczak, Oregon State University

Becky Robinson, University of Rhode Island

Carl Brenner, US Science Support Program

Moderator: Rick Murray, Committee Member

10:15 – 10:30 BREAK

10:30 – 11:30 Breakout Groups to Discuss Advantages and Disadvantages of Infrastructure Options (NAS

Rooms 120, 114 & 118)

11:30 – 12:30 Report-out from Working Groups and Discussion

12:30 – 12:45 Closing Remarks and Next Steps

12:45 – 1:00 LUNCH and ADJOURN PUBLIC SESSION (West Court)

Boxed lunches will be provided; guests can eat at the NAS building or grab and go; the committee will head back to the meeting room for a closed session