

Decadal Survey of Ocean Sciences for NSF Committee Meeting

February 15-16, 2024

Gulfport, Mississippi

Public Agenda

THURSDAY, FEBRUARY 15, 2024

*All times in CDT

Address: University of Southern Mississippi Marine Research Center 1030 30th Ave,
Gulfport, MS 39501

8:00 – 8:15 am Welcome and Introductions

Tuba Özkan-Haller, *Co-Chair*

Kelly Lucas, *University of Southern Mississippi's VPR*

8:15 – 9:00 am Impact of the 2015-2025 Decadal Survey

Discussion with the committee on the impact the last decadal survey had. How were the recommendations received? What was accomplished, changed, or developed as a result of the survey that would not have occurred otherwise?

Moderated by: Tuba Özkan-Haller, *Co-Chair*

Discussants: Jim McManus, National Science Foundation
Rick Murray, Committee Member

9:00 – 10:15 Status and Future of the Academic Research Fleet

Discussion with committee on status and future of the Academic Research Fleet (ARF). How is the ARF being used? Where is it being used? By who is it being used? What is in store for the ARF for the next decade or more? Each panelist will have 10 minutes to present; discussion/QA with the committee will follow.

Moderated by: Jim Yoder, *Co-Chair*

Panelists: Rose Dufour, National Science Foundation
Deborah Bronk, Bigelow Laboratory for Ocean Sciences / UNOLS Chair
Doug Russell, UNOLS Executive Secretary
Robert Shearman, Office of Naval Research, FIC
Robert Sparrock, Office of Naval Research

10:15 – 10:45 BREAK

10:45 – 12:00 Public Private Partnerships in Ocean Sciences

Decadal Survey of Ocean Sciences for NSF

Discussion on successes, lessons learned, and future opportunities for NSF to advance their mission and goals through building public private partnerships to support ocean sciences. Each panelist will have 10 minutes to present; discussion/QA with the committee will follow.

Moderated by: Leila Hamdan, Committee Member

Panelists: *Data Assembly Hub for Uncrewed Systems*
Henry Jones, University of Southern Mississippi

Strengthening Partnerships through the Blue Economy Services and Products
Karen Grissom, National Oceanic and Atmospheric Administration NCEI
Tim Boyer, National Oceanic and Atmospheric Administration NCEI

Partnerships with NSF's Technology, Innovation, and Partnerships Directorate
Almesha Campbell, Jackson State University

12:00 – 1:00pm LUNCH

1:00 – 3:00pm A Future Equitable Ocean Sciences

Discussion on actions NSF can implement or avoid to promote a culture change in the ocean sciences in pursuit of equitable ocean science opportunities. Each panelist has 5 minutes to provide their perspective on solving challenges related to an equitable ocean science community; moderated discussion will follow.

Moderated by: Mona Behl, Committee Member

Panelists: Corey Garza, University of Washington
Christine Yifeng Chen, Lawrence Livermore National Laboratory
Robert Twilley, Louisiana State University
Brandon Jones, National Science Foundation
Aradhna Tripathi, UCLA

3:00 – 3:15 BREAK

3:15 – 5:30 Closed Session

FRIDAY, FEBRUARY 16, 2024

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Address: University of Southern Mississippi Marine Research Center 1030 30th Ave,
Gulfport, MS 39501

8:00 – 8:05 am Welcome and Introductions

Tuba Özkan-Haller, *Co-Chair*

Leila Hamdan, *Committee Member*

8:05 – 9:15 am Opportunities for AI/ML to Advance Ocean Sciences

Discussion with the committee on opportunities for artificial intelligence and machine learning to advance ocean sciences. What sort of new capabilities are on the horizon and what might the next 10 years look like and beyond? 5 minute opening remarks followed by moderated Q&A.

Moderated by: Marcia Isakson

Panelists: Warren Wood, US Naval Research Laboratory
Peter Gerstoft, Scripps Institution of Oceanography
Heidi Sosik, Woods Hole Oceanographic Institution

9:15 – 12:15 pm Ocean Life, Part I

Discussion on future research priorities critical to preserving biodiversity in the oceans. There are three panels; each panelist will have ~10 minutes to present; discussion/QA the committee will follow and panel. The last 45 minutes is reserved for discussion will all the panelists.

9:15am Overview of Biodiversity Issues (45 minutes)

Moderated by: Jason Link, Committee Member

Panelists: *Biodiversity at the heart of the ocean ecosystem:
The frontier for the coming decade*
Gabrielle Canonico, National Oceanic and Atmospheric Administration
Emmett Duffy, Smithsonian Institution

The Role of Diversity in Resilience
Joey Bernhardt, University of Guelph

10:00am Response to Climate Change (60 minutes)

Moderated by: Peter Girguis, Committee Member

Panelists: *Species distributions and changes in climate*
Malin Pinsky, University of California Santa Cruz

Ecosystem interaction changes as a function of climate
Steven Murawski, University of South Florida

Coral reef changes in the next 100 years

Sarah Davies, Boston University

11:00am New Tools in Discovering Biodiversity: eDNA (30 minutes)

Moderated by: Josie Quintrell, Committee Member

Panelists: Paul Barber, University of California Los Angeles
Zachary Gold, National Oceanic and Atmospheric Administration

11:30 Discussion all Ocean Life, Part I Panelists

Moderated by: Josie Quintrell, Committee Member

12:15 – 1:00pm LUNCH

1:00 – 5:30 pm Closed Session