

**WEST COAST FORUM 2013**  
**RESPONSIVE & ADAPTIVE MANAGEMENT STRATEGIES**

**The Clement Monterey, Monterey CA**  
**November 13-16, 2013**

**Forum Objectives**

The purpose of the 2013 West Coast Forum is to explore the use and potential of responsive and adaptive management strategies for achieving management goals. Specifically, participants will:

- Explore the theory, concept and field of adaptive management;
  - Investigate examples of adaptive management in practice across natural resource sectors and draw lessons from those experiences;
  - Examine the process components of adaptive management and how they could be utilized in the context of US federal fisheries management;
  - Build skills to lead their councils in discussions of goals and objectives;
  - Discuss the value and structure of learning within the council system, and explore resource management as a platform for targeted learning;
  - Consider the potential for existing regulatory structures, processes and tools available to councils to support adaptive management strategies; and
  - Explore innovative partnerships and their potential for advancing responsive management.
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**Wednesday, November 13**

**6:00 – 9:00 pm**

**Welcome reception**

*Taste of Monterey, 700 Cannery Row, Ste. KK, in Monterey*

*Walk from Clement Monterey Hotel (directions provided). This is casual! Late arrivals are encouraged to attend.*

**Thursday, November 14**

**7:30 – 8:30 am**

**Breakfast**

*The Clement Monterey, Pacific Ballroom*

**8:30 – 9:00 am**

**Opening remarks and participant introductions**

- Opening remarks  
*John Henderschedt, Executive Director, Fisheries Leadership & Sustainability Forum*
- Agenda overview  
*Kim Gordon, Program Manager, Fisheries Leadership & Sustainability Forum*
- Participant and speaker introductions

**9:00 – 9:45 am**

**Introduction to adaptive management**

Objective: Introduce the foundations of adaptive management, including its theoretical origins, how the concept has evolved over time, the difference between adaptation, being adaptive, and adaptive management, and the continuum of approaches that can be applied within the scope of adaptive management.

*Dr. Ken Williams, Executive Director, The Wildlife Society; formerly Co-Director, Science and Decisions Center, US Geologic Survey*

**9:45 – 10:00 am**

**BREAK**

**10:00 – 12:00 pm**

**Adaptive management in practice**

Objective: Explore case study examples of how adaptive management has been applied across natural resource disciplines.

***Adaptive management in the US Forest Service: The Northwest Forest Plan***

*Dr. Bernard Bormann, Principal Forest Ecologist, US Forest Service; Professor, Oregon State University*

***Adaptive management in the US Department of the Interior: Waterfowl Harvest Management***

*Dr. Ken Williams, Executive Director, The Wildlife Society; formerly Co-Director, Science and Decisions Center, US Geologic Survey*

***Adaptive management in Australia: The Great Barrier Reef***

*Dr. Campbell Davies, Principal Research Scientist, Pelagic Predator Ecology and Dynamics, Commonwealth Scientific and Industrial Research Organization (CSIRO)*

**12:00 – 1:00 pm**

**LUNCH**

*The Clement Monterey, Pacific View Courtyard*

**1:00 – 1:15 pm**

**Operationalizing adaptive management: Overview of process components**

Objective: Provide an overview of common components of the adaptive management process, focusing on three specific process components that will serve as the focus for Forum discussions.

*Fisheries Forum staff*

**Adaptive management process components**

**Part A: Setting goals and objectives**

**Part B: Resource management as a learning process**

**Part C: Iterate and adapt**

1:15 – 4:00 pm

**Part A: Setting goals and objectives**

Objective: Explore strategies for structuring the development of goals and objectives, discuss how councils currently utilize goals and objectives, and compare with the use of goals and objectives in an adaptive management program.

**Presentation and exercise: Navigating divergent perspectives when setting goals and objectives**

*Dr. Janet Martinez, Director, Gould Negotiation and Mediation Program, Stanford Law School, Stanford University*

Discussion questions:

- At what level(s) does your council establish goals and objectives (e.g. FMP, specific fishery, and/or council action)?
- How have you engaged stakeholders and other necessary perspectives to inform setting goals and objectives?
- How does your council structure discussion around goals and objectives?
- How are goals and objectives operationalized to inform management decisions?

4:00 – 5:30 pm

**Part B: Resource management as a learning process**

**I. Using models and articulating hypotheses**

Objective: Explore how models have been used in adaptive management programs, including qualitative and conceptual models, and the role of articulating hypotheses as a platform for learning about the system through the adaptive management process. Understand management strategy evaluation as a tool within existing management frameworks as well as within adaptive management frameworks.

***Panel Discussion: The use of models in adaptive management***

- *Dr. Bernard Bormann*
- *Dr. Campbell Davies*
- *Dr. Ken Williams*

***Presentation: Management Strategy Evaluation***

*Dr. Campbell Davies, Principal Research Scientist, Pelagic Predator Ecology and Dynamics, Commonwealth Scientific and Industrial Research Organization (CSIRO)*

7:00 – 10:00 pm

**Cocktail reception and dinner**

***Special presentation: The secret lives of white sharks***

***Salvador Jorgenson, Research Scientist, Monterey Bay Aquarium***

*Monterey Bay Aquarium, 886 Cannery Row, Monterey*

*Walk from Clement Monterey Hotel (directions provided)*

**Friday, November 15**

**7:30 – 8:30 am**      **Breakfast**  
*The Clement Monterey, Pacific Ballroom*

**8:30 – 8:45 am**      **Welcome and recap of Day 1**

**8:45 – 10:15 am**      **Part B: Resource management as a learning process (cont'd)**

**II. Developing and implementing targeted monitoring programs**

Objective: Provide insight into how the design and implementation of monitoring programs plays a critical role in the learning process of adaptive management strategies. Share innovative examples of targeted monitoring programs across council regions and discuss how monitoring programs could be further leveraged to inform fisheries management.

***Presentation: Science for adaptive management: MPA monitoring in California***  
*Dr. Liz Whiteman, Program Director, California Ocean Science Trust, MPA Monitoring Enterprise Director*

Discussion question:

- How has your council linked monitoring programs to program evaluation and/or used information gained from monitoring to inform subsequent decisions?
- How does your council currently inform the design and implementation of monitoring programs?

**10:15 – 10:30 am**      **BREAK**

**10:30 – 12:00 pm**      **Part B: Resource management as a learning process (cont'd)**

**III. Assessing information and observed outcomes**

Objective: Examine the evaluation and assessment phases of the adaptive management case studies, including how the evaluation was structured and how information was communicated to managers. Share examples across council regions of the processes currently in place to assess and evaluate performance of managed fisheries.

***Panel Discussion: Lessons from case study examples***

- *Dr. Bernard Bormann*
- *Dr. Campbell Davies*
- *Dr. Ken Williams*

***Regional roundtable: Assessing and evaluating across council regions***

*Facilitators: Fisheries Forum staff*

Discussion questions:

- What processes does your council employ to evaluate the performance of your managed fisheries, or to assess new information learned as a result of applying a particular management measure or strategy?
- What metrics are used to measure performance or inform your understanding of the system?
- How does your council capture what is learned, and how does that information inform future decisions?

**12:00 – 1:00 pm**

**LUNCH**

*The Clement Monterey, Pacific View Courtyard*

**1:00 – 3:00 pm**

**Part C: Iterate and adapt**

Objective: Explore existing processes and procedures for facilitating adaptive responses to new information and changing conditions within the US federal fisheries management framework, and share successes and challenges with their practical implementation. Discuss how these tools could be leveraged within an adaptive management approach.

***Presentation: Balancing public participation and the need for speed***

*Ms. Marian Macpherson, Management and Program Analyst, Office of Sustainable Fisheries, NOAA Fisheries Service*

***Regional Experiences: How have councils used framework adjustments and regulatory amendments?***

*Facilitators: Fisheries Forum staff*

Discussion questions:

- How have you used these processes and tools to respond to new information and changing conditions?
- What are the inherent benefits and challenges of viewing management as a longer term, iterative process?

**3:00 – 3:15 pm**

**BREAK**

- 3:15 – 4:15 pm**      **Spotlight session: Industry partnerships as a strategy for responsive management**  
Objective: Explore examples of science and management partnerships with the fishing industry as a potential pathway for promoting responsiveness outside traditional regulatory pathways.
- Dynamic ocean management: TurtleWatch in the Western Pacific***  
*Dr. Elliott Hazen, Assistant Research Biologist, University of California at Santa Cruz; Affiliate Researcher, NOAA Southwest Fisheries Science Center*
- Salmon bycatch in the North Pacific: An evolution in regulatory structure***  
*John Henderschedt, Executive Director, Fisheries Leadership & Sustainability Forum; Vice Chairman, North Pacific Fishery Management Council*
- 4:15 – 5:00 pm**      **Group discussion: Can adaptive management complement the council system?**  
Objective: Reflect on the information presented throughout the Forum and discuss the feasibility and value that adaptive management strategies may contribute to management of US federal fisheries.  
*Facilitators: Fisheries Forum staff*
- 5:00 – 5:30 pm**      **Closing comments and evaluations**
- 6:30 – 9:30 pm**      **Dinner**  
*The Fish Hopper, 700 Cannery Row, Monterey*  
*Walk from Clement Monterey Hotel (directions provided)*

**Saturday, November 16**

- 7:00 – 8:15 am**      **Breakfast**  
*C Restaurant, Clement Monterey Hotel*
- 8:15 – 12:00 pm**      **Field trip – Wildlife viewing in Monterey Bay**  
*Meet in the lobby of the Clement Monterey Hotel at 8:15 am*  
*Walk or shuttle from Hotel (directions provided) to Fisherman's Wharf, Monterey*
- 12:00 – 1:00 pm**      **Lunch**  
*Heritage Harbor Patio across from Fisherman's Wharf*