

# Pathways Toward Responsible Aquaculture in California

*Moss Landing Marine Labs, 8272 Moss Landing Road,  
Moss Landing CA 95039*

**Day 1: Friday August 10th, 8:30 am - 5:30 pm**

7:30 - 8:30 am:	<b>Registration</b>
8:30 - 8:40 am:	<b>Welcome - California Sea Grant and Moss Landing Marine Labs</b>
8:40 - 8:50 am:	<i>The Role of Aquaculture in Providing Sustainable Food Security and Prosperity</i> - Wayne Porter (Naval Post Graduate School)
8:50 - 9:10 am:	<i>Marine Aquaculture - California Style!</i> - Mike Rust (NOAA)
9:10 - 9:30 am:	<i>California, the Land of Opportunity for Marine Aquaculture...? And Why one Person Took the Plunge</i> - Jerry Schubel and John Molina (Aquarium of the Pacific)
9:30 - 9:45 am:	<i>California Aquaculture, Where We are and How did We Get Here?</i> - Tony Vaught (California Aquaculture Association)
9:45 - 11:15 am:	<b>Potential Economic Impacts of Aquaculture to California</b>
9:45 - 10:00 am:	<i>Aquaculture, Biomarine and the California Blue Economy</i> - Michael Jones (The Maritime Alliance)
10:00 - 10:15 am:	<i>Current and Future Economic Trends of Aquaculture</i> - Shaun Richards (The Center for the Blue Economy at the Middlebury Institute of International Studies)
10:15 - 10:30 am:	<i>Aquaculture in California: A Need, An Opportunity, A Leader</i> - Mike King (Kings Seafood)
10:30 - 10:45: am	<i>Economic Considerations for Offshore Mussel Aquaculture from a Port District Perspective</i> - Doug Bush (Ventura Shellfish Enterprise)
10:45 - 11:00 am:	<i>Marine Finfish Farming in Southern California - From R&amp;D to Commercial Reality?</i> - Mark Drawbridge and Don Kent (Hubbs Seaworld Research Institute)
11:00 - 11:15 am:	<i>Aquaculture and Blue Economy Initiatives at the Port of San Diego</i> - Paula Sylvia (Port of San Diego, Aquaculture and Blue Tech)
11:15 - 11:30 am:	<b>Break</b>
11:30 - 11:45 am:	<i>Perspective of the California Natural Resources Agency for the Future of Aquaculture in the State</i> - John Laird (California Secretary of Natural Resources)
11:45 am - 12:45 pm:	<b>Case Studies of Aquaculture Activities in or with Relevance to California</b>
11:45 am - 12:00 pm:	<i>Good Things Grow Slowly</i> - Terry Sawyer (Hog Island Oyster Company)
12:00 - 12:15 pm:	<i>Aquaculture in the Northwest Atlantic - Challenges and Sustainable Solutions</i> - Simona Augyte (University of Connecticut)
12:15 - 12:30 pm:	<i>Mariculture Development off Baja California, Mexico</i> - José A. Zertuche-González (Universidad Autónoma de Baja California)
12:30 - 12:45 pm:	<i>Aquaculture Trends in Chile and an Analysis of some Sustainability Issues</i> - Alejandro Buschmann (Universidad de Los Lagos)
12:45 - 1:45 pm:	<b>Catered Lunch</b>

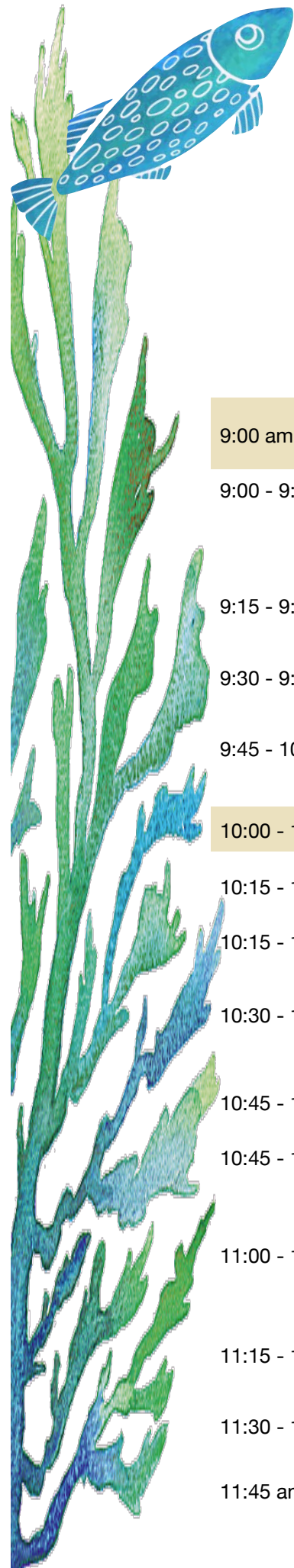


1:45 - 2:45 pm:	<b>Case Studies of Aquaculture Activities in or with Relevance to California</b>
1:45 - 2:00 pm:	<i>Promises and Pitfalls of Emerging Technological Innovations in the Aquaculture Sector</i> - Dane Klingner (Conservation International)
2:00 - 2:15 pm:	<i>The Role of Seafood Watch in Improving the Sustainability of Global Aquaculture</i> - Lisa Tucker (Monterey Bay Aquarium Seafood Watch)
2:15 - 2:30 pm:	<i>Offshore Aquaculture - Fast Forward to the Future</i> - Neil Sims (Kampachi Worldwide Holdings)
2:30 - 2:45 pm:	<i>Feedkind Protein: California-based Feed Ingredient to Support Sustainable Aquaculture</i> - Josh Silverman (Calysta)
2:45 - 3:35 pm:	<b>Social and Environmental Considerations - Concerns and Proactive Responses</b>
2:45 - 3:00 pm:	<i>Resolving Controversial Issues in Marine Finfish Aquaculture</i> - Paul Olin (California Sea Grant)
3:00 - 3:15 pm:	<i>Value and Confidence Across the Chain: How Third-party Certification can Deliver Transparency and Build Public Trust</i> - Contessa Kellogg-Winters (Aquaculture Stewardship Council)
3:15 - 3:30 pm:	<i>A Guide to Collaborative Efforts to Address Public Misperceptions about Marine Aquaculture</i> - Kim Thompson (Aquarium of the Pacific)
3:35 - 3:45 pm:	<b>Break</b>
3:45 - 4:35 pm:	<b>Social and Environmental Considerations - Concerns and Proactive Responses</b>
3:45 - 3:57 pm:	<i>Addressing Potential Interactions Between Protected Species and Aquaculture Gear</i> - Diane Windham (NOAA Fisheries)
3:57 - 4:09 pm:	<i>Aquaculture by Design: Restorative Aquaculture and Smart Growth</i> - Tiffany Waters (The Nature Conservancy)
4:09 - 4:21 pm:	<i>Inclusive Opportunities for Aquaculture: Working Closely with Coastal Communities to Create Aquaculture Opportunities that Empower Fishermen, Improve Ecological Health, and Reinforce the Local Food System</i> - Alan Lovewell (Local Bounty/Real Good Fish)
4:21 - 4:33 pm:	<i>The Essential Bond Between Fishing and Farming</i> - William Foss and Kenny Belov (Two by Sea)
4:35 - 5:20 pm:	<b>Regulatory Landscape of Aquaculture in California and Beyond</b>
4:35 - 4:50 pm:	<i>Caught in the Framework: Identifying the Hits and Misses of State Aquaculture Regulation</i> - Randy Lovell (California Department of Fish and Wildlife)
4:50 - 5:05 pm:	<i>A Compressed History of the Virginia Oyster Industry from 1895-2018. What has Changed, What has not, and What Should</i> - Andrew Button (Virginia Marine Resources Commission)
5:05 - 5:20 pm:	<i>Hog Island Oyster Company and it's Path Through California's Regulations</i> - John Finger (Hog Island Oyster Company)
5:20 - 5:30 pm:	Closing Remarks - California Assemblymember Mark Stone
5:30 - 7:30 pm:	<b>Social Event - Sustainable Seafood Showcase</b> - Featuring chefs Matthew Beaudin and Adam young (Monterey Bay Aquarium) and James Anderson (The Poke Lab)



**Special Thanks to All of Our Partners!**





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**Day 2: Saturday August 11th, 9 am - 4:30 pm**

## **9:00 am - 12 pm: Exploring the Potential for Responsible Aquaculture in the Monterey Bay National Marine Sanctuary**

- 9:00 - 9:15 am: *Summary of Day 1 and Introduction to Monterey Bay National Marine Sanctuary Session*  
- Katherine O'Dea (Save our Shores) and Mike Graham (Monterey Bay Seaweeds)
- 9:15 - 9:30 am: *Perspective of Monterey Bay National Marine Sanctuary on aquaculture*  
- Paul Michel (Monterey Bay National Marine Sanctuary)
- 9:30 - 9:45 am: *State Regulatory Perspective and How it Interacts with the Sanctuary*  
- Randy Lovell (California Department of Fish and Wildlife)
- 9:45 - 10:00 am: *Mariculture and Conservation*  
- Mark Silberstein (Elkhorn Slough Foundation)

## **10:00 - 10:15 am: Break**

## **10:15 - 10:45 am: Current Aquaculture Operators in the Monterey Bay National Marine Sanctuary**

- 10:15 - 10:30 am: *Monterey Abalone Company*  
- Art Seavey
- 10:30 - 10:45 am: *Monterey Bay Seaweeds*  
-Mike Graham

## **10:45 - 11:45 am: Potential for Restorative Aquaculture in the Sanctuary to Mitigate Environmental Issues**

- 10:45 - 11:00 am: *Lessons Learned from Integrating Fish Aquaculture and Agriculture Throughout California*  
- Tony Vaught (California Aquaculture Association)
- 11:00 - 11:15 am: *Aquaculture as a Tool for Restoring Native Oyster and Understanding Lost Species Interactions*  
- Brent Hughes (University of Washington)
- 11:15 - 11:30 am: *New Technologies for Turning Aquaculture Waste into Biofuel and Fertilizer*  
- Mike Cox (Anaerobe Systems)
- 11:30 - 11:45 am: *Aquaculture in Partnership with Terrestrial Farmers*  
- Ross Clark (Central Coast Wetlands Group)
- 11:45 am - 12:00 pm: *Can the Sanctuary Become a Global Model for Integrating Aquaculture-Agriculture to Secure Food, Water, and Energy?*  
- Mike Graham (Monterey Bay Seaweeds)



12:00 - 12:05 pm:

**LIFT Economy and Sustainable Design Masterclass - Emergent Restorative Seaweed and Shellfish Economies in California**

12:05 - 1:00 pm:

**Lunch (HOG Island Oyster Bar, Salt Point Seaweeds Seaweed Salad, Box Lunches)**

1:00 - 2:30 pm:

**Panel Discussion: What is Happening in California Now and What is the Restorative Potential for Current Ocean Initiatives in California?**

- Moderator: Erin Axelrod (LIFT Economy)
- Leslie Booher and Torre Pollizi (Sunken Seaweeds)
- Scotty Schmidt (Primary Ocean Producers)
- Dr. Jose Zertuche (Blue Evolution)
- Lindsay Cruver (Catalina Sea Ranch)

2:30 - 2:45 pm:

**Break and Networking Opportunity**

2:45 - 4:00 pm:

**Panel Discussion: What are the Next Steps Towards Establishing Additional Restorative Ocean Farms and Businesses in California?**

- Moderator: Michael Murphy (PharmerSea and Eco-EconFuture)
- Severino Gomes (Kashia Band of Pomo Indians)
- Karen Gray (Greenwave)
- Renee Angwin (San Diego State University)

4:00 - 4:30 pm:

**Closing Conversation and Next Steps**

- Erin Axelrod (LIFT Economy)
- Michael Murphy (PharmerSea and Eco-EconFuture)

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