

Red Tide Mitigation & Technology Development Initiative Workshop

Technology Advisory Council Public Meeting

Mote Aquaculture Research Park Conference Center

January 30-31, 2025 8:30 am-4:00 pm EST

This meeting is open to the public.

Council Members in Attendance: Dr. Michael P. Crosby, Dr. Katherine Hubbard, Dr. Kathleen Rein, Dr. James Powell (virtual)

Program Agenda

Thursday January 30th, 2025

8:30-9:15	Welcome/Breakfast Dr. Michael Crosby, President & CEO, Mote Marine Laboratory (0:00:00) <i>Welcoming Comments</i> Kevin Claridge, Vice President of Sponsored Research, Mote Marine Laboratory <i>Red Tide Initiative Overview</i> Taylor Armstrong, University of Maryland (0:29:15) <i>US HAB-CTI</i>
9:15-10:00	Red Tide Research- Tier 1 Domenic Contrino, Carbonxt (0:35:00) <i>Pelletization of algaecides</i> Vijay John, Tulane University (0:57:00) <i>Targeted destruction of Karenia brevis</i>
10:00-10:30	Break & Group Photo
10:30-11:15	Red Tide Research- Tier 2 Cindy Heil, Mote Marine Laboratory (0:00:00) <i>Curcumin as a natural product for K. brevis and toxin removal strategy</i> Matthew Clancy, UltraTech International, Inc. (0:16:00) <i>Ultra- Archaea</i> Jessica Frost, BlueGreen Water Technologies (0:30:30) <i>Lake Guard® Oxy</i>
11:15-12:00	Red Tide Research- Tier 3 Steve McKenzie, Prescott Clean Water Technologies, LLC. (0:47:50) <i>Ozonix</i> Don Anderson, Woods Hole Oceanographic Institute (1:02:30) <i>Double indemnity for Karenia: modifying clay for improved cell and toxin removal</i> Dana Wetzel, Mote Marine Laboratory (1:27:40) <i>Natural compound control and mitigation for red tide blooms</i>
12:00-1:00	Lunch

1:00-1:30	Red Tide Research- Tier 3 David Spiers, Heartland Energy Group (0:00:00) <i>Non-toxic biodegradable formulation (Xtreme)</i> George Philippidis, University of South Florida (0:18:10) <i>EMF technology & natural algicide bacteria suppression</i>
1:30-2:00	Red Tide Research- Outside Funding Lynn Wilking, National Oceanic and Atmospheric Administration (0:38:00) <i>DinoSHIELD</i> Jennifer Toyoda, Mote Marine Laboratory (0:52:10) <i>Evaluation of a TAML® small molecule catalyst with hydrogen peroxide</i>
2:00-2:30	Break
2:30-3:30	Deployment Jake Siciliano, Mote Marine Laboratory (0:00:00) <i>Emergency response</i> Stephen Pelna, Lewis Environmental Ben Hilton, A-C-T Environmental & Infrastructure Andy Eggebrecht, Emerge Marine Brandon Rau, AquaTech Eco Consultants Craig Funkhouser, Leading Edge Aerial Technologies
3:30-4:00	Introduction to Tomorrow's Topics Kevin Claridge, Mote Marine Laboratory <i>Regulations and permitting</i>
4:00-7:00	Reception at Big Top Brewery

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8:30-9:00	Breakfast
9:00-11:00	Permitting & Regulations Lizabeth Longstreet, Mote Marine Laboratory (0:00:00) <i>Pre-meeting outcomes</i> Cindy Smith, Conn & Smith Inc. (0:17:45) <i>FIFRA & FFDCA Regulations</i> Rashmi Singh, Florida Department of Agriculture and Consumer Services (1:01:50) <i>Pesticide regulatory oversight</i> Lauren Gottfreid, Florida Department of Environmental Protection (1:28:15) <i>National Pollutant Discharge Elimination System</i> Daniel Sensi, Florida Department of Environmental Protection (1:53:00) <i>ERP permitting process for red tide mitigation</i>
11:00-11:30	Break
11:30-12:30	Permitting & Regulations John Fellows, U.S. Army Corps of Engineers (0:03:00) <i>Corps permitting overview</i> Michelle Smith, Florida Department of Agriculture and Consumer Services (0:31:20) <i>Florida marine biotoxin management</i> Open Discussion
12:30-1:30	Lunch
1:30-2:30	Local Government- Panel Discussion (0:00:00) Kelli Levy, Pinellas County Holly Milbrandt, City of Sanibel Nikesh Patel, City of Sarasota Brandon Moody, Charlotte County Charlie Hunsicker, Manatee County
2:30-3:00	Break

3:00-3:45	Partnerships & Leveraging Felix Martinez, National Oceanic and Atmospheric Administration (1:15:50) <i>NCCOS Competitive Research Program HAB Funding</i> Meghan Abbott, Florida Fish and Wildlife Conservation Commission (1:34:20) <i>HAB Task Force</i>
3:45-4:00	Closing Comments Kevin Claridge & Lizabeth Longstreet, Mote Marine Laboratory <i>Karenia & Beyond</i>