

10th Annual FIRO Workshop – Agenda

August 1-3, 2023

Center for Western Weather and Water Extremes, Scripps Institution of Oceanography, La Jolla, CA
Workshop Theme: What have we learned? How is FIRO being applied? Where are we going?

Date/Time	Agenda Item
Tuesday, August 1st - 9AM-Noon - Day 1 Location: Ted Scripps Room	
8:00 - 12:00	Pre-workshop Side Meetings Side Sessions as planned
Tuesday, August 1st - 1 PM-5PM Seaside Forum	
1:00-1:45	Opening Remarks and Keynote Speaker <u>Opening Remarks:</u> Marty Ralph, Director, Center for Western Weather and Water Extremes and Cary Talbot, USACE ERDC <u>Keynote Speaker:</u> Karla Nemeth, CA DWR Director Questions and Discussion
1:45-2:45	Water Year 2023: In Review (Moderator: Rob Hartman, RKHartman Consulting) <ul style="list-style-type: none"> • Response to Precipitation Extremes - Mike Anderson (CA DWR) • AR Activity During WY 2023 - Chad Hecht (CW3E) • Operational Considerations in Adjusting to Changing Forecasts - John James (Yuba Water)
2:45-3:15	Break
3:15-4:00	Selected FIRO Project Updates (Moderator: Duncan Axisa, CW3E) <i>Dashboard will show timeline and status of FIRO projects to kick off a brief presentation by each FIRO partner focusing on a unique aspect of their project</i> <ul style="list-style-type: none"> • Russian River - Don Seymour (Sonoma Water) • Prado Dam - Adam Hutchinson (Orange County Water District) • Yuba-Feather - John Leahigh (CA DWR) • Howard Hanson - Sara Marxen (USACE) • Seven Oaks Dam - Greg Woodside (San Bernardino Valley Municipal Water District)
4:00-5:00	FIRO: The Next Five Years (Moderator: Arleen O'Donnell, ERG) <i>In this session, we will discuss implementing FIRO in different parts of the country; alignment of Water Control Manual updates and FIRO implementation; and the status and challenges of the Nationwide FIRO screening process</i> <ul style="list-style-type: none"> • New Reservoir Configurations and Weather Regimes - Cary Talbot (USACE) • Nationwide FIRO Screening Process - Elissa Yeates (USACE) • Linking FIRO and Water Control Manual Updates - Sean Smith (USACE)
5:00-7:00	Reception and Posters - Seaside Forum and Lawn

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Wednesday, August 2 - Day 2 Seaside Forum	
8:00-8:30	Coffee and Conversation
8:30-8:45	Opening Remarks and Introduction of Keynote Speaker (Marty Ralph, CW3E)
8:45-9:00	Keynote Speaker <i>TBN</i>
9:00-10:00	Moving the FIRO Needle (Moderator: Cary Talbot, USACE ERDC) <i>Jay Cordeira (CW3E), Rachel Weihs (CW3E), Brett Whitin (CNRFC), and Beth Faber (USACE HEC). Opportunities for Improving FIRO Outcomes from beginning to end</i>
10:00-10:30	Break
10:30-12:00	Breakout Sessions - Part I Topic 1: Incorporating FIRO into Water Control Manuals - A New Frontier (Moderator: Jay Jasperse, Sonoma Water and CW3E) <ul style="list-style-type: none"> • WCM Update Process - Joe Forbis (USACE ERDC) • Lake Mendocino WCM Update - Patrick Sing (USACE) • Yuba-Feather WCM Alignment - Jenny Fromm (USACE) Topic 2: Environmental Considerations for FIRO (Moderator: Janel Mayo, CW3E) <ul style="list-style-type: none"> • FIRO Benefits for Russian River Fisheries - Josh Fuller (NOAA NMFS) • Habitat Enhancement at Seven Oaks Dam - Chris Jones (SBVMWD) • Least Bell's Vireos at Prado Dam - Karin Cleary-Rose or Rollie White (USFWS) Topic 3: Stakeholder Participation and Outreach (Moderator: Arleen O'Donnell, ERG) <ul style="list-style-type: none"> • Yuba-Feather Outreach Efforts - Anna Wilson (CW3E) • Tribal Outreach Efforts and Considerations - Jessica Knickerbocker (Tacoma Water) and Sara Marxen (USACE) • Incorporating Environmental Justice into FIRO - Sarah Ogle (CW3E)
12:00-1:00	Lunch
1:00-2:30	Plenary: FIRO Implementation - Progress and Challenges (Moderator: Rob Hartman, RKHartman Consulting) <ul style="list-style-type: none"> • FIRO in Action in the Russian River Watershed - Patrick Sing (USACE) and Chris Delaney (CW3E) • Reservoir Operations at New Don Pedro Dam - Wes Monier (Turlock Irrigation District)

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2:30- 3:00	<ul style="list-style-type: none"> FIRO Potential in the Willamette River Basin - Salina Hart (USACE Portland District)
3:00-4:30	<p>Break</p> <p>Breakout Sessions - Part II</p> <p>Topic 1: FIRO-MAR: An Innovative Approach for Climate Resiliency? (Moderator: Jay Jasperse, Sonoma Water and CW3E)</p> <ul style="list-style-type: none"> Flood-Mar Watershed Study - Jim Wieking (CA DWR) Water Rights and SGMA Considerations - Sam Boland-Brien (SWRCB) Prado Dam FIROMar - Adam Hutchinson (OCWD) <p>Topic 2: Forecast Skill for FIRO Operations (Moderator: Duncan Axisa, CW3E)</p> <ul style="list-style-type: none"> Forecast Skill Assessment at FIRO Sites and Methodology for National Skill Assessment - Rachel Weihs (CW3E) The Importance of Hydrologic Ensemble Forecast System - Alan Haynes (CNRFC) Progress on S2S Forecast Skill - Mike Deflorio (CW3E) <p>Topic 3: Decision Support Tools (Moderator: Chris Delaney, CW3E)</p> <ul style="list-style-type: none"> Atmospheric River Decision Support Tools - Chad Hecht (CW3E) Decision Support with EFO - Chris Delaney (CW3E) Developments in Ensembles Capabilities for Real-Time and Planning Applications from the Hydrologic Engineering Center (HEC) - Evan Heisman (USACE HEC)
4:30-5:00	
5:00-8:00	<p>Regroup in Forum for Closing Comments (Arleen O'Donnell and Rob Hartman)</p> <p>CW3E 10th Anniversary Reception – Seaside Forum and Lawn</p>

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Thursday, August 3 - Day 3 Seaside Forum	
8:30-9:00	Coffee and Conversation
9:00-10:15	High Level Recap of Six Breakout Sessions (Moderator: Arleen O'Donnell)
10:15-10:45	Break
10:45-11:45	Plenary Panel (Moderator: Joe Forbis, USACE ERDC) <i>Sean Smith (USACE), Marty Ralph (CW3E), and Grant Davis (Sonoma Water).</i> <i>Panelists discuss FIRO Past, FIRO Present and FIRO Future with audience participation</i> <ul style="list-style-type: none"> • How is FIRO being applied and what have we learned? • Where is FIRO going?
11:45-12:00	Closing Comments and Adjourn (Marty Ralph and Cary Talbot)