

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 |
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| Tuesday, August 1st - 8AM-Noon - Day 1 Location: Scripps Seaside Forum Complex | |
| 8:00 - 12:00 | Pre-workshop Side Meetings Side Sessions as planned |
| Tuesday, August 1st - 1 PM-5PM Seaside Forum | |
| 1:00-1:30 | Opening Remarks (Moderator: Arleen O’Donnell) Marty Ralph, Director, Center for Western Weather and Water Extremes and Cary Talbot, USACE ERDC Questions and Discussion |
| 1:30-2:30 | 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) |
| 2:30-3:00 | Break |
| 3:00-4:00 | 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 | |
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| 8:00-8:30 | Coffee and Conversation |
| 8:30-8:35 | Welcome and Keynote Speaker Introduction: Marty Ralph, Director, CW3E |
| 8:35-8:50 | Keynote Speaker: Karla Nemeth, Director, CA Department of Water Resources |
| 8:50-10:00 | 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 Location: Scripps Seaside Forum Auditorium (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 Location: Ted Scripps Meeting Room 165 (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 - Kevin O'Toole (OCWD) Topic 3: Stakeholder Participation and Outreach Location: Robert Scripps Meeting Room 160 (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, Seattle District) ● 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) |

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| | <ul style="list-style-type: none"> ● Reservoir Operations at New Don Pedro Dam - Wes Monier (Turlock Irrigation District) ● FIRO Potential in the Willamette River Basin - Salina Hart (USACE Portland District) |
| 2:30- 3:00 | Break |
| 3:00-4:30 | <p>Breakout Sessions - Part II</p> <p>Topic 1: FIRO-MAR: An Innovative Approach for Climate Resiliency? Location: Robert Scripps Meeting Room 160 (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 Location: Scripps Seaside Forum Auditorium (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 Location: Ted Scripps Meeting Room 165 (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 | Regroup in Forum for Closing Comments (Arleen O’Donnell and Rob Hartman) |
| 5:00-8:00 | CW3E 10th Anniversary Reception – Seaside Forum and Lawn |

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| Thursday, August 3 - Day 3 Seaside Forum | |
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| 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) |