

**2018 FIRO WORKSHOP –AGENDA
TUESDAY JULY 31 – THURSDAY AUGUST 2**

MEETING LOCATION:

Seaside Forum
Scripps Institution of Oceanography
8610 Kennel Way
La Jolla, CA

Meeting sponsored by the Scripps Institution of Oceanography, Center for Western Weather and Water Extremes and Sonoma County Water Agency

MEETING PURPOSE:

- Briefing on Lake Mendocino Final Viability Assessment
- Discuss FIRO Transferability
- Explore Collaboration Opportunities
- Learn about FIRO Scientific Advancements

LAKE MENDOCINO FIRO STEERING COMMITTEE:

Marty Ralph – Co-chair (UCSD/Scripps/CW3E)
Jay Jasperse – Co-chair (SCWA)
Mike Anderson (CA DWR)
Nick Malasavage (USACE)
Joseph Forbis (USACE)
Natalie Manning (NOAA - NMFS)
Alan Haynes (NOAA, NWS CNRFC)
Robin Webb (NOAA OAR)
Levi Brekke (US BOR)
Mike Dettinger (USGS)
Cary Talbot (USACE – ERDC)

COMMITTEE SUPPORT

Arleen O'Donnell, ERG
David Ford, Ford Consulting
Rob Hartman, RKH Consulting Services

LOGISTICS:

- Continental breakfast will be provided Wednesday and Thursday
- Lunch provided Wednesday
- Dress is casual

Tuesday July 31st 12:30-5:00 PM

12:30-1:00 Arrival and Networking

1:00- 1:15 Introductions and Opening Remarks

1:15-2:00 FIRO Updates – Roundtable Report from Steering Committee

2:00-2:45 Lake Mendocino FIRO – Preparation of Final Viability Assessment:
 Overview, Roadmap and Progress to Date

2018 FIRO WORKSHOP –AGENDA
TUESDAY JULY 31 – THURSDAY AUGUST 2

- Jay Jasperse, Sonoma County Water Agency (15 min)
- Rob Hartman, RKH Consulting Services (15 min)
- Questions and Discussion (15 min)

2:45-3:00 Break

3:00 – 4:45 Collaboration on Hydrological and Meteorological Prediction at Regional and National Scales: Panel Presentation and Discussion

- National Water Center/National Water Model – Ed Clark, National Weather Service (NWS), Director of the National Water Center (20 min)
- Unique Needs of the Western U.S. - Jeff Zimmerman, NWS, Chief, Western Region Operations and Decision Support (20 min)
- Development and Support for Hydrologic Ensemble Forecast System- Ernie Wells, NOAA NWS Hydrologist and Alan Haynes, NWS, California-Nevada River Forecast Center (20 min)
- Questions and Facilitated Discussion (45 min)

4:45-5:00 Wrap Up Day One

5:30-7:30 4th Anniversary Celebration of the Center for Western Weather and Water Extremes (Stone Brewery, 2816 Historic Decatur Rd., San Diego)

Wednesday, August 1st 9:00-5:00 PM

9:00-9:15 Opening Remarks and Reflections on Day One

9:15-10:30 FIRO Transferability

- Introduction – Cary Talbot, U.S. Army Corps of Engineers (10 min)
- California Statewide Initiatives - Mike Anderson, CA Department of Water Resources (DWR) (15 min)
- Prado Dam: Unique Considerations (30 min)
 - Greg Woodside, Orange County Water District (Project Objectives)
 - Jon Sweeten, U.S. Army Corps of Engineers (Operational Perspective)
 - Forest Cannon, Center for Western Weather and Water Extremes (Meteorological Characteristics)
- Discussion (20 min)

10:30-10:45 Break

10:45-11:15 Bureau of Reclamation FIRO Pilot Project Update

- Ken Nowak, U.S. Bureau of Reclamation

11:15-11:45 Flood Benefits of FIRO

- Cary Talbot, U.S. Army Corps of Engineers, ERDC

11:45-1:00 Lunch

1:00-1:45 Ensemble Forecast Operations Model: Background, Enhancements and Applications

2018 FIRO WORKSHOP –AGENDA
TUESDAY JULY 31 – THURSDAY AUGUST 2

- Chris Delaney, Sonoma County Water Agency

- 1:45-2:30 Russian River Decision Support System Demonstration
 - Introduction – Mike Anderson, CA DWR (10 min)
 - Nathan Pingel and Mike Konieczki, Ford Consulting (20 min)
 - Questions and Discussion (15 min)

- 2:30-3:30 Groundwater Considerations of FIRO
 - Introduction – Jay Jasperse, Sonoma County Water Agency (5 min)
 - GSSHA Update - Chuck Downer and Steve Turnbull, USACE (15 min)
 - FloodMAR (Floodwater for Managed Aquifer Recharge) - Kamyar Guivetchi, CA DWR (15 min)
 - Conjunctive Management – Armin Munevar, Jacobs Engineering (15 min)
 - Questions and Discussion (10 min)

- 3:30-3:45 Break

- 3:45-6:00 Poster Session (with cocktail hour)

Thursday August 2nd 9:00-Noon

- 9:00-9:15 Opening Remarks

- 9:15 – 10:45 Science Contributions to FIRO
 - Selected Highlights: Scientific Research Informing the Lake Mendocino Final Viability Assessment - Marty Ralph, CW3E and Rob Hartman, RKH Consulting Services (15 min)
 - Coupling the National Water Model with A Reservoir System Simulation Model: Russian River Basin Case Study – Jungho Kim, NOAA ESRL (15 min)
 - Atmospheric River Reconnaissance – What’s New? - Marty Ralph (15 min)
 - Field Observations: Progress and Leveraging Results - Anna Wilson, CW3E and Bob Zamora, NOAA ESRL (15 min)
 - Discussion (30 min)

- 10:45-11:00 Break

- 11:00-11:45 FIRO Collaborative Approach Open Discussion: How it Happened, Why It Works and Potential Model for Interagency Collaboration
 - Lake Mendocino FIRO Steering Committee -Marty Ralph and Jay Jasperse (Co-chairs) kickoff discussion

- 11:45 – Noon Closing Remarks

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TUESDAY JULY 31 – THURSDAY AUGUST 2**

FIRO Workshop Ends

ADDITIONAL WORK SESSIONS:

Tuesday, 31 July

8:30-10:30 **Technical Session** – Research Collaborations on Russian River Hydrology Modeling (Invitation open to all attending the FIRO workshop)

Thursday, 2 August

Noon-1:30 Lake Mendocino FIRO Steering Committee Meeting (Committee Members Only)

1:30-4:30 **Technical Session** - Science Work Group: Atmospheric River Duration and Intensity (Invitation open to all attending the FIRO workshop)