

**Integrated Environmental Modeling for Estuarine System Management**  
**May 21-22, 2015**  
**Workshop Program**

**Wednesday May 20<sup>th</sup>, 2015 evening:**

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5:30 PM No host icebreaker: Welcome by Chris Enright – Delta Science Program.  
Participant Introductions “[Tres Hermanas](#)” (5:30 PM, 805 2<sup>nd</sup> Street, Davis -- 2nd St between G and I near rail depot)

**Thursday May 21<sup>st</sup>, 2015**

[UC Davis Activities and Recreation Center](#) – Ballroom A

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**8:30 AM REGISTRATION**

**Introductory Session: Peter Goodwin**

8:45 AM Peter Goodwin—Welcome and objectives of the workshop  
8:55 AM Mark Cowin – Department of Water Resources  
9:05 AM Will Stelle (NOAA)  
9:15 AM Bill Cooper (NSF, INFEWS)  
9:25 AM Randy Fiorini (Delta Stewardship Council)

**9:35-10:00 AM NETWORKING BREAK**

**I) Integrated Environmental Modeling: Connecting system processes I: Jay Lund**

10:00 AM Mark Stacey (UC Berkeley)  
10:10 AM Robert Argent (Bureau of Meteorology Australia)  
10:30 AM Joseph Lee (Hong Kong University)  
10:50 AM Karel Heynert (Deltares)  
11:10 AM Richard Howitt (UC Davis)  
11:30 AM Ciaran Harman (Johns Hopkins)

**11:50 AM - 12:40 PM LUNCH (BUFFET PROVIDED)**

**II) Integrated Environmental Modeling: Connecting system processes II: Josue Medellin**

12:40 PM Scott Peckham (Colorado University Institute of Arctic and Alpine Research)  
1:00 PM Rob Hartman (National Weather Service)  
1:20 PM Daniele Tonina (University of Idaho)  
1:40 PM John Bratton (Great Lakes Environmental Research Lab)

**2:00-2:20 PM NETWORKING BREAK**

**III) Decision Support systems: Organizations that bridge the science-policy gap: Chris Enright**

2:20 PM Lead-in decision support talk: Denise Lach (Oregon State University)  
2:40 PM Facilitated Panel Discussion: Denise Lach (Oregon State University)  
Randy Fiorini (Delta Stewardship Council)  
David Okita (California Natural Resources Agency)  
Robert Argent (Bureau of Meteorology Australia)

**3:30-3:40 PM NETWORKING BREAK**

# Integrated Environmental Modeling for Estuarine System Management

## May 21-22, 2015

### Workshop Program

**IV) It is an integrated ocean-bay-delta-watershed system: Ways forward for community system modeling and data for systems knowledge and management decision support: Benjamin Bray**

3:40 PM Steve Monismith (Stanford University)  
4:00 PM Steve Brandt (Oregon State University)  
4:20 PM Lisa Lucas and Noah Knowles (USGS; CASCaDE)  
4:40 PM Pop-up talks by exhibitors (1 minute each): Peter Goodwin  
4:50 PM Wrap-up today and next steps for tomorrow

#### **5:00 PM Evening Session (with food and drinks)**

Demonstrations of data analytics, modeling, and decision support systems. Informal hands-on demonstration and opportunities for participants to talk with model developers. Confirmed presenters include: The Nature Conservancy; ESSA (Delta EFT), Bay-Delta Live, DWR Delta Modeling; UCD Hobbes Framework, Karl Benedict (UNM).

## **Friday May 22nd, 2015**

[UC Davis Buehler Alumni Center](#)

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**9:00 AM Review/synthesis of day 1 and orientation: Jay Lund**

**9:20 AM Panel of Table Moderators facilitated by Bruce DeGennaro**

1. **Nigel Quinn:** How do we update and maintain system conceptual models as a knowledge organizing framework for integrated modeling?
2. **Karl Benedict:** What is the role of open-source or public domain community models?
3. **Scott Peckham:** Integrated environmental models and data analytics for holding system complexity: How do we get there?
4. **Campbell Ingram:** Decision support: How can integrated models and data analytics be used effectively for decision making in a world of diverse stakeholders?
5. **Jay Lund:** What are organization options that encourage integrated modeling and knowledge discovery?
6. **David Senn:** What is a good business model for consultants/NGO modelers and data analytics people for engaging and supporting agencies?

**10:20-10:50 AM NETWORKING BREAK**

**10:50 AM Round-table break-out Session 1**

**11:35 AM Round-table break-out Session 2**

**12:20-1:20 PM LUNCH (PROVIDED)**

**1:20 PM Round-table break-out Session 3**

**2:05-2:20 PM SHORT BREAK**

**2:20 PM Panel of white paper authors to report out round-table topics (10 min each)**

Robert Argent, Michael McWilliams, Steve Lindley, Stuart Siegel, Jon Burau and Ryan Luster

**3:20 PM Perspectives on transformative approaches to management and policy decision support**

**3:45 PM Wrap up and next steps by Peter Goodwin**

**4:00 PM POST-MEETING RECEPTION WITH FOOD AND BEVERAGES**