



## **2009 IEP Workshop Series**

### **Workshop 1: Physical Modeling and Fish Management**

May 26 & 27, 2009  
CALFED Delta Room  
650 Capitol Mall, 5<sup>th</sup> Floor, Sacramento CA 95814

#### **Workshop Purpose:**

- Provide an overview of hydrodynamic and coupled physical-biological modeling in the San Francisco estuary;
- Focus on physical modeling and fish management: how can the various physical models inform fish biologists and managers in the SF estuary?
- Foster public discussion about the models, their applications and limitations, and the role of the IEP with respect to modeling activities;
- Initiate a review of IEP hydrodynamic modeling activities by the IEP Science Advisory Group (SAG).

## **Tuesday, May 26**

**9:00 – Noon; Chair: Chuck Armor, DFG**

#### **2009 IEP Workshop Series Introduction**

- 9:00 – 9:10 Welcome - Chuck Armor, DFG  
9:10 – 9:30 IEP Program update and 2009 IEP workshop series preview – Kelly Souza, DFG  
9:30 – 10:00 IEP Science update and workshop purpose – Anke Mueller-Solger, CALFED  
10:00 – 10:30 BREAK  
10:30 – 11:15 Introduction to models and modeling in the San Francisco estuary  
Stephen Monismith, Stanford and Chair, IEP Science Advisory Group  
11:15 – 11:30 Questions and discussion

**11:30 – 1:00 Lunch (NOT PROVIDED)**

#### **Brown-Bag Lunch talk (11:45 – 12:45)**

Modeled Regime Shifts in the North Pacific – Thomas (Zack) Powell, UCB

**1:00 – 5:00; Chair: S. Monismith, Stanford U.**

**Modeling Workshop Block I:** The landscape of hydrodynamic models for the San Francisco estuary

- 1:00 – 1:45 Planning and Real Time DSM2 Simulations at DWR – Tara Smith, DWR



- 1:45 – 2:30 REALM: Modeling Bay Delta Problems on Mixed Spatial and Hydrologic Scales – Eli Ateljevich, DWR
- 2:30 – 3:15 Delta TRIM Hydrodynamic modeling in CASCaDE – Nancy Monsen, USGS
- 3:15 – 3:30 BREAK
- 3:30 – 4:15 3-D UnTRIM Hydrodynamic and Simulations of the Sacramento-San Joaquin Delta and Clifton Court Forebay – Michael MacWilliams & Ed Gross
- 4:15 – 4:45 High-resolution 3D hydrodynamics and sediment transport modeling of San Francisco Bay – Oliver Fringer, Stanford
- 4:45 – 5:00 Wrap-up and announcements for Day 2

**5:30: DINNER (arranged but not paid by IEP/CALFED)** – please RSVP Jill McGee, [jmcgee@calwater.ca.gov](mailto:jmcgee@calwater.ca.gov) by May 19, 2009.

## Wednesday, May 27

**9:00 – Noon; Chair: Lenny Grimaldo, USBR**

**Modeling Workshop Block II: Modeling for fish management in the San Francisco Estuary**

- 9:00 – 9:30 Introduction – L. Grimaldo, USBR
- 9:30 – 10:00 Data Analyses and Modeling to Understand the Effects of Hydrodynamics on Delta Smelt Distributions and Abundance – Pete Smith, USGS retired
- 10:00 – 10:30 Turbidity-migration model for delta smelt – John DeGeorge, RMA
- 10:30 – 11:00 BREAK
- 11:00 – 11:30 Export adjustment using DSM2-PTM and PEI – Kijin Nam, DWR
- 11:30 – Noon Delta Smelt Distribution and Entrainment Estimates from 3D Particle Tracking – Ed Gross & Michael MacWilliams

**Noon – 1:00 Lunch (NOT PROVIDED)**

**1:00 – 4:30; Chair: Steve Culberson, CALFED**

- 1:00 – 1:30 Fish Simulation Models for Evaluating Water Project Operations and Habitat Enhancements – Brad Cavallo, Cramer Fish Sciences
- 1:30 – 2:00 Annual Striped Bass Consumption Rates of Prey in the Bay Delta from 1969-2004 – Frank Loge, UCD
- 2:00 – 2:15 BREAK
- 2:15 – 2:45 Using 3-dimensional modeling to investigate mechanisms for freshwater flow effects on fish-Wim Kimmerer, SFSU
- 2:45 – 4:30 Facilitated discussion and/or SAG comments (facilitators: L. Grimaldo, S. Culberson, S. Monismith)
- 4:30 *Adjourn*