



## 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 [Coupled physical biological models for the low salinity zone](#) – Wim Kimmerer, SFSU
- 2:45 – 4:30 Facilitated discussion and/or SAG comments (facilitators: L. Grimaldo, S. Culberson, S. Monismith)
- 4:30 *Adjourn*