

REVISED NOTICE  
CALFED Science Program Workshop

**The Development of a Research Framework to Assess the Role of Ammonia/Ammonium on the Sacramento-San Joaquin Delta and Suisun Bay Estuary Ecosystem**

March 10-11, 2009  
9:00 a.m. – 5:30 p.m.  
650 Capitol Mall, 5<sup>th</sup> Floor  
Bay- Delta Room  
Sacramento, CA 95814

**This workshop will not be webcast**

---

**Workshop Purpose:**

The purpose of the workshop is to provide a venue for open discussion among interested parties to identify data and science gaps and develop a scientific research framework to determine the role of ammonium and ammonia within the Sacramento-San Joaquin Delta (Delta) and Suisun Bay (Bay) ecosystem. This research framework will be scientifically sound, developed in an open forum, and thoroughly reviewed.

**Workshop Approach:**

A panel of national experts (Panel) in riverine and estuarine nutrient dynamics, food web processes, and ecotoxicology will assess the best available science in a workshop setting. The Panel will develop a draft Research Framework with input from local experts (invited scientists who are conducting research in the Delta and Estuary relative to the topic of interest in the workshop), stakeholders (invited interest groups and entities who have been engaged in the issue of ammonium-ammonia in the Delta and Estuary), and the interested public.

**Products:**

Four products will result from this workshop: 1) Research Framework prepared by the Panel that will identify key research questions and needs along with recommended methods and protocols to effectively address the key questions; 2) Data and Science Gap Analysis (DaSGA) prepared by a stakeholder committee based on the Research Framework; 3) Panel review of the DaSGA; and 4) a summary of the workshop prepared by CALFED Science Program staff.

**Panelists**

**Patrick J. Mulholland, PhD** - Oak Ridge National Laboratory.

**Professor Hans Paerl, PhD** - University of North Carolina at Chapel Hill.

**Amelia K. Ward, PhD** - University of Alabama.

**Joseph S. Meyer, PhD** - Professor emeritus, University of Wyoming.

## AGENDA

*(Order of agenda items and listed times are subject to change.)*

### March 10, 2009

- 9:00 a.m. 1. Welcome
2. Introduction - Dr. Cliff Dahm, CALFED Lead Scientist
  3. Ammonia/ammonium overview - Dr. Anke Mueller-Solger, IEP Lead Scientist
  4. Brief presentations by each Panel member on ammonia/ammonium related riverine and estuarine nutrient dynamics, food web processes, and ecotoxicology
  5. Facilitated discussion – Panel, local experts, and stakeholders organized into three sections: general fate and transport, food web interactions, and toxicity.
- 12:30 p.m. Lunch
6. Continued facilitated discussion
  7. Public comment
  8. Summary of main points
- 5:30 p.m. Adjourn

### March 11, 2009

- 9:00 a.m. 1. Private deliberation by the panel to develop a Research Framework Outline
2. Stakeholders, local experts, and the general public will engage in further facilitated discussion of issues.
- 12:30 p.m. Lunch
3. Presentation of a draft Research Framework Outline by the Panel
  4. Panel discussion with key stakeholders
  5. Public comment
- 5:30 p.m. Adjourn
- Please visit the Science Program website for the most up-to-date information and more details on this workshop at [http://www.science.calwater.ca.gov/events/workshops/workshop\\_ammonia.html](http://www.science.calwater.ca.gov/events/workshops/workshop_ammonia.html)
  - If you have any additional questions, please contact Al Vargas at (916) 445-0715 or [avargas@calwater.ca.gov](mailto:avargas@calwater.ca.gov).
  - If you need reasonable accommodation due to a disability, please contact Terry Smith, CALFED Bay-Delta Program at (916) 445-5511, TDD (800) 735-2929.
  - Please allow extra time for parking and federal building security screening procedures. Current photo identification is required for building access. **Visitors may bring cameras and cell phones with camera capability into the building ONLY with the prior approval of the CALFED Bay-Delta Program and the Federal Protective Service, and their use in the building will be subject to federal restrictions.** Please contact Terry Smith, Security Coordinator for the CALFED Bay-Delta Program, cell (916) 716-1904, office (916) 445-5345 or [tsmith@calwater.ca.gov](mailto:tsmith@calwater.ca.gov) for building access information and camera guidelines.