

July 14, 2008

-Meeting Notice-

CALFED Science Program Workshop

**The Use of Artificial Propagation as a Tool for
Central Valley Salmonid and Delta Smelt Conservation**

Thursday, July 24, 2008
8:30 a.m. to 4:30 p.m.
Delta Conference Room
650 Capitol Mall, 5th Floor
Sacramento, CA 95814

This meeting will be Webcast.

<http://www.visualwebcaster.com/event.asp?regd=y&id=49706>

Workshop Purpose

The construction of dams and large water diversions, extensive introduction of non-native fishes and water pollution have imperiled many fish species and populations endemic to western river systems. Not surprisingly, fishery managers are increasingly raising native fishes in captivity, often with the hope of reintroducing them to habitats from which they have disappeared. Raising organisms in captivity is called artificial propagation (AP); AP has sometimes been a successful component of animal restoration strategies. However, there are well-founded scientific concerns that AP and related strategies can compromise the genetic fitness of the populations they are intended to restore.

This workshop will provide an opportunity for information exchange among scientists and managers who are already trying to use AP to preserve rare fishes and those planning to use AP for the preservation and reintroduction of Bay-Delta species. A second purpose is to explore the following questions in a panel discussion:

- 1) What are the pros and cons of AP as a tool in the recovery of endangered fish in the Bay-Delta system?
- 2) Under what circumstances can AP be used effectively for endangered fish conservation?
- 3) When should AP not be used?

- 4) What kinds of fishes might be more or less amenable to a successful AP/reintroduction program?
- 5) Are there alternatives to AP that should be used for endangered fish conservation?

Workshop Product

The CALFED Science Program will produce a written report on the workshop. This report will include:

- The key points made by each presenter
- An overview of the scientific uncertainties highlighted during the workshop
- Collaborative responses to the questions listed above

In addition, development of an essay will be considered for publication in *San Francisco Estuary and Watershed Science* online journal.

The report and speakers' presentations will be posted on the CALFED Science Program website http://www.science.calwater.ca.gov/science_index.html.

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

AGENDA

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| 8:30 | Welcome and Introduction
Dr. Cliff Dahm, CALFED Lead Scientist |
| 8:40 | Artificial Propagation: general background, examples and guidelines
Dr. Phil Hedrick, Arizona State University |
| 9:40 | Management of genetic resources in the federally endangered Rio Grande silvery minnow
Dr. Tom Turner, University of New Mexico |
| 10:10 | Break |
| 10:25 | USFWS plans for captive propagation of delta smelt
Mr. Bob Clarke, US Fish and Wildlife Service |
| 10:55 | Development of a delta smelt refuge: an aquaculturist's insights
Dr. Bradd Baskerville-Bridges, UC Davis |
| 11:25 | Delta smelt refugial population genetics
Dr. Katie Fisch, UC Davis/Scripps Institute of Oceanography |

- 11:55 **Lunch**
- 1:30 **Supplementing natural populations of Pacific salmon:
risk-benefit considerations and a review of empirical results**
Dr. Robin Waples, National Marine Fisheries Service
- 2:15 **Integrating genetics into artificial propagation planning
for salmonid re-establishment**
Dr. Josh Israel, UC Davis
- 2:45 **Panel Discussion**
Facilitated by Cliff Dahm and Matt Nobriga, CALFED Science Program
- 4:00 **Public Comment**
- 4:30 **Adjourn**
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If you need reasonable accommodation due to a disability, please contact Debbie Mininfield, 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 for building access information and camera guidelines.