

**California-Nevada Amphibian Populations Task Force
January 12-13, 2012**

**Sequoia House
643 Bee Street
Placerville, California**

FINAL AGENDA

- Chair:** David Bradford, US Environmental Protection Agency, National Exposure Research Laboratory, Las Vegas, NV
- Meeting Coordinator:** Jef Jaeger, University of Nevada-Las Vegas, School of Life Sciences, Las Vegas, NV
- Placerville Hosts:** Rob Grasso, Eldorado National Forest, Placerville, CA
Jann Williams, Eldorado National Forest, Placerville, CA
- Meeting Support:** Friends of PARC (Partners in Amphibian and Reptile Conservation), now Amphibian and Reptile Conservancy

Wednesday, January 11, 2012

- Evening Informal, non-hosted gathering at Brick Oven Pizza, 2875 Ray Lawyer Drive, Placerville. From hwy 50 in Placerville take the Forni Road exit. Eastbound or westbound veer toward the right off the Forni Road exit off ramp and continue on Placerville Drive, then turn right onto Ray Lawyer Drive (traffic light and just past Raleys Food Market). Take first left into shopping plaza; Brick Oven on right.

Thursday, January 12, 2012

- 7:45-8:30 am **Registration and Refreshments**
- 8:30-8:45 am **Introduction and Announcements.** Dave Bradford¹ and Rob Grasso². ¹US Environmental Protection Agency, Las Vegas, NV; ²Eldorado National Forest, Placerville, CA
- 8:45-8:55 am **Welcome to Eldorado National Forest.** Kathy Hardy, Supervisor, Eldorado National Forest, Placerville, CA
- Session 1** Moderator: Dave Bradford, US Environmental Protection Agency, Las Vegas, NV
- 8:55-9:20 am **Can the Sierra Madre Yellow-legged Frog be Saved in Southern California? A Case Study.** Adam Backlin^{1*}, Elizabeth Gallegos², and Robert Fisher³. ¹US Geological Survey, Irvine, CA; ²US Geological Survey, Irvine, CA; ³US Geological Survey, San Diego, CA. (25 min)

- 9:20-9:45 am **Populational Variation of Evasive Behavior in the Oregon Spotted Frog (*Rana pretiosa*).** Kyle Tidwell^{1*}, David Shepherdson², and Marc Hayes³. ¹Portland State University, Portland, OR; ²Oregon Zoo, Department of Conservation and Research, Portland, OR; ³Wildlife Management Program, Olympia, WA. (25 min)
- 9:45-10:10 am **Using Traditional Fisheries Technology to Monitor a Highly Aquatic Frog (*Rana luteiventris*) in Central Nevada.** Chad Mellison^{1*}, Mike Cotter¹, Andy Starostka¹, and Jim Harvey². ¹U.S. Fish and Wildlife Service, Nevada Fish and Wildlife Office, Reno, NV; ²U.S. Forest Service, Humboldt-Toiyabe National Forest, Sparks, NV. (25 min)
- 10:10-10:45 am **Break** (35 min)
- 10:45-11:10 am **Conservation Genetics at the Margins of a Species' Boundary: A Case Study on the California Red-legged Frog (*Rana draytonii*) in Southern California.** Jonathan Richmond*, Kelly Barr, Adam Backlin, and Robert Fisher. U. S. Geological Survey, Western Ecological Research Center, San Diego, CA. (25 min)
- 11:10-11:35 pm **Evidence of Chytridiomycosis Resistance in Pacific Chorus Frog (*Pseudacris regilla*) Suggests Role as Reservoir in Disease Spread.** Natalie Reeder^{1*}, Allan Pessier², and Vance Vredenburg¹. ¹Department of Biology, San Francisco State University, San Francisco, CA; ²Wildlife Disease Laboratories, Institute for Conservation Research, San Diego Zoo Global, San Diego, CA. (25 min)
- 11:35-11:50 am **Status of the California State Listing of the Mountain Yellow-Legged Frog (*Rana sierrae* and *Rana muscosa*) as Threatened / Endangered.** Mitch Lockhart, Fisheries Branch, California Department of Fish and Game, Sacramento, CA. (15 min)
- 11:50-1:20 pm **Lunch** (90 min)
- Session 2** Moderator: Roland Knapp, Sierra Nevada Aquatic Research Laboratory, University of California, Mammoth Lakes, CA
- 1:20-1:45 pm **Update: Columbia Spotted Frog (*Rana luteiventris*) Habitat Restoration and Population Monitoring in Central Nevada.** Rachel Van Horne^{1*}, Jim Harvey¹, and Chad Mellison². ¹U. S. Forest Service, Humboldt-Toiyabe National Forest, Sparks, NV; ²U. S. Fish and Wildlife Service, Nevada Fish and Wildlife Office, Reno, NV. (25 min)
- 1:45-2:10 pm **California's Amphibian and Reptile Species of Special Concern.** Robert Thomson, Amber Wright*, and H. Bradley Shafer. Center for Population Biology, University of California, Davis, CA. (25 min)
- 2:10-2:35 pm **Amphibian Exposure to Aquatic Herbicides.** Amy Yahnke^{1*}, Christian E. Grue¹, Marc P. Hayes², and Alexandra Troiano¹. ¹Washington Cooperative Fish and Wildlife Research Unit, School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA; ²Habitat Program, Washington Department of Fish and Wildlife, Olympia, WA. (25 min)

- 2:35-3:00 pm **Re-examination of Approaches to Manipulating Invasive Reed Canarygrass (*Phalaris arundinacea*) to Enhance Oregon Spotted Frog (*Rana pretiosa*) Oviposition Habitat in Western Washington State, USA.** Marc Hayes^{1*}, David Hays², Regina Johnson², and Julie Tyson¹. ¹Washington Department of Fish and Wildlife, Habitat Program, Olympia, WA; ²Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, WA. (25 min)
- 3:00-3:30 pm **Break** (30 min)
- 3:30-3:55 pm **SAVE THE FROGS! – Creating a Frog-Friendly California.** Kerry Kriger. SAVE THE FROGS!, Santa Cruz, CA. (25 min)
- 3:55-4:20 pm **Status of the Mountain Yellow-legged Frog, Yosemite Toad, and Pacific Chorus Frog in the Sierra Nevada, California.** Cathy Brown^{1*}, Lucas Wilkinson², and Katie Kiehl². ¹USDA Forest Service, Albany, CA; ²USDA Forest Service, Sonora, CA. (25 min)
- 4:20-4:45 pm **Sierra Nevada Mountain Yellow-legged Frogs Conservation Strategy: An Integrated Interagency Restoration Plan.** Steven Detwiler, Endangered Species Program, U.S. Fish and Wildlife Service, Sacramento, CA. (25 min)
- 4:45-4:50 pm **Announcements**
- 5:00 pm **No-host bar and wine tasting at Sequoia House.**

BANQUET AT SEQUOIA HOUSE

- 6:45 pm **Dinner**
- 7:30 pm **Guest Speaker: Warty Toads, Tricky Frogs, and Tales of Newts.** Dr. Bayard Brattstrom, Professor Emeritus, California State University Fullerton, Department of Biology, Fullerton, California

Friday, January 13, 2012

- 7:45-8:35 am **Registration and Refreshments**
- 8:35-8:40 am **Announcements.** David Bradford, US EPA, Las Vegas, NV
- Session 3** Moderator: Rob Grasso, Eldorado National Forest, Placerville, CA
- 8:40-9:05 am **Evaluation of Methods for Detecting *Batrachochytrium dendrobatidis* from Formalin-preserved Amphibian Specimens using qPCR.** Andrea Adams^{1*}, John Labonte^{1*}, Morgan Ball², Mary Toothman¹, and Cheryl Briggs¹. ¹Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA; ²Cheadle Center for Biological and Ecological Restoration, University of California, Santa Barbara, CA. (25 min)
- 9:05-9:30 am **A Synopsis on the Vegas Valley Leopard Frog: History, Recent Findings, and Conservation Implications.** Jef Jaeger^{1*}, Michael Sredl², Evon Hekkala³, Raymond Saumure⁴, and Hans-Werner Herrmann⁵. ¹School of Life Sciences, University of Nevada, Las Vegas; ²Arizona Game and Fish Department, Nongame Branch, Phoenix, AZ; ³Department of Ecology and Evolutionary Biology, Tulane University, New Orleans, LA (currently, Fordham University, New York); ⁴Southern Nevada Water Authority, Environmental Resources Department, Las Vegas, NV; ⁵School of Natural Resources and Environment, University of Arizona, Tucson, AZ. (25 min)
- 9:30-10:00 am **Calibrating our Progress towards Recovery of Amphibian Populations: An Area-based Approach and Occupancy Modeling.** Michael Sredl. Arizona Game and Fish Department, Phoenix, AZ. (30 min)
- 10:00-10:35 am **Break** (35 min)
- 10:35-11:00 am **Ecological Role of the Salamander *Ensatina eschscholtzii*: Direct Impacts on the Arthropod Assemblage and Indirect Influence on the Carbon Cycle in Mixed Hardwood/Conifer Forest in Northwestern California.** Michael Best^{1*} and Hartwell Welsh². ¹Humboldt State University, Arcata, CA; ²U.S. Forest Service, Pacific Southwest Research Station, Arcata, CA. (25 min)
- 11:00-11:25 am **Testing Mark-Recapture Techniques for Wild Mountain Yellow-Legged Frog Tadpoles (*Rana muscosa*).** Frank Santana^{1*} and Stephanie Wakeling². ¹San Diego Zoo Institute for Conservation Research, San Diego, CA; ²Department of Ecology, Evolution and Conservation Biology, University of Nevada, Reno, NV. (25 min)
- 11:25-11:50 am **Diet of the Cascades Frog (*Rana cascadae*) in the Trinity Alps Wilderness of Northern California: Are they really generalists?** Monty Larson* and Hartwell H. Welsh. U.S. Forest Service, Pacific Southwest Research Station, Arcata, CA. (25 min)
- 11:50-1:20 pm **Lunch** (90 min)

Session 4

Moderator: Heather McKenny, Division of Resources Management and Science, Yosemite National Park, El Portal, CA

- 1:20-1:45 pm **Overview of a decade of amphibian research and monitoring in southern California; with focus on the Santa Monica Mountains National Recreation Area.** Robert Fisher^{1*}, Adam Backlin², Elizabeth Gallegos², Cherly Brehme¹, Lee Kats³, Kathleen Semple Delaney⁴, and Seth Riley⁴. ¹US Geological Survey, San Diego, CA; ²US Geological Survey, Irvine, CA; ²US Geological Survey, Irvine, CA; ³Pepperdine University, Malibu, CA; ⁴National Park Service, Thousand Oaks, CA. (25 min.)
- 1:45-2:10 pm **Review of New Pesticides for Non-Target Organism Safety.** Rich Bireley, Department of Pesticide Regulation, Pesticide Regulation Branch, Sacramento, CA. (25 min)
- 2:10-2:35 pm **Population Responses of the Foothill Yellow-legged Frog (*Rana boylei*), the Western Pond Turtle (*Actinemys marmorata*), and the Non-native Bullfrog (*Rana catesbeiana*) to the Managed Flow Regime and Altered Riverine Environments of the Trinity River, Northwest California.** Hartwell Welsh^{1*}, Donald Ashton¹, and James Bettaso². ¹U.S. Forest Service, Pacific Southwest Research Station, Arcata, CA; ²U.S. Fish and Wildlife Service, Arcata Field Office, Arcata, CA. (25 min)
- 2:35-2:55 pm **Terbinafine Hydrochloride as a Treatment for *Batrachochytrium dendrobatidis* Infection.** Jay Bowerman¹, Chris Rombough², Sarah R. Weinstock³, and Gretchen E. Padgett-Flohr^{4*}. ¹Sunriver Nature Center & Observatory, Sunriver, OR; ²Rombough Biological, St. Helens, OR; ³Butte, MT; ⁴Southern Illinois University, Dept of Zoology, Carbondale, IL. (20 min)
- 2:55-3:20 pm **Break** (25 min)
- 3:20-3:45 pm **Modeling the Past to Understand the Present: Historical Distribution and Patterns of Decline in the Endangered Mountain Yellow-legged Frog (*Rana muscosa*, *Rana sierrae*).** Roland Knapp^{1*}, Mitch Lockhart², and Curtis Milliron³. ¹Sierra Nevada Aquatic Research Laboratory, University of California, Mammoth Lakes, CA; ²California Department of Fish and Game, Sacramento, CA; ³California Department of Fish and Game, Redding, CA. (25 min)
- 3:45-4:10 pm **Footnotes to Eastern Sierra California Fish and Game SNYLF Restoration Projects.** Dawne Emery, Heritage and Wild Trout Program; Habitat Conservation, north, Region 6; California Department of Fish and Game, Bishop, CA. (25 min)
- 4:10-4:35 pm **Mitochondrial Evolution and Phylogeography of the Endangered Arroyo Toad (*Anaxyrus californicus*).** Robert Lovich^{1,2*}, Ron Carter¹, L. Lee Grismer³, William Hayes¹, Robert Ford¹, and Penelope Duerksen-Hughes¹. ¹Loma Linda University, Loma Linda, CA; ²US Navy, Naval Facilities Engineering Command SW, Desert Integrated Product Team, San Diego, CA; ³La Sierra University, Riverside, CA. (25 min)
- 4:35-4:45 pm **Announcements, Discussion of 2013 Meeting Venue, and Closing Remarks.** Dave Bradford.

Saturday, January 14, 2012

8:30 am- **Field Trip to American River Conservancy's Gold Hill Ranch.** Sign-up and
1:30 pm details will be provided at meeting on January 12.

* Indicates presenter in multi-authored talks