

**California-Nevada Amphibian Populations Task Force  
January 15-16, 2009**

**Bodega Marine Laboratory  
Bodega Bay, CA**

**FINAL FINAL AGENDA**

- Chair:** David Bradford, US Environmental Protection Agency, Las Vegas, NV
- Steering Committee:** Cathy Brown, Carlos Davidson, Amy Lind, Jef Jaeger, Roland Knapp, Lara Rachowicz, Jon Sjöberg
- Meeting Coordinator:** Jef Jaeger, UNLV School of Life Sciences and Public Lands Institute, Las Vegas, NV
- Local Committee:** Karla Marlow, Garcia and Associates, San Francisco, CA  
David Cook, Sonoma County Water Agency, Santa Rosa, CA

**Thursday, January 15, 2009**

- 7:45-8:30 am **Registration and Refreshments**
- 8:30-8:40 am **Introduction and Announcements.** David Bradford, US Environmental Protection Agency, Landscape Ecology Branch, Las Vegas, NV
- Session 1** Moderator: David Bradford, US Environmental Protection Agency, Landscape Ecology Branch, Las Vegas, NV
- 8:40-8:55 am **Welcome to Bodega Marine Laboratory and Reserve.** Jackie Sones, Research Coordinator, Bodega Marine Reserve. (15 min)
- 8:55-9:20 am ***Batrachochytrium dendrobatidis*: A Novel Pathogen Approaching Endemism in Central California?** Gretchen Padgett-Flohr\* and Robert Hopkins, II. Department of Zoology, Southern Illinois University-Carbondale, Carbondale, IL. (25 min)
- 9:20-9:45 am **The California Amphibian and Reptile Species of Special Concern Update: Progress, Future Work, and Involvement by the CA/NV Community.** H. Brad Shaffer, Robert Thomson, and Amber Wright. Section of Evolution and Ecology, University of California, Davis, CA. (25 min)
- 9:45-10:10 am **Population Estimates, Listing Petitions and Land Sales: True Tales of the Amargosa Toad.** Brian Hobbs<sup>1\*</sup> and Jon Sjöberg<sup>1</sup>. <sup>1</sup>Nevada Department of Wildlife, Las Vegas, NV. (25 min)
- 10:10-10:45 am **Break** (35 min)

- Session 2** Moderator: David Cook, Sonoma County Water Agency, Santa Rosa, CA
- 10:45-11:10 am **The Role of Pesticides in the Decline of Amphibians in the Sierra Nevada, California.** Gary Fellers and Patrick Kleeman. U.S. Geological Survey, Western Ecological Research Center, Point Reyes National Seashore, Point Reyes, CA. (25 min)
- 11:10-11:35 am **Are Contaminants Contributing to the Decline of Cascades Frogs in California?** Carlos Davidson<sup>1\*</sup>, Kerri Stanley<sup>2</sup>, and Staci Simonich<sup>2</sup>. <sup>1</sup>Environmental Studies Program, San Francisco State University, San Francisco, CA; <sup>2</sup>Department of Environmental and Molecular Toxicology, Oregon State University, Corvallis OR. (25 min)
- 11:35-12:00 am **Habitat Characteristics of the Shasta Salamander and Recent Findings from PG&E Re-licensing Studies.** Len Lindstrand III, North State Resources, Inc., Redding CA. (25 min)
- 12:00-1:15 pm **Lunch** (75 min)
- Session 3** Moderator: Betsy Bolster, California Department of Fish and Game, Sacramento, CA
- 1:15-1:40 pm **The USFS Sierra Nevada Amphibian Monitoring Program: What Long-term Monitoring Can Tell Us.** Cathy Brown, USDA Forest Service, PSW Research Station, Berkeley, CA. (25 min)
- 1:40-2:05 pm **Incidence of a Fungal Pathogen in *Rana cascadae* and other Amphibian Species in the Mountains of Northern California.** Jonah Piovia-Scott<sup>1\*</sup>, Karen Pope<sup>2</sup>, Esther Cole<sup>3</sup>, Janet Foley<sup>4</sup> And Sharon Lawler<sup>1,3</sup>. <sup>1</sup>Center for Population Biology, University of California, Davis, CA; <sup>2</sup>USFS Redwood Sciences Laboratory, Arcata, CA; <sup>3</sup>Ecology Graduate Group, U.C. Davis, Davis, CA; <sup>4</sup>School of Veterinary Medicine, U.C. Davis, CA. (25 min)
- 2:05-2:25 pm **Geographic and Historical Distribution of Ranaviruses and the Potential for Spread into Uninfected Areas.** Angela Picco<sup>1\*</sup>, H. Brad Shaffer<sup>2</sup>, and James Collins<sup>3</sup>. <sup>1</sup>United States Fish and Wildlife Service, Sacramento, CA; <sup>2</sup>Section of Evolution and Ecology, University of California, Davis, CA; <sup>3</sup>School of Life Sciences, Arizona State University, AZ. (20 min)
- 2:25-2:50 pm **Overview of the Lower Colorado River Multi-Species Conservation Program with Emphasis on Covered Amphibian Species.** Allen Calvert, Bureau of Reclamation, Boulder City, NV. (25 min)
- 2:50-3:20 pm **Break** (30 min)

#### **Session 4**

Moderator: Carlos Davidson, Environmental Studies Program, San Francisco State University, San Francisco, CA

3:20-3:45 pm

**Differential Impact of Chytridiomycosis on Amphibians Across an Elevation Gradient.** Roland Knapp, Sierra Nevada Aquatic Research Laboratory, Mammoth Lakes, CA. (25 min)

3:45-4:10 pm

**Rapid Spread of *Batrachochytrium dendrobatidis* Causes Chytridiomycosis Outbreaks and Extinctions in Yellow-legged Frogs of the Sierra Nevada.** Vance Vredenburg<sup>1</sup>, Roland Knapp<sup>2</sup>, Tate Tunstall<sup>3</sup>, and Cherie Briggs<sup>3</sup>. <sup>1</sup>San Francisco State University, Department of Biology, San Francisco, CA; <sup>2</sup>Sierra Nevada Aquatic Research Lab, University of California, Crowley Lake, CA. <sup>3</sup>University of California Santa Barbara, Department of Ecology, Evolution and Marine Biology, Santa Barbara, CA. (25 min)

4:10-4:35 pm

**Conservation and Ecological Studies of the Endangered California Tiger Salamander in Sonoma County (update).** David Cook<sup>1\*</sup>, David Stokes<sup>2</sup>, and Peter Trenham<sup>3</sup>. <sup>1</sup>Sonoma County Water Agency, Santa Rosa, CA; <sup>2</sup>University of Washington, Bothell, WA; <sup>3</sup>University of California, Davis, CA. (25 min)

4:35-4:50 pm

**APTF Business** (15 min)

1. 2010 meeting venue and committee
2. 2010 meeting dates: tentatively Jan. 7-8
3. Website update
4. List of publications
5. Other

Evening

**Dinner on your own; suggestions will be provided.**

#### **Posters**

All Day,  
Thurs-Fri

**Mitigation and Monitoring Efforts for California Red-legged Frog (*Rana draytonii*) and California Tiger Salamander (*Ambystoma californiense*): Successful Breeding in a Constructed Pond.** Kevin Wiseman<sup>1</sup>, Debie Montana<sup>2</sup>, Joseph Drennan<sup>1</sup>, and Karla Marlow<sup>1</sup>. <sup>1</sup>Garcia and Associates, San Francisco, CA; <sup>2</sup>Pacific Gas and Electric Company, San Ramon, CA.

**PARC (Partners in Amphibian and Reptile Conservation), Emphasis on Southwest PARC Region.** Kary Schlick<sup>1</sup> and Ernesto Garcia<sup>2</sup>. <sup>1</sup>SW PARC Steering Committee Member, Six Rivers National Forest, Eureka, CA; <sup>2</sup>Partners in Amphibian and Reptile Conservation, US Fish and Wildlife Service, Weaverville, CA

**Arroyo Toad management on Camp Pendleton (approx. title).** Sherri Sullivan, Wildlife Management Branch, Marine Corps Base, Camp Pendleton, CA

**Friday, January 16, 2009**

- 7:45-8:30 am     **Registration and Refreshments**
- 8:30-8:35 am     **Announcements.** David Bradford, US EPA, Las Vegas, NV.
- Session 5**     Moderator: Gary Fellers, U.S. Geological Survey, Western Ecological Research Center, Point Reyes National Seashore, Point Reyes, CA
- 8:35-9:00 am     **Translocation of California red-legged frogs (*Rana draytonii*).** Thomas Newcomb<sup>1\*</sup>, Bert Mulchaey<sup>1</sup>, Trish Tatarian<sup>2</sup>, and Jose Setka<sup>1</sup>. <sup>1</sup>East Bay Municipal Utility District, Oakland, CA; <sup>2</sup>Wildlife Research Associates, Santa Rosa, CA. (25 min)
- 9:00-9:25 am     **Prevalence of Parasites and Pathogens in Foothill Yellow-legged Frogs (*Rana boylei*) in Humboldt County, California.** Jamie Bettaso<sup>1\*</sup>, N. C. Nieto<sup>2</sup>, S. R. Goldberg<sup>3</sup>, C. R. Bursey<sup>4</sup>, A. Picco<sup>5</sup> and L. Schloegel<sup>6</sup>. <sup>1</sup>US Fish and Wildlife Service, Arcata, CA; <sup>2</sup>School of Veterinary Medicine, UC Davis, CA; <sup>3</sup>Department of Biology, Whittier College, Whittier, CA; <sup>4</sup>Department of Biology, Pennsylvania State University–Shenango Valley Campus, Sharon, PA; <sup>5</sup>US Fish and Wildlife Service, Sacramento, CA; <sup>6</sup>Consortium for Conservation Medicine, New York, NY. (25 min)
- 9:25-9:50 am     **Monitoring Columbia Spotted Frog in Northeastern Nevada.** Maija Meneks, Humboldt-Toiyabe National Forest, Elko, NV. (25 min)
- 9:50-10:15 am     **Synopsis of 2008 California Department of Fish and Game (CDFG) Activities Related to Amphibian Conservation.** Betsy Bolster, California Department of Fish and Game, Sacramento, CA. (25 min)
- 10:15-10:50 am     **Break** (35 min)
- Session 6**     Moderator: Vance Vredenburg, San Francisco State University, Department of Biology, San Francisco, CA
- 10:50-11:15 am     **Ranid Frog Update in Southern California and Repatriation Discussion.** Adam Backlin<sup>1\*</sup>, Elizabeth Gallegos<sup>1</sup>, Frank Santana<sup>2</sup>, and Robert Fisher<sup>1</sup>. <sup>1</sup>U.S. Geological Survey, Western Ecological Research Center, San Diego Field Station, CA; <sup>2</sup>Conservation and Research for Endangered Species, Zoological Society of San Diego USA. (25 min)
- 11:15-11:40 am     **Movement Patterns and a Proposed Core Habitat Protection Zone for the Yosemite Toad (*Bufo canorus*).** David L. Martin, Department of Ecology, Evolution and Marine Biology, University of California, Santa Barbara, CA. (25 min)
- 11:40-12:05 am     **Estimating the Distribution of Genetic Variation within the Narrow-headed Gartersnake (*Thamnophis rufipunctatus*) and its Utility in Informing Conservation Management Practices.** Dustin Wood<sup>1\*</sup>, Andrew Holycross<sup>2</sup>, Julio

Lemos Espinal<sup>3</sup>, and Robert Fisher<sup>1</sup>. <sup>1</sup>U.S. Geological Survey, Western Ecological Research Center, San Diego Field Station, CA, dawood@usgs.gov; <sup>2</sup>School of Life Sciences, Arizona State University, Tempe, AZ; <sup>3</sup>Laboratorio de Ecologia, Iztacala UNAM, Mexico. (25 min)

12:05-1:20 pm **Lunch** (75 min)

**Session 7** Moderator: Jef Jaeger, UNLV School of Life Sciences and Public Lands Institute, Las Vegas, NV

1:20-1:45 pm **A Review of Current Research at the Redwood Sciences Laboratory on Amphibian Population Status on Northwest California Landscapes.** Hartwell Welsh, Jr.\*, Karen Pope, Garth Hodgson, Don Ashton, and Clara Wheeler. USDA Forest Service, Pacific Southwest Research Station, Redwood Sciences Laboratory, Arcata, CA. (25 min.)

1:45-2:10 pm **PG&E Relicensing Studies: An Overview of our Current Amphibian Surveys.** Andie Herman, Pacific Gas and Electric Company, Environmental Services, Chico, CA. (25 min)

2:10-2:35 pm **Growth, Development, and Susceptibility to Parasites of Larval Foothill Yellow-legged Frogs (*Rana boylei*) in Relation to Water Temperature: Implications for Management of California's Hydroelectric Dams.** Alessandro Catenazzi<sup>1</sup> and Sarah Kupferberg<sup>2\*</sup>. <sup>1</sup>Department of Integrative Biology, University of California, Berkeley, CA; <sup>2</sup>Questa Engineering, Pt. Richmond, CA. (25 min)

2:35-3:00 pm **Assessing Effects of Altered Hydrologic Regimes on *Rana boylei* Using a Population Projection Model.** Amy Lind<sup>1\*</sup>, S.J. Kupferberg<sup>2</sup>, and W.J. Palen<sup>3</sup>. <sup>1</sup>USDA Forest Service, Sierra Nevada Research Center, Davis, CA; <sup>2</sup>Questa Engineering, Pt. Richmond, CA; <sup>3</sup>Department of Biological Sciences, Simon Fraser University, Burnaby, BC, Canada. (25 min)

3:00-3:25 pm **Break** (25 min)

**Session 8** Moderator: Karla Marlow, Garcia and Associates, San Francisco, CA

3:25-3:50 pm **Spatial Distribution, Habitat Preference, and Detection of the Northern Red-legged Frog in Ephemeral Wetlands: A Baseline for Future Monitoring?** Carrie Sendak<sup>\*1,2</sup> and John Reiss<sup>2</sup>. <sup>1</sup>USFS Pacific SW Research Station, Sierra Nevada Research Center, Berkeley, CA; <sup>2</sup>Humboldt State University, Arcata, CA. (25 min)

3:50-4:15 pm **Pathogenicity of *Batrachochytrium dendrobatidis* In Two Threatened California Amphibians: *Rana draytonii* and *Ambystoma californiense*.** Gretchen Padgett-Flohr, Department of Zoology, Southern Illinois University-Carbondale, Carbondale, IL. (25 min)

- 4:15-4:40 pm      **Comparative Microhabitat Characteristics at Oviposition Sites of the California Red-legged Frog (*Rana draytonii*).** Jeff Alvarez<sup>1\*</sup>, David Cook<sup>2</sup>, and Michael Van Hatten<sup>3,4</sup>. <sup>1</sup>The Wildlife Project, Modesto, CA; <sup>2</sup>3003 Magowan Drive, Santa Rosa, CA; <sup>3</sup>Lawrence Livermore National Laboratory, Livermore, CA; <sup>4</sup>current address: California Department of Fish and Game, Eureka, CA. (25 min)
- 4:40-4:50 pm      **Closing Remarks.** Dave Bradford.

**Saturday, January 17, 2009**

- 9:00-2:00 pm      **Field Trip to Bouverie Preserve, Sonoma Valley (see flyer).** Further details and meeting location to be announced. Trip leader: David Cook.

\* Indicates speaker in multi-authored talk.