

# **Arroyo Toad (*Bufo californicus*) Symposium**

## **Natural History and Management Practices**

**At Marine Corps Air Station, Camp Pendleton, California on  
THURSDAY OCTOBER 5, 2000**

**Hosted by Marine Corps Air Station, Camp Pendleton**

**Organized under the Department of Navy and U.S. Fish and Wildlife  
Service Partnering in San Diego County**

////////////////////////////////////

### **Program**

- 8:00 Welcome Aboard
- Lieutenant Colonel Bruce Doucette, Executive Officer, MCAS Camp Pendleton
  - Scott Thomas, Environmental Department, MCAS Camp Pendleton
- 8:10 Natural History of the Arroyo Toad
- Brad Hollingsworth, San Diego Natural History Museum
- 8:30 Radio Telemetry and Arroyo Toads in San Mateo Creek, MCB Camp Pendleton
- Paul Griffin, Wildlife Biology Program, University of Montana and
  - Ted Case, Biology Department, University of California San Diego
  - Presentation facilitated by Gale Bustillos, U.S. Navy, Southwest Division, Natural & Cultural Resources
- 8:50 Activity Cycles and Upland Habitat Use of the Arroyo Toad in San Diego County
- William E. Haas, Varanus Biological Services
- 9:10 Characterization of Upland Habitat Usage and Activity Patterns of the Arroyo Toad
- Ruben S. Ramirez, Jr., PCR Services Corporation
- 9:30 Break
- 9:40 Differentiation of Arroyo Toad Populations Based on Nuclear Microsatellite Analysis
- A. Jill Shanahan and Oliver A. Ryder, Center for Reproduction of Endangered Species
- 10:00 Clarification Of Locality Records for the Arroyo Toad From the Desert Region of San Diego County
- Ed Ervin, Department of Biology, San Diego State University and ✓
  - Robert N. Fisher, U. S. Geological Survey
- 10:20 Winter Toad Activity in Uplands on Camp Pendleton
- David King, Ogden Environmental and Energy Services
- 10:40 Proposed Genetic Analysis of the Endangered Arroyo Toad
- Bradford Hollingsworth, San Diego Natural History Museum and
  - Robert Lovich, Department of Biology, San Diego State University

11:00 Upland Survey Techniques: A Discussion of Methods, Suitability for Determining Occupied Habitat and Survey Limitations  
- William E. Haas, Varanus Biological Services

11:20 Lunch

12:30 Panel Discussion (Presenters; Chris Bandy, AC/S ES, MCB Camp Pendleton; John Stephenson and Grace McLaughlin, US Fish and Wildlife Service.

Management Issues, to include:

- Non-breeding Season Protocol
- Appropriate Mitigation Methods
- Relocation & "Homing Instinct"/Site Specificity
- Future Research Needs

## **1-Hour Concurrent Sessions from 2:00 until 5:00**

### **Toad ID Workshop**

- William E Haas and Ingri Quon, Varanus Biological Services

The arroyo toad identification workshop will be a 1-hour session with slides, handouts, and instruction on distinguishing features and comparisons with similar species.

### **Field Visit**

The 1-hour field visit will include visits to local known breeding sites, upland habitat, toad exclusion fencing, and experimental "toad crossings."

### **Discussion Period**

The facilitated discussion period will address such issues as Permit Issuance, Protocol Surveys, and Management Issues.

For further questions regarding the Arroyo Toad Symposium, please contact:

Scott Thomas at (760) 725-8492, [ThomasJS@mail.cpp.usmc.mil](mailto:ThomasJS@mail.cpp.usmc.mil) or  
Gale Bustillos at (619) 532-1355, [bustillosag@efdswnavy.mil](mailto:bustillosag@efdswnavy.mil)

**PLEASE NOTE THAT THE SYMPOSIUM HAS BEEN  
CONDENSED INTO A SINGLE DAY SESSION ON THURSDAY ONLY,  
OCTOBER 5, 2000**