

**Bat Ecology and Field Techniques Workshop**  
**Hastings Natural History Reservation**  
**September 17 - 19, 2004**

**Instructors: Dave Johnston, Ph.D., Santa Clara University and Joe Szewczak, Ph.D., Humboldt State University**

**Sponsored by: The Wildlife Society - Western Section and Helen Johnson**

**Description:** Workshop participants will be introduced to the ecology of California's bats through lectures and demonstrations on physiology, species accounts, anatomy, foraging behavior & diet. Field techniques of mist-netting, assessing food habits, & acoustic monitoring will be demonstrated with participants assisting in set-up and analysis. An evening field trip to Pinnacles National Monument should allow capture of several *Myotis* spp. Due to the handling component of the workshop, participants must furnish proof of rabies vaccination to participate in mist-netting. Space is limited to 24 participants and limited scholarship funds are available to successful applicants. Contact Cynthia Perrine at [csgperrine@yahoo.com](mailto:csgperrine@yahoo.com) or 530-570-7036 for more information.

### **Itinerary**

#### Friday

12:00 p.m. Introduction to California Bat Natural History

- life history
- challenges to life as a bat and the special solutions bats have developed, anatomy
- bat physiological ecology relevant to their habitat needs
- threats to bat survival; why are they so threatened?
- ecological value of bats
- foraging behavior and considerations

2:00 p.m. Identifying California bats

- overall diversity and distribution
- introduction to species identification and handling bats
- using keys
- tips on differentiating similar species
- species accounts (5 minutes each participant\*)

**\*Species Accounts:** One species will be assigned to each participant upon registration. Instructors will provide a photograph and range map for each presentation. Each species account presentation should cover the following for his / her species:

1. Physical description and identifying characters
2. Geographic range and habitat associations
3. Status (e.g., California species of special concern)
4. Reproduction and development
5. Ecology --
  - a. roosting
  - b. foraging
  - c. other aspects of natural history
6. Conservation issues (threats to California populations)

5:30 p.m. Intro to acoustic monitoring & Intro to food habit analysis

6:30 p.m. Dinner

7:30 p.m. evening demonstration: Acoustic Monitoring & Food Habits

### Saturday

7:00 a.m. coffee

7:30 a.m. breakfast

8:00 a.m. Conservation and Management

- Public Issues - Anthropogenic Impacts, Mitigation Myths & Realities
- Conservation Strategies
- Survey methods

11:30 Lunch & Pack your own dinner

12:00 to 2:30 BREAK (Go take a nap)

2:30 p.m. Group up for field trip & load vans

3:00 p.m. Depart for Pinnacles

5:00 p.m. Arrive at Pinnacles

5:30 p.m. Evening Demonstration & Setting mist nets

10:30 p.m. Pack up Vans

11:00 p.m. On the road back to Hastings - slowly...

### Sunday

8:30 a.m. coffee

9:00 a.m. breakfast

10:00 a.m. Group analysis of data collected at Pinnacles: food habits, acoustic monitoring, captures

1:00 lunch

2:00 workshop ends

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