2013 Annual Meeting

The Wildlife Society
Western Section

60th Anniversary
1953-2013

Plenary Session Theme:
The Endangered Species Act at 40

January 30 – February 1, 2013
Doubletree Hotel, Sacramento, CA
## DAY AND ROOM DESIGNATIONS

### Wednesday, January 30

<table>
<thead>
<tr>
<th>Room</th>
<th>Wednesday Morning</th>
<th>Wednesday Afternoon</th>
<th>Wednesday Evening</th>
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<tbody>
<tr>
<td>Capitol Ballroom Foyer</td>
<td>Vendor Set-up</td>
<td>Vendors, Exhibitors, Refreshments</td>
<td>Vendors, Exhibitors, Refreshments</td>
</tr>
<tr>
<td>Sacramento Room</td>
<td>Registration</td>
<td>Registration</td>
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<tr>
<td>Capitol Ballroom A</td>
<td>Western Snowy Plover (concludes)</td>
<td>Concurrent Session: Island Ecosystems Concurrent Session: Amphibians and Reptiles</td>
<td>SF Bay Chapter Meeting</td>
</tr>
<tr>
<td>Capitol Ballroom B</td>
<td>Section 7 (concludes)</td>
<td>Concurrent Session: Diseases and Pathology</td>
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<tr>
<td>Capitol Ballroom C</td>
<td></td>
<td>Concurrent Session: Shorebirds</td>
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<tr>
<td>Capitol Ballroom D</td>
<td></td>
<td>Concurrent Session: Urban Wildlife</td>
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<tr>
<td>Garden/Terrace</td>
<td></td>
<td>Poster Set-Up</td>
<td>Welcome Mixer &amp; Poster Session</td>
</tr>
<tr>
<td>Maxi’s</td>
<td>Scientific and Technical Writing (concludes)</td>
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<tr>
<td>El Camino</td>
<td>Golden Eagle Working Group</td>
<td></td>
<td>California North Coast Chapter Meeting</td>
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<tr>
<td>American River</td>
<td></td>
<td>Sacramento-Shasta Chapter Meeting</td>
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<tr>
<td>Bear River</td>
<td></td>
<td>Speaker Practice</td>
<td>San Joaquin Chapter Meeting</td>
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<tr>
<td>Feather River</td>
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<td>Conservation Affairs Committee</td>
<td>Southern California Chapter Meeting</td>
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<tr>
<td>Rubicon River</td>
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<td>Nevada and Hawai’i Chapter Meetings</td>
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<tr>
<td>Yuba River</td>
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<td>California Central Coast Chapter Meeting</td>
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<tr>
<td>Grand Ballroom</td>
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<tr>
<td>Grand Ballroom Foyer</td>
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<tr>
<td>Room</td>
<td>Thursday Morning</td>
<td>Thursday Afternoon</td>
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<tr>
<td>Capitol Ballroom Foyer</td>
<td>Vendors, Exhibitors, Refreshments</td>
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</tr>
<tr>
<td>Sacramento Room</td>
<td>Registration</td>
<td></td>
<td>Registration</td>
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<tr>
<td>Capitol Ballroom A</td>
<td>Concurrent Session: ESA Implementation</td>
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<td>Concurrent Session: Small Mammals</td>
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<tr>
<td>Capitol Ballroom B</td>
<td>Concurrent Session: Large Mammals and Carnivores</td>
<td>Concurrent Session: Renewable Energy</td>
<td>Concurrent Session: Grazing and Agriculture</td>
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<tr>
<td>Capitol Ballroom C</td>
<td>Concurrent Session: Waterbirds and Wetlands</td>
<td>Concurrent Session: Upland Habitats and Game Birds</td>
<td>Concurrent Session: Climate Change</td>
</tr>
<tr>
<td>Capitol Ballroom D</td>
<td>Concurrent Session: Songbirds</td>
<td>Annual Business Meeting/ Member’s Forum</td>
<td>Concurrent Session: ESA and Conservation Banking</td>
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<tr>
<td>Garden/Terrace</td>
<td>Poster Viewing</td>
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<td>Poster Viewing</td>
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<tr>
<td>Maxi’s</td>
<td>Presentation Workshop</td>
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<td>Early Federal Careers Panel</td>
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<tr>
<td>El Camino</td>
<td>HSU Alumni Association Meeting</td>
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<td>Resume Workshop for MS and PhD</td>
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<tr>
<td>American River</td>
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<tr>
<td>Bear River</td>
<td>Speaker Practice</td>
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<td>Speaker Practice</td>
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<tr>
<td>Feather River</td>
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<tr>
<td>Rubicon River</td>
<td>California Bat Working Group</td>
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<td>CA Fisher Working Group</td>
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<td>Yuba River</td>
<td></td>
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<td>CalPIF Working Group Meeting</td>
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<tr>
<td>Grand Ballroom</td>
<td>Banquet Keynote Program Jim Yoakum Memorial Awards and Raffle</td>
<td>Student Professional Lunch</td>
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<tr>
<td>Grand Ballroom Foyer</td>
<td>No-Host Cocktails</td>
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<td>Student Career Fair</td>
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**Saturday, February 2 & Sunday February 3:** Wilderness First Aid and CPR (El Camino Room) and Hunter Safety (offsite)
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**2013 Annual Meeting**

**SCHEDULE AT A GLANCE**

### Monday, January 28

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<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 a.m. to 1:00 p.m.</td>
<td>Workshop/Symposium Registration (Capitol Ballroom Foyer)</td>
</tr>
<tr>
<td>1:00 p.m. to 5:00 p.m.</td>
<td>ESA Section 7 Workshop (Capitol Ballroom B)</td>
</tr>
<tr>
<td>1:00 p.m. to 5:00 p.m.</td>
<td>Western Snowy Plover “Rangewide” Recovery Team Meeting and Symposium (Capitol Ballroom A)</td>
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### Tuesday, January 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 a.m. to 5:00 p.m.</td>
<td>ESA Section 7 Workshop continues (Capitol Ballroom B)</td>
</tr>
<tr>
<td>8:00 a.m. to 5:00 p.m.</td>
<td>Western Snowy Plover Meeting continues (Capitol Ballroom A)</td>
</tr>
<tr>
<td>8:15 a.m. to 9:00 a.m.</td>
<td>Scientific and Technical Writing Workshop Registration (Maxi’s)</td>
</tr>
<tr>
<td>9:00 a.m. to 5:15 p.m.</td>
<td>Scientific and Technical Writing Workshop (Maxi’s)</td>
</tr>
<tr>
<td>3:00 p.m. to 7:00 p.m.</td>
<td>TWS-WS Executive Board Meeting (Feather River, members welcome)</td>
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### Wednesday, January 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:00 a.m. to 12:10 p.m.</td>
<td>ESA Section 7 Workshop continues and concludes (Capitol Ballroom B)</td>
</tr>
<tr>
<td>8:00 a.m. to 12:10 p.m.</td>
<td>Western Snowy Plover Meeting continues and concludes (Capitol Ballroom A)</td>
</tr>
<tr>
<td>8:30 a.m. to 12:10 p.m.</td>
<td>Scientific and Technical Writing Workshop continues and concludes (Maxi’s)</td>
</tr>
<tr>
<td>9:00 a.m. to 1:00 p.m.</td>
<td>Golden Eagle Working Group (El Camino)</td>
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<tr>
<td>10:00 a.m. to 3:00 p.m.</td>
<td>Annual Meeting Registration (Sacramento)</td>
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<tr>
<td>10:00 a.m. to 4:00 p.m.</td>
<td>Speaker Ready Room (get key at Registration) (Bear River)</td>
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<tr>
<td>10:00 a.m. to 5:00 p.m.</td>
<td>Vendors and Exhibitors (Capitol Ballroom Foyer)</td>
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<tr>
<td>10:00 a.m. to 10:20 a.m.</td>
<td>Break (snacks provided) (Capitol Ballroom Foyer)</td>
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<tr>
<td>12:10 p.m. to 1:00 p.m.</td>
<td>Lunch Break (on your own)</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>2013 Annual Meeting Opening</td>
</tr>
<tr>
<td>1:00 p.m. to 2:45 p.m.</td>
<td>Concurrent Session: Island Ecosystems (Capitol Ballroom A)</td>
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<tr>
<td>1:00 p.m. to 4:25 p.m.</td>
<td>Concurrent Session: Diseases and Pathology (Capitol Ballroom B)</td>
</tr>
<tr>
<td>1:00 p.m. to 3:45 p.m.</td>
<td>Concurrent Session: Shorebirds (Capitol Ballroom C)</td>
</tr>
<tr>
<td>1:00 p.m. to 4:45 p.m.</td>
<td>Concurrent Session: Urban Wildlife (Capitol Ballroom D)</td>
</tr>
<tr>
<td>2:45 p.m. to 3:00 p.m.</td>
<td>Break (snacks provided) (Capitol Ballroom Foyer)</td>
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<tr>
<td>3:00 p.m. to 5:05 p.m.</td>
<td>Concurrent Session: Amphibians and Reptiles (Capitol Ballroom A)</td>
</tr>
<tr>
<td>3:00 p.m. to 5:00 p.m.</td>
<td>Conservation Affairs Committee (Feather River)</td>
</tr>
<tr>
<td>3:30 p.m. to 5:00 p.m.</td>
<td>Poster set-up (Terrace/Garden)</td>
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<tr>
<td>5:30 p.m. to 7:30 p.m.</td>
<td>Welcome Reception, Poster Session (Terrace/Garden and Maxi’s)</td>
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<tr>
<td>(Taco Bar &amp; No-Host Bar requires ticket/name badge symbol indicating payment)</td>
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<tr>
<td>7:30 p.m. to 9:00 p.m.</td>
<td>Chapter Meetings - see inside front cover for rooms</td>
</tr>
</tbody>
</table>
Thursday, January 31

7:30 a.m. to 3:00 p.m. ....... Conference Registration (Sacramento Room)
7:30 a.m. to 5:00 p.m. ....... Vendors & Exhibitors (Capitol Ballroom Foyer)
7:30 a.m. to 6:30 p.m. ........ Poster viewing (Garden/Terrace)
7:30 a.m. to 8:25 a.m. ....... Coffee / Light Breakfast (Capitol Ballroom Foyer)
8:30 a.m. to 12:00 p.m. ....... Plenary Session “The ESA at 40” (Capitol Ballroom B, C, D)
10:05 a.m. to 10:25 a.m. ....... Break (snacks provided) (Capitol Ballroom Foyer)
12:00 p.m. to 1:00 p.m. ....... Lunch (on your own)
1:00 p.m. to 5:05 p.m. ........ Concurrent Session: ESA Implementation (Capitol Ballroom A)
1:00 p.m. to 4:45 p.m. ........ Concurrent Session: Large Mammals and Carnivores (Capitol Ballroom B)
1:00 p.m. to 3:45 p.m. ........ Concurrent Session: Wetlands and Waterbirds (Capitol Ballroom C)
1:00 p.m. to 5:05 p.m. ........ Concurrent Session: Songbirds (Capitol Ballroom D)
1:00 p.m. to 4:00 p.m. ........ Speaker Ready Room (get key at Registration) (Bear River)
1:30 p.m to 3:00 p.m. ........ CA Bat Working Group Meeting (Rubicon River Room)
2:30 p.m. to 3:30 p.m. ........ Oral Presentation Workshop: How NOT to Give a Scientific Presentation (Maxi’s)
2:45 p.m. to 3:00 p.m. ......... Break (snacks provided) (Capitol Ballroom Foyer)
4:00 p.m. to 6:00 p.m. ........ Résumé Workshop – Undergraduate Students (Maxi’s)
5:05 p.m. to 6:00 p.m. ......... Annual Business Meeting and Member’s Forum (Capitol Ballroom D)
4:00 p.m. to 6:00 p.m. ........ HSU Alumni Meeting (El Camino)

Thursday Evening

6:00 p.m. to 7:00 p.m. ....... No-host Cocktail Reception (Grand Ballroom Foyer)
7:00 p.m. to 10:00 p.m. ....... Banquet, Jim Yoakum Memorial, Keynote Program*, Annual Awards, Raffle (Grand Ballroom) (requires ticket or symbol on name badge indicating payment)

* Conference registrants are welcome to attend the Jim Yoakum Memorial, Keynote Address, Awards Ceremony and Raffle without a banquet ticket. Limited seating will be provided starting at 7:45 p.m. in the back of the Grand Ballroom. The Yoakum Memorial will begin at approximately 8:00 p.m., and the Keynote Address will begin at approximately 8:30 p.m.
The Wildlife Society—Western Section
2013 Annual Meeting

Friday, February 1

7:30 a.m. to 1:00 p.m. ..........Conference Registration (Sacramento Room)
7:30 a.m. to 3:00 p.m. ..........Vendors & Exhibitors (Capitol Ballroom Foyer)
7:30 a.m. to 8:00 a.m. ..........Coffee / Light Breakfast (Capitol Ballroom Foyer)
7:30 a.m. to 3:30 p.m. ..........Posters (Garden/Terrace)
8:00 a.m. to 11:45 a.m. ........Concurrent Session: Small Mammals (Capitol Ballroom A)
8:00 a.m. to 12:05 a.m. ........Concurrent Session: Renewable Energy (Capitol Ballroom B)
8:00 a.m. to 12:05 a.m. ........Concurrent Session: Upland Habitats and Game Birds (Capitol Ballroom C)
8:00 a.m. to 11:05 a.m. ........Concurrent Session: ESA and Conservation Banking (Capitol Ballroom D)
8:00 a.m. to 2:00 p.m. ..........Speaker Ready Room (get key at Registration) (Bear River)
8:00 a.m. to 9:30 a.m. ..........Resume Critique with Barbara Peters (requires appointment) (Terrace)
8:30 a.m. to 10:00 a.m. ........Early Federal Careers Panel (Maxi’s)
9:00 a.m. to 12:00 p.m. ........Career Fair (Grand Ballroom)
9:00 a.m. to 11:30 a.m. .........California Fisher Working Group Meeting (Rubicon River)
9:00 a.m. to 12:00 p.m. .........California Partners in Flight Working Group Meeting (Yuba River)
9:45 a.m. to 10:00 a.m. ........Break (snacks provided) (Capitol Ballroom Foyer)
10:15 a.m. to 12:00 p.m. .....Résumé Workshop: Graduate Students and Ph.D.’s (Maxi’s)
11:45 a.m. to 1:00 p.m. ........Lunch Break (on your own)
12:00 p.m. to 1:30 p.m. ........Student/Professional Lunch: Pre-registration required, requires ticket or name badge symbol (Grand Ballroom)
1:30 p.m. to 4:00 p.m. ..........Career Fair (Grand Ballroom)
1:30 p.m. to 3:30 p.m. ..........Resume Critique with Barbara Peters (requires appointment) (Terrace)
1:00 p.m. to 4:45 p.m. ..........Concurrent Session: Raptors (Capitol Ballroom A)
1:00 p.m. to 3:25 p.m. ..........Concurrent Session: Grazing and Agriculture (Capitol Ballroom B)
1:00 p.m. to 3:45 p.m. ..........Concurrent Session: Climate Change (Capitol Ballroom C)
1:15 p.m. to 2:15 p.m. ..........Job Interview Panel (Maxi’s)
3:05 p.m. to 3:20 p.m. ..........Break (snacks provided) (Capitol Ballroom Foyer)
5:00 p.m. to 8:30 p.m. ........Hunter Safety Training (offsite location – Suisun Marsh)

Saturday, February 2

8:00 a.m. to 4:00 p.m. ..........Sutter Buttes Field Trip (Meet at front lobby of Doubletree Hotel)
8:00 a.m. to 5:00 p.m. ..........Wilderness First Aid (El Camino)
8:00 a.m. to 9:00 p.m. ..........Hunter Safety Training (continued, offsite location)
6:00 p.m. to 10:00 p.m. ......CPR (El Camino)

Sunday, February 3

8:00 a.m. to 5:00 p.m. ..........Wilderness First Aid (concludes)
8:00 a.m. to 11:00 a.m. ......Hunter Safety Training (concludes, offsite location)
The Wildlife Society—Western Section
2013 Annual Meeting

HOTEL MAPS

DOUBLETREE HOTEL SACRAMENTO - LOWER LEVEL

DOUBLETREE HOTEL SACRAMENTO - MAIN LEVEL

Program and Schedule
January 30 - February 1, 2013
The Wildlife Society—Western Section
2013 Annual Meeting

GENERAL INFORMATION

Annual Business Meeting and Member’s Forum. Thursday 5:05 p.m. to 6:00 p.m. (Capitol D)
Officers and committee chairs of the Western Section will provide reports for membership information and
discussion, and new officers and Executive Board members will be introduced. Attendance by all members is
e encouraged!

California Fisher Working Group. Friday 9:00 to 11:30 a.m. (Rubicon River)
The California Fisher Working Group has been meeting annually in conjunction with the TWS Western Section
meeting since 2001. The group was created to share and discuss current research and conservation matters
related to fishers in California. When pertinent, information on fishers outside of California or from other
members of the genus Martes will be included in meeting agendas. The 2013 meeting will be a half-day session
of short presentations (5 minutes).

CalPIF Meeting. Friday 9:00 a.m. to 12:00 p.m. (Yuba River)
CalPIF (California Partners in Flight) is initiating the process of updating the Grassland Bird Conservation Plan,
one of seven valuable habitat-based guides to conserving California’s birds (http://www.prbo.org/calpif/
Berkeley and Western Field Ornithologists are convening a meeting in association with the Western Section of
The Wildlife Society meeting in Sacramento. We invite those interested in grassland management and avian
conservation to participate. We are particularly interested in participation by those who actively manage
grasslands and watersheds, to insure individuals who implement habitat conservation programs are involved
early in the process. The objectives of the meeting include: defining the scope of the plan – ‘what is grassland?,’
consensus on a suite of focal or surrogate bird species to form the bases of this multi-species plan, and to form a
voluntary technical advisory committee to guide the process and content. Please RSVP to Ryan DiGaudio
California PIF coordinator (rdigaudio@prbo.org) or feel free to drop in the day of the meeting.

Career Fair and Student/Professional Lunch. Friday 9:00 a.m. to 4:00 p.m. (Grand Ballroom Foyer)
This is an opportunity for students to meet prospective employers and discuss careers in the wildlife sciences.
Professionals from state and federal agencies and several consulting firms will be present. The Student/
Professional Lunch, served at noon, is free to students and professionals who have indicated they will attend on
their registration form, but a ticket or name badge symbol is required (Grand Ballroom). All are invited to attend
the Career Fair.

Cell Phone “Policy.” The Western Section of The Wildlife Society strongly encourages all meeting participants to
silence their cellular phones and similar devices prior to entering meeting rooms! The informal policy of the
Western Section “Sergeant-at-Arms-for-Life” (Rhys Evans) is that, if your device makes an audible noise during
any session, you will be expected to purchase a beverage for every person in your seating row at that evening’s
social function. Seriously...you beep, you buy!

Concurrent Sessions. Concurrent sessions will be held on Wednesday afternoon, Thursday afternoon and all day
Friday (see Day and Room Designations for locations; inside front cover and page 1).

Conservation Affairs Committee Meeting. Wednesday 3:00 to 5:00 p.m. (Feather River)
Members are welcome to attend, learn about the committee, and get involved. The committee will be
discussing its role in the Section and brainstorming ways to better inform decision makers about wildlife!
Early Federal Career Opportunities Panel. Friday 8:30 am to 10:00 am (Maxi’s)
A group of 4-6 invited speakers will open the discussion with 8-10 minute presentations covering general information within their specific areas of expertise. Topics to be addressed include: internships including the new Federal career “Pathways” programs, AmeriCorps, Peace Corps and SCA volunteer programs and similar opportunities. A basis for the first presentation will be a document prepared by several Federal employees affiliated with the Western Section of TWS. The session moderators will lead a brief, focused discussion period followed by opening the floor to participant questions. The session is NOT intended to include graduate school recruitment or guidance and similar educational opportunities.

Exhibits and Vendor Displays. Exhibits will be displayed approximately 10:00 a.m. to 5:00 p.m. Wednesday, 7:30 a.m. to 5:00 p.m. Thursday, and 7:30 a.m. to 3:00 p.m. Friday in the Capitol Ballroom Foyer.

Field Trip to Sutter Buttes. Saturday 8:00 a.m. to 4:00 p.m. (Requires separate registration)
The Sutter Buttes is a small volcanic mountain range in the middle of the Sacramento Valley. It is circular in shape, has a diameter of 10 miles, and is one of the largest remaining contiguous parcels of wildlands in the Central Valley. A special charter hike will be guided by a wildlife biologist with 25 years of experience in the Sutter Buttes. We will be leaving Sacramento at 8:00 a.m. and returning to Sacramento at approximately 4:00 p.m. The trip involves some strenuous hiking so you should be in good physical condition and have hiking boots. The cost of the trip is $40. Transportation is not provided, and participants may organize themselves into participant vehicles. Meet in the Doubletree lobby.

Job Board. Post and view job announcements on the job board in the Foyer area near the Registration Desk. Please do not post résumés as we cannot be responsible for the security of your personal information.
Job Interview Panel: I Got a Job Interview, Now What? - Getting Jobs in a Tough Job Environment. Friday 1:15 p.m. to 2:15 p.m. (Maxi’s).

Join us in a panel discussion about the skills employers desire to see in prospective new hires and what those candidates can expect in the interview process. Panelists include biologists from Federal and State Agencies and from private industry. Questions will also be fielded from the audience.

Keynote Program and Awards Banquet. The Keynote Program and Awards Banquet will be held on Thursday, January 31 from 7:00 p.m. to 10:00 p.m. (Grand Ballroom).

A no-host cocktail reception will begin at 6:00 p.m. in the Grand Ballroom Foyer. A ticket or name badge symbol indicating payment is required for the banquet. This year our Banquet Keynote Speaker will be Lily Raff McCaulou, author of Call of the Mild: Learning to Hunt My Own Dinner (see additional detail below). Registrants of the conference can attend the keynote address without purchasing a banquet ticket; seating will be provided at 7:45 p.m. A Memorial will be held from 8:00-8:30 p.m. celebrating the life of Jim Yoakum with the keynote to begin approximately at 8:30 p.m. The annual awards and raffle will follow.

Banquet Keynote Speaker: Lily Raff McCaulou, author of Call of the Mild: Learning to Hunt My Own Dinner. Lily Raff McCaulou grew up near Washington, D.C., graduated from Wesleyan University and worked in New York City’s independent film industry before becoming a newspaper reporter. She has written articles about everything from professional mini-golfers to dogs trained to find wild animal scat for science experiments. She has won numerous awards, including a prestigious Knight-Wallace Fellowship at the University of Michigan. Her first book, “Call of the Mild,” was published in June. Part memoir and part journalism, it explains why Lily -- a gun-fearing urban environmentalist -- decided to
learn to hunt. And it examines what it means to be a hunter in America today. She lives in Bend, Oregon with her husband, son and dog. Lily Raff McCaulou will sign books after her talk on Thursday evening.

**Local Services.** A listing of local services (banks, pharmacies, grocery stores, hospital, etc.) is available at the Doubletree by Hilton concierge desk.

**New Logo for the Western Section!** The Western Section of TWS is proud to introduce its new logo. Earlier this year the Western Section Past-President John McNerney put out a call for logo proposals. Three artists answered the call and contributed a total of seven concepts. These concepts were given careful consideration by the Board and a vote was held. The winning logo was designed by Section member Sarah Yarwood. We believe the logo does a great job representing the Western Section. It is simple, yet illustrates the rich diversity in habitat and species within the Section’s geographic boundaries.

**Messages and Announcements.** Post and view messages and announcements at the message board in the Capitol Ballroom Foyer near the Registration Desk.

**Odor Sensitivity.** Please be courteous to those who may be sensitive to chemical smells, and refrain from wearing perfumes, colognes and strong-smelling hand lotions.

**Oral Presentation Workshop: How NOT to Give a Scientific Presentation.** Thursday, 2:30 to 3:30 p.m. (Maxi’s)

Whether you’re just starting out or looking to improve, this informative (and likely humorous) mini-workshop will provide you with helpful tips for presenting your research work to your peers. Instructor Jon Hooper will provide demonstrations on how to give an effective presentation….and how NOT to.

**Plenary Session.** Thursday from 8:30 a.m. to 12:00 p.m. (Capitol Ballroom B-D)

The plenary session is titled “The Endangered Species Act at 40.” There will be no concurrent sessions during the plenary session.

**Poster Sessions.** Conference posters will be available for viewing on Wednesday, January 30, starting at 5:30 p.m., concurrent with the Conference Welcome Reception, upstairs in Maxi’s, Garden and Terrace. Authors will be available to answer questions about their posters during these times. Most posters will also be available for viewing in the Garden/Terrace Rooms throughout the week.

**Professional Development.** The number of contact hours for each workshop and contributed paper session is equal to the number of actual hours spent in a workshop or session and does not include time allotted for breaks or lunch. Generally, attendance at a meeting such as this is not creditable for an initial application for Certified Wildlife Biologist or Associate Wildlife Biologist (but this years’ pre-conference events are!); however, hours may be credited “one for one” toward CWB Recertification. For example, if you attend four 2.5 hour technical sessions (sorry, social events don’t count!) you may claim 10 hours toward a Professional Development Certificate (in category 1) or toward Certified Wildlife Biologist renewal (category 1). Speaking in or chairing a session is usually credited at 1 hour = 2 hours. Additional information on the TWS Professional Development Certificate and Certified / Associate Wildlife Biologist programs is available from the TWS-Western Section Professional Development Committee or on the national TWS website: www.wildlife.org.

**Raffle and Silent Auction.** The annual raffle will be conducted during Thursday evening’s banquet, after the awards ceremony. You need not be present to win. The silent auction will open on Wednesday evening during the Welcome Reception and Poster Session and will close during the morning break (9:55 a.m.) on Friday. Items
must be purchased and picked up by 1:00 p.m. on Friday, February 3. Raffle and auction proceeds support the Western Section’s student programs including travel grants, awards for best papers, and student-mentor activities. We encourage everyone to purchase raffle tickets, which are available at the Registration Desk or from Western Section Executive Board members and volunteers. Raffle and silent auction items will be displayed near the Registration Desk and/or in the Foyer.

**Recycled and Low Environmental Impact Program Materials.** This program has been printed on “Aspen 30” paper and “Fireworx” cardstock, both 30% post-consumer recycled and Forest Stewardship Council-certified paper, purchased through the company, “Give Something Back.” For each case of paper used, seven meals were donated to the Sacramento Food Bank. In addition, the programs were printed using Xerox’s dry-ink technology which uses non-toxic wax instead of chemically based toner and produces 90% less waste than typical laser printing.

**Refreshment and Lunch Breaks.** Light refreshments will be provided at the early morning, mid-morning and afternoon breaks. Lunch will not be provided. For information on local restaurants and services, inquire at the Registration Desk or at the Doubletree by Hilton concierge.

**Registration Desk.** Registration materials, general information, and Western Section membership applications can be picked up at the Registration Desk.

**Résumé Workshop.** The Western Section is pleased to announce the return of our fantastic résumé workshop! Barbara Peters from the Career Center at Humboldt State University (retired) will be present to offer outstanding guidance on job searching to students and young professionals.

- Thursday from 4:00 p.m. to 6:00 p.m. (Maxi’s) **Undergraduate Students**
- Friday from 10:15 a.m. to 12:00 p.m. (Maxi’s) **M.S. to PhD Level Students**

**Re-usable Nametag Holders.** The Western Section is now using re-usable nametag holders (aka name badges). At the end of the conference, please drop your nametag holder off at the Registration Desk so it can be re-used next year. Thanks!

**Speaker Practice Room.** The Bear River Room will be available throughout the meeting for speakers to practice their presentations. You may obtain a key from the Registration Desk.

**Student Presentation and Poster Contest.** Awards will be given to the best student presentations and posters. Poster awards will be announced during the banquet; oral presentation awards will be announced on our website after the meeting.

**Welcome Reception.** A welcome reception will be held on Wednesday, January 30 from 5:30 p.m. to 7:30 p.m. in the Garden and Terrace Rooms, concurrent with the poster session. A taco buffet will be served and a no-host bar will be available. A ticket or name badge symbol indicating payment is required for this event.

*When entering or exiting rooms during sessions, please be careful to open and close the doors quietly. Please do not congregate and converse in the hallway in the immediate area of a door, as your conversation may disturb ongoing sessions.*
EXHIBITOR LIST

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916-646-3644. jmathews@westervelt.com
MEETING SCHEDULES

Official Meetings

Tuesday, January 29
3:00 p.m. to 7:00 p.m. ....... Western Section Executive Board Meeting (Feather River)

Wednesday, January 30
3:00 p.m. to 5:00 p.m. ....... Conservation Affairs Committee (Feather River)
7:30 p.m. to 9:00 p.m. ....... Chapter Meetings (see Day and Room Designations for locations; inside front cover and page 1).

Thursday, January 31
2:30 p.m. to 3:30 p.m. ....... Oral Presentation Workshop (Maxi’s)
4:00 p.m. to 6:00 p.m. ....... Résumé Workshop, Undergraduates (Maxi’s)
5:05 p.m. to 6:00 p.m. ....... Annual Business Meeting and Member’s Forum (Capitol D)

Friday, February 1
8:30 a.m. to 10:00 a.m. ....... Early Federal Career Opportunities Panel Discussion (Maxi’s)
10:15 a.m. to 12:00 p.m. ....... Résumé Workshop, MS and PhD’s (Maxi’s)

Associated Meetings

Wednesday, January 30
9:00 a.m. to 1:00 p.m. ....... Golden Eagle Working Group (El Camino)

Thursday, January 31
4:00 p.m. to 6:00 p.m. ....... Humboldt State University Alumni Association (El Camino)
1:30 p.m. to 3 p.m. ............ California Bat Working Group Meeting (Rubicon River)

Friday, February 1
9:00 a.m. to 11:30 a.m. ...... California Fisher Working Group (Rubicon River)
9:00 a.m. to 12:00 p.m. ...... California Partners in Flight (Yuba River)
**The Wildlife Society—Western Section**  
**2013 Annual Meeting**

### ALL ABOUT SACRAMENTO AND SURROUNDING AREAS

#### Childcare

**Kidspark.** (Accepts children 2-12 years old on a one time or repeating basis for drop off without pre-registration). Open: 8am-9pm. About 20 minutes northwest of the Doubletree Hotel. 4401 Gateway Park Blvd., #100; Phone Number: (916) 575-9004; http://www.kidspark.com/center/Sacramento/calendar/

#### Bicycling

**American River Bike Trail.** Discovery Park or access near CalExpo (running, biking, long walks) **Note:** Please do not go by yourself! 1600 Garden Highway, Sacramento. (916) 875-6961

**Practical Bikes.** (Bike Rental- for American River Trail or Around Sac- a very bike-friendly city!) 114 J Street. (916) 706-0077

#### Public Gardens and Parks

**UC Davis Arboretum** offers 100 acres of gardens and is open 24 hours a day, 365 days a year.

**Sacramento’s Old City Cemetery.** The California Native Plant Society Demonstration Garden is the southeast corner of the cemetery and you can learn about medicinal, cultural and edible aspects of native plants used by local Native Americans. Flowers include the region’s largest collection of California lilacs (mountain lilacs) and California sages.

**Capitol Park.** (Mellow evening stroll and/or learning about CA botany), L and 10th Street

**McKinley Park.** (great playground, mellow evening strolls). 3330 McKinley Blvd. (916) 277-6060

**Sacramento Zoo.** 3930 West Land Park Dr., Sacramento, CA 95822. Open daily 10 am – 4 pm. Set on 14-plus acres, Sacramento Zoo is the largest accredited zoological park in the Central Valley. Guests can view over 4,000 exotic animals, including snow leopards, red pandas, and Sumatran tigers. A quarter of the 130 resident species is endangered, and special programs are implemented by the zoo to combat such circumstances, including national breeding programs for two specific species. Adults and children learn while having fun by attending stage presentations, evening events, and weekend animal talks.

#### Wineries

**Rail Bridge Cellars – Urban Winery**, 400 North 16th St., Sacramento. Sacramento’s original urban winery providing 6 different varietals primarily with Napa Valley grapes. Custom crush, wine storage, private tastings and event space available.

**Revolution Wines.** 2831 S Street, Sacramento. Sacramento’s premiere winery & bistro. Open Tuesday - Sunday for wine tasting & artisan small plates. Friday night dinner and wine special $15-salad, bread, main entrée and glass of wine. Focus on fresh, local ingredients.

**Clarksburg Old Sugar Mill - Six Wineries: One Location**, 35265 Willow Avenue, Clarksburg, CA 95612. The Old Sugar Mill is located in the historic town of Clarksburg, fifteen minutes southwest of the Capitol building in Sacramento. Come and discover for yourself, the wines and wineries of the Old Sugar Mill Open seven days a week.

**Wineries in Amador County** – in just 30 minutes you can enjoy over 30 wineries and historic Gold Rush Towns. http://www.amadorwine.com/

**Wineries in El Dorado County** - More than two dozen award-winning wineries in the Sierra foothills just one hour from Sacramento or South Lake Tahoe. Welcoming tasting rooms open daily. Special events year-round. Check out calendar of events at www.ELDoradoWines.org.

#### Nature

**Effie Yaw Nature Center**, Tarshes Dr and San Lorenzo Way, Carmichael, CA 95609. Wed-Thu 9 a.m. to 1 p.m., Fri-Sun 9 a.m.-5 p.m. Located where the Sacramento and American Rivers meet, this 302-acre park provides many opportunities for relaxation and recreation. Covered shelters invite leisurely picnic lunches, and visitors may boat, bike, fish, ride horses, or participate in archery activities.
Stone Lakes Wildlife Refuge, 1624 Hood-Franklin Road, Elk Grove, CA 95757. Guided tours and special events only, General Office Line: (916) 775-4421

Yolo Bypass Wildlife Area. Yolo Bypass Wildlife Area is a 16,000-acre reserve that is mostly seasonal and permanent wetlands. It also contains some riparian habitat and upland or grassland habitat. One of the best aspects of this reserve is its proximity to the City of Davis: it is only about three miles east of Mace Blvd. A trip to this area during the fall or winter provides the visitor with a chance to see thousands of over-wintering waterfowl, including many species of ducks and geese. The 16,000-acre Yolo Wildlife Area is one of the largest public/private restoration projects with 3,700-acres of land in the Yolo Bypass floodway restored to wetlands and other associated habitats, with more restoration in the works. The California Department of Fish and Wildlife manages the Yolo Wildlife Area to promote an increase in waterfowl and other bird populations.

Directions from Sacramento: From Interstate 80 West take the Mace Boulevard Exit in Davis. Turn left at off-ramp light. Turn left at the next light at the Mace Boulevard and Chiles Road intersection. Once on Chiles Road east of the Mace intersection, Travel approximately 1.5 miles east to the Yolo Bypass Wildlife Area Headquarters office at 45211 County Road 32B (Chiles Road). The Yolo Bypass Wildlife Area is approximately two miles east of the Headquarters office. Drive up onto the levee at the end of Chiles Road (do not go under the freeway). Turn left at the top of the levee and enter the Yolo Wildlife Area.

Cosumnes River Preserve. Tour the Cosumnes River Walk and Lost Slough Wetlands Walk on your own. It is the only remaining unregulated river on the western slope of the Sierra Nevada. In its lower reaches, it flows through one of the biologically richest regions in California’s Central Valley, before merging with the Mokelumne River to flow into the Sacramento-San Joaquin Delta and eventually the Pacific Ocean. The Cosumnes River Preserve was created to safeguard much of this unique landscape. The free-flowing nature of the river allows frequent and regular winter and spring overbank flooding that fosters the growth of native vegetation and the wildlife dependent on those habitats. More than 250 bird species, more than 40 fish species, and some 230 plant species have been identified on the Preserve.

Directions: From I-5 (Sacramento Area-North): Take Interstate 5 south to the Twin Cities Road exit (marked with a binoculars sign for wildlife viewing) about midway between Stockton and Sacramento. Take Twin Cities Road exit and go east for exactly one mile, to the first stop sign. Turn right at the first stop sign, onto Franklin Boulevard, for 1.7 miles. The Visitor Center is located on the left side of Franklin Boulevard. Continue down Franklin Boulevard and park in the parking lot just past the Visitor Center.

American River Parkway. A picturesque 23-mile stretch of riparian forest and land along the American River that offers visitors wonderful scenic beauty. Bring your bike and check out some of the trail.

Capitol Must Sees

Visit the California State Capitol, Museum and Surrounding Capitol Park. This 19th-century granite building, modeled after the U.S. Capitol, is home to the California Legislature and houses a public museum.

Crocker Art Museum. The Crocker Art Museum was one of the first art museums in the U.S. and is now one of the leading art institutions in California. Established in 1885, the Museum features one of the country’s finest collections of Californian art, exceptional holdings of master drawings, a comprehensive collection of international ceramics, as well as European, Asian, African, and Oceanic art.
The Western Section of the Wildlife Society is proud to partner with Putah Creek Council to offset the carbon and ecological footprint of the Sacramento 2013 Annual Meeting. Over the past several years, the Western Section has collected donations from meeting attendees with the proceeds being used to fund local restoration projects that will offset the carbon footprint of the annual meeting. This year, the registration fee includes a $5 surcharge for carbon offsets and ecological karma.

Putah Creek Council believes thriving creeks build thriving communities. As the recipient of the carbon offset dollars, Putah Creek Council will help protect native wildlife, improve water quality, and ensure the next generation feels inspired to do the same through ‘Adopt-A-Flat’ program.

Putah Creek Council’s education program, Adopt-a-Flat, helps elementary school children learn about the benefits of healthy waterways for people and wildlife. Classes raise flats of native grasses and wildflowers in their classes, incorporating them into California science curriculum. In the spring, the classes take a field to plant their grasses and wildflowers in habitat improvement areas along the creek. Children learn lessons for a lifetime about how we are all connected through our waters, how native plants play an important role in carbon sequestration, and how protecting native biodiversity promotes a healthy environment for all.

**TWS Certification Program**

Certification of wildlife biologists is a service provided by The Wildlife Society for wildlife professionals and the public, who may desire a peer evaluation statement. The Wildlife Society is committed to the sound stewardship of wildlife resources under the guidance of well-educated, experienced, and dedicated wildlife biologists. To further this aim, The Wildlife Society has established standards for certifying the credentials of qualified wildlife biologists.

A professional wildlife biologist is a person with the educational background and demonstrated expertise in the art and science of applying the principles of ecology to the conservation and management of wildlife and its habitats. An applicant for professional certification who demonstrates this expertise through education and experience, and is judged to be able to represent the profession as an ethical practitioner, will be designated as a Certified Wildlife Biologist.

An applicant for professional certification who has limited experience but who has completed the rigorous academic standards and is judged to be able to represent the profession as an ethical practitioner will be designated as an Associate Wildlife Biologist (AWB). After sufficient experience is gained, the AWB may apply for the more advanced level of certification.

Please visit the TWS website (www.wildlife.org) for additional details, or contact your TWS-Western Section Professional Development Committee.
The Wildlife Society—Western Section
2013 Annual Meeting

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Sacramento, CA

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Diamond Springs, CA

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Program and Schedule

The Wildlife Society—Western Section
2013 Annual Meeting

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Dr. Douglas A. Bell, East Bay Regional Park District, Oakland, CA

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Linda Leeman, Ascent Environmental

Meeting Planner
Candace Renger, TWS-WS

Audio Visual Captain
Don Yasuda, U.S. Forest Service

Program Director
Cynthia Perrine, TWS-WS

Professional Development Event Coordinator
Rhys Evans, Vandenberg AFB

Career Fair
Karen Swaim, Swaim Biological Consulting

Raffle and Silent Auction
Lisa Ollivier, U.S. Forest Service
Sandra Hunt-von Arb, Pacific NorthWest Biological, Inc.

Student Papers Judging/Awards
Jeff Wilcox, Sonoma Mountain Ranch Preservation Foundation

Volunteer Coordinators
Janae Scruggs, CA Environmental Protection Agency
Patrick Tweedy, Green Diamond Resources

Program Editing
Rhys Evans, Vandenberg AFB
Amber Giffin, Ascent Environmental
John Perrine, Cal Poly - SLO

Sacramento Area Information
Lucy Harrington, Westervelt Ecological Services

Western Snowy Plover Symposium
Mark Colwell, Humboldt State University
Jim Watkins, U.S. Fish and Wildlife Service

ESA Section 7 Workshop
Jana Affonso, US Fish and Wildlife Service
Eric Shott, National Marine Fisheries Service

Scientific and Technical Writing Workshop
Jack Barclay, Albion Environmental

Student Activities
David Wyatt, Sacramento City College

Wilderness First Aid and CPR
Bobbie Foster, Foster Calm

Hunter Education for Conservation Professionals
Mark Pabst, Mark Heath, Charlie de la Rosa, George Oberstat and Cynthia Perrine
Contributed Papers Session Chairs

Wildlife Diseases and Pathology  
Krysta Rogers, CA Department of Fish and Wildlife

Conservation and Biology of Amphibians and Reptiles  
Laura Patterson, CA Department of Fish and Wildlife

Urban Wildlife Management and Emerging Issues  
John McNerney, City of Davis  
Brad Valentine, CA Department of Fish and Wildlife

Ecology and Management of Shorebirds  
Mark Colwell, Humboldt State University

Island Ecosystems and Wildlife Management  
Chris Lepczyk, University of Hawai‘i, Manoa

Endangered Species Act Implementation: Successes and Challenges  
Lucy Harrington, Westervelt Ecological Services, and  
Mari Quillman, ECORP Consulting

Ecology and Management of Large Mammals and Carnivores  
Kelley Stewart, University of Nevada, Reno  
Sabrina Morano, University of Nevada, Reno

Ecology and Management of Wetlands and Waterbirds  
Laura Valoppi, U.S. Geological Survey

Conservation and Management of Songbirds  
Steve Henderson, Ascent Environmental, Inc.

Biology and Ecology of Small Mammals  
Marjorie Matocq, University of Nevada, Reno

Upland Habitats, Gamebirds and Wildlife  
Eric Blomberg, U.S. Geological Survey

Renewable Energy and Wildlife – Managing a Balance  
Kathy Buescher Simon, Sunrise Consulting, Inc.

The Endangered Species Act, Conservation Banking and Related Tools for Mitigating Impacts to Wildlife  
Joe DiDonato, Wildlife Consulting and Photography

Ecology and Management of Raptors  
Allen Fish, Golden Gate Raptor Observatory

Grazing, Agriculture and Wildlife Conservation  
Michele Hammond, University of California, Berkeley

Climate Change and Wildlife: Managing Moving Targets  
John Perrine, California Polytechnic State University, San Luis Obispo

Posters  
Jessica Martini-Lamb, Sonoma County Water Agency

Reserve Moderator  
Sue Sniado, CA Department of Fish and Wildlife

Other Workshops

Oral Presentation Workshop: How NOT to Give a Scientific Presentation  
Jon Hooper, California State University, Chico

Résumé Workshop  
Barbara Peters, Humboldt State University (retired)

Job Interview Panel: I got a job interview, now what? - Getting jobs in a tough job environment  
David Wyatt, Sacramento City College

Early Federal Careers, Panel Discussion  
David Wyatt, Sacramento City College and Rhys Evans, Vandenberg AFB
IN MEMORIAM – JAMES “JIM” DONOVAN YOAKUM

June 14, 1926 – November 21, 2012
The Wildlife Society—Western Section
2013 Annual Meeting

The Western Section of The Wildlife Society lost a dedicated member on November 21, 2012 with the passing of Jim D. Yoakum. Jim was a valued guardian, advocate and friend of pronghorn antelope. He devoted his professional life, including 25 years of his retirement, to researching, writing, speaking, and occasionally hunting the spirited pronghorn.

Born in Templeton, California, Yoakum served the Navy from 1944 to 1947. Using the GI Bill, he was the first in his family to attend college, graduating with a degree in wildlife management from Humboldt State in 1953. Jim proceeded to Oregon State University on a fellowship; not surprisingly, his thesis paper under Dr. Art Einarson was on Oregon’s pronghorn antelope population. Jim graduated in 1957.

That same year Jim was hired as the BLM’s first wildlife biologist, stationed in Ely, Nevada, where he wrote a newspaper column on wildlife. His writing and photographs attracted the attention of Nevada BLM Director J. Russell Penny, who wanted Jim to highlight BLM’s role maintaining important wildlife habitat. Eventually Yoakum published the first brochure featuring wildlife on public lands, encouraging them to use color photographs, despite the federal agency’s sense of thrift.

As BLM’s wildlife representative, Jim had numerous demands on his time, including rebuilding bighorn sheep populations on BLM lands. When the Devil’s Hole pupfish was threatened with extinction from groundwater pumping, Jim attended the fledgling Desert Fishes Council meetings. Yoakum incurred the wrath of Nevada BLM Director Nolan Keil when he transferred funds from Elko to Las Vegas to build a wild horse exclusion fence to protect pupfish, but U.S. Secretary of Interior Stewart Udall praised Yoakum’s valiant effort.

During those formative years with BLM, Yoakum initiated contact with the Foresta Institute for Ocean and Mountain Studies, located in Washoe Valley, and contributed to the Endangered Species Committee, attempting a “Redbook” for Nevada, similar to the IUCN Redbook. In 1967, utilizing the Foresta library and other sources, Yoakum published the first bibliography on pronghorn antelope. Soon after, Foresta’s Director, Dr. Richard G. Miller, recruited Jim to study the Vicuna in Peru, which was being overhunted for use of its fine fur.

In contrast to most BLM employees who tended to relocate every few years, Yoakum spent his entire career as a wildlife biologist in Nevada, first assigned to work on Nevada issues, and then out-stationed on special projects from the national office.

In 1967, he purchased land in Verdi on the California-Nevada border, and this became his home -- shared by his dogs, his garden, his various collections of pronghorn art and Navy plates, and where he hosted numerous friends. Jim also raised pronghorn to study their eating habits, and owned two bobcats, one of which was featured in Walt Disney’s film “The Living Desert.”

Yoakum retired from BLM in 1986, but continued working with pronghorn as a consultant and researcher, and also taught classes at the University of Nevada, Reno. He continued to publish papers and give presentations, amassing over 50,000 photographs and 50 published reports. His magnum opus, published in 2004, was PRONGHORN, Ecology and Management, co-authored with Bart W. O’Gara. The 6.13 pound and 903 page book compiles over 30 years of pronghorn research, and reflects the dedicated work and respect for pronghorn by many researchers. Yoakum focused on pronghorn habitat needs and food habits, a focus in line with his love of the outdoors. Yoakum and O’Gara were the winners of TWS’s Outstanding Editorship Award for 2005.
He was a strong and dedicated supporter of the Biennial Pronghorn Workshop, which this year celebrates its 25th meeting. In 2002 he received its Berrendo Award, given to an individual or group who have made great contributions to pronghorn management or research. The group has offered an award in his name.

Yoakum was an advocate for all wildlife professionals, and was active in TWS, especially the Western Section. Joining TWS in 1952, he received honorary TWS member status in 1989. Working with other wildlife professionals in Nevada, TWS published a tape called “Silver Mammals” which was distributed to Nevada schools and libraries, and led production of “Golden Wildlife,” a series of photographs with accompanying natural history summaries about California wildlife. Yoakum served on most positions of the Western Section Executive Board, including President in 1970-1971, and finally Historian. The Section awards a James D. Yoakum Award, which recognizes individuals who have provided outstanding, long-term service, support, and commitment to the Western Section of TWS, and must have dedicated a substantial amount of time, energy, and personal sacrifice to furthering the Section’s goals and facilitating its programs and operations. The Award recognizes service to the organization rather than contributions to wildlife management and conservation.

Jim is quoted as saying, “Wildlife has been my entire life. All my life.” His friends who shared his love of wildlife and the outdoors, enjoyed his social, hospitable, well-read and sometimes dogmatic conversation, might protest just a little, pointing out that he was a good friend and colleague as well.
Plenary Schedule
and Abstracts
PLENARY SCHEDULE AND ABSTRACTS

The Endangered Species Act At 40
Thursday, January 31, 2013
8:30 a.m. to 12:00 p.m.
Capitol B, C and D
Chair: Dr. Doug Bell, TWS Western Section President-Elect
Moderator: Dr. John D. Perrine

8:30 to 8:40 a.m. .......................... Welcome and announcements
8:40 to 8:45 a.m. .......................... Plenary introduction: Doug Bell
8:45 to 9:05 a.m. .......................... The Endangered Species Act - Will It Last Another 40 Years?
                                 Paul N. “Pete” McCloskey, Cotchett, Pitre & McCarthy, LLP, Burlingame, CA
9:05 to 9:25 a.m. .......................... On Time, On Target: How the Endangered Species Act is Saving America’s Wildlife
                                 Kieran Suckling, Center for Biological Diversity, Tucson, AZ
9:25 to 9:45 a.m. .......................... Crying Wolf in the Listing and Delisting of Seabirds
                                 Craig S. Harrison; Pacific Seabird Group, Santa Rosa, CA
9:45 to 10:05 a.m. .......................... Does Citizen Participation Improve the ESA’s Listing Process?
                                 Eric Biber, UC Berkeley School of Law, Berkeley, CA
10:05 to 10:25 a.m. .......................... Refreshment Break (Capitol Ballroom Foyer)
10:30 to 10:50 a.m. .......................... Revising the Endangered Species Act
                                 Richard Pombo, Pombo Group, Tracy, CA
10:50 to 11:10 a.m. .......................... The ESA at 40: A Successful Past and an Uncertain Future
                                 Daniel Rohlf, Lewis and Clark Law School, Portland, OR
11:10 to 11:30 a.m. .......................... The Endangered Species Act - Implementation, Challenges, Partnerships, and Collaboration
                                 Alexandra Pitts, U.S. Fish and Wildlife Service, Sacramento, CA
11:30 to 12:00 p.m. ........................ ..Panel discussion
The Wildlife Society—Western Section
2013 Annual Meeting

The Endangered Species Act at 40

Introduction

It has been 40 years since this landmark legislation was passed, so it seems fitting to reflect at this juncture not only on its successes, but also on its implementation and effectiveness. Questions to be considered include whether the Act is in need of repair, how well it functions across institutions of government, whether it may hinder species recovery through limiting habitat improvements or the competing interests of listed species, and whether it is nimble enough to respond to climate change in a timely manner. The plenary session will present the views and experiences of representatives from public agencies, non-profits and the private sector.

Abstracts and Speaker Biographies

THE ENDANGERED SPECIES ACT - WILL IT LAST ANOTHER 40 YEARS?

Paul N. “Pete” McCloskey, Former U.S. Congressman, Cotchett, Pitre & McCarthy, LLP, Burlingame, CA, RumseyFarm@aol.com

Abstract: I will give a brief rundown of the evolution of Earth Day, 1970, the defeat of seven of the “Dirty Dozen” by the Earth Day kids, and the enormous heyday of environmental legislation which was enacted between 1971 and 1974. This includes enactment of the Clean Air, Clean Water and Endangered Species Acts and the Coastal, Estuarine and Marine Mammals Protection Acts, all accomplished by bi-partisan cooperation between the Congress and President Nixon’s environmental person, John Ehrlichman. A review of the first 40 years of the ESA would not be complete without an assessment of its prospects for the next 40 years.

Speaker biography: Mr. Paul N. “Pete” McCloskey, a life-long environmental attorney who also specializes in representing landowners in condemnation actions, graduated from Stanford Law School in 1953. He served as President of the Palo Alto Bar Association and the Conference of Barristers of the State Bar, as Trustee of the Santa Clara Bar Association, and has taught at Stanford University, Santa Clara University, the Army War College, and the Marine Corps Staff College. Mr. McCloskey received the Navy Cross, Silver Star and two Purple Hearts as a Marine Rifle Platoon leader in the Korean War. He was elected to the House of Representatives in 1967, and was re-elected seven times, representing the San Francisco Peninsula area, including Silicon Valley. Mr. McCloskey served as Co-Chairman of the first Earth Day in 1970 and ran for the Republican nomination for the Presidency in 1972, challenging President Nixon’s Viet Nam War policy. In the House of Representatives Mr. McCloskey served under Chairman John Dingell on the Subcommittee on Fish and Wildlife Conservation, where language for the Endangered Species Act was drafted in 1973. In Mr. McCloskey’s own words “We all had a hand in a bi-partisan agreement on the language, not dreaming it would have the impact it has had over the past 40 years.” Mr. McCloskey has also been a Congressional Delegate to the International Whaling Conference and a Congressional Advisor to the Law of the Sea Treaty Delegation. He was appointed by President George H.W. Bush to the U.S. Commission on National and Community Service in 1990, confirmed by the Senate and elected as its first Chairman. In 2006, Mr. McCloskey came out of retirement to challenge Congressman Richard Pombo in the Republican Primary in California’s 11th Congressional District. In 2007 Mr. McCloskey became a Democrat. He has written three books, The U.S. Constitution, (BRL, 1961); Truth and Untruth, (Simon & Schuster 1971; and The Taking of Hill 610 (Eaglet Books, 1992). He was also the chief editor of Guides to Professional Conduct for the New Practitioner (State Bar, 1961). Mr. McCloskey’s hobbies include backpacking, fly fishing and military history.
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ON TIME, ON TARGET: HOW THE ENDANGERED SPECIES ACT IS SAVING AMERICA’S WILDLIFE

Kieran Suckling, Executive Director, Center for Biological Diversity, Tucson, AZ, ksuckling@biologicaldiversity.org

Abstract: Critiques of the Endangered Species Act have focused on the fact that only 1% of listed species have recovered and been delisted. This begs the questions: how many should have recovered by now? What is the standard for establishing recovery expectations? Reviewing the recovery time projection in all federal recovery plans, all downlisting, delisting and status reviews by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service, and annual population trends for over 100 species, we determined that 1) the vast majority of listed species are not scheduled to reach recovery goals yet, 2) the majority of species are progressing toward (=increased population size since listing), and 3) recovery rates generally accord with those established in recovery plans. We conclude that the Endangered Species Act is working well to both avert extinction and move species toward recovery.

Speaker biography: Kieran Suckling is the founder and executive director of the Center for Biological Diversity, an endangered species protection group initiated 1989. He has bachelors and masters degrees in Philosophy and started the Center while writing a doctoral dissertation on the relationship between the loss of biological and linguistic diversity. He has published numerous articles on the political history and effectiveness of the U.S. Endangered Species Act.

CRYING WOLF IN THE LISTING AND DELISTING OF SEABIRDS

Craig S. Harrison, Vice Chair for Conservation, Pacific Seabird Group, Santa Rosa, CA, harrison@hunton.com

Abstract: The barriers to delisting the “endangered” Brown Pelican (Pelecanus occidentalis) from the federal and California endangered species acts’ (ESA) lists were almost insurmountable. Despite abundant scientific evidence that the species was no longer in danger of extinction, it took separate petitions to delist from the state and federal lists, a grueling 4-year administrative process, and a $100,000 environmental assessment. The California population met or exceeded historical levels and had maintained an upward population trajectory for decades. The Center for Biological Diversity petitioned to list the Black-footed Albatross (Phoebastria nigripes) despite the fact that publicly-available data showed increasing populations or stability at major breeding sites. Arguments based on DDE and PCB threats utilized poor science. Pending petitions to list the Ashy Storm-petrel (Oceanodroma homochroa) and Kittlitz’s Murrelet (Brachyramphus breviostris) are controversial because population estimates are notoriously imprecise. Ambiguity is the real basis of many listing petitions and often a line is drawn by listing aficionados between a cherry-picked high and low population estimate to “prove” an impending calamity. Listing has become a “gotcha” exercise that often does not advance conservation. Excessive litigation is ceding wildlife management to judges and ignores that all birds already have substantial protections under the Migratory Bird Treaty Act.

Speaker biography: Craig S. Harrison is an attorney and wildlife biologist. He was a seabird biologist for the U.S. Fish & Wildlife Service in Alaska and Hawaii from 1975 to 1984. Among his publications are the Spring Distribution of Marine Birds in the Gulf of Alaska (Condor 1982), Hawaii Seabird Feeding Ecology (Wildlife Monographs 1983), Seabirds of Hawaii: Natural History and Conservation (Cornell University Press 1990), The Laws and Treaties of North Pacific Rim Nations That Protect Seabirds at Land and Sea (Colonial Waterbirds 1992) and Exxon Valdez Oil Spill Restoration Workshop (PSG Technical Publications 1997). Mr. Harrison has served as the Vice Chair for Conservation for the Pacific Seabird Group since 1992 and has been responsible for formulating this professional society’s conservation policy. He represented the Endangered Species Recovery Council in the delisting of the Brown Pelican from the federal and California endangered species lists (2005-2009). He lives in Bennett Valley in Sonoma County.
DOES CITIZEN PARTICIPATION IMPROVE THE ESA’S LISTING PROCESS?

**Eric Biber,** UC Berkeley School of Law, Berkeley, CA, ebiber@law.berkeley.edu

**Abstract:** One of the more controversial provisions of the Endangered Species Act is citizen involvement in selecting species that become formally protected under the law (“listing”). Citizens can petition the U.S. Fish and Wildlife Service (FWS) to list any unprotected species and can independently use litigation to challenge any FWS listing decision. Critics have argued that these provisions interfere with the ability of FWS to prioritize scarce resources for species that most need protection, and that citizens use petitions and litigation to pursue “pretextual” listing of species to stop development projects, including the strategic use of the listing of subspecies and populations for protection under the Act. We compared the levels of biological threat faced by listed species whose listing process was initiated by petition, or whose listing process had been the subject of litigation, with species whose listing process was neither initiated by petition nor was the subject of litigation. We relied on FWS’s own assessments of biological threat, drawn from the agency’s recovery priority rankings data. We found that petitioned and/or litigated species faced higher levels of biological threat than species that were the subject of neither petitions nor litigation. We did find that citizens were more likely to petition and litigate for the listing of species whose conservation would conflict with development and for the listing of subspecies and populations. However, listed species whose conservation conflicts with development also face greater threat levels than species that whose conservation does not conflict with development; subspecies do not face systematically higher levels of threat than full species. Our results indicate that citizen petitions and litigation may help improve the ESA listing process, at least in terms of identifying species that warrant protection under the Act.

**Speaker biography:** Eric Biber’s teaching and research interests are environmental and natural resources law, administrative law, and property. Prior to joining Berkeley in 2006, he worked as a litigator in the Denver office of Earthjustice, a public-interest nonprofit organization specializing in public lands and other environmental cases. Biber earned a master’s of environmental science with a focus in conservation biology from the Yale School of Forestry & Environmental Studies and a J.D. from Yale Law School. Biber’s scholarship has appeared in a wide range of journals, including *Science, Frontiers in Ecology and Environment, Society and Natural Resources*, the University of Chicago Law Review, the UCLA Law Review, University of Colorado Law Review, and Harvard Environmental Law Review. At Berkeley, Biber teaches courses in Property, Public Lands and Natural Resources Law, Biodiversity Law, and Environmental Law and Policy.

REVISING THE ENDANGERED SPECIES ACT

**Richard Pombo,** Former US Congressman, Rancher, Tracy, CA, richard@pombogroup.com

**Abstract:** A discussion on the legislative efforts to reform the Endangered Species Act, past, present and future. The need to protect private property rights within the implementation of the law is the key to successfully protect and enhance habitat for the recovery of sustainable populations of endangered and threatened species. Future revisions of the ESA must acknowledge the problems and solutions that in the field biologists and those directly involved with species recovery have expressed. The agencies must have the resources available to them to make decisions based on science and the law.

**Speaker biography:** Richard Pombo, a rancher from the Central Valley of California, was first elected to the US House of Representatives in 1992 and represented California’s 11th district until January of 2007. While a Member of the House he served on the Transportation Committee, the Merchant Marine and Fisheries Committee, the Agriculture Committee and the Resources Committee. Mr. Pombo was an especially active member with his career culminating with service as the Vice-Chairman of the Agriculture Committee and
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Chairman of the Resources Committee. He was the key author of several pieces of legislation including reforms to our nation’s environmental laws, energy policy, Native American and Tribal issues, Farm Bill legislation, transportation and international policies. Mr. Pombo also served as the Co-Chair of the Speakers Task Force on Affordable Natural Gas, is a past Chairman of the Western Caucus, and was a Co-Founder of the Portuguese-American Caucus. Mr. Pombo’s work on the protection of private property rights led him to author the widely reviewed book *This Land is Our Land* and to be a staunch defender of property rights on Capitol Hill. Mr. Pombo splits time between his ranch in California, where he and his wife, Annette, have raised their three children, and Washington D.C.

**THE ESA AT 40: A SUCCESSFUL PAST AND AN UNCERTAIN FUTURE**

**Daniel Rohlf**, Lewis and Clark Law School, Portland, OR, rohlf@lclark.edu

**Abstract:** In its seminal 1978 decision in *TVA v. Hill*, the U.S. Supreme Court called the Endangered Species Act “the most comprehensive legislation for the preservation of endangered species ever enacted by any nation.” Over four decades, the statute has succeeded in halting and reversing the declines of many species on its protected lists. Its requirements for federal agencies have made species conservation an integral element of agencies’ planning and decision-making, and the law’s substantive prohibitions - or merely the possibility of these prohibitions in many cases - have led to notable progress in protecting habitat on private land. The statute may be showing signs of age, however. Methodological problems in assessing whether federal actions may jeopardize listed species or destroy critical habitat threaten to allow “nickel and dime” impacts to slowly drive species toward extinction. Lack of consensus in defining key concepts such as which populations are eligible for protection and what constitutes species recovery further undermine conservation efforts. Enforcement of the law, particularly on private land, is sporadic at best. The law faces its stiffest test in confronting twenty first century threats to biodiversity, such as impacts stemming from invasive species and climate change. Designed in 1973 primarily to combat project-based threats to individual species, the ESA has thus far largely fumbled in addressing more pervasive and systemic conservation challenges. Ultimately, two factors will determine whether the United States will remain a leader in protecting species from the unprecedented challenges posed by the modern world: elected leaders and agency managers must be willing to update and enforce the ESA, and the American public must be willing to live within the limits of the ecosystems that all living things must share.

**Speaker biography:** Professor Dan Rohlf teaches in Lewis and Clark Law School’s nationally known environmental and natural resources law program. He also works on real-world environmental litigation as a cooperating attorney with Earthrise Law Center, Lewis and Clark’s environmental law clinic. Originally trained as a geologist, Dan’s expertise lies in endangered species law and policy, wildlife law, and ecosystem management. He is also interested in the interaction of law and science. Classes he teaches include “Wildlife Law, Law, Science, and the Environment Seminar,” “Sustainability in Law and Business,” and a summer field course for law students called “Legal Ecology.” His caseload at Earthrise also focuses primarily on endangered species issues, including extensive work on restoration of salmonids in the Columbia River Basin. Dan’s research and publications likewise have centered on conservation of biological diversity. He is the author of The Endangered Species Act: A Guide to Its Protections and Implementation, which won the National Wildlife Federation book award. He has lectured and published widely on topics related to protecting and managing biodiversity. Dan received his B.A. degree in geology from Colorado College and his J.D. from Stanford. After law school he served as a clerk for Justice Jay Rabinowitz of the Alaska Supreme Court.
THE ENDANGERED SPECIES ACT (ESA) - IMPLEMENTATION, CHALLENGES, PARTNERSHIPS, AND COLLABORATION

Alexandra Pitts, Deputy Regional Director, U.S. Fish And Wildlife Service, Sacramento, CA

Abstract: ESA implementation involves the hard work of meeting the Act’s legal mandates while being pushed by stakeholder litigation, pulled by oft-conflicting court decisions, supportive of National priorities, and constrained by budget realities. We are challenged with conserving increasing numbers of imperiled species in the face of mounting threats and a growing human population. In the face of biological and legal uncertainties, we nonetheless must make listing decisions and develop recovery strategies for listed species, including those threatened primarily with climate change. While the number of species removed from the List of Threatened and Endangered Species through their recovery is modest, the ESA has been tremendously successful at keeping species from going extinct and improving their conservation status. Future success will come as a result of continued and increased partnerships and collaboration, and increased emphasis on landscape-level conservation strategies.

Speaker biography: Alexandra (Alex) Pitts has been serving as the U.S. Fish & Wildlife Service’s Deputy Regional Director of the Pacific Southwest Region (Region 8) since 2010. She plays a lead role in ensuring the Service’s mission and goals are met at 50 national wildlife refuges, 11 fish and wildlife offices, and three national fish hatcheries in California, Nevada, and southern Oregon. Region 8 also administers the Endangered Species Act and has lead management responsibilities for 292 threatened and endangered species. Ms. Pitts began her career with the U.S. Fish and Wildlife Service in 1998, serving as the Service’s Chief of Congressional and Legislative Affairs in Washington, D.C. In 2004 she came to the Pacific Southwest Region (formerly California and Nevada Operations) where she served as Assistant Regional Director of External Affairs for nearly 6 years. Prior to her career with the Service, she worked as a lobbyist for the Weyerhaeuser Company. She also spent nearly seven years on Capitol Hill working at various times as a legislative assistant to Oregon Congressman Michael Kopetski, legislative aid to Oregon Senator Ron Wyden, and as a staff member on the House Agricultural Committee. Ms. Pitts has an undergraduate degree in geography and botany and a Masters in Forestry. She and her family enjoy spending time hiking, kayaking and skiing.
Concurrent Sessions
Schedules
Island Ecosystems and Wildlife Management

Wednesday, January 30, 2013

1:00 p.m. to 2:45 p.m.

Capitol Ballroom A

Chair: Christopher A. Lepczyk, University of Hawaii, Manoa

1:00 to 1:05 p.m. .......... Session introduction and announcements

1:05 to 1:25 p.m. .......... Peregrine Falcon Nesting Ecology on the California Channel Islands
Joel Pagel*, Paul Andreano, J. Nick Todd, Lloyd Kiff and David B. Haines

1:25 to 1:45 p.m. .......... Home Range and Habitat Analysis of Santa Rosa Island Foxes (Urocyon littoralis)
Student Paper
Elizabeth Drake*, John D. Perrine, Brian L. Cypher, Katherine Ralls, Tim J. Coonan, and Russell White

1:45 to 2:05 p.m. .......... Emerging Big Game Management in Hawai‘i: Current Cases and Future Prospects
Ed Johnson*

2:05 to 2:25 p.m. .......... Toxoplasmosis Detection in Soils from ʻOʻahu, Hawaiʻi  
Student Paper
Alisa Davis*, Christopher A. Lepczyk, Clifford W. Morden and Susan E. Crow

2:25 to 2:45 p.m. .......... The Role of Migration Corridors for the Endangered Hawaiian Goose
Christina Leopold* and Steven C. Hess

2:45 p.m. ..................... Session Concludes

*presenter
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Wildlife Diseases and Pathology
Wednesday, January 30, 2013
1:00 p.m. to 4:25 p.m.
Capitol Ballroom B
Chair: Krysta Rogers, California Department of Fish and Wildlife

1:00 to 1:05 p.m. .......... Session introduction and announcements

1:05 to 1:25 p.m. .......... *Supernumerary Digits and Syndactyly in a Swainson’s Hawk (Buteo swainsoni)*
Krysta Rogers*, Stella McMillin and Asli Mete

1:25 to 1:45 p.m. .......... *Wild Birds and West Nile Virus*
Stan Wright*, Beatrix Treiterer; Paula Macedo, Bart McDermott and Dave Brown

1:45 to 2:05 p.m. .......... *The Land-Sea Connection: Epidemiology and Environmental Loading of Cryptosporidium and Giardia in Domestic and Wild Animals along the Central California Coast*
Stori Oates*, Melissa A. Miller, Dane Hardin, Patricia A. Conra, Ann Mell, David A. Jessup, Clare Dominik, Annette Roug, M. Tim Tinker and Wotriona A. Miller

2:05 to 2:25 p.m. .......... *Cyanotoxin (Microcystin)-Associated Mortality of Threatened Southern Sea Otters: Pathology and Demography of a Putative Anthropogenic Pollutant*
Melissa Miller*, Alicia Coupe, Stori Oates, Dave Crane, Corrine Gibble and Raphael Kudela

2:25 to 2:45 p.m. .......... *Case Report of Natural Exposure, and One Mortality, of North American River Otters (Lontra canadensis) to Parvovirus in a Rehabilitation Center*
Daniel Famini*, Mourad W. Gabriel and Mark L. Anderson

2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)

3:00 to 3:05 p.m. .......... Announcements

3:05 to 3:25 p.m. .......... *Canine Distemper Outbreak in Free-Ranging Desert Kit Foxes Inhabiting a Solar Energy Development Zone*

3:25 to 3:45 p.m. .......... *Ticks and Spotted Fever Group Rickettsiae Associated With Fishers (Martes pennanti) and Ringtails (Bassariscus astutus) at the Hoopa Valley Indian Reservation*
Student Paper
Elliot Ven Rooy*, Mourad W. Gabriel, Kerry Rennie, J. Mark Higley and Richard N. Brown

3:45 to 4:05 p.m. .......... *Dusky-Footed Woodrat (Neotoma fuscipes) Ecto-Parasite Loads in Relation to Demographic and Environmental Factors (Preliminary Results)*
Austin Roy* and William D. Tietje

4:05 to 4:25 p.m. .......... *White-Nose Syndrome in Bats: A Review of the Progression of the Disease and the Detection Challenges Facing the Western States*
David Wyatt*, Chandra L. Jenkins, Scott D. Osborn and Linda Angerer

4:25 p.m. .................. Session concludes

*presenter
Ecology and Management of Shorebirds

Wednesday, January 30, 2013
1:00 p.m. to 3:45 p.m.
Capitol Ballroom C
Chair: Dr. Mark Colwell, Humboldt State University

1:00 to 1:05 p.m. .......... Session introduction and announcements
1:05 to 1:25 p.m. .......... Energy Available for Shorebirds from Benthic Macroinvertebrates in Supratidal Managed Ponds in South San Francisco Bay
L. Arriana Brand*, John Takekawa, Tanya Graham, Kevin Buffington, Joel Shinn, Sarah Spring and Keith Miles
1:25 to 1:45 p.m. .......... Dynamics of the Pacific Coast Snowy Plover Metapopulation: The Roles of Climate and Management
Luke Eberhart-Phillips*, Mark A. Colwell and Brian Hudgens
1:45 to 2:05 p.m. .......... Cumulative Reproductive Success of Snowy Plovers in Coastal Northern California
Student Paper
Dana Herman* and Mark A. Colwell
2:05 to 2:25 p.m. .......... Stable Mitochondrial Variation in a Declining Population: A 135-Year Genetic Survey of Buff-Breasted Sandpipers
2:25 to 2:45 p.m. .......... Local and Landscape Habitat Associations of Non-Breeding Shorebirds in San Francisco Bay
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)
3:00 to 3:05 p.m. .......... Announcements
3:05 to 3:25 p.m. .......... Semi-Colonial Nesting by the Snowy Plover Student Paper
Allison Patrick * and Mark A. Colwell
3:25 to 3:45 p.m. .......... Sustaining Shallow-Flooded Habitat in Late Winter Using Variable Drawdown
Kristin Sesser*, Monica Iglecia, Daniel A. Skalos, Khara M. Strum, Matthew E. Reiter; Catherine M. Hickey and Rodd Kelsey
3:45 p.m. ..................... Session concludes

*presenter
Urban Wildlife, Management and Emerging Issues

Wednesday, January 30, 2013
1:00 p.m. to 4:45 p.m.
Capitol Ballroom D

Chairs:
John McNerney, City of Davis and Brad Valentine, CA Department of Fish and Wildlife

1:00 to 1:05 p.m. .......... Session introduction and announcements

1:05 to 1:25 p.m. .......... The Bakersfield Regional Habitat Conservation Plan and Urban San Joaquin Kit Foxes: An Opportunity for Value-Added Conservation
Brian Cypher*

1:25 to 1:45 p.m. .......... The Prewett Family Park Burrowing Owl Preserve: A Model for Urban Burrowing Owl Conservation
Matt Ricketts*

1:45 to 2:05 p.m. .......... Effects Of Urbanization On Bats In California: Winners And Losers
Dave Johnston

2:05 to 2:25 p.m. .......... California Bats Avoid Roads
Justin Kitzes* and Adina M. Merenlender

2:25 to 2:45 p.m. .......... The Tree is Dead. Long Live the Tree. Do Monarch Butterflies Prefer or Simply Use Eucalyptus for Overwintering Roosts? Student Paper
Jessica Griffiths* and Francis X. Villablanca

2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)

3:00 to 3:05 p.m. .......... Announcements

3:05 to 3:25 p.m. .......... The Emerging Wildlife Professional: The Next Generation of Wildlife Professionals, Core Competencies, and the Changing Roles of Colleges and Universities
David Wyatt*, Kathleen M. Norton and Daniel P. Neal

3:25 to 3:45 p.m. .......... Bilingual Outreach: An Important Tool in Urban Wildlife Management
Freddie Olmos* and Mari Quillman

3:45 to 4:05 p.m. .......... Are the Current Wildlife Management Strategies Adequate? The Wildlife Exclusion Fence: Observations from the Field
Milton Yacelga* and Kimberly Craighead

4:05 to 4:25 p.m. .......... Wildlife, Recreational Usage and Infrastructure Development at the East Bay Regional Park District
Robert Doyle*

4:25 to 4:45 p.m. .......... The Genetic Signature of a Disease Outbreak Associated with Poison Exposure Student Paper
Laurel Serieys*, Seth Riley and Robert Wayne

4:45 p.m. ..................... Session concludes

*presenter
Conservation and Biology of Amphibians and Reptiles

Wednesday, January 30, 2013
3:00 p.m. to 5:05 p.m.
Capitol Ballroom A
Chair: Laura Patterson, California Department of Fish and Wildlife

3:00 to 3:05 p.m. .......... Announcements

3:05 to 3:25 p.m. .......... The Pitfalls of Herpetofaunal Sampling in Desert Tortoise Country      Student Paper
Christopher Fabry*

3:25 to 3:45 p.m. .......... Shy Versus Bold: Can Desert Tortoise Personalities Predict Movement Patterns During Translocation Events?
Danna Hinderle*, Jennifer Germano and Doug Deutschman

3:45 to 4:05 p.m. .......... The Physiological Effects of Long-Distance Translocation on Southern Pacific Rattlesnakes (Crotalus oreganus helleri)      Student Paper
Kory Heiken*, Sarah Gartland, Timothy Sorrells, George A. Brusch IV, Ignacio T. Moore and Emily N. Taylor

4:05 to 4:25 p.m. .......... Cascading Impacts on Amphibian Assemblages in Restored Wetlands      Student Paper
Jennifer Rowe* and Tiffany S. Garcia

4:25 to 4:45 p.m. .......... Translocation of California Red-Legged Frog to Restored Critical Habitat, Solano County. Methods, Challenges, and Preliminary Results      Student Paper
Robert Schell*

4:45 to 5:05 p.m. .......... High Fatality and Carcass Removal Rates on a Central California Road for the California Newt (Taricha torosa) and Other Amphibians      Student Paper
Robert Shields* and Dave S. Johnston

5:05 p.m...................... Session concludes

*presenter
Endangered Species Act Implementation: Successes and Challenges

Thursday, January 31, 2013
1:00 p.m. to 5:05 p.m.
Capitol Ballroom A

Chairs:
Lucy Harrington, Westervelt Ecological Services and
Mari Quillman, ECORP Consulting, Inc.

1:00 to 1:05 p.m. .......... Session introduction and announcements
1:05 to 1:05 p.m. .......... Citizen Involvement in the U.S. Endangered Species Act
    Eric Biber* and Berry J. Brosi
1:25 to 1:45 p.m. .......... Conservation Successes and Challenges in the U.S. Fish and Wildlife Service’s Pacific Southwest Region (California and Nevada) Listing Program
    Heidi Crowell*
1:45 to 2:05 p.m. .......... Current Issues in Listing and Recovery under the Endangered Species Act: A Tale of Three Critters
    Daniel Rohlf*
2:05 to 2:25 p.m. .......... The Science and Politics of Recovery: Conserving Endangered Sierra Nevada Bighorn Sheep
    Thomas Stephenson*
2:25 to 2:45 p.m. .......... Conservation, Distribution, and Population-Size of the Now-Delisted California Brown Pelican
    Daniel Anderson*, Franklin Gress, Carlos Godinez-Reyes and Charles J. Henny
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)
3:00 to 3:05 p.m. .......... Announcements
3:05 to 3:25 p.m. .......... Recovery of the Aleutian Cackling Goose: An ESA Success Story
    Kenneth Griggs* and Eric T. Nelson
3:25 to 3:45 p.m. .......... The Consultation Program at 40: A Regional Perspective
    Larry Salata*
3:45 to 4:05 p.m. .......... BLM’s Recovery Fund: An Example of Section 7(a)(1)
    Amy Fesnock*
4:05 to 4:25 p.m. .......... Implementing Section 7: Case Study of a Solar Energy Project
    Amy Fesnoch*
4:25 to 4:45 p.m. .......... The Role of Safe Harbors in the Recovery of Listed Species in California. Or - SHAS - Quietly Saving Butloads of Listed Species
    Rick Kuyper*
4:45 to 5:05 p.m. .......... Protecting Species Threatened by Climate Change under the U.S. Endangered Species Act: Opportunities and Challenges
    Shaye Wolf*
5:05 p.m. .................... Session Concludes
*presenter
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Ecology and Management of Large Mammals and Carnivores  
Thursday, January 31, 2013  
1:00 p.m. to 4:45 p.m.  
Capitol Ballroom B  
Chair: Sabrina Morano, University of Nevada, Reno  

1:00 to 1:05 p.m. .......... Session introduction and announcements  
1:05 to 1:25 p.m. .......... An Update on the Sierra Nevada Red Fox Population near Sonora Pass  
Ben Sacks*, Chris Stermer, Cate Quinn, Mark Statham, Preston Alden, Kathleen Miles, Adam Rich, Joan Lowden and Esther Burkett  
1:25 to 1:45 p.m. .......... Global Phylogeography of the Most Widely Distributed Carnivore, the Red Fox (Vulpes vulpes)  
Mark Statham*, James Murdoch, Jan Janecka, Ceiridwen Edwards and Ben Sacks  
1:45 to 2:05 p.m. .......... Habitat-Mediated Predation Risk to Fishers by Bobcats in a Mixed Coniferous Forest  
Student Paper  
Greta Wengert*, J. Mark Higley, Sean M. Matthews, Kerry M. Rennie, Shannon M. Mendia and Benjamin N. Sacks  
2:05 to 2:25 p.m. .......... Estimating Trend in Occupancy for the Southern Sierra Fisher Population  
2:25 to 2:45 p.m. .......... Habitat Use and Home Range Estimates for Tule Elk in Eastern San Luis Obispo County  
Robert Stafford* and Joe H. Hobbs  
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)  
3:00 to 3:05 p.m. .......... Announcements  
Kent Webb*  
3:25 to 3:45 p.m. .......... Road Impacts on Mountain Lions: Using Road Kill, GPS Collar Data, and Connectivity Modeling to Prioritize Management Actions  
Patrick Huber*, T. Winston Vickers and Walter M. Boyce  
3:45 to 4:05 p.m. .......... Landscape and Roadway Characteristics Associated with Wildlife-Vehicle Collision Hotspots Along State Route 101 Between Atascadero and San Luis Obispo, CA  
Student Paper  
Sara Snyder*, John Perrine and Andrew Schaffner  
4:05 to 4:25 p.m. .......... The Impact of Large Highways on Mammalian Community Composition in Southern California’s Conserved Lands  
Student Paper  
Kelcey Stricker*, Dr. William Kristan, Dr. Tracey Brown and Dr. Thomas Spady  
4:25 to 4:45 p.m. .......... Road Avoidance and Wildlife-Vehicle Collision Risk Along State Route 101 Between Atascadero and San Luis Obispo, CA  
Student Paper  
Sara Snyder*, John Perrine and Andrew Schaffner  
4:45 p.m..................... Session Concludes  
*presenter
Ecology and Management of Wetlands and Waterbirds

Thursday, January 31, 2013
1:00 p.m. to 3:45 p.m.
Capitol Ballroom C
Chair: Laura Valoppi, U.S. Geological Survey

1:00 to 1:05 p.m. .......... Session introduction and announcements
1:05 to 1:25 p.m. .......... *Shorebird Use and Nesting Success in Rice Fields and Wetlands of the Sacramento Valley*
Monica Iglecia*, Jennifer A. Dhundale, Michael A. Hardy, Dan A. Skalos, Karen L. Velas and T. Rodd Kelsey
1:25 to 1:45 p.m. .......... *Creating Intertidal Marsh in the Delta: Opportunities, Constraints, and Adaptive Management*
Rebecca Sloan*, Ellen Berryman, Michelle Orr and Greg Green
1:45 to 2:05 p.m. .......... *Habitat Associations of a Sacramento-San Joaquin Delta Population of California Black Rail (Laterallus jamaicensis coturniculus)*
Danika Tsao* and Ronald E. Melcer, Jr.
2:05 to 2:25 p.m. .......... *Balancing Waterbird Protection and Public Access*
Lynne Trulio*, Jana Sokale, Heather R. White and Kevin D. Lafferty
2:25 to 2:45 p.m. .......... *Transitional Habitat: The Value of Breached Former Salt Ponds for Migratory Waterbirds*
Lacy Smith*, John Y. Takekawa, Stacy Moskal, Tanya Graham, Eric Mruz, Cheryl Strong and Karen Taylor
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)
3:00 to 3:05 p.m. .......... Announcements
3:05 to 3:25 p.m. .......... *Creation and Management of Islands for Roosting and Foraging Waterbirds*
Cheryl Strong and Laura Valoppi*
3:25 to 3:45 p.m. .......... *Panel Discussion*
3:45 p.m. .................... Session Concludes
*presenter
Conservation and Management of Songbirds

Thursday, January 31, 2013
1:00 p.m. to 5:05 p.m.
Capitol Ballroom D

Chair: Steve Henderson, Ascent Environmental, Inc.

1:00 to 1:05 p.m. .......... Session introduction and announcements
1:05 to 1:05 p.m. .......... Western Yellow-Billed Cuckoo Response to Lower Colorado River Habitat Restoration
John Stanek*, Shannon E. McNeil, Diane T. Tracy and Jenna E. Stanek
1:25 to 1:45 p.m. .......... Nest Site Selection of Western Yellow-Billed Cuckoos Along the Lower Colorado River
Jenna Stanek*, Shannon M. McNeil, Diane T. Tracy and John R. Stanek
2:05 to 2:25 p.m. .......... A Long-Term Study of a Southwestern Willow Flycatcher Population: What Have We Learned?
Mary Whitfield*
2:25 to 2:45 p.m. .......... Nest Survival of Tricolored Blackbirds in California’s San Joaquin Valley
Student Paper
Kelly Weintraub* and Dr. T. Luke George
3:05 to 3:05 p.m. .......... Session Concludes

*presenter
Biology and Ecology of Small Mammals

Friday, February 1, 2013
8:00 a.m. to 11:45 a.m.
Capitol Ballroom A

Chair: Marjorie Matocq, University of Nevada Reno

8:00 to 8:05 a.m. .......... Session Introduction and Announcements

8:05 to 8:25 a.m. .......... Use of Camera Traps to Survey for Mohave Ground Squirrels on State and Federal Lands: 2012 Results
David Delaney* and Dr. Philip Leitner

8:25 to 8:45 a.m. .......... Current Status of the Mohave Ground Squirrel: A Five-Year Update
Phil Leitner*

8:45 to 9:05 a.m. .......... Adaptive Management and the Recovery of the Riparian Brush Rabbit
Patrick Kelly, Matthew Lloyd, Kim Forrest, Jeff Holt, Tristan Edgarian and Julie Rentner*

9:05 to 9:25 a.m. .......... The North American Pika (Ochotona princeps) and Climate Change: A Research Consortium Approach to Assessing Extinction Risk
Mary Peacock*

9:25 to 9:45 a.m. .......... High Tide Avoidance and Movement of the Endangered Salt Marsh Harvest Mouse
Katherine Smith*, Laureen M. Barthman-Thompson, William R. Gould and Karen E. Mabry

9:45 to 10:00 a.m. .......... Refreshment Break (Capitol Ballroom Foyer)

10:00 to 10:05 a.m. ...... Announcements

10:05 to 10:25 a.m. ...... Exploring Outcomes of Behavioral and Ecological Interactions Between Two Woodrat Species in Contact in Coastal California
Peter Murphy* and Marjorie D. Matocq

10:25 to 10:45 a.m. ...... The Use of Next Generation Sequencing in the Study of Population Genetics of Small Mammals
Brandi Coyner* and Marjorie D. Matocq

10:45 to 11:05 a.m. ...... The Role of Wild Rodents in The Maintenance of Endemic Tick-Borne Relapsing Fever (Borrelia hermsii) in the Sierra Nevada Mountains
Mike Teglas* and Nathan C. Nieto

11:05 to 11:25 a.m. ...... Small Mammals Exhibit Limited Spatio-Temporal Structure in Sierra Nevada Forests

11:05 to 11:25 a.m. ...... Keystone Effects of Giant Kangaroo Rats in California Grasslands
Justin Brashares*, L. Prugh, L. Saslaw, R. Endicott, W. T. Bean, C. Gurney, R. Stafford and S. Butterfield

11:45 a.m. .................. Session Concludes

*presenter
Renewable Energy and Wildlife – Managing a Balance

Friday, February 1, 2013
8:00 a.m. to 12:05 p.m.
Capitol Ballroom B

Chair: Kathy Buescher-Simon, Sunrise Consulting

8:00 to 8:05 a.m. .......... Session Introduction and Announcements
8:05 to 8:25 a.m. .......... Geodesign: Where Solar Panels and Desert Pavement Meet
Leslie Backus and Kathy Buescher Simon*
8:25 to 8:45 a.m. .......... Challenges of Managing the Balance
Bronwyn Hogan* and Ashleigh Blackford
8:45 to 9:05 a.m. .......... Searching for a Better Way: Environmental Challenges of Developing Utility-Scale Solar Projects in Habitat Areas
Amanda Beck*
9:05 to 9:25 a.m. .......... Mitigating Potential Impacts to Western Burrowing Owl from Wind Development in Palm Springs, California: Mitigation Guidelines in Theory and in Practice
David Daitch* and Michael Cady
9:25 to 9:45 a.m. .......... Avian and Bat Fatality at a Repowered Wind Farm in the Altamont Pass Wind Resource Area
Lauren Brudney*, Chris Chizinski and Ruben Hernandez
9:45 to 10:00 a.m. .......... Refreshment Break (Capitol Ballroom Foyer)
10:00 to 10:05 a.m. ...... Announcements
10:05 to 10:25 a.m. ...... Monitoring Potential Impacts to Birds and Bats at a Major Photovoltaic Power Plant in Central California - Implementing an Avian and Bat Protection Plan
Dave Johnston*, Jeffrey P. Smith, Kim Briones, Gabriel Reyes, Meredith Jantzen, Jeff Seay, Sara Snyder and Michelle Graeser
10:25 to 10:45 a.m. ...... Why The Denominator in Avian and Bat Fatality Estimates Matters: Examples from Tehachapi and other Wind Resource Areas
Dave Hacker*
10:45 to 11:05 a.m. ...... Insect Sampling Techniques as Part of a Baseline Insect Survey for a Utility Scale Alternative Energy Project
Porfirio Pacheco*, A. Paul Flores and Kathy Buescher Simon
11:05 to 11:25 a.m. ...... Desert Tortoise and the Ivanpah Solar Electric Generating System (ISEGS): An Update on Translocation and the Implementation of a Long-Term Monitoring Program
Kelly Herbison*
11:25 to 11:45 a.m. ...... How Burrow Choice May Influence Translocation Decisions
Leslie Backus* and Brenda Hanley
11:45 to 12:05 p.m. ...... Avoidance and Relocation of Giant Kangaroo Rats at the California Valley Solar Ranch
Robert Burton*, Howard O. Clark, Jr., Kristy L. Uschyk and Brian B. Boroski
12:05 p.m.................... Session Concludes

*presenter
**Upland Habitats, Game Birds and Wildlife**

Friday, February 1, 2013  
8:00 a.m. to 11:45 p.m.  
Capitol Ballroom C  
Chair: Eric Blomberg, U.S. Geological Survey

8:00 to 8:05 a.m. .......... Session Introduction and Announcements

8:05 to 8:25 a.m. .......... **Home Range and Seasonal Movements in a Southern Population of Sooty Grouse**  
James Bland*  
8:25 to 8:45 a.m. .......... **Survival of Mountain Quail Translocated from Two Distinct Source Populations**  
Peter Coates*, Ronald J. Troy and David J. Delehanty  
8:45 to 9:05 a.m. .......... **Short-Term Bird and Small Mammal Response to Fuel Reduction Treatments in the Lake Tahoe Basin**  
Patricia Manley*, Dennis D. Murphy, Bruce M. Pavlik, Tray Biasiolli, Alison E. Stanton and Matthew Strusis-Timmer

9:05 to 9:25 a.m. .......... **Estimating Nesting Propensity in Female Greater Sage-Grouse: A Multistate Approach**  
Student Paper  
Daniel Nonne*, Erik J. Blomberg, Michael T. Atamian and James S. Sedinger

9:25 to 9:45 a.m. .......... **Modeling and Mapping Habitat for Greater Sage-Grouse within the Bi-State Planning Area**  
Peter Coates*, Michael L. Casazza, Erik J. Blomberg, Ben Gustafson, Shawn Espinos and Scott Gardner

9:45 to 10:00 a.m. ........ Refreshment Break (Capitol Ballroom Foyer)

10:00 to 10:05 a.m. ...... Announcements

10:05 to 10:25 a.m. ...... **Genetic Structure and Genetic Diversity of Greater Sage-Grouse in Mono County, California**  
Joel Tebbenkamp*, Scott Gardner, Kerry P. Reese and Lisette P. Waits

10:25 to 10:45 a.m. ...... **Evaluation of the Genetic Distinctiveness of Greater Sage-Grouse within the Southwestern Portion of Their Range**  
Peter Coates*, Michael L. Casazza and Sara J. Oyler-McCance

10:45 to 11:05 a.m. ...... **Climatic Processes Influence the Population Dynamics of a Candidate Species: Greater Sage-Grouse in the Great Basin**  
Erik Blomberg*, Daniel V Nonne, James S. Sedinger, Michael T. Atamian

11:05 to 11:25 a.m. ...... **NRCS Sage-Grouse Initiative (SGI): Targeted Approach to Landscape Conservation**  
Thomas Moore*

11:25 to 11:45 a.m. ...... **Greater Sage-Grouse and the Endangered Species Act**  
Steve Abele*

11:45 a.m. ................. Session Concludes

*presenter
The Wildlife Society—Western Section
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The Endangered Species Act, Conservation Banking and Related Tools for Mitigating Impacts to Wildlife

Friday, February 1, 2013
8:00 a.m. to 11:05 p.m.
Capitol Ballroom D

Chair: Joe DiDonato, DiDonato Consulting

8:00 to 8:05 a.m. .......... Session Introduction and Announcements
8:05 to 8:25 a.m. .......... Conservation Banking: Where We’ve Been and Where We Are Going
Craig Denisoff*
8:25 to 8:45 a.m. .......... The Conservation Banking Tool: Role and Requirements
Greg Sutter*
8:45 to 9:05 a.m. .......... SB 1148 - A New Process for Conservation Banking in California
Ben Guillon*
9:05 to 9:25 a.m. .......... Conservation Banking and Land Trusts
Rebecca Kramer*
9:25 to 9:45 a.m. .......... Developing Conservation Bank Service Areas for Threatened and Endangered Species
Kenneth Sanchez*
9:45 to 10:00 a.m. ........ Refreshment Break (Capitol Ballroom Foyer)
10:00 to 10:05 a.m. ...... Announcements
10:05 to 10:25 a.m. ...... Power of Perseverance and Teamwork in the Establishment of the Colton Dunes Preserve
Sharon Lockhart*, Douglas W. Sprague and Mari Quillman
10:25 to 10:45 a.m. ...... Genetic Analysis of Multiple Endangered Species Supports the Core Population Model in San Joaquin Valley Upland Species Recovery Plan
Michael Westphal*
10:45 to 11:05 a.m. ...... Panel Discussion
11:05 a.m....................... Session Concludes
*presenter
Ecology and Management of Raptors
Friday, February 1, 2013
1:00 p.m. to 4:45 p.m.
Capitol Ballroom A
Chair: Allen Fish, Golden Gate Raptor Observatory

1:00 to 1:05 p.m. .......... Session Introduction and Announcements
1:05 to 1:25 p.m. .......... Estimating Northern Spotted Owl Detection Probabilities Using Timber Harvest Survey Data on a Managed Landscape in Northwestern California
Desiree Early*, Lowell V. Diller, Keith A. Hamm, David W. Lamphear and Dr. Trent L. McDonald
1:25 to 1:45 p.m. .......... Installation of Great Gray Owl Nest Structures, or If We Build It, Will They Come?
Lorna Dobrovolny*, Chris Stermer, Chris Fichtel and Steven Patti
1:45 to 2:05 p.m. .......... Status and Trends of Nesting Osprey at Mono Lake Tufa State Natural Reserve, 2004 - 2012
Lisa Fields*, Peter H. Bloom and Scott Thomas
2:05 to 2:25 p.m. .......... Molecular Analysis of Changes in Population Size of American Kestrels in Northern and Central California
Elizabeth Wommack* and Rauri C. K. Bowie
2:25 to 2:45 p.m. .......... Peregrine Falcon (Falco peregrinus) Prey Items in the Anza-Borrego Desert
Marcus Collado*, Chris B Meador, John D Bittner and Renée Rivard
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)
3:00 to 3:05 p.m. .......... Announcements
3:05 to 3:25 p.m. .......... Survival of Reintroduced California Condors in Big Sur, California
David Moen*, Mike Stake, Kelly Sorenson and Joe Burnett
3:25 to 3:45 p.m. .......... Depressed Hatching and Eggshell Thinning of California Condors Reintroduced to Central California
Joe Burnett*, Robert Risebrough, Kelly Sorenson, Joseph Brandt, Mike Clark, Debbie Cianni, Chandra David, Estelle Sandhaus, Susie Kasielke and Jenny Theule
3:45 to 4:05 p.m. .......... Statewide Distribution of Golden Eagle Nests in Nevada
John Boone* and Cris Tomlinson
4:05 to 4:25 p.m. .......... Golden Eagle Population Demographics and Natal Dispersal in Western Nevada
Katie Quint*, John D Bittner, Chris B. Meador and Marcus A. Collado
4:25 to 4:45 p.m. .......... Results of Long-Term Golden Eagle Population Surveys Across 7 Counties in Southern California
Renée Rivard*, John D. Bittner, John Oakley, Chris B. Meador, Marcus A. Collado, James Hannan, PhD, Katie R. Quint and Kate Spier
4:45 p.m. ..................... Session Concludes
*presenter
Grazing, Agriculture and Wildlife Conservation

Friday, February 1, 2013
1:00 p.m. to 3:25 p.m.
Capitol Ballroom B
Chair: Michele Hammond, University of California, Berkeley

1:00 to 1:05 p.m. .......... Session Introduction and Announcements
1:05 to 1:25 p.m. .......... Payments for Ecosystem Services: A California Rancher Perspective
                        Pelayo Alvarez*, Molly Cheatum, Frank Casey, Ph.D. and Ben Parkhurst
1:25 to 1:45 p.m. .......... Recreational Income on Farms and Ranches: Implications for Land Use Change
                        Student Paper
                        Luke Macaulay*
1:45 to 2:05 p.m. .......... Optimizing Grassland Bird Conservation and Ranching: Combining Data Driven
                        Decision-Making and Holistic Grazing
                        Nathaniel Seavy*, Carlene Henneman, Thomas Gardali
2:05 to 2:25 p.m. .......... PRBO’s Rangeland Watershed Initiative: Measuring the Soil, Vegetation, and Wildlife
                        Benefits of Prescribed Grazing
                        Wendell Gilgert*, Geoffrey R. Geupel, Kenneth W. Tate and Leslie M. Roche
2:25 to 2:45 p.m. .......... Integrating Science into Decisions: Climate Change/Land Use Change Scenarios for
                        Assessing Threats to Ecosystem Services on California Rangelands
                        Pelayo Alvarez*, Kristin Byrd, Chris Soulard, Lorraine Flint, Frank Casey, Ben Sleeter and
                        Terry Sohl
2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)
3:00 to 3:05 p.m. .......... Announcements
3:05 to 3:25 p.m. .......... American Kestrels: An Overview of a Ten-Year Nest Box Project in Eastern Merced
                        County
                        Steve Simmons*, Jim Dunn and Nancy Sage
3:25 p.m. ..................... Session Concludes
*presenter
Climate Change and Wildlife: Managing Moving Targets

Friday, February 1, 2013
1:00 p.m. to 3:45 p.m.
Capitol Ballroom C

Chair: John D. Perrine, California Polytechnic State University, San Luis Obispo

1:00 to 1:05 p.m. .......... Session Introduction and Announcements

1:05 to 1:25 p.m. .......... Potential Pathways for Avian Nest Survival Response to Climate Change
Student Paper
Miles Becker* and Peter J. Weisberg

1:25 to 1:45 p.m. .......... Habitat Associations of Four Alpine Mammal Species in the Sierra Nevada Range Of California
Robert Klinger*, Cody Massing and Sarah Stock

1:45 to 2:05 p.m. .......... Do High Elevation Mammals Manage Their Own Habitat in the Sierra Nevada Mountain Range Of California?
Jennifer Chase* and Rob Klinger

2:05 to 2:25 p.m. .......... Distribution and Abundance of American Pika in the Sierra Nevada and White Mountain Ranges of California
Robert Klinger*, Cody Massing and Sarah Stock

2:25 to 2:45 p.m. .......... Habitat Selection and Environmental Correlates With Local Scale Occupancy Patterns of American Pika in the Sierra Nevada Range
Robert Klinger, Cody Massing and Sarah Stock*

2:45 to 3:00 p.m. .......... Refreshment Break (Capitol Ballroom Foyer)

3:00 to 3:05 p.m. .......... Announcements

3:05 to 3:25 p.m. .......... Thermal Regimes of Eight Intensively Monitored Pika (Ochotona princeps) Taluses, Sierra Nevada, CA, 2009-2012
Constance Millar* and Robert D. Westfall

3:25 to 3:45 p.m. .......... Pikas and Climate: Patterns of Apparent Extirpation in California
Joseph A. E. Stewart*, John D. Perrine and David H. Wright

3:45 p.m. .................... Session Concludes

*presenter
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POSTER SESSION

January 30, 2013
5:30 to 7:30 p.m. (Poster Authors Present)
Terrace and Garden Rooms (upstairs)
(Also available for viewing throughout the conference)
Chair: Jessica Martini-Lamb, Sonoma County Water Agency

Incorporating Climate Change into the California Wildlife Action Plan
Albright, Whitney; Natalie S. Dubois, Judith Boshoven, Amber D. Pairis and Armand Gonzales

Distribution of Observations of California Red-legged Frog in the Great Central Valley Hydrographic Basin
Alvarez, Jeff; Sarah M. Foster and Jeff T. Wilcox

Fall-Winter Habitat Utilization of Eurasian Wigeon and American Wigeon with Notes on Migration and Highly Pathogenic Avian Influenza H5N1 Student Poster
Ashe, Jeremy

Habitat Conservation Plans and Climate Change
Bernazzani, Paola; Bethany A. Bradley and Jeffrey J. Opperman

Fall Migration of Radio-Tagged Broad-Winged Hawks in California
Capitolo, Phillip; Lynn J. Jesus, William E. James, Jill A. Harley, Allen M. Fish and Angus C. Hull

Survival Rates of Pacific Coast Band-Tailed Pigeons Determined Using VHF and Satellite Telemetry
Casazza, Michael; Peter S. Coates, Cory T. Overton and Brian J. Halstead

Ectoparasites on the Giant Kangaroo Rat, Carrizo Plain National Monument, San Luis Obispo County, California
Clark, Howard; Helen K. Pigage, Colin A. Wilkinson and Robert K. Burton

LandSat Evaluation of Trumpeter Swan Historical Nesting Sites in Yellowstone National Park
Cockrell, Laura; and Robert Frederick

California Tiger Salamander Utilization of Existing and Restored Vernal Pools at the Elsie Gridley Mitigation/Conservation Bank, Solano County, California
Degraff, Tim

Giant Garter Snake (Thamnophis gigas) Habitat Evaluation and Survey at Gray Lodge Wildlife Area – a Pilot Project
Dobrovolny, Lorna; Dave Van Baren, David Wright, Stacy Heminway and Canh Nguyen
Conservation of the Marbled Murrelet in the Pacific Northwest
Falxa, Gary; Martin G. Raphael, Andrew J. Shirk

Courtship of Northern Pintail in Relation to Sex Ratios, Pairing Chronology and Hunting Pressures
Student Poster
Foster, Stephanie

Genetic Diversity and Population Structure of the Endangered Ceanothus ferrisiae (Coyote Ceanothus)
Gardipee, Florence; Rodney Honeycutt, Dan Potter and Janell Hillman

Maternal Rest Sites: Unique Shelters Used by Female Fishers Rearing Kits
Student Poster
Green, Rebecca; Kathryn L. Purcell, Craig M. Thompson and Douglas A. Kelt

A Revitalization of California Department of Fish and Game’s Spotted Owl Database
Hardy, Michael

Genetic Verification of the Accuracy of a Track Measurement Method to Determine Sex in Fisher (Martes pennanti)
Hegg, Sarah; Jody M. Tucker and Richard L. Truex

Sustained Long-Term Monitoring in Montane Regions of Northern California
Heminway, Stacy; Canh Nguyen and David Wright

Assessing the Diversity and Relative Abundance of California Bats in North Coast Vineyards
Student Poster
Kelly, Rochelle; Justin A. Kitzes, Houston Wilson and Adina M. Merenlender

Falcon Distribution in Urban Areas in the United States
Student Poster
Law, Givonne

Abundance Estimates of Blacktail Deer Using Noninvasive Sampling in a Genetic Mark-Recapture Framework
Lounsberry, Zachary; Tavis Forrester, Maryjo Olegario, Mark Statham, Heiko Wittmer and Ben Sacks

Underpass Permeability for Wildlife – Highway 580, Alameda County, California
Marangio, Michael; J. Mark Higley, John T. Finn, Kerry M. Rennie, Craig M. Thompson, Kathryn L. Purcel, Rick A. Sweitzer, Sandra L. Haire, Paul R. Sievert and Todd K. Fuller

An Evaluation of a Weaning Index for Wild Fishers (Martes pennanti) in California
Matthews, Sean

Habitat Restoration for Endangered Species
Mierzwa, Ken

Use of Video to Evaluate Hatch Date Estimation for the Western Snowy Plover (Charadrius nivosus nivosus)
Miller, Jamie; Regina Ball and Dan Robinette
Distribution of Oak Mistletoe in Relation to Ringtail Home Ranges in the Northern Portion of the Sutter Buttes, Sutter County, California  Student Poster
Moffett, Patrick; David Stevens, Michael Fong, D. Scott Newton and David T. Wyatt

Habitat Use of Mule Deer on Agricultural Lands: Implications for Survival and Reproduction
Morano, Sabrina; and Kelley M. Stewart

Greater Sage-Grouse Chick Survival and Movement Patterns During Variable Climate Conditions
Student Poster
Nonne, Daniel; Erik J. Blomberg, Michael T. Atamian and James S. Sedinger

A STR Multiplex for Columbian Black-Tailed Deer  Student Poster
Olegario, Maryjo; Zachary Lounsberry and Ben Sacks

Protecting the San Joaquin Kit Fox through Exclusion in the California Valley Solar Ranch: A One-Way Door Design
Powers, Robyn; Howard O. Clark, Jr. and Robert K. Burton

Population Genetics of the Feral Hogs on Isabela Island, Galapagos  Student Poster
Reponen, Sini; Sarah K. Brown, Bruce Barnett and Benjamin N. Sacks

Migration Patterns for Flammulated Owls (Otus flammeolus) from Breeding Locations in Washington, Utah, Colorado and California Using Light-Level Geolocators  Student Poster
Rich, Shannon; David Johnson and Colleen Hatfield

Bald Eagle (Haliaeetus leucocephalus) Management in an Urban Wildfire Hazard Reduction Area: Challenges and Successes
Riensche, David; Douglas A. Bell, Mary Malec and Harvey Wilson

Movement Patterns and Habitat Use by the Western Pond Turtle (Actinemys marmorata) in the East Bay Regional Park District
Riensche, David; Douglas A. Bell, Amanda L. Dwyer and Janelle A. Dorcy

Utilizing a Species Distribution Model to Identify Potential Habitat for the Yellow-Billed Cuckoo along the Sacramento River and Surrounding Drainages  Student Poster
Rogers, Matthew, Colleen Hatfield, Don Miller, Raymond Bogiatto, Joe Silveira and Chrissy Howell

Examining the Relevance of Rapoport’s Rule in Relation to the Parasites of Voles (Microtus spp.)
Student Poster
Roy, Austin

Structural and Functional Changes Over Time at Fisher (Martes pennanti) Rest Structures in Northwestern California
Schlexer, Fredrick and William J. Zielinski
Characterizing Migration Patterns, Winter Habitat and Diet of Northern Saw-Whet Owl (*Aegolius acadicus*) in the Sierra Nevada Foothills of California  Student Poster
Shaw, Julie; Colleen Hatfield, Tag Engstrom and Raymond J. Bogiatto

Saving Lives and Training the Next Generation: State Route 101 Wildlife Corridor Safety Project
Siepel, Nancy; John D. Perrine, Lisa Schicker and Morgan Robertson

What Matters Most to a Mouse? Habitat Preference in *Zapus princeps*  Student Poster
Smith, Jennifer

Conditions inside Fisher Dens during Prescribed Fires: What is the Risk of Spring Underburns to Fishers and their Kits?
Thompson, Craig; Kathryn L. Purcell, Rebecca E. Green, Adam Hernandez and Carolyn Ballard

Design of Artificial Burrow and Enclosure Used to Relocate Giant Kangaroo Rats at the California Valley Solar Ranch
Uschyk, Kristy; Howard O. Clark, Jr., Lauren Desilva, Matt Quinn and Robert K. Burton

Bat Activity in the Northern Portion of Sutter Buttes as Determined by Long-Term Acoustic Data, Sutter County, California
Vizina, Rosalinda; David T. Wyatt, William E. Rainey and Elizabeth D. Pierson

Bird Mortalities in Open Pipes
Whitfield, Mary and Sean P. Rowe

Investigating Geographic Isolation in the Sutter Buttes Using Comparative Northern Pacific Rattlesnake Venom Proteomics
Woodruff, Glenn; Tag Engstrom, Daniel Edwards and Colleen Hatfield
SESSION ABSTRACTS INFORMATION

To conserve paper and reduce energy consumption, abstracts for concurrent and poster sessions are provided electronically. Abstracts are available to view, download or print via the Western Section webpage (http://wildlifeprofessional.org/western/tws_abstract_display_2013.php).

Abstracts will be available for viewing in the back of most session rooms and at the registration desk. A limited number of printed abstracts will be available for purchase.

Smart phone users may scan the following code to gain quick access to the online abstracts:

![QR Code]
FUTURE MEETING DATES

TWS National Meeting

October 5-9, 2013
Milwaukee, Wisconsin

TWS - Western Section

January 29-31, 2014
Reno, Nevada

Note to California employees: Start planning early to attend! Research out-of-state travel request guidelines for your organization, consider travel grants from your chapter and Western Section, and consider submitting an abstract for poster or oral presentation. Western Section will post justification letters of support on our website for you to reference in your requests. Hope to see you there as we celebrate 60 years of Western Section and our 60th Annual Meeting!

TWS - Western Section

January 28-30, 2015
Santa Rosa, California

Where should we go next?
Talk to your Chapter Representative!