Welcome to the CNPS 2012 Conservation Conference!

In January 2009, CNPS hosted its first conservation conference in over 23 years. It was readily evident that the conviction to collaborate toward a common goal of protecting California’s native plants and plant landscapes was alive and thriving in the conservation community. Today’s conference was born at the close of that 2009 conference—to continue the exchange of cutting edge ideas and concepts, further foster connections, strengthen partnerships, and serve as motivation and inspiration to all of us who believe in our efforts to conserve California’s amazing and diverse habitats.

This year’s conference was designed to promote action. As a participant, you will be asked what you can do to improve the state of conservation in your region or area of expertise and you will be presented with opportunities to contribute ideas and strategies both during and after the conference. It is our hope that you will find inspiration that spurs you to act to make a difference for conservation.

Over the next few days, we will be sharing knowledge and the tools needed to tackle our state's most urgent conservation challenges. This conference was planned to be as much about science and education as it is about learning to strategize and work together. Our intention is to cultivate collaborative and effective partnerships within California’s conservation community and beyond.

Our 2012 conservation conference would not have been possible without the time, energy, creativity, and commitment of over 400 organizers, volunteers, sponsors and donors over the past three years. We are humbled by and grateful for your dedication and effort.

We would also like to thank you for your participation in attending the conference today. We hope that this meeting presents the opportunities to fulfill you intellectually, challenge you creatively, and expand your professional network. We look forward to working with you in the future, to preserve, conserve, and restore the roots of California’s richness.

Tara Hansen
Executive Director

Vince Scheidt
Conference Executive Committee Chair & Board of Director

Brett Hall
President and Program Committee Chair

Josie Crawford
Conference Coordinator & Education Program Director

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With the exception of staff, designated with an S, and contractors, designated with a C, all other committee members are volunteers!

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**CONFERENCE COORDINATOR**

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Steve Schoenig

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Kristina Schierenbeck  
Carol Witham

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Michael Barbour  
Brett Hall

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Mark Bibbo  
Brian Cleary

**CNPS CHAPTER POSTERS**

Kristi Haydu

**FIELD TRIPS**

Carolyn Martus

**WORKSHOPS**

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Megan Enright  
Makela Mangrich

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**STUDENT SESSION**

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Edith Allen  
Sula Vanderplank

**STUDENT ACTIVITIES**

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Suzie Woolhouse  
Kandis Gilmore
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Duran Fiack
Sharifa Gulamhussein
Kristen Hasenstab
Chris Kopp
Jennifer Ohayon

JOB/RESUME BOARD
Amy Concilio

LOCAL ARRANGEMENTS
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CONFERENCE PLANNER
Terri Stevenson - C

AUDIO/VISUAL
Dick Miller
Nolan Saurez

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James Rader

SAN DIEGO CHAPTER LIAISON
Kay Stewart

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Debbie Cressey
William Hamilton - S
Tara Hansen - S
Sandy McCoy - C
Mike Ross
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Kari Coler

PUBLIC DAY
David Varner, Chair
Scott Jones

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Eddie McArthur, Chair
Geri Hulse-Stephens
Kristin Jacobs
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Ree Slocum

PHOTO CONTEST
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Steve Ingram
Aaron Sims - S
Ree Slocum

POETRY/SPOKEN WORD
Thea Gavin, Chair

SONGFEST
Steve Hartman, Chair

CNPS STORE
Caroline Ficker - S

PRELIMINARY & FINAL PROGRAM DESIGN
Beth Hansen-Winter - C

T-SHIRT DESIGN
Marcy Millet - S

WEBMASTER AND LOGO DESIGN
Mark Naftzger - C

ADDITIONAL STAFF SUPPORT
Caroline Ficker - S
Stacey Flowerdew - S
Marcy Millet - S
Cari Porter - S
Danny Slakey - S

California Native Plant Society
Protecting California's native flora since 1965

Board of Directors:
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Vice President -------- Lauren Brown
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Laura Camp (incoming)
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Chapter Council Representative:
Orchid Black
Brian LeNeve (outgoing)
Steve Hartman (incoming)

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Vice Chair -------- Larry Levine
Secretary --------- Marty Foltyn

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Josie Crawford
Rebecca Crowe
Julie Evens
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Aaron Sims
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Deborah Stout
Greg Suba

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Stacey Flowerdew
Marcy Millet
Cari Porter

Chapter Staff:
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Mack Casterman
Margot Cunningham

Contract Staff:
Vern Goehring
Bob Hass
Sandy McCoy
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Bob Hass
Sandy McCoy
Mark Naftzger
Conference Logistics and Miscellaneous Information

Registration check-in is in the Crescent Room of the Garden Ballroom, on the second floor, located across the hall from Garden Salons One and Two.

Meeting place for field trips and Vernal Pool Invertebrate workshop on Jan 10 and/or 11, is in front of the main lobby of the Town and Country Resort and Conference Center.

All Volunteers bypass Registration and go straight to Volunteer Check-in in the Crescent Room of the Garden Ballroom, on the second floor, located across the hall from Garden Salons One and Two.

Exhibitor Check-in is in Garden Salon Two.

All Speakers check in in the Crescent Room of the Garden Ballroom, after registration, to deliver a copy of your digital presentation on a clean, labeled (Session, author) thumb-drive or labeled CD-ROM. If your presentation is scheduled for the morning session, you must deliver a copy of your presentation before 4:30 p.m. the day before it is scheduled. If your presentation is scheduled for the afternoon you must deliver a copy before 10:30 a.m., on the day of your presentation. All presentations must be loaded on the conference computers well in advance of the session.

Plenary sessions are held in the Regency Ballroom.

Conference sessions are held in Windsor, Hampton, and Sheffield, of the Regency Ballroom, as well as the Tiki Room, the octagonal building to the northwest of the Regency Ballroom (see maps on inside back cover). On Saturday, Jan 14, there will be sessions held on the top floor of the Regency Tower in Le Chanticleer. Signage will direct you to the rooms and volunteers will be on hand to help you.

Sessions are concurrent allowing participants to change sessions during the breaks between talks. When entering or leaving a session, please be sure the door does not slam behind you. Try to enter or leave talks at the break between talks. It takes 2 minutes to get from the Regency Ballroom to the Tiki Room and longer to get to the top floor of the Regency Tower. Please allow enough time to get from one session to the other.

Conference Name Badges are required to gain entry into all conference events. If you lose your name badge please check in with the CNPS Registration Desk. All guests must display Guest passes.

Accessibility is a priority for CNPS. The Town and Country Resort and Conference Center is ADA compliant and all events may be reached by elevator. Please contact the CNPS Registration Desk if you encounter any problems or have accessibility questions.

CNPS Books and Merchandise Store is located in Brittany classroom across from the Regency Ballroom.

Abstracts for talks and posters may be downloaded through our website at www.cnps.org/2012 or you may download them by checking-out a USB thumb-drive from the conference Registration Desk, in the Crescent Room of the Garden Ballroom.

Speaker Practice Room will be available for all speakers. A computer will be available for speakers to review their presentations. Please bring your own copy of your presentation. For access to the room, go to the Speaker Check-in table.

Lunches are available for purchase at lunch carts in the meeting space, during the lunch breaks. Alternatively, you may dine at one of Town and Country’s five restaurants or walk to the Fashion Valley Mall over the pedestrian bridge behind the conference center.

Local Information will be available in the Exhibitor Hall.

A message board will be located near the CNPS Registration Desk.

The Job and Resume Board will be in the Exhibitor Hall in Garden Salons of the Garden Ballroom.
Refreshment breaks are scheduled for mornings and afternoons on each day of the conference. Coffee, tea, and snacks will be provided in the Exhibitor Hall in Garden Salons of the Garden Ballroom.

Questions or problems: Please find a staff person wearing staff identification or go to the Registration desk.

Lost and Found items in the meeting space will be managed by the CNPS Registration Desk. After January 14, any inquiries regarding lost and found items in hotel rooms or meeting space should be directed to the Town and Country Resort and Conference Center.

Useful Websites

- Tourist Information  www.sandiego.org
- Fashion Valley Mall   http://www.simon.com/mall/?id=765
- Public Transportation http://www.sdmts.com/trolley/trolley.asp

Conference Sustainability

We believe that good plant conservation practices include reducing consumption of all natural resources. For these reasons we attempt to reduce our conference footprint by taking the following measures:

- Working with the venue to reduce the use of plastic bottles and disposable dishware.
- Providing abstracts digitally rather than printed copies
- Printing programs on recycled paper using soy-based inks
- Providing a room-share/ride share forum
- Asking exhibitors and presenters to reduce paper handouts and other solid waste
- Not giving you a swag bag with useless junk made in China
- Choosing a venue that would work with us on reducing our footprint
- Purchasing cotton t-shirts made in the USA

The Town and Country Resort and Conference Center has extensive Green Initiative practices, including:

- A comprehensive recycling program
- Water and energy conservation programs
- And operational initiatives that reduce the use of hazardous and disposable products

Thank you for helping to make this conference more sustainable!
**Tuesday, January 10, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 a.m.</td>
<td>Workshop registration opens</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Most workshops begin</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Field trip registration opens</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Field trip departs from in front of hotel lobby</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>Lunch break</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>Afternoon workshops begin</td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td>Workshops conclude for day</td>
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**Wednesday, January 11, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
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</tr>
<tr>
<td>5:00 p.m.</td>
<td>Workshops conclude for day</td>
</tr>
<tr>
<td>6:00 p.m.</td>
<td>Early registration</td>
</tr>
<tr>
<td>7:00 p.m.</td>
<td>Reception to Celebrate <em>The Jepson Manual</em> Second Edition</td>
</tr>
</tbody>
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**Thursday, January 12, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 a.m.</td>
<td>Registration opens, Speaker and Volunteer Check-in opens, Exhibitor Set-up begins</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>CNPS Welcome and Plenary Address: Louise Jackson, UC Davis</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>4 concurrent sessions: Central Coast &amp; Central Valley, Rare Plants, Climate Change, Invasive Plants</td>
</tr>
<tr>
<td>11:40 a.m.</td>
<td>Lunch break</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>4 concurrent sessions: Central Coast &amp; Central Valley, Rare Plants, Baja, Vegetation</td>
</tr>
<tr>
<td>2:40 p.m.</td>
<td>Refreshment break</td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td>4 concurrent sessions: Climate Change, CEQA, Baja, Vegetation</td>
</tr>
<tr>
<td>6:00 p.m.</td>
<td>Welcome Reception, Poster Session, Botanical Art and Photography Exhibitions</td>
</tr>
<tr>
<td>7:30 p.m.</td>
<td>Wild Words Poetry: Reading by Paul Willis and open mic</td>
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<tr>
<td>8:30 p.m.</td>
<td>Songfest and music jam</td>
</tr>
</tbody>
</table>
Friday, January 13, 2012

7:30 a.m.  Registration and Exhibitor Hall open, Speaker and Volunteer Check-in open
8:00 a.m.  CNPS Directors and Plenary Address: Bruce Pavlik, Royal Botanic Gardens at Kew
9:30 a.m.  Refreshment break
10:00 a.m. 4 concurrent sessions: Land Acquisition, Restoration, Rare Plant Communities, Plant Science
11:40 a.m. Lunch break
1:00 p.m. 4 concurrent sessions: Fire and Native Plants, Restoration, Rare Plant Communities, Plant Science
2:40 p.m.  Refreshment break
3:00 p.m. 4 concurrent sessions: Fire and Native Plants, Renewable Energy, Rare Plants, Plant Science
5:30 p.m.  Cocktail party, Silent Auction, and Raffle
7:30 p.m. Banquet, California Botanical Society address; Keynote address: Peter Raven, Missouri Botanic Garden; live auction

Saturday, January 14, 2012

7:30 a.m.  Registration and Exhibitor Hall open, Speaker and Volunteer Check-in open
8:00 a.m. 5 concurrent sessions: Student Session, Tribal Conservation, Horticulture, Transmontane, Education
9:40 a.m. Refreshment break
10:00 a.m. 5 concurrent sessions: Student Session, Tribal Conservation, Horticulture, Transmontane, Education
10:30 a.m. Public Day Events and Workshops begin
11:40 a.m. Lunch break
1:00 p.m. 5 concurrent sessions: Land Management, Southern CA, Planning Tools, Northern CA, Student Session
2:40 p.m.  Refreshment break
3:00 p.m. 5 concurrent sessions: Land Management, Southern CA, Northern CA, Impacts and Mitigation, Student Session
3:00 p.m. Exhibitor breakdown begins
5:00 p.m.  Plenary Closing with facilitator David Chipping, Cal Poly, San Luis Obispo
6:00 p.m. Conference closes. Thank you!
Registration open from 8:00–9:00 a.m. in the Crescent room of the Garden Ballroom

Field Trip: Mission Trails Regional Park, 9:00 a.m.–3:00 p.m.

Meet outside the lobby of the Town and Country Resort and Conference Center before 9:00 am.

Hike through diverse habitats including riparian, oak woodland, coastal sage scrub and chaparral with Mike Simpson, professor at SDSU and co-author of the Checklist of Vascular Plants of San Diego County. The morning will include a guided hike along the Oak Canyon Trail and you will have time in the afternoon to explore on your own. Lunch provided.

PRE-CONFERENCE WORKSHOPS

Half-day, one-day, and two-day workshops are offered as separate registration events preceding the conference. Workshop pre-registration is required and there are discounts for conference attendees, members, and students. Pre-registered workshop participants will receive additional logistics information with their conference packet. Unless otherwise specified all workshops are held at the Town and Country Resort and Conference Center. Full details are posted on the website with instructor bios. Note that several workshops are abbreviated samplings of longer workshops given during the year by the providing organization. Please support the workshop programs of all contributing organizations as well the CNPS Plant Science Training program.

HALF-DAY WORKSHOPS:

Jan 10, 8:30 a.m.–Noon, CEQA Workshop
Instructor: Keith Wagner
Workshop provided by Lippe Gaffney Wagner LLP & the Planning and Conservation League

Course Description: This half-day workshop will present an overview of the CEQA process, and how local citizens can effectively use the CEQA process to protect native plants and plant communities. This workshop will be lead by CEQA attorney Keith G. Wagner, with the law firm Lippe Gaffney Wagner LLP, and is co-sponsored by the Planning and Conservation League, a statewide leader in defending and strengthening CEQA's important public participation and environmental protection purposes.

Jan 10, 1:00 p.m.–5:00 p.m., National Environmental Policy Act (NEPA) Compliance
Instructors: Sherry Ashbaugh and others
Workshop provided by the U.S Navy

Course Description: This seminar will discuss how federal agencies comply with the National Environmental Policy Act (NEPA). We will provide an overview of the Act, what federal agencies are mandated to do to achieve compliance, and how they conduct environmental planning to support their missions. Agency guidelines and policy will be presented to demonstrate how compliance is achieved for daily operations, training missions and research and development activities.

ONE-DAY WORKSHOPS:

Jan 10, 8:30 a.m.–5:00 p.m., Invasive Plant Management
Instructors: Mike Kelly, Sandy DeSimone, and Jodi Holt
Workshop provided by California Invasive Plant Council (Cal-IPC)

Course Description: This one-day workshop covers basic principles of invasive plant identification, biology, control methods, mapping and revegetation. This broad overview will provide those in the restoration field with a framework for addressing invasive plants in their work. More detailed trainings in these areas are provided in Cal-IPC's Wildland Weed Field Courses.
Jan 10, 8:30 a.m.–5:00 p.m., Meeting Water Quality Requirements with Native Plants throughout the Landscape
Instructors: Jeremy Haas and Chiara Clemente
Workshop provided by California State Water Control Board

Course Description: The workshop will include classroom presentations from agency staff and private sector professionals structured around current and emerging water quality priorities. Presenters will describe how using non-native plants in projects from pollution prevention to cleanups increases risks to downstream water quality and beneficial uses of recreation, domestic and agricultural water supply, wildlife habitat, and fishing. Presenters will describe ways to evaluate native plants for use in meeting water quality requirements.
Workshop participants will receive summary materials.

Jan 10, 9:30 a.m.–5:00 p.m., The Art of Field Sketching: Drawing Plants
Instructor: John (Jack) Muir Laws

Course Description: This will be a full day of sketching and art instruction to jump start you in keeping your own field journal or re-inspire you to pick up your sketchbook again. We will examine tricks and techniques to help you simplify a complex flower shape, draw wildflowers in perspective, and simple ways to add color to your drawings in the field. Bring paper and pencil if you have it, supplies will be provided for those who do not have their own. Participants will receive worksheets and technique pages to supplement their notes.

TWO-DAY WORKSHOPS:

Jan 10–11, 8:30 a.m.–5:00 p.m., Rare Plants of Western San Diego County
Instructors: Fred M. Roberts and Michelle Balk
Workshop provided by CNPS

Course Description: This course will focus on the identification and ecology of sensitive plants of the coast, foothills, and mountains of San Diego County. Emphasis will be placed on endangered, threatened, and CNPS List 1 and 2 species. Key characters used in identifying easily-confused species will be presented, and specific distributions and habitat preferences will be discussed. The course will include an extensive photo presentation and a field trip to local rare plant populations.

Jan 10–11, 8:30 a.m.–5:00 p.m., Plant Conservation Genetics
Instructors: Mitchell McGlaughlin, Lisa Wallace, and Kaius Helenurm

Course Description: Participants will gain a well-rounded understanding of the role of genetic data in plant conservation, and ecological and evolutionary research. We will cover all aspects of plant conservation genetics from project initiation to interpretation of final results. The emphasis will be on understanding the relevance of genetic data to effective conservation and the long-term persistence of plant species. The workshop is open to all, but is designed especially for land managers who review research permit requests and/or incorporate genetic information into management activities.

Jan 10–11, 8:30 a.m.–5:00 p.m., Introduction to the 2nd Edition of A Manual of California Vegetation
Instructors: Todd Keeler Wolf, John Sawyer, Julie Evens
Workshop provided by CNPS and California Department of Fish and Game (CDFG)

Course Description: The authors will provide an overview of additions and changes to the second edition of A Manual of California Vegetation, including new vegetation types recognized or redefined across many habitats. We also will discuss the new components of the vegetation descriptions and how you can use this book including conservation and management of vegetation types.
Wednesday, January 11

Registration open from 8:00–9:00 a.m. in the Crescent room of the Garden Ballroom

Field Trip: Torrey Pines State Park, 9:00 a.m.–3:00 p.m.

The wildest stretch of coast in Southern California: see the area and what it looked like before San Diego was developed. Torrey Pines State Park is home to many rare species including its namesake, Pinus torreyana, Dudleya blochmaniae, Ceanothus verrucosus, and Arctostaphylos glandulosa ssp. crassifolia. Join this tour led by Margaret Fillius, author of Native Plants of Torrey Pines and Darren Smith, state parks ecologist. It will include a guided tour in the morning and then a few hours to explore on your own in the afternoon. Meet outside the lobby of the Town and Country Resort and Conference Center before 9:00 am. Lunch provided.

PRE-CONFERENCE WORKSHOPS

HALF-DAY WORKSHOPS:

Jan 11, 8:30 a.m.–Noon, Emerging Botanical Field Methods: using new technologies to identify, map, and explore wild diversity, Citizen Science Level
Instructors: Daniel Gluesenkamp, John Malpas, Andrea Williams, Mike Perlmutter
Workshop provided by California Early Detection Networks, with instructors from Calflora Database, Marin Municipal Water District, and the Bay Area Early Detection Network

Course Description: There has been a burst of innovation in mobile phone apps, web-based tools, and GPS cameras that gives professional botanists and amateur naturalists the ability to identify plants in the field, precisely map plants, report beautiful or important discoveries, and explore diversity and distribution from desktop, laptop, or mountaintop. However, tools can be duplicative, confusing, and often exaggerate their true utility. This training workshop introduces participants to the diversity of technical tools available for exploring California’s botanical diversity and helps them to understand their various uses.

Jan 11, 1:00–5:00 p.m., Emerging Botanical Field Methods: using new technologies to identify, map, and explore wild diversity, Professional Level
Instructors: Daniel Gluesenkamp, John Malpas, Andrea Williams, Mike Perlmutter
Workshop provided by California Early Detection Networks, with instructors from Calflora Database, Marin Municipal Water District, and the Bay Area Early Detection Network

Course Description: There has been a burst of innovation in mobile phone apps, web-based tools, and GPS cameras that gives professional botanists and amateur naturalists the ability to identify plants in the field, precisely map plants, report beautiful or important discoveries, and explore diversity and distribution from desktop, laptop, or mountaintop. However, tools can be duplicative, confusing, and often exaggerate their true utility. This training workshop introduces participants to the diversity of technical tools available for exploring California’s botanical diversity and helps them to understand their various uses.

Jan 11, 9:00 a.m.–2p.m., Decrypting Cryptantha
Instructor: Dr. Michael G. Simpson
Off site: San Diego State University
Workshop provided by Jepson Herbarium workshops

Course Description: The genus Cryptantha s.l. consists of approximately 204 species with members found in western North America and western South America. This workshop will consist of training in the identification of Cryptantha taxa, using the key in The Jepson Manual: Vascular Plants of California, Second Edition. Herbarium specimens and fruit (nutlet) preparations will be available. We will have a microscope video projection system and use computers to access both on-line keys and images from the SDSU Cryptantha website. No materials needed.
Jan 11, 1:00 p.m.–5:00 p.m., Introduction to California Grasslands
Instructor: Wade Belew
Workshop provided by California Native Grassland Association

Course Description: California grasslands and native grasses are increasingly being recognized for both ecosystem and economic values. Take your first steps in learning about this important, yet often poorly understood plant family. This workshop is ideal for resource managers, public officials, land owners, restoration practitioners and students or anyone taking their first serious look at grasslands and native grasses. Knowledge of botany is not necessary. This is the perfect opportunity to get to know the plants right under your feet. Learning about grasses is more than identifying species; it is about understanding how grasses are different than other plants, their role in ecosystems, and what management and restoration options are available. Attendees will be provided presentation notes and drawings for future reference. This workshop will provide an overview of California grasses and grassland diversity, ecosystem services, management challenges, restoration and landscaping opportunities, and basic grass taxonomy, anatomy and morphology.

ONE-DAY WORKSHOPS:

Jan 11, 8:30 a.m.–5:00 p.m., Introduction to Rare Plant Surveys
Instructor: Teresa Sholars, Professor College of the Redwoods
Workshop provided by CNPS

Course Description: Participate in an overview of how to plan, conduct and review rare plant surveys. We will cover the legal basis for requiring surveys, the accepted methodologies for conducting surveys, and provide insights on how to review rare plant survey reports. This workshop is intended for botanists, wildlife biologists and land managers that must conduct, request, or review surveys in the course of their duties.

Jan 11, 8:30 a.m.–5:00 p.m., Vernal Pool Invertebrates
Instructors: Carol Witham and Scott McMillan
Off site - Full day field trip to vernal pools sites. Meet at Town and Country Hotel
Workshop provided by CNPS

Course Description: An introductory-level field course for botanists and wildlife biologists focused on the ecology of California’s vernal pools with emphasis on the aquatic phase and various federally listed species. Participants will learn about: 1) the common and endangered macro fauna that occupy vernal pools during the aquatic phase, plus associated food chains and unusual survival strategies; and 2) the unique morphological and photosynthetic strategies of vernal pool endemic plants during their submerged aquatic phase.

Jan 11, 8:30 a.m.–5:00 p.m., Cultivating Our Future: How to Start a Native Plant Restoration Nursery
Instructors: Betty Young, Brianna Schaefer, and Michele Laskowski
Workshop provided by Golden Gate National Parks Conservancy Native Plant Nursery Program

Course Description: A hands-on, how-to workshop on starting a restoration nursery and producing quality ecologically-appropriate native plants. Participants will learn how to plan and design a native plant nursery and cover the “nuts and bolts” of seed collection and growing. Participants will receive hands-on experience with nursery layout design, seed cleaning, mixing organic potting media, organic fertilizers, and more. The workshop will also cover pest management and sustainable approaches to growing natives. Participants will receive chapters from a nursery manual and many other valuable resources.

TWO-DAY WORKSHOPS continued from Tuesday Jan 10:

8:30 a.m.–5:00 p.m., Rare Plants of Western San Diego County, Day 2
8:30 a.m.–5:00 p.m., Plant Conservation Genetics, Day 2
8:30 a.m.–5:00 p.m., Introduction to the 2nd Edition of A Manual of California Vegetation, Day 2
Wednesday, January 11 (cont’d)

Early Registration open from 6:00 p.m.–7:00 p.m. in the Crescent room of the Garden Ballroom

Reception to Celebrate The Jepson Manual Second Edition
7:00 p.m.–9:00 p.m., Garden Salon One and Two, Garden Ballroom
Advance registration required to purchase books.

Thursday, January 12

Registration opens at 7:00 a.m. in the Crescent room of the Garden Ballroom

Exhibitor set-up 7:00 a.m.–9:30 a.m., Garden Salon One and Two, Garden Ballroom

Welcome Plenary with Keynote Address by Dr. Louise Jackson
8:30 a.m.–9:30 a.m., Regency Ballroom

Join us for the official conference welcome, with opening remarks by CNPS staff and Conference organizers. In her keynote address, Dr. Jackson will discuss Stewardship for Biodiversity in Agricultural Landscapes.

Exhibitor and Vendor Trade Show
Open 9:30 a.m.–5:00 p.m., Garden Salon One and Two, Garden Ballroom

The Exhibitor and Vendor Trade Show provides a prime opportunity to learn about and see demonstrations on new technology or visit with conservation organizations, environmental consulting firms, agency representatives, and book publishers. On display are tools, books, plants, technology, and conservation resources. Please visit their booths.

Photography Contest and Botanical Art Contest Gallery and “Conference Choice” Competition
Noon–7:30 p.m., top floor of Regency Tower: Le Sommet and Windsor Rose

View entries to this year’s photography and botanical art contests. Entries were judged by a panel of experts to win cash prizes but conference goers are encouraged to vote for their favorite photo and artwork for the “Conference Choice” award. All contest winners will have their work published in Fremontia. Voting for “Conference Choice” will be open until 2:00 p.m. on Friday, January 13. All entries in the photo contest will be displayed with the photographer’s name and title of entry on the final day of the conference, Saturday, January 14.

Welcome Reception and Poster Session
6:00–7:30 p.m., Regency Ballroom and adjacent classrooms: Ascot, Brittany, Clarendon, Eaton, and Fairfield

Meet old friends while making new ones and celebrate the first day of the 2012 CNPS Conservation Conference. Enjoy the no host bar and hors d’oeuvres while perusing posters or viewing artwork in the Regency Tower. The contributed posters as well as CNPS chapter posters, take center stage during this reception. The poster authors or contributors will be present to answer questions and discuss collaboration opportunities. Many students are competing for the Best Student Poster awards and will be giving stellar presentations! CNPS chapter posters center around their successful conservation projects and demonstrate the range and diversity of projects being done around the state.
Thursday, January 12 (cont'd)

Photography and Botanical Art Exhibitions
6:30–7:30 p.m., Windsor Rose and Le Sommet rooms, in the Regency Tower, Bar open in Le Chanticleer.

Come celebrate the beauty of California’s native plants and landscapes over cocktails in the penthouse suite of the Regency Tower. Over 100 entries of botanical art and photographs are included in these exhibitions. Please come vote for your “conference choice” winners. Bright-colored ballots are included in your registration packets. No host bar in adjacent room: Le Chanticleer.

Wild Words Poetry Reading and Open Mic
7:30–9:00 p.m., immediately following the Opening Reception, Windsor room of Regency Ballroom

Featured poet: Paul Willis, Poet Laureate of Santa Barbara. Paul is a former mountain guide, current English professor, and always-engaging poetry reader—he manages to be both touching and funny at the same time. An open reading will follow, and all are invited to bring their favorite original nature poems to share. Listen and enjoy connecting with California’s wild landscape via the vivid word-pictures painted by fellow nature lovers. This event is supported in part by Poets & Writers, Inc. through a grant it has received from The James Irvine Foundation.

Songfest Music Jam
8:30 p.m.–Midnight, top floor, Regency Tower, Le Chanticleer

(to the tune of Cecelia by Paul Simon) “Phacelia! You’re breaking my heart, you’re shaking my keying skills daily, Oh Phacelia, I’m down on my knees; I’m wishing you just weren’t so haaairrry!”

Bring acoustic instruments, and/or songs with typed lyrics and chords (not sheet music), on a thumb drive. Be prepared to lead the songs you bring or find someone who can and will. We will project songs on a screen so people can sing and play along. Songs with botanical themes are encouraged (adapt new lyrics to old favorites) but all other good songs are welcome. Familiar and or simple songs or tunes work best. This is not a performance venue—just a pure fun sing and play-along and everyone is invited to participate regardless of skill-level or ability to sing on key. A variety of instruments make it all the more interesting.

Banjos, kazooos, bag-pipes, and baby rattles are welcome. We can play until we are told to desist. Jamfest may follow songfest if the night allows. No-host bar.
Registration open 7:30 a.m.–5:00 p.m.
Exhibitor Hall open 7:30 a.m.–5:00 p.m., Garden Salon One and Two, Garden Ballroom
Photography and Botanical Art Exhibitions open 9:30 a.m.–4:30 p.m., Regency Tower, top floor, Windsor Rose and Le Sommet rooms

CNPS Directors and Plenary Address by Dr. Bruce Pavlik, Royal Botanic Gardens at Kew
8:00–9:30 a.m., Regency Ballroom

Student Career Panel and Mixer
11:40 a.m.–1:00 p.m., Le Chanticleer, top floor of Regency Tower
Wondering what lies ahead for you in the big wide world after graduation? Come to our student career panel to hear from leaders in the botanical and conservation field! We will have a variety of representatives from both public and private agencies to talk about what they do. They can answer your questions or give advice to get you set up for life after you graduate. Come to this combined career panel and social mixer to make important contacts as well as meet other like-minded students from across the state. We look forward to seeing you there! RSVP required, lunch provided.

No-host Cocktail Party for all conference attendees with Silent and Live Auctions
5:30–7:00 p.m., Golden Pacific Foyer and Ballroom
Silent Auction, Drawing, and Live Auction—Support Conservation in California!
A Silent Auction and drawing with live auction during banquet will be held to benefit the CNPS Conservation Program. Winning bidders will be announced following the banquet in the Golden Ballroom. Those not attending the banquet may pick up your items in the registration room, of the Garden Ballroom, on Saturday. The 2009 Conference Auction and drawing raised almost $10,000 for CNPS’ Conservation Program; let’s beat our own record for the sake of California’s native plants!
Enjoy conversation with new and old friends while bidding on some wonderful and unique items and getaways. Bid on books, art, photographs, wine, vacation cottages, and much more! Bring your wallet! Spend wildly.

Banquet with Keynote Address by Dr. Peter Raven
7:30–9:30 p.m., Golden Pacific Ballroom
We are honored to have Peter Raven giving our keynote address. Dr. Raven’s presence is brought to you by the California Botanical Society.
After a long day attending sessions, sit down to a delicious dinner. The California Botanical Society will make a short presentation, followed by the Keynote speech by Dr. Peter Raven. Dr. Raven’s presence is made possible by the California Botanical Society. A Live auction will follow with a last chance to bid on silent auction donations. Proceeds from the auction support CNPS conservation programs.
Saturday, January 14

Registration open 7:30 a.m.–11:00 a.m.
Exhibitor Hall open 7:30 a.m.–3:00 p.m.
Photography Contest and Botanical Art Contest Gallery open 7:30 a.m.–3:30 p.m.

Public Day Program
10:30–3:00 p.m., Classrooms: Ascot, Brittany, Clarendon, Eaton, and Fairfield

The public is invited to participate in free talks and workshops, attend selected sessions, visit the Exhibitors Hall, enjoy the Botanical Art and Photography Exhibitions, and view posters.

- Workshop themes include:
  - Native Gardens and Education
  - Native Landscapes and Children
  - Native Peoples and Plants
  - Local Projects and Topics

Look for handouts with the complete schedule of Public Day events.

Conference Sessions open to the public include:

- Tribal Conservation and Traditional Use of Native Plants
- The Vital Role of Education for the Future of Conservation
- Horticulture: Part of Conservation is Growing
- The Student Sessions

Closing Plenary, Facilitator: Dr. David Chipping

5:00 p.m.–6:00 p.m., Regency Ballroom

What have we learned? What are we going to do?

This conference has featured three prestigious speakers and twenty-two conference sessions, and we have learned a great deal. In this wrap-up session, after consultation with session chairs, I will quickly present the greatest ideas and greatest problems identified in these three days. Then, we will look for solutions to the problems, and organize as many internet-based working groups as possible to carry the work of this conference into the future. Actions may be scientific, political, social, or whatever is needed to further protect our valuable flora.
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ASSOCIATED MEETINGS

The Society of Wetland Scientists
Thursday, Jan 12, 11:50 a.m. – 1:00 p.m.

The Society will meet during the lunch break in the Eaton classroom across from the Regency Ballroom. Please bring your lunch with you.

Bureau of Land Management Botanists meeting
Friday, Jan 13, 11:50 a.m. – 1:00 p.m.

BLM botanists will meet during the lunch break in the Clarendon classroom across from the Regency Ballroom. Please bring your lunch with you.

Cal-ECO Botanist Certification meeting
Friday, Jan 13, 11:50 a.m. – 1:00 p.m.

Members of Cal-ECO Botanist Certification Committee will meet during the lunch break in the Eaton classroom across from the Regency Ballroom. Please bring your lunch with you.
Dr. Louise Jackson, Thursday morning Plenary, Jan 12
Professor and Cooperative Extension Specialist, Dept. of Land, Air and Water Resources, University of California at Davis

Stewardship for Biodiversity in Agricultural Landscapes

Dr. Louise Jackson is the John B. Orr Endowed Chair of Environmental Plant Sciences in the Department of Land, Air, and Water Resources at UC Davis. Her lab group studies soil and root ecology in agricultural and grassland ecosystems and more broadly landscape-level ecology, e.g., comparison between soils and vegetation along land use gradients. She is an author of over 100 published studies in these areas. She has a strong interest the role of biodiversity in agricultural systems and the potential for working-landscapes to play a role in the restoration and conservation of native plants and animals. Dr. Jackson serves as co-chair of DIVERSITAS agroBIO DIVERSITY Network Science Committee and is a board member of the International Centre for Research in Organic Food Systems.

She is a fourth-generation native Californian and attended UC Santa Cruz for her undergraduate studies. She completed her PhD at the University of Washington.

Dr. Bruce M. Pavlik, Friday morning Plenary, Jan 13
Head of Restoration Ecology, Royal Botanic Gardens, Kew, and Professor of Biology, Mills College

Bruce M. Pavlik received his PhD in Botany from the University of California at Davis, working on the physiological ecology of grasses with Professor Michael Barbour. His research has focused on the ecology and physiology of plants native to western North America, including the conservation of endangered species. Ecological restoration has become central to his research program and recent projects have emphasized the design and active management of populations and communities using field-based, experimental approaches. Most of his projects have been associated with grasslands and deserts, but unusual ecosystems (dunes, lakeshores, geothermal springs, serpentine outcrops, and vernal pools) have received special attention. He has authored or co-authored more than 50 scientific and popular publications, including *Oaks of California* (1991, Cachuma Press), *California's Changing Landscapes* (1993, California Native Plant Society), the fifth edition of the *Inventory of Rare and Endangered Vascular Plants of California* (1994, California Native Plant Society) and *The California Deserts: An Ecological Rediscovery* (2008, University of California Press). He is currently Head of Restoration Ecology at the Royal Botanic Gardens, Kew (London) and interested in the biology of founding populations, making adaptive management work for resources in situ and developing restoration protocols for complex, species-rich ecosystems.

Dr. Peter H. Raven, Banquet Keynote, Friday evening, Jan 13
President Emeritus of the Missouri Botanical Garden

Dr. Raven's presence is made possible by the California Botanical Society.

Peter H. Raven, a leading botanist and advocate of conservation and biodiversity with a notably international outlook, is president emeritus of the Missouri Botanical Garden and George Engelmann Professor of Botany Emeritus at Washington University in St. Louis. In addition, Dr. Raven is a Trustee of the National Geographic Society and Chairman of the Society's Committee for Research and Exploration. For more than 39 years, Dr. Raven headed the Missouri Botanical Garden, an institution he nurtured to become a world-class center for botanical research, education, and horticulture display. During this period, the Garden became a leader in botanical research and conservation in Latin America, Africa, Asia, and North America.
KEYNOTE SPEAKERS

Dr. Raven, a native of San Francisco, got his start in botany in Central California. Early a member of the Student Section at the California Academy of Sciences, he was a protégé of Tom Howell, then curator of the Botany Department, and of Ed Ross, the head of the Entomology Department. He collected plants widely in California and the West, taking part in Sierra Club Base Camp outings at various sites in the Sierra Nevada and the Cascades, from 1950 to 1956. In 1958, he coauthored a flora of San Francisco, with Tom Howell and Peter Rubtzoff. He attended the University of San Francisco from 1953 to 1955 and then the University of California, Berkeley, graduating in 1957 and moving to UCLA, where he obtained his Ph.D. working with Harlan Lewis, in 1960. Inspired by Harlan Lewis, he studied Onagraceae throughout the world. In 1971, he moved to St. Louis following nine years in the Department of Biological Sciences at Stanford University. His 1978 publication with Daniel Axelrod, “Origin and Relationships of the California Flora,” has been foundational for studies of western plants.

Working closely with Paul Ehrlich through the 1960s, he became an outspoken advocate of the need for conservation throughout the world based on efforts to attain sustainability and social justice everywhere. He was described by TIME magazine as a “Hero for the Planet,” and has received numerous national and international prizes, awards, and honorary degrees, including the Friendship Award (for promoting international cooperation) from the government of China in 2010 and the National Medal of Science, the highest award for scientific accomplishment in the United States, in 2001. He served for 12 years as Home Secretary of the National Academy of Sciences, to which he was elected in 1977, and is also member of numerous foreign academies of science, including those of China, Russia, India, Brazil, and the U.K. (the Royal Society). Dr. Raven is co-editor of the Flora of China, a joint Chinese-American international project that is leading to a contemporary, 50-volume account on all the plants of China scheduled for completion in early 2013.


Dr. David Chipping, Closing Plenary, Saturday afternoon, Jan 14
Emeritus Professor of Geology, Cal Poly State University

Dr. David Chipping was born in Scotland in 1943. He has a BA from Cambridge University (1965), came to the U.S. and earned a MS (1967) and PhD (1971) in Geology at Stanford University. He has taught at UC Davis (1968–1971), and Cal Poly State University (1971–present), where he is Emeritus Professor of Geology. He joined CNPS in 1987 as Conservation Chair and is currently Chapter President. He has served on the Executive Council of CNPS and was Conservation Director from 1999–2005. He serves on several state CNPS Committees and is Vice President of The Friends of the Carrizo Plain. Most of his time is spent on CNPS chapter board activities, working with a photographic group on a Carrizo Plain flora, hiking and photography, updating his book on the Geology of San Luis Obispo County, and painting watercolors.
SESSION 1: California Plants and Climate Change
Session chair: Jim Thorne

This session will focus on the dynamics of plant response to climate change. The session is open to all approaches, from theoretical, to physiological, geographic, and other. Studies can focus on a single species, on suites of species, or on the vegetation communities that they compose. Time frames can vary, but preference will be given to studies focused on less than 500 years into the past and 100-year futures. Other types of impacts can also be addressed, but only as they relate to the ongoing pressures of climate change. The two main themes addressed are biotic response to climate change at the physiological and species level, and the use of multispecies models to approach landscape-level conservation planning.

Part 1, Thursday, Jan 12
Room: Windsor, 10:00 am to 11:40 am

10:00–10:20  Barbara Going  The Impact of Climate Change on Serpentine Endemic Plants in California
10:20–10:40  Jon Keeley, D. Schwilk  A Vegetation Shift: Climate Warming, Drought, or Past Disturbance?
10:40–11:00  Amy Concilio, M. Loik  Effects of Global Change on Ecosystem Invasibility by Bromus tectorum L. in the Eastern Sierra Nevada, CA
11:00–11:20  Christopher Kopp  Shrub Encroachment of Alpine Areas. An Uphill Battle?
11:20–11:40  Christopher Dolanc  Species-Level Variability in Climate-Induced Trends in Radial Growth of the Central Sierra Nevada

Part 2, Thursday, Jan 12
Room: Sheffield, 3:00 pm to 4:40 pm

3:00–3:20  Michael Shuldman  Taking the Heat: Response to Extreme Heat Events in a California Native Shrub
3:40–4:00  Iara Lacher  Climatic Tolerances of Endemic Annual Plants: Implications to Species Distribution Models and Biodiversity Management
4:00–4:20  Brian Anacker, K. Leidholm, S. Schoenig  Climate Change Vulnerability Assessment for Rare Plants
4:20–4:40  Oliver Soong, P. Roehrdanz, L. Hannah, M. Ikegami  Conservation Priority Setting under Climate Change Using Network Flow
SESSION 2: The Science, Life History, and Population Dynamics of California’s Rare and Endangered Plants

Session chairs: Aaron Sims and Nick Jensen

This session is intended to provide a forum for students, academics, government agencies, and private organizations to present their research and projects that directly relate to the rare plant sciences. The first session is intended to focus on the understanding of rare plant science and the collection of rare plant data. The second session is to focus more on the assimilation and utilization of scientific data for rare plant conservation.

Part 1, Thursday, Jan 12

Room: Hampton, 10:00 am to 11:40 am

10:00–10:20  **Tom Parker**  
Conservation Ecology of Extremely Rare Plants: Arctostaphylos in San Francisco

10:20–10:40  **Naomi Fraga**  
The California Flora and Mimulus (Phrymaceae): Centers for Richness and Rarity

10:40–11:00  **Megan Bontrager**, K. Webster, M. Elvin, I. Parker  
Factors Influencing Growth and Survival of a Critically Endangered Plant, *Arenaria paludicola*

11:00–11:20  **Suzie Woolhouse**, N. Rajakaruna  
Ecology and Reproductive Biology of Two Rare Serpentine Endemic Monardella Species from the Northern Sierra Nevada

11:20–11:40  **Amelia Ryan**, L. Parsons  
A Science-Based Approach to New Introductions of the Endangered Sonoma Spineflower at Point Reyes National Seashore

Part 2, Thursday, January 12

Room: Hampton, 1:00 pm to 2:40 pm

Panel discussion: FIELD EXPLORATIONS AND DISCOVERIES

1:00–1:20  **Melanie Gogol-Prokurat**  
Effects of Population Size and Habitat Quality on Reproductive Success in Three Disturbance-Dependent Rare Plant Species

1:20–1:40  **Rosa Schneider**, K. Boyer  
Investigating Causes of Rarity in an Endemic Wetland Thistle

1:40–2:40  **James Andre**, Jon Rebman, Andrew Sanders, Dean Taylor  
Panel discussion: Field Explorations and Discoveries: A Panel Discussion on the Significance of Field Botany and Herbarium Collecting in California

Part 3, Friday, January 13 (cont’d on page 29)
SESSION 3: Central Coast and Central Valley Conservation
Session chairs: Ellen Cypher & Carol Witham

From vernal pools to grasslands and maritime chaparral to serpentine outcrops, the Great Central Valley and the Central Coast have extraordinary floristic diversity as well as unprecedented development pressure. Presentations cover a diversity of topics including landscape-scale processes, regional floristic studies, and case studies on the conservation biology of endemic species.

Part 1, Thursday, Jan 12
Room: Sheffield, 10:00 am to 11:40 am

10:00–10:20  J. McGraw, Assessing Recovery of an Endangered Species: Santa Cruz Cypress
             Connie Rutherford

10:20–10:40  Serra Hoagland Ecology and Management of Oak Woodlands on Tejon Ranch: Recommendations for Conserving a Valuable California Ecosystem

10:40–11:00  Jennifer Chapman Forest-Associated Manzanitas: Adaptations to Changing Light Regimes

11:00–11:20  Jim Alford, J. Kneitel, The Role of Fire in Conifer and Exotic Species Invasions of Central Sierra Nevada Subalpine Meadows

11:20–11:40  Ryan O’Dell Recovery of San Benito Evening Primrose (Camissonia benitensis; Onagraceae)

Part 2, Thursday, January 12
Room: Sheffield, 1:00 pm to 2:40 pm

1:00–1:20  Shelley Estelle, Conserving and Restoring Habitat in the Presidio of San Francisco
           M. Chasse, M. Frey

1:20–1:40  Nikki Nedeff A Conservation Tool—The Monterey Pine Forest, Coastal California’s Living Legacy

1:40–2:00  Jennifer Buck-Diaz Grassland Habitats of the San Joaquin Valley and Carrizo Plain

2:00–2:20  Niall Francis McCarten, Response of Vernal Pool Plants to Climate Change in Hardpan Vernal Pools of the Central Valley California
           M. Christman

2:20–2:40  Mark Elvin, I. Parker, Conservation and Recovery Efforts for a Critically Endangered Plant—C. Rutherford, M. Chasse, Arenaria paludicola
           M. Ritter
SESSION 4: Invasive Non-Native Plants: Multi Scale Management and Assessment from State, to Region, to Local, to Site

Session chair: Jason Giessow

New work has occurred on non-native plant mapping, and risk and impact assessment. This is occurring at multiple scales: state wide, regional and local. What are these programs finding and how are recommendations being made at the different scales? Two specific uses of the information will be explored: projected impacts of climatic change and site specific control within rare plant habitat.

Part 1, Thursday, Jan 12
Room: Tiki Pavilion, 10:00 am to 11:40 am

10:00–10:20 Dana Morawitz, D. Johnson, E. Brusati, F. Schuetzenmeister, C. Powell, S. Harmon, T. Morosco
Invasive Plant Risk-Mapping: A New Online Tool for Setting Regional Response Priorities

10:20–10:40 Mike Perlmutter, G. S.Darin, A.Williams, D. Gluesenkamp
Prioritizing and Catalyzing Invasive Plant Eradication in the San Francisco Bay Area

10:40–11:00 Jason Giessow, P. Gordon-Reedy
Invasive Plant Impact Assessment and Planning in San Diego

11:00–11:20 Zooey Diggory, B. Orr, A.Lambert, T.Dudley
A Strategic Plan for Arundo donax Treatment and Restoration of Riparian Vegetation in a Semi-Arid Landscape: A Case Study from the Lower Santa Clara River, CA

11:20–11:40 Ramona Robison
Population Expansion and Regional Management of Red Sesbania (Sesbania punicea) in California
SESSION 5: The Border and Beyond: Baja California, the Same but Different

Session chair: Sula Vanderplank

This session will highlight some of the similarities and differences in the flora of Baja California. Through cross-border studies of vegetation, habitat, and species complexes, we will present new data, looking at either side of the political boundary. This session will include new information from the Baja California portion of floristic provinces that are shared with California and have been lesser-known than their northern counter-parts.

**Part 1, Thursday, Jan 12**

**Room: Windsor, 1:00 pm to 2:40 pm**

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>1:00–1:20</td>
<td>Steven Junak</td>
<td>Status of CNPS Plants on the Pacific Islands of Baja California, Mexico</td>
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<td>1:20–1:40</td>
<td>Richard Minnich</td>
<td>Chaparral Sky Islands in the Central Desert</td>
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<td>1:40–2:00</td>
<td>Michael Simpson</td>
<td>The Popcorn Flowers of Baja California: Comparisons with North of the Border</td>
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<td>2:00–2:20</td>
<td>Thomas Oberbauer</td>
<td>Plants Found on Unique Soils in San Diego County and Adjacent Baja California</td>
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<td>2:20–2:40</td>
<td>Phillip Roullard</td>
<td>Border Field State Park Restoration Site</td>
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**Part 2, Thursday, Jan, 12**

**Room: Windsor, 3:00 pm to 4:40 pm**

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<tr>
<th>Time</th>
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<tr>
<td>3:00–3:20</td>
<td>Jon Rebman</td>
<td>New Discoveries for the Flora of Baja California</td>
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<td>3:20–3:40</td>
<td>Bart O’Brien, J.D. Rodriguez, S. Junak, T. Oberbauer, J. Rebman, H. Riemann, S. Vanderplank</td>
<td>The Rare, Endangered, and Endemic Plants of the California Floristic Province Portion of Baja California, Mexico</td>
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<td>3:40–4:00</td>
<td>Hugo Riemann</td>
<td>Land Use, Climate Change, and Conservation of Endemic and Endangered Flora in the Baja California Floristic Province</td>
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<td>4:00–4:20</td>
<td>C. Matt Guilliams, S. Mata, J. Delgadillo</td>
<td>Charcas Temporales En Valle De Las Palmas: A First Report from an On-Going Project to Map and Assess the Vernal Pools of Baja California, Mexico</td>
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<td>4:20–4:40</td>
<td>Jose Delgadillo, F. Alcaraz</td>
<td>Description of the Coastal Succulent Scrub Plant Communities Influenced by the Fog and Sea Salt Spray, from El Rosario to the Vizcaino Desert, Baja California</td>
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SESSION 6: Vegetation Mapping, Classification, and Analysis for Conservation

Session chairs: Todd Keeler-Wolf and Julie Evens

We will cover state of the art concepts in vegetation mapping and assessment including:

• Technological advances and increases in efficiency while maintaining value
• Defensible classification and mapping techniques: Case studies
• Assessment of vegetation for biodiversity and conservation values
• Value of vegetation data for regional conservation planning
• Use of vegetation data for predictive ecological modeling

Part 1, Thursday, January 12
Room: Tiki Pavilion, 1:00 pm to 2:40 pm

1:00–1:20  Todd Keeler-Wolf  Keeping Vegetation Mapping a Powerful, Repeatable, and Nimble Tool
1:20–1:40  Jonathan Dunn  A New Vegetation Classification for Western San Diego County
1:40–2:00  Michael White  Distribution, Composition, and Condition of Joshua Tree Woodlands at Tejon Ranch, CA
2:00–2:20  D. Johnson, John Menke, J. Evens  Northern Sierra Nevada Foothills Statewide Vegetation Mapping Project
2:20–2:40  Maggi Kelly  Using Object-Based Image Analysis with High Spatial Resolution Imagery: A Review of Vegetation Mapping Applications

Part 2, Thursday, January 12
Room: Tiki Pavilion, 3:00 pm to 4:40 pm

3:00–3:20  Nathan Amboy  Leveraging Geospatial Technologies and Decision Trees to Support Meadow Restoration Activities in the Sierra Nevada, CA
3:20–3:40  Thomas Oberbauer  Resurrecting a Ghost: Estimating Vegetative Cover for Santa Rosa Island from before European Impact
3:40–4:00  Arlee Montalvo, J. Buck-Diaz, J. Beyers  Science-Based Development of Restoration Palettes for Sensitive Plant Communities: A Collaborative Study of Alluvial Scrub Vegetation
4:00–4:20  Ryan Branciforte, S. Weiss  Vegetation Classifications and Conservation Planning: The Bay Area Conservation Lands Network
4:20–4:40  John Tiszler, R. Taylor, M. Beck  A Vegetation Classification and Map for Santa Monica Mountains National Recreation Area: An Essential Tool for Cooperative Conservation Planning
Since its enactment in 1970, CEQA has been a major tool to protect California’s native plants and other natural resources, as well as transparent decision-making and informed self-government. Because of its effectiveness, CEQA is the target of frequent criticism and attempts to judicially and legislatively weaken key provisions. This session will examine these challenges, how environmental supporters have resisted assaults on CEQA, and what opportunities may exist to secure or even improve protection of native plants and other resources that CEQA was meant to ensure.

Thursday, Jan 12
Room: Hampton, 3:00 pm to 4:40 pm

3:00–3:20  Jan Chatten-Brown  Streamlining CEQA: Changes the Environmental Community Can Support
3:20–3:40  Gene Talmadge  CEQA at a Crossroads—How Do We Make It Better and Easier to Use?
3:40–4:00  Gordon Leppig, M. van Hattem  Cumulative Impacts, Significant Effects, and Ways to Optimize CEQA Protections of Rare Plants and Natural Communities in the Face of Continued Losses
4:00–4:20  Cory Briggs  Can CEQA be Saved by Changing It?
4:20–4:40  Panel Discussion  The State of CEQA: Challenges and Opportunities in Uncertain Times
Friday, January 13

Session 2, Part 3, Friday, January 13 (cont’d from page 21)
Room: Windsor, 3:00 pm to 4:40 pm

RARE PLANTS OF SOUTHERN CALIFORNIA

3:00–3:20  Jane Cipra  The Mapping and Status of Swallenia alexandrae, Oenothera californica ssp. eurekensis, and Astragalus lentiginosus var. micans at the Eureka Dunes in Death Valley National Park

3:20–3:40  Heather Clayton, N. Cervin, R. Alvidrez  Rare Plant Survey Results for the Cleveland National Forest Master Use Permit, San Diego County


4:00–4:20  Mitchell McGlaughlin, K. Helenurm  A Tale of Two Islands—Divergence among Populations of the Endangered Plant Sibara filifolia; Implications for Management and Ex-Situ Conservation

4:20–4:40  Ann Dorsey  Monitoring in the Santa Monica Mountains Area: A Case Study with Threatened Dudleya Species

SESSION 8: Advances in Plant Science
Session chairs: Sylvia Haultain & Ellen Dean

The Advances in Plant Science session will focus on genetics, population biology, conservation, or floristics, as well as talks that cannot be accommodated easily into one of the other sessions.

Part 1, Friday, Jan 13
Room: Tiki Pavilion, 10:00 am to 11:40 am

CLASSIFICATION AND FLORISTIC TOOLS SUB-SESSION

This session will emphasize the use of on-line or software tools that help users figure out what plants grow in different areas of California. This session will also show attendees how to construct a flora using both modern and traditional tools.

10:00–10:20  Bruce Barnes  Comprehensive Interactive Plant Keys for California

10:20–10:40  Dean Taylor  Production of a Local Flora: The Yosemite Sierra

10:40–11:00  Ellen Dean  Digital Taxonomic Tools or, How Do I Deal with All these Name Changes!

11:00–11:20  Steven Hartman  Mobile Device Field Guides—Better than a Book?

## Part 2, Friday, Jan, 13
**Room: Tiki Pavilion, 1:00 pm to 2:40 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00–1:20</td>
<td>Thomas Huggins, B. Prigge, R. Sharifi, P. Rundel</td>
<td>Ecological Factors Contributing to the Rarity and Decline of the Lane Mountain Milkvetch, <em>Astragalus jaegerianus</em> Munz</td>
</tr>
<tr>
<td>1:20–1:40</td>
<td>Christal Niederer, L. Naumovich, S. Weiss, J. Quenelle</td>
<td>Using Science to Manage Two Populations of an Endangered Annual Forb, <em>Clarkia franciscana</em></td>
</tr>
<tr>
<td>1:40–2:00</td>
<td>Jenn Yost, K. Kay, N. Rajakaruna</td>
<td>Local Adaptation and Speciation in Cryptic Species of Lasthenia</td>
</tr>
<tr>
<td>2:00–2:20</td>
<td>Emma Williams</td>
<td>Analysis of Sex Ratios in <em>Poa atropurpurea</em> of the Big Bear Valley</td>
</tr>
<tr>
<td>2:20–2:40</td>
<td>Jennifer Hooper</td>
<td><em>Arctostaphylos glauca</em>—A Landscape Approach to Analyzing Disturbance and Management Effects on its Distribution through Time</td>
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</tbody>
</table>

## Part 3, Friday, Jan 13
**Room: Tiki Pavilion, 3:00 pm to 4:40 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>3:00–3:20</td>
<td>Dean Taylor, C. James</td>
<td>Vascular Plant Diversity under Even-Aged Forest Management in the Sierra-Cascade Region</td>
</tr>
<tr>
<td>3:20–3:40</td>
<td>Karen Stahlheber</td>
<td>Islands of Invasion: Influence of Oak Canopies and Competition with Annual Grasses on Perennial Native Grass Performance</td>
</tr>
<tr>
<td>3:40–4:00</td>
<td>Matt Ritter, J. Yost</td>
<td>Bluegum Weediness in California Is Not Genetically Based</td>
</tr>
<tr>
<td>4:00–4:20</td>
<td>Francis Bozzolo, D. Lipson, J. Franklin</td>
<td>Importance of Soil Microbes and Nitrogen Sources for Native and Exotic Plant Species in Coastal Sage Scrub</td>
</tr>
<tr>
<td>4:20–4:40</td>
<td>Kelly Amsberry, K. French, M. Jules</td>
<td>Use of Invasive Hyperaccumulators (Plants that Accumulate Large Amounts of Minerals from Soil) to ‘Phytomine’ Nickel from Natural Serpentine Soils—A Threat to the West’s Native Flora</td>
</tr>
</tbody>
</table>
SESSION 9: Rare Plant Communities
Session chairs: Brett Hall and Greg Suba

What is a rare plant community in California? For example edaphics, locally rare species assemblages, hot spots, peripheral and or disjunct populations, plant communities and associations in rapid decline, locally or regionally significant populations and taxa, etc.

Understanding the regulatory framework for conserving rare plant communities

* Conservation tools for the management of
* Ranking and triage for short and long term management
* Laws, ordinances and policies that apply to rare plant communities

Part 1, Friday, Jan 13
Room: Windsor, 10:00 am to 11:40 am

10:00–10:20  Michael Barbour, J. Loidi, G. Garcia-Baquero, R. Meyer
Patterns of Dominance among Mixed Evergreen Forest Trees in Northern California

10:20–10:40  Teresa Scholars
The Decline of the Northern Bishop Pine Forest: Suggestions for Conservation and Restoration

10:40–11:00  Patrick McIntyre, K. Moore
Solar Energy and Rare Plants: Assessing Field Accuracy of Distribution Modeling for Rare Desert Plants

11:00–11:20  Alyson Eddie
Ash Meadows Rare Plant Hot Spots and their Associated Vegetation Communities

11:20–11:40  Charles Black
Marine Corps Air Station Miramar's Vernal Pool Long-Term Monitoring Project

Part 2, Friday, Jan 13
Room: Windsor, 1:00 pm to 2:40 pm

1:00–1:20  James Quenelle
Recovery Steps for an Endangered Annual Forb (Acanthomintha duttonii)

1:20–1:40  Kristi Haydu
Mapping Plant Biodiversity Hotspots at the County Scale: A New Tool for Establishing Long-Term Resource Conservation Strategies

1:40–2:00  Mike Vasey
What Is Maritime Chaparral? Using Ecophysiology and Multivariate Analysis to Better Understand a Rare Plant Community in Central California

2:00–2:20  Kendra Sikes, D. Roach-McIntosh, J. Evens
Plant Community Characterization, Mapping, and Ranking of Fens in the Lake Tahoe Basin, California and Nevada

An Update on the Current Distribution, Conservation, and Restoration of Vernal Pool Habitat and Species in Southern California and Baja California, Mexico
# CNPS 2012 Conference Schedule

## Pre-Conference Workshops, Jan 10 – 11

<table>
<thead>
<tr>
<th>Time</th>
<th>Tuesday, Jan 10</th>
<th>Wednesday, Jan 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am – 9:00 am</td>
<td>Registration Opens, Garden Ballroom</td>
<td>Registration Opens, Garden Ballroom</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Invasive Plant Management (1-day)</td>
<td>Native Plant Restoration Nursery (1-day)</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Water Quality &amp; Native Plants (1-day)</td>
<td>Vernal Pool Invertebrates (1-day field)</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Art of Field Sketching Plants (1-day)</td>
<td>Introduction to Rare Plant Surveys (1-day)</td>
</tr>
<tr>
<td>See pages 9 &amp; 10</td>
<td>Art of Field Sketching Plants (1-day)</td>
<td>Decoding Cryptantha (1/2-day)</td>
</tr>
<tr>
<td>8:30 am – Noon</td>
<td>CEQA workshop (1/2-day)</td>
<td>Technology &amp; Field Methods—Citizen Scientists (1/2-day)</td>
</tr>
<tr>
<td>1:00 pm – 5:00 pm</td>
<td>NEPA Compliance (1/2-day)</td>
<td>Technology &amp; Field Methods—Professionals (1/2-day)</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Manual of California Vegetation II (2-day)</td>
<td>Intro to California Grasslands (1/2-day)</td>
</tr>
<tr>
<td>8:30 am – 5:00 pm</td>
<td>Rare Plants of Western San Diego County (2-day)</td>
<td></td>
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<tr>
<td>8:30 am – 5:00 pm</td>
<td>Plant Conservation Genetics (2-day)</td>
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## Pre-Conference Field Trips

<table>
<thead>
<tr>
<th>Time</th>
<th>Jan 10</th>
<th>Jan 11</th>
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</thead>
<tbody>
<tr>
<td>9:00 am – 3:00 pm</td>
<td>Mission Trails Regional Park with Mike Simpson, meet at hotel lobby</td>
<td>Torrey Pines State Park with Margaret Fillius &amp; Darren Smith, meet at hotel lobby</td>
</tr>
<tr>
<td>Jan 11, 7:00 – 9:00 pm</td>
<td>Reception to Celebrate The Jepson Manual Second Edition, Garden Ballroom</td>
<td></td>
</tr>
<tr>
<td>Jan 11, 6:00 – 7:00 pm</td>
<td>Early conference registration check-in in Crescent Room, Garden Ballroom</td>
<td></td>
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</tbody>
</table>

## Conference Day 1, Thursday, Jan 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Sheffield</th>
<th>Hampton</th>
<th>Windsor</th>
<th>Tiki Pavilion</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am – 5:00 pm</td>
<td>Exhibitor set-up 7:00 am – 9:30 am; Exhibitor Hall opens 9:30 am, Garden Ballroom</td>
<td></td>
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<tr>
<td>7:00 am – 4:00 pm</td>
<td>Registration open, Crescent Room, Garden Ballroom</td>
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</tr>
<tr>
<td>8:30 am – 9:30 am</td>
<td>Opening and Plenary Address: Dr. Louise Jackson, UC Davis, Regency Ballroom</td>
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<tr>
<td>9:30 am – 10:00 am</td>
<td>30 minute Coffee Break in Exhibitor Hall, Garden Ballroom</td>
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<tr>
<td>10 am – 11:40 am</td>
<td>10 am – 11:40 am</td>
<td>Central Coast &amp; Valley 1</td>
<td>Rare Plants 1</td>
<td>Climate Change 1</td>
<td>Invasive Plants</td>
</tr>
<tr>
<td>11:40 am – 1:00 pm</td>
<td>Lunch Break</td>
<td></td>
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<tr>
<td>1:00 pm – 2:40 pm</td>
<td>Central Coast &amp; Valley 2</td>
<td>Rare Plants 2</td>
<td>Baja 1</td>
<td>Vegetation 1</td>
<td></td>
</tr>
<tr>
<td>2:40 pm – 3:00 pm</td>
<td>20 minute Afternoon Break in Exhibitor Hall</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3:00 pm – 4:40 pm</td>
<td>Climate Change 2</td>
<td>CEQA</td>
<td>Baja 2</td>
<td>Vegetation 2</td>
<td></td>
</tr>
<tr>
<td>6:00 pm – 7:30 pm</td>
<td>Welcome Reception with no-host bar, hors d’oeuvres, Poster Session, and Art Exhibition, Regency Ballroom, adjacent classrooms, and Regency Tower</td>
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<tr>
<td>7:30 pm – 9:00 pm</td>
<td>Wild Words Poetry Reading and Open Mic, Regency Ballroom, Windsor</td>
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<tr>
<td>8:30 pm – midnight</td>
<td>Songfest and Music Jam, Le Chanticleer, in Regency Tower</td>
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</tbody>
</table>
Descriptions of all workshops, field trips, sessions, art and social events can be found using sidebar menus.

### Conference Day 2, Friday, Jan 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 5:00 pm</td>
<td>Exhibitor Hall open all day, Garden Ballroom</td>
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<tr>
<td>7:30 am – 5:00 pm</td>
<td>Registration open all day, Crescent Room, Garden Ballroom</td>
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</tr>
<tr>
<td>8:00 am – 9:30 am</td>
<td><strong>CNPS Directors and Plenary Address, Dr. Bruce Pavlik, Royal Botanic Gardens at Kew, Regency Ballroom</strong></td>
<td></td>
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<tr>
<td>9:30 am – 10:00 am</td>
<td>30 minute Coffee Break in Exhibitor Hall, Garden Ballroom</td>
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### Room

<table>
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<tr>
<th>Time</th>
<th>Room</th>
<th>Sheffield</th>
<th>Hampton</th>
<th>Windsor</th>
<th>Tiki Pavilion</th>
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</thead>
<tbody>
<tr>
<td>10 am – 11:40 am</td>
<td>Land Acquisition</td>
<td>Restoration 1</td>
<td>Rare Plant Communities 1</td>
<td>Plant Science 1</td>
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<tr>
<td>11:40 am – 1:00 pm</td>
<td>Lunch Break and Student Career Panel, Le Chanticleer, in Regency Tower</td>
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<tr>
<td>1:00 pm – 2:40 pm</td>
<td>Fire and Native Plants 1</td>
<td>Restoration 2</td>
<td>Rare Plant Communities 2</td>
<td>Plant Science 2</td>
<td></td>
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<tr>
<td>2:40 pm – 3:00 pm</td>
<td>20 minute Afternoon Break in Exhibitor Hall, Garden Ballroom</td>
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<tr>
<td>3:00 pm – 4:40 pm</td>
<td>Fire and Native Plants 2</td>
<td>Renewable Energy</td>
<td>Rare Plants 3</td>
<td>Plant Science 3</td>
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<tr>
<td>5:30 pm – 7:30 pm</td>
<td>Cocktails and Silent Auction, Golden Ballroom Foyer and Golden Ballroom</td>
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<tr>
<td>7:30 pm – 9:30 pm</td>
<td>Banquet: Keynote Speaker, Dr. Peter Raven</td>
<td>Golden Pacific Ballroom</td>
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### Conference Day 3, Saturday, Jan 14

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 5:00 pm</td>
<td>Exhibitor Hall open until 11:00 am, Crescent Room, Garden Ballroom</td>
<td></td>
</tr>
<tr>
<td>7:30 am – 3:00 pm</td>
<td>Exhibit Hall open until 3:00 pm, Garden Ballroom</td>
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</table>

### Room

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Sheffield</th>
<th>Hampton</th>
<th>Windsor</th>
<th>Tiki Pavilion</th>
<th>Le Chanticleer</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am – 9:40 am</td>
<td>Student Session 1</td>
<td>Tribal Conservation 1</td>
<td>Horticultural Science 1</td>
<td>Transmontane 1</td>
<td>Education 1</td>
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</tr>
<tr>
<td>9:40 am – 10:00 am</td>
<td>Coffee Break in Exhibitor Hall</td>
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<tr>
<td>10:00 am – 11:40 am</td>
<td>Student Session 2</td>
<td>Tribal Conservation 2</td>
<td>Horticultural Science 2</td>
<td>Transmontane 2</td>
<td>Education 2</td>
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<tr>
<td>11:40 am – 1:00 pm</td>
<td>Lunch Break</td>
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<tr>
<td>1:00 pm – 2:40 pm</td>
<td>Land Management 1</td>
<td>Southern CA 1</td>
<td>Planning Tools</td>
<td>Northern CA 1</td>
<td>Student Session 3</td>
<td></td>
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<tr>
<td>2:40 pm – 3:00 pm</td>
<td>Afternoon Break in Exhibitor Hall</td>
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<tr>
<td>3:00 pm – 4:40 pm</td>
<td>Land Management 2</td>
<td>Southern CA 2</td>
<td>Impacts and Mitigation</td>
<td>Northern CA 2</td>
<td>Student Session 4</td>
<td></td>
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<tr>
<td>5:00 pm – 6:00 pm</td>
<td>Plenary Closing: Plenary Facilitator, Dr. David Chipping, Regency Ballroom</td>
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SESSION 10: Using Science to Increase the Success of Restoration Efforts in California
Session chairs: Lech Naumovich, Edie Allen, and Karen Holl

This session will focus on the application of the principles of restoration ecology to field-based restoration projects and research. We present a number of cases wherein restoration research is guided by both a strong foundation in science and answering specific management questions. Our session will benefit land managers and practitioners who are planning and implementing restoration projects.

Part 1: Friday, Jan 13
Room: Hampton, 10:00 am to 11:40 am

10:00–10:20 Jennifer Funk
Functional Traits of Invasive Species: Implications for Ecological Restoration in a Changing Environment

10:20–10:40 Sara Jo Dickens
Invasion and Restoration: Impacting Ecosystems Differently from the Top Down

10:40–11:00 Carl Bell, K.Weathers, E. Allen, M. McGiffen
Restoration of Coastal Sage Scrub Using Annual Herbicide Applications

11:00–11:20 Megan Lulow, S. Kimball, Q. Sorenson
Effects of Seeding and Maintenance Techniques on Functional Group Mixes of Coastal Sage Scrub

11:20–11:40 Sandy DeSimone
A Practive/Scientist’s View from Coastal Sage Scrub Restoration at a Southern CA Preserve

Part 2, Friday, Jan 13
Room: Hampton, 1:00 pm to 2:40 pm

1:00–1:20 Mathew Sutton
Effect of Exotic Grass Removal and Native Seed Augmentation on Re-Establishment of Common Oak Understory Species, Santa Catalina Island, CA

1:20–1:40 Karen Holl & R. Chan, T. De Silva, E. Howard, E. Mann, W. Spangler
Tarping, Herbicide, Soil Removal, and Mulching as Methods to Reduce Exotic Cover and Restore Native Coastal Prairie Grasses

1:40–2:00 Jessica Hammond, F. T. Griggs
Long-Term Monitoring and Ecological Performance of Horticultural Riparian Restoration along the Sacramento River

2:00–2:20 Niall McCarten, M. Christman, R. Rosas
Innovative Technology to Improve the Site Selection, Design, and Implementation of Hardpan Vernal Pool Restoration in the Central Valley of California

2:20–2:40 Kristen Goodrich
Informing Large Scale Restoration Work at the Tijuana Estuary through Applied Research
SESSION 11: Land Acquisition for Plant Conservation
Session chair: Matt Gause

Land acquisition is a fundamental step in conserving California’s important natural heritage. Over the past thirty
years considerable public and private funds have been channeled towards fee-title purchase or the purchase of
conservation easements to protect important landscapes. Land acquisition is typically the single largest expense
in a successful conservation program and in a challenging economy it is important that acquisition targets are
carefully selected and vetted using a thorough due-diligence process. Although the challenging economy has
greatly reduced the amount of money available for acquisition the conservation dollar has considerably more
purchasing power today than it did five years ago.

Friday, Jan 13
Room: Sheffield, 10:00 am to 11:40 am

10:00–10:20  Matt Gause  Preserving Our Natural Heritage—An Overview of Land Acquisition in Practice
10:20–10:40  Melanie Gogol-Prokurat  ACE II DFG’s Areas of Conservation Emphasis
10:40–11:00  Partricia Gordon-Reedy  Conservation Assessment of Orange County
11:00–11:20  Lech Naumovich, H. Bartosh  Building on a Blueprint for Conservation Success in Alameda and Contra Costa Counties—A Guidebook to Botanical Priority Protection Areas of the East Bay
11:20–11:40  Graciela Hinshaw  The Pine Hill Preserve Conservation Project

SESSION 12: Fire and Native Plants
Session chair: Dawn Lawson

Wildland fire is both a key driver of plant population and community dynamics as well as a potential threat to life
and property. As such fire management is often an important management component for native plant
populations and natural communities. Mitigation of fire hazard however can pose threats to native plants. This
session will explore the role of fire in the management of natural communities as well as the conservation
implications of policies and strategies intended to reduce fire hazard.

Part 1, Friday, Jan 13
Room: Sheffield, 1:00 pm to 2:40 pm

1:00–1:20  D. Lawson, Kevin Cummins, K. Lombardo  To Burn or Not to Burn: Using Ceanothus verrucosus Population Models to Inform Management
1:20–1:40  Chris Mallek  Fire History, Serotiny, and Seed Dispersal Cuing in a Rare California Cypress
1:40–2:00  Jan Beyers, P. Wohlgemeth  Does Aerial Hydromulch Affect Chaparral Recovery in Coastal Southern California?
2:00–2:20  Nathan Emery  How Does Fog Affect the Fire Regime?
2:20–2:40  TBD  TBD
Friday, January 13

Part 2, Friday, Jan 13
Room: Sheffield, 3:00 pm to 4:40 pm

3:20–3:40  Richard Halsey  When Native Shrublands Collide with Ideology: A Challenge to Preservation and Restoration
3:40–4:00  Kay Stewart, A. Fege  Monitoring Vegetation Reduction to Change Management Practices and Retain More Native Shrubs
4:00–4:20  Anne Fege  Science Meets Politics of Vegetation “Clearing” to Reduce Wildfire Property Risks in Southern California
4:20–4:40  Suzanne Schettler  Fire-Resistant Landscaping

SESSION 13: Renewable Energy and Conservation in California
Session chairs: Greg Suba and Ileene Anderson

Renewable energy holds great promise for California and elsewhere. How we build our energy generation infrastructure has profound impacts to native biodiversity. The purpose of this session is to examine how current developments in renewable energy related technology and policies facilitate and/or constrain our ability to develop renewable energy while conserving natural resources in California.

Friday, Jan 13
Room: Hampton, 3:00 pm to 4:40 pm

3:00–3:20  Ashley Conrad-Saydah  Finding Balance: BLM’s Role in Balancing Conservation and Renewable Energy Development in the Desert Southwest
3:40–4:00  Karen Douglas  Renewable Energy Development and Species Conservation in California
4:00–4:20  Chris Clarke  Is Large-Scale Industrial Desert Solar and Wind Really Renewable Energy?
4:20–4:40  Panel Discussion  Renewable Energy and Conservation in California
SESSION 14: Transmontane Flora: Progress in Our Learning Amid Looming Change

Session chair: Jim Andre

California’s arid transmontane region encompasses the Eastern Sierra, and Great Basin, Mojave and Sonoran Desert ecosystems. This vast region contains nearly 40% of California’s native plant diversity, and represents one of the highest quality intact ecosystems left in North America. With 8 to 9 percent of the vascular plant species yet to be described, the region is ripe for scientific inquiry on the most basic of levels. And while we are in the infancy of our understanding the California’s transmontane flora, major threats are looming in the next decade, including those posed by climate change and large-scale energy development. Managing desert ecosystems demands a broad understanding of the organisms, the environment that supports them, and the complex and unique processes occur over time and space. The purpose of this session is to examine the status of our understanding of the California Desert flora, identify gaps in our knowledge, and outline critical research needs to facilitate science-based conservation decisions.

Part 1, Saturday, Jan 14
Room: Tiki Pavilion, 8:00 am to 9:40 am

8:00–8:20  Mark Elvin, A. Sanders, J. Andre  
Mark Elvin, A. Sanders, J. Andre  
Monardella in the Mojave—An Update on the Status of Our Knowledge of the Genus

8:20–8:40  Ron Kelley  
Ron Kelley  
Insights from a Student of Transmontane Borages, Emphasizing Cryptantha Section Oreocarya

8:40–9:00  Shannon Still  
Shannon Still  
California’s Desert Eschscholzia: Progress for this Difficult Taxonomic Group

9:00–9:20  Duncan Bell  
Duncan Bell  
Filling in the Gaps: A Flora of the Arica Mountains, Riverside County, California

9:20–9:40  Sarah De Groot  
Sarah De Groot  
The 2011 Chemehuevi Mountains Expedition

Part 2, Saturday, Jan 14
Room: Tiki Pavilion, 10:00 am to 11:40 pm

10:00–10:20  Kara Moore, J. Andre, B. Pavlik, A. Stanton, P. McIntyre  
Kara Moore, J. Andre, B. Pavlik, A. Stanton, P. McIntyre  
A Demographic Model of a Rare Perennial in the Light of Solar Energy Development

10:20–10:40  Sherri Spiegal  
Sherri Spiegal  
Distribution of Vegetation in a Western Mojave Desert Grassland

10:40–11:00  Michael Bell, E. Allen, J. Sickman, A. Bytnerowicz  
Michael Bell, E. Allen, J. Sickman, A. Bytnerowicz  
Using Stable Isotopes of N and Oxygen in the Air, Soil, and Vegetation of the Western Sonoran Desert to Evaluate Sources and Sinks of Anthropogenic Nitrogen in the Ecosystem

11:00–11:20  Daniel Pritchett  
Daniel Pritchett  
Can Old Dogs Learn New Tricks? Some Conservation Lessons from Owens Valley

11:20–11:40  Laura Cunningham  
Laura Cunningham  
Large-Scale Renewable Energy Projects on Desert Habitats: Impacts, Alternatives and the Direction of Conservation Biology
Today, as in the past, Native People rely upon natural resources found within their homeland to carry on traditional practices. In many instances human-caused disturbances have disrupted natural processes which in turn have led to the loss of biodiversity, non-native species invasions, increases in wildfire severity and frequency, and riparian degradation.

Many tribal environmental departments work in close consultation with Native elders and Native artisans to conserve and restore habitat while at the same time providing continued access to traditional materials necessary for the continuation of cultural practices. This session brings together voices of experience from professional conservationists and Native artisans who use native plants. Each perspective is a piece of a complex picture which portrays communities working together to conserve areas having multiple resource and cultural values.

Part 1, Saturday, Jan 14
Room: Hampton, 8:00 am to 9:40 am

8:00–8:20  Rick Flores  Cooperative Habitat Restoration of a California Grassland
8:20–8:40  Richard Bugbee  The Interdependency of Native People and Native Plants
8:40–9:00  Stan Rodriguez  Using Plants to Teach Culture
9:00–9:20  Abe Sanchez  Native Artists as Advocates for Plant Conservation
9:20–9:40  Lorene Sisquoc  Gathering for Traditional Wellness

Part 2, Saturday, Jan 14
Room: Hampton, 10:00 am to 11:40 am

10:00–10:20  Shana Gross, J. Johnson  Washoe Tribe of Nevada and California Tending and Gathering Garden
10:20–10:40  Dean Tonenna  Tribal and Agency Conservation of Traditional Gathering Areas at Mono Lake, California
10:40–11:00  Lucy Parker  Grandmother’s Prayer: Keeping California Indian Basketmaking Traditions and Cultural Management Practices Alive
11:00–11:20  Panel Discussion  Traditional Plant Use and Conservation Planning
SESSION 16: Horticulture: Part of Conservation is Growing

Session chairs: Brett Hall and Matt Ritter

Native plant horticulture plays an important role in the conservation of California's rich flora—historically, currently and most importantly, in the future. The topics, goals and objectives of this session are:

- The role of botanical collections and display
- The practical science of seed banking (storage)
- Propagation research
- The role of ex-situ assurance colonies in the management of critically endangered taxa
- Restoration science and practice
- The role of native plant nurseries and possibly, assisted migration in conservation.

Part 1, Saturday, Jan 14
Room: Windsor, 8:00 am to 9:40 am

8:00–8:20  Molly McClary  Creating a Local Sustainable Germination Media: Evaluating the Use of Earthworm Castings and Rice Hulls to Replace Peat Moss and Perlite

8:20–8:40  Greg Rubin  Emulating Native Ecology in the Residential Landscape

8:40–9:00  Deanna Guiliano  Developing and Maintaining a Native Plant Nursery for Local Restoration

9:00–9:20  Juliet N. Braslow  Improving Nursery Production of 15 California Native Plant Species: How Important Is High Air-Filled Porosity?

9:20–9:40  Brett Hall  Conservation Gardens—A New Strategy for Conserving Coastal Diversity

Part 2, Saturday, Jan 14
Room: Windsor, 10:00 am to 11:40 am

10:00–10:20  Wayne Chapman  Continuity in Implementation and Maintenance on 220 Biodiverse Acres on the UCSB Campus

10:20–10:40  Dieter H. Wilken  The Role of Long-Term Ex-Situ Seed Collections in the Conservation of the California Flora

10:40–11:00  Gordon Frankie, R. Thorp, M. Ponder, R. Coville, B. Ertter  Bees and Flowers: A Love Affair that Continues

11:00–11:20  Bart O’Brien  The Critical Role of Horticulture in the Conservation and Restoration of California Native Plant Individuals, Populations, and Ecosystems

SESSION 17: The Vital Role of Education in the Future of Conservation
Session chairs: Josie Crawford and Isabelle Kay

We will emphasize successful educational programs with the capacity to effect significant expansion in the way society values the natural world. There will be three topics: 1. Supporting and maintaining vigorous research and teaching institutions (universities, herbaria, and field stations); 2. Using citizen science, outreach, and science education to change attitudes and behaviors; and 3. A discussion on including, listening to, and working with diverse perspectives for conservation.

Part 1, Saturday, Jan 14
Room: Le Chanticleer, top floor, Regency Tower, 8:00 am to 9:40 am

8:00–8:20 Judy Sanregret, California's New Environmental Education Initiative
8:20–8:40 Jack K. Shu, Making the Values of Plant Conservation and Restoration Inclusive to Diverse (Human) Communities
8:40–9:00 Tram Nguyen, Empowering Young People from Diverse Backgrounds to Become Tomorrow's Environmental Leaders
9:00–9:20 Anne Fege, J. Absher, L. Bender, C. De Soto, L. Teiper, Collaborating on Conservation Education for Native Habitats in San Diego
9:20–9:40 John Muir Laws, Opening the World through Nature Journaling

Part 2, Saturday, Jan 14
Room: Le Chanticleer, top floor, Regency Tower, 10:00 am to 11:40 am

10:00–10:20 Daniel Slakey, CNPS Rare Plant Treasure Hunt
10:20–10:40 Mary Ann Hawke, A. Fege, D. DeRoma, Native Plant Phenology Project Engages Citizen Scientists in Climate Change Research
10:40–11:00 Staci Markos, R. Moe, Conservation of the California Flora: The Role of Herbaria
11:20–11:40 Gary Wallace, Education: Means to the Ends
SESSION 18: Student Session
Session chairs: Matt Guiliams and Edie Allen

The student session provides a venue to highlight student research that focuses on the California flora. A number of research topics will be explored in this session, including plant taxonomy, rare plant biology, and plant ecology of both native and invasive plant species.

Part 1, Saturday, Jan 14
Room: Sheffield, 8:00 am to 9:40 am

8:20–8:40 Sandra Namoff  Anatomical and Morphological Evidence for a New Taxon of Calystegia (Convolvulaceae).

8:40–9:00 Rebecca Stubbs  From Sea Level to Mountain Peaks: The Evolution and Biogeography of the Rare Polemoniums (Polemoniaceae)

9:00–9:20 Eliza Shepard  A Geographic Analysis of Locally Rare Plant Species of Sonoma County

9:20–9:40 Helen Kurkjian, S. Carothers, E. Jules  A Population Viability Analysis of the Lassics Lupine

Part 2, Saturday, Jan 14
Room: Sheffield, 10:00 am to 11:40 pm

10:00–10:20 Acadia Tucker, J. Phillips, E. Schultz, C. McEachern, D. Thomson  Effects of Introduced Herbivore Control on Rare and Endemic Plants of Santa Rosa Island, California: Changes in Species Distribution and Extent

10:20–10:40 Jennifer Phillips, A. Tucker, E. Schultz, C. McEachern, D. Thomson  Effects of Introduced Herbivore Control on Rare and Endemic Plants of Santa Rosa Island, California: Changes in Species Abundance

10:40–11:00 Doug Wylie  Vegetational Changes Following the Release from Feral Grazing Pressure: San Clemente Island

11:00–11:20 Bray Beltrán  Can Conservation Planning Areas Help Endemic Plants in California's Southwest Ecoregion under Climate Change?

11:20–11:40 Erin Riordan, P. Rundel  Implications of Climate Change for a Threatened Plant Community, the California Sage Scrub
## Part 3, Saturday, Jan 14

*Room: Le Chanticleer, 1:00 pm to 2:40 pm*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:00–1:20</td>
<td>Catherine Bell</td>
<td>What’s Up in the Alpine Zone? An Assessment of Twenty Years of Vegetation Change in High-Elevation Areas of Sequoia National Park, California</td>
</tr>
<tr>
<td>1:20–1:40</td>
<td>April Sahara</td>
<td>Evaluating Tree Encroachment in the Little Bald Hills (Redwood National &amp; State Parks) Using Historical Photos and Dendroecological Techniques</td>
</tr>
<tr>
<td>1:40–2:00</td>
<td>Matt O’Neill</td>
<td>Coast Live Oak (<em>Quercus agrifolia</em>) Recruitment and Growth Dynamics in the Foothills of the San Gabriel Mountains</td>
</tr>
<tr>
<td>2:00–2:20</td>
<td>Karen Tanner, K. Moore, B. Pavlik, A. Stanton, P. McIntyre</td>
<td>Designing an Experimental Study to Investigate Impacts of Utility Scale Solar Development on Desert Annuals</td>
</tr>
<tr>
<td>2:20–2:40</td>
<td>Sara Baguskas, C. Still</td>
<td>Tree Mortality in a California Coastal Fog Forest</td>
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## Part 4, Saturday, Jan 14

*Room: Le Chanticleer, 3:00 pm to 4:00 pm*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>3:00–3:20</td>
<td>Marguerite Mauritz, V. Eviner</td>
<td>Assessing the Impact of Invasive Annual Grasses on Seed Production and Seed Viability of Two Native Californian Grasses</td>
</tr>
<tr>
<td>3:20–3:40</td>
<td>Nicole Molinari, C. D’Antonio</td>
<td>Structural and Compositional Differences between Native and Non-Native Dominated Grasslands</td>
</tr>
<tr>
<td>3:40–4:00</td>
<td>Kai Palenscar, J. Holt</td>
<td>Community Factors Affecting Giant Reed Establishment within the Riparian Plant Community of Southern California</td>
</tr>
</tbody>
</table>
SESSION 19: Land Management and the Conservation of Plants and Communities

Session chairs: Ellen Cypher and Dawn Lawson

Appropriate management is key to long-term persistence of native plant populations and natural communities, whether they occur on dedicated conservation lands or working landscapes. This session will explore management strategies, techniques, and tools to help guide future management efforts. The threat of climate change makes it imperative that we manage adaptively. As conditions change so will the approaches to and effects of land management.

Part 1, Saturday, Jan 14
Room: Sheffield, 1:00 pm to 2:40 pm

1:00–1:20 Lawrence D. Ford, Devii R. Rao
Conservation Grazing: Grazing Management Planning, Monitoring, and Plan Adaptation for Endangered Species Habitat in California Annual Grasslands

1:20–1:40 Rebecca Waegell
Straddling the Fence: Achieving Conservation Success while Maintaining a Viable Business

1:40–2:00 Jae Pasari
Interactions between Nitrogen Deposition and Grazing Inform Invasive and Native Species Management in a Serpentine Grassland

2:00–2:20 Christy Wolf, V. Schoblock, D. Lawson
In the Crosshairs: Navy Targets Only Known Stand of Barb Goatgrass (*Aegilops triuncialis*) in San Diego County for Eradication

2:20–2:40 Jessica Vinje, P. O. McConnell, M. Spiegelberg
The Effects of Fusilade II and Dethatching on Population Numbers and Flowering in Thread-Leaf Brodiaea (*Brodiaea filifolia*), a State and Federally Listed Plant Species

Part 2, Saturday, Jan 14
Room: Sheffield, 3:00 pm to 4:40 pm

3:00–3:20 Ramona Robison
Overview of Special-Status Plant Management in State Parks

3:20–3:40 Peter Michael Beesley
Pacific Gas & Electric Company’s Use of Safe Harbor Agreements to Enhance Habitat for Endangered Species in the San Francisco Bay Area

3:40–4:00 Clinton Kellner, R. Harris
Monitoring Most Beautiful Jewellflower, Smooth Lessingia, and Santa Clara Valley Dudleya in a Serpentine Grassland

4:00–4:20 Jim Hanson, C. Thomsen
Keeping Our Living Scenery: Conserving Native Plants as Common Roadside Management Practice

4:20–4:40 Elizabeth Kellogg, S. Snover
Long-Term Vegetation Trends and Responses to Disturbance Patterns on San Clemente Island 1992–Present
SESSION 20: Southern California Botany—Vibrant Flora Vibrant Folks
Session chairs: Naomi Fraga and Jonathon Snapp-Cook

Historic botanical documentation and exploration in southern California provides a rich source of data that date back to the later part of the 19th century. Southern California continues to be a rich source of botanical novelties including the discovery of undescribed plant species, significant range extensions of both native and non-native plant taxa, and increased knowledge of habitat requirements for rare and endemic taxa. Historic botanical information for this part of the State provides the foundation for ongoing restoration work that has resulted in an effort to offset the negative impacts of development in the region. In this session we will highlight southern California’s rich botanical history and examine how a diverse network of botanists and conservationists are working together to conserve this rich and unique flora.

Part 1, Saturday, Jan 14
Room: Hampton, 1:00 pm to 2:40 pm

1:00–1:20  Gary Wallace  Makers and Milestones of Southern California Botany
1:20–1:40  Jane Tirrell, W. Fidler, J. Strong, G. Bothwell  Survey and Phenology in a High Altitude Region of the San Gabriel Mountains
1:40–2:00  Fred Sproul  The Story of Southern California Wild Flowers 1928–1955, an Account of Caroll Dewilton Scott’s Manuscript
2:00–2:20  Vince Scheidt  On the Brink—The 10 Most Endangered Plants of San Diego County
2:20–2:40  Linda Prince  The Relationship of *Monardella viminea* to Closely Related Taxa Based on Analyses of ISSRS and Chloroplast DNA Sequence Data

Part 2, Saturday, Jan 14
Room: Hampton, 3:00 pm to 4:40 pm

3:00–3:20  Genevieve Arnold, M. Wall  Is In-Situ or On-Site Conservation Enough? Ex-Situ Conservation: Working with Seeds in Plant Conservation
3:20–3:40  Tommy Stoughton  Hitting the Ground Running: Seeds of Success Efforts in the California Desert District Make Major Headway
3:40–4:00  Jim Rocks  The Genus *Ceanothus* in San Diego County: Threats and Endemism
4:00–4:20  Frank Landis  San Diego Rare Plant Treasure Hunt: Thoughts on a “Breakable Survey”
4:20–4:40  Jeannine Ross, L. Goodwin, T. Nguyen  Conservation through Community-Based Restoration in City Heights’ Swan Canyon
### SESSION 21: Botanical Wonders of Northern California

Session chairs: Linnea Hanson and Samantha Hillaire

#### Part 1, Saturday, Jan 14

**Room: Tiki Pavilion, 1:00 pm to 2:40 pm**

**SPECIES CONSERVATION IN NORTHERN CALIFORNIA**

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>1:00–1:20</td>
<td>Michael Chasse, B. Holzman, J. Davis, V.T. Parker</td>
<td>San Francisco’s Rare Endemic Manzanitas: Prospects for Recovery through Restoration</td>
</tr>
<tr>
<td>1:20–1:40</td>
<td>Julie Nelson, B. Wilson, R. Brainerd, N. Otting</td>
<td>Problems When the Conservation Target Is a Subspecies: <em>Cordylanthus tenuis</em> ssp. pallescens</td>
</tr>
<tr>
<td>1:40–2:00</td>
<td>D. Jolles</td>
<td>Reproductive Isolation among Members of the <em>Pyrola picta</em> Species Complex (Monotropoideae: Ericaceae): A Case Study from Northern California</td>
</tr>
<tr>
<td>2:00–2:20</td>
<td>C. Sanville, B. Hayashi</td>
<td>Rare <em>Erythronium</em> Species on Green Diamond Resource Company (GDRCO) Property: Addressing Problematic Characteristics Present in Northwestern California Populations</td>
</tr>
<tr>
<td>2:20–2:40</td>
<td>Kandis Gilmore</td>
<td>Build It and They Will Come? Differences in Frequency and Abundance of Pollinators of Endangered Plants in Natural and Constructed Vernal Pools on the Santa Rosa Plain</td>
</tr>
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#### Part 2, Saturday, Jan 14

**Room: Tiki Pavilion, 3:00 pm to 4:40 pm**

**ECOSYSTEM HEALTH AND RESTORATION IN NORTHERN CALIFORNIA**

<table>
<thead>
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<tr>
<td>3:00–3:20</td>
<td>Richard Lis</td>
<td>Changes in Riparian Vegetation (1991–2006) Following the 1991 Cantara Spill of Metam-Sodium into the Upper Sacramento River</td>
</tr>
<tr>
<td>3:20–3:40</td>
<td>Jennifer Burt, S. Gross</td>
<td>Development and Evaluation of a Regional Seed Mix for Sierra Nevada Ski Slope Restoration</td>
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<tr>
<td>3:40–4:00</td>
<td>S. Gross, W. Christensen</td>
<td>Assessing Status of and Trends in Grass Lake Research Natural Area, Lake Tahoe, California: Using Two Genera of Bryophytes (<em>Sphagnum</em> and <em>Meesia</em>) as Indicators of Ecosystem Health</td>
</tr>
<tr>
<td>4:00–4:20</td>
<td>Sheherezade Adams</td>
<td>Serpentine Flora Conservation in the Central Mayacamas Mountains</td>
</tr>
<tr>
<td>4:20–4:40</td>
<td>John Hunter</td>
<td>Conservation Status of the Endemic Flora of the Sierra and Cascade Foothills</td>
</tr>
</tbody>
</table>
SESSION 22: Planning Tools for Rare Plant Conservation
Session chair: John Hopkins

Natural Community Conservation Plans and regional Habitat Conservation Plans provide landscape-level planning approaches for the conservation of natural communities and rare plants. The presentations examine case studies from San Diego and Riverside Counties, the California Desert and Northern California. They include lessons learned, challenges and ideas for improving planning efforts.

Saturday, Jan 14
Room: Windsor, 1:00 pm to 2:40 pm

1:00–1:20  Thomas Oberbauer  Multiple Species Conservation Planning in San Diego County
1:20–1:40  David Hogan  San Diego Multiple Species Conservation Plan and Vernal Pools—Lessons Learned?
1:40–2:00  Stephanie Dashiel, K. Delfino  The Desert Renewable Energy Conservation Plan
2:00–2:20  Katie Barrows  Preserving the Whole: Rare Plant Conservation in the Deserts of Southern California
2:20–2:40  John Hopkins  Rare Plant Conservation in Northern California Regional Conservation Plans

SESSION 23: Impacts and Mitigation
Session chair: Sarah VonderOhe

The Impacts and Mitigation session presents a variety of plant/vegetation community impact and restoration topics, from understanding vegetation community impacts to the success of mitigation methods/strategies.

Saturday, Jan 14
Room: Windsor, 3:00 pm to 4:40 pm

3:00–3:20  William Jones  Conservation of Orcutt’s Yellow Pincushion (Chaenactis glabriuscula Dc. var. orcuttiana (Greene) Hall) at Ballona Lagoon: Habitat Restoration by the City of Los Angeles
3:20–3:40  Wendy Renz  Constructing Vernal Pools for Ecological Function: An Historical Study of Ten Vernal Pool Creation Sites in the Northern Central Valley, California
3:40–4:00  Alison Stanton, B. Pavlik  Translocation of the Endangered Tahoe Yellow Cress: The Right Species, the Right Way
4:00–4:20  Daniel Gluesenkamp  Acting to Save Plants from Climate Change: Benefits, Risks, and Tools for Management Success.
4:20–4:40  Stuart Wiess  Smog Is Nitrogen Fertilizer: Chemical Climate Change Threatens California Native Plant Diversity
The Sacramento Valley Chapter of the California Native Plant Society acts and advocates for conserving native plants and their habitats in Sacramento, Yolo, Colusa, Sutter, Yuba, lower Placer and northern San Joaquin counties.

- Chapter meetings & newsletter Jan.-June and Sept.-Nov.
- Elderberry Farms Native Plant Nursery propagating and restoring native plants of the American River Parkway
- Native plant demonstration garden at Sacramento's Historic City Cemetery
- Wildflower Weekend Spring outreach and plant sale
- Fall plant sale
- Vernal pools preservation
- Sacramento Weed Warriors
- Kids & Community Gardens
- Online gardening resources
- www.sacvalleycnps.org
- Join at www.cnps.org/join

The mission of the California Native Plant Society is to conserve California native plants and their natural habitats, and increase understanding, appreciation, and horticultural use of native plants.

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Rancho Santa Ana Botanic Garden is the state's most extensive garden devoted exclusively to California native plants.

More than 2,800 species, 280 of which are rare, threatened or endangered, are represented in the Garden's 86 acres.

Visit today www.rsanbg.org
CONTRIBUTED POSTERS
Session chairs: Janell Hillman and Mark Bibbo

Poster session with author or representative present
Rooms: Ascot, Brittany, Clarendon, Eaton, and Fairfield
Thursday, Jan 12, 6:00 p.m. – 7:00 p.m.

Zoya Akulova-Barlow, C. Kellner; Seed Dispersal Methods of Plants Native to California

Holly Alpert; Controlling Invasive Plants in Devils Postpile National Monument: A Success Story in the Making

Rose Ashbach; Habitat Suitability Models as a Tool for the Aerial Extent Mapping of Rare Chaparral Species, Monterey Spineflower (Chorizanthe pungens var. pungens)

Charles Blair; Invasive Aquatic and Riparian Weeds and Mosquitoes: Challenges, Successes, and Importance of On-Going Studies

Amy Concilio, M. Loik; Non-Toxic Control Options for High Elevation Populations of Bromus tectorum L. in the Eastern Sierra Nevada, CA

Mark Dodero, A. Bennett; Maritime Succulent Scrub Community Restoration and Management Benefits Both Sensitive Animals and Plants

Kara Doolin, T. Nelson; Active Management Helps to Bring Endemic Species Population Back from Extinction

M. Guilliams, Jessica Farmer, T. Lilittham, A. Roddy, T. Dawson; Is Floral Water Balance an Important Driver of Angiosperm Evolution?

Naomi Fraga; Modeling Habitat for Astragalus tricarinatus (Fabaceae)

Meredith Gosejohan; When Being under Water Is a Good Thing: Does Inundation Regime Explain Endemic Plant Community Distribution in Vernal Pools?

Matt Groberg, S. Meyers, K. Amsberry; Evaluating the Species Status of Sisyrinchium hitchcockii: A Rare Blue-Eyed Grass of Oregon and Northern California

Matt Guilliams, J. Perkins, B. Ertter; Protecting a Rare Potentilla in Lassen County, California: A Conservation Assessment for Potentilla basaltica (Rosaceae)

Kristen Hasenstab-Lehman; Systematics and Evolution of Johnstonella: Insights into Endemism in Desert Herbs

Bianca Hayashi; Wide Phenotypic Variability and Possible Hybridization in Erythronium californicum on Green Diamond Resource Company (GDRCO) Property

Mark Hessing; Demography of the Rare Desert Cymopterus at Fort Irwin, California

Rachel Hussey; Floral Variability in Leptosiphon androsaceus across a Moisture Gradient

Zuhayl Lambert; A Descriptive Study of Primary Old-Growth Coast Redwood Growth Form and Canopy

Daniel Lee, M. Guilliams, B. Baldwin; A Morphometric Analysis of the Prickly-Nutleted Popcorn Flowers (Plagiobothrys, Boraginaceae), with an Emphasis on the Distinctiveness of the Rare Plant, P hystriculus

Kaitlin Lubetkin, L. Kueppers, A. Westerling; Extent and Timing of Conifer Encroachment into Subalpine Meadows in the Central Sierra Nevada

Chris McDonald; Searching for a Silver Bullet: Reducing the Invasive Sahara Mustard while Preserving Native Wildflowers
Kai Palenscar; Community Factors Affecting Giant Reed Establishment within the Riparian Plant Community of Southern California

Tate Perrine, Jason Pearson; Earl’s Garden: Creating a Student-run Native Plant Garden on the University of California at San Diego Campus

Barbara Rice, D. Hichwa, J. Weigand; Conservation of Rank 1B.2 Agrostis blasdalei, Discovered on California Coastal National Monument Island

Amelia Ryan, L. Parsons; Post-Restoration Plant Community Formation on the Giacomini Wetland Restoration Project

Schweich; Population Dynamics of Desert Elkweed (Frasera albomarginata S. Watson) Gentianaceae in Mojave National Preserve

Rasoul Sharifi, B. Prigge, T. Huggins, P. Rundel; Comparative Ecophysiology of Lane Mountain Milkvetch (Astragalus jaegerianus Munz), an Endangered Species, under Field and Controlled Greenhouse Conditions

Debra Sykes, D. Snider, T. Collins, E. Stitt, P. Balfour; The Effect of Seasonality on CRAM Scores for Vernal Pools in Eastern Sacramento County

Don Thomas; Progress in the Restoration of the Habitat of Fountain Thistle (Cirsium fontinale) Invaded by Jubatagrass (Cortaderia jubata)

Dean Tonenna; Tribal and Agency Conservation of Traditional Gathering Areas at Mono Lake, California

Barbara Wilson, R. Brainerd, N. Otting, P. Zika; Field Guide to the Carex Sedges of California

Courtney Wilson; Seed Germination and Pollination of the Endangered California Redwood Forest Endemic Astragalus agnicidus (Fabaceae); Preliminary Results

Marti Wittier; The California Fire Science Consortium—A New Tool for Collaboration between Fire Scientists and Fire Managers

CHAPTER POSTERS

Steven Goetz, Janet Mackey, Sue Wickham, Willis Linn Jepson Chapter: Sure, Let’s Build a Native Plant Botanic Garden

Dave Berman, South Coast Chapter: Save Lower Point Vicente

Arne Johanson, Elizabeth Mather and Mike Bregantti, San Diego Chapter: The Bradley Method, Effective Human Scale Habitat Restoration

Holly Alpert, Bristlecone Chapter: Conservation, Education, and Advocacy in the Eastern Sierra

Celie Kuchler, Orange County Chapter: Building Native-Plant Conservation in OC

Laurie Burk, Shasta Chapter, The Matson Mowder How Celebration Garden

Sabrina Okamura-Johnson, Sacramento Valley Chapter: Three Conservation Projects

David Chipping, San Luis Obispo Chapter: Conservation Education

Carrie Schneider, San Diego Chapter: Supporting Community Habitat Programs in San Diego

Steve Hartman, LA/Santa Monica Mountains Chapter: Native Plant Revegetation in the Sepulveda Dam Basin, Van Nuys, California (1979–2011)

Laura Baker, Lesley Hunt, East Bay Chapter: Point Molate—Thanks to EB CNPS, a Casino Wasn’t in the Cards
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Session 2: The Science, Life History, and Population Dynamics of California's Rare and Endangered Plants. Abbrev: Rare Plants
Session 3: Central Coast and Central Valley Conservation. Abbrev: Central Coast and Valley
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