

Introduction to the Willows of California (Salicaceae)

May 11, 2019, Saturday

California is home to over one quarter of the estimated 120 willow species growing in North America. Cottonwoods and willows are the most common riparian hardwood species in California and yet many of us have little idea of how to tell them apart. Species identification is often neglected because willows are thought to frequently hybridize, which is further compounded by only having vegetative material during field visits when we think we need flowers to make a positive identification. The workshop will focus on the leaf, stem, and other vegetative growth characteristics that are useful in making identification while also emphasizing the regional distributions of the different species. The goal of the workshop is to provide a broad overview of willows, highlight vegetative characteristics used in the identification keys in *The Jepson Manual (second edition)* and familiarize participants with the six most common willows in California.



Salix gooddingii

The workshop will begin with a brief presentation focusing on the overall willow family taxonomy, recent taxonomic changes in the second edition of *The Jepson Manual*, geographic distribution, and key identification characteristics. Fresh material of cottonwoods and willows will be available to illustrate the variety of vegetative and flowering characteristics used in *The Jepson Manual* keys. Bring in your problem willows and we will apply our new willow skills to identifying them together. Additionally, the instructor will provide an overview of willow family ecology and briefly cover use of willows and cottonwoods in restoration projects. Participants should bring a hand lens, dissection equipment including extra-fine forceps, and a copy of *The Jepson Manual (second edition)*. All experience levels are encouraged to participate.



Populus fremontii ssp. *fremontii*

The workshop will be led by *John Bair*, recognized expert in willow and cottonwood taxonomy and physiology. John has investigated the inter-relationship between riparian plant establishment, geomorphology, and hydrology to recommend flow management and channel restoration approaches. He earned his Master's degree working with Dr. John Sawyer at Humboldt State University, analyzing riparian initiation and establishment processes on the Trinity River. His special interests include the effect of stream-flow regulation on Salicaceae.

The workshop will meet Saturday, May 11, 2019, from 9:00 a.m. to 5:00 p.m. in Holt Hall room 129 at CSU Chico. Registration is \$110.00 personal, \$130.00 business, \$100.00 for members of Friends of the Herbarium, \$50.00 student (only 2 seats available at the student price). Please register in advance; class size is limited to 20 participants, class cancelled without at least 8 participants. For more information about workshop content please contact John Bair at john@mcbainassociates.com or (707) 273-1046. For more information about registration or to register using a credit card please contact the Biology office at (530) 898-5356 or sscholten@csuchico.edu.



Salix lasiandra var. *lasiandra*

www.friendsofthechicostateherbarium.com/eventsviewcalendar/

*Introduction to the
Willows of California (Salicaceae)*

May 11, 2019, Saturday

workshop registration form

Please make your check payable to *Research Foundation* – please include “Willow workshop” on the memo line, and mail to:

Friends of the Herbarium
California State University, Chico
Chico, CA 95929-0515

To pay by credit card call the Biology office at (530) 898-5356.

NAME: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

PHONE: _____

E-MAIL: _____

AMOUNT ENCLOSED: _____

Cancellation policy: No refund for cancellation within 7 days of the workshop date.

www.friendsofthechicostateherbarium.com/eventsviewcalendar/

*This workshop has been approved for 3 Professional Development Credits
by the California Consulting Botanist Board of Certification*