

CNPS and UCSC Arboretum present a
Carex workshop

July 31-August 2, 2007
Sagehen Creek Field Station

Class Announcement and Registration Form



Photograph: Steve Matson

Please join the California Native Plant Society and University of California Santa Cruz Arboretum for a *Carex* identification workshop to be held at the Sagehen Creek Reserve in the northern Sierra Nevada.

Target audience: Professional and student botanists, ecologists, land managers and other *Carex* lovers. Participants should have knowledge of plant terminology, experience with plant keys, and some knowledge of *Carex* morphology (will send handout to registrants).

Instructors:

Kerry Heise: botanical consultant, workshop instructor

Geri Hulse-Stephens: botanical consultant, workshop instructor

Dave Weixelman, Botanist, U.S. Forest Service, Tahoe National Forest

Peter Warner, Botanist, educator

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The genus *Carex* is the largest in the Sedge family (Cyperaceae) with estimates of up to 2,500 species worldwide. The center of diversity for this genus is in North America with well over 600 species, of which over 135 occur in California. It is the only genus in the family where the achenes are completely enclosed in a sac-like structure called a perigynium. Careful study of inflorescence, spikelet, and perigynia morphology is required for identification. With practice, many sedges can be identified in the field with just a hand lens, however a few require close examination of the perigynia under a dissecting scope.



Photograph: Steve Matson

This workshop will integrate discussion and intensive lab sessions to familiarize participants with the techniques and terminology required to navigate through any *Carex* key. Visits to nearby wetlands will offer a chance to observe this diverse group of plants and identify many species in the field.

Instructor Biographies



Photograph: Kerry Heise

Kerry Heise began his study of botany while growing up in the Truckee/Lake Tahoe area in the 1970's. After receiving a B.S. in botany from the University of Nevada Reno, he spent many field seasons with the National Park Service in the Sierra Nevada and throughout Alaska. He returned to Reno and earned a M.S. in natural resource management while working as a botanist for the Toiyabe National Forest in the ranges of Central Nevada and along the eastern Sierra. Following that, he spent 10 years with the University of California Integrated Hardwood Range Management Program and is currently a botanical consultant based out of Ukiah, California. Kerry has taught plant identification workshops for several years.

Geri Hulse-Stephens is a botanical consultant in Northern California. Among her projects is a fourteen-year study of rare wetland species in the Little Lake Valley in Mendocino County. She is the rare plant coordinator for the Sanhedrin Chapter of the California Native Plant Society. She wrote and illustrated an article for *Fremontia* describing the flora of Mount Sanhedrin and statewide high-elevation plant distribution. In addition, she has contributed writings, illustrations and field information to several

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other botanical publications. She sits on the boards of the Mendocino County Resource Conservation District and the U.S. Forest Service Resource Advisory Committee. She is a graduate of the University of California, Santa Barbara.

Dave Weixelman, is a botanist with the U.S. Forest Service on the Tahoe National Forest, California. His interest in botany began while hiking the Colorado Rockies. Dave received his undergraduate degree in botany and his graduate degree in wildlife management from the University of Alaska, in Fairbanks. He has worked on the Chugach National Forest in Alaska where he studied the browsing habits of moose and plant succession following fire. Dave was the Forest Botanist on the Humboldt-Toiyabe National Forest where he helped develop a classification of riparian plant community types. Dave has helped teach a number of courses on sedges and riparian plants over the years. His current work includes monitoring plant composition and the health of meadows on National Forest lands in California.

Peter Warner stumbled upon the fascinating world of botany in 1982, enthralled with a magnificent stand of *Pedicularis densiflora* in Sonoma County. He now works as an environmental scientist for California State Parks in Mendocino County, and enjoys passing his time studying plants and sharing his discoveries with others through teaching and volunteering. Experienced in a diversity of botanical and ecological pursuits, he's a former CNPS chapter president and past California Invasive Plant Council board member. Quick to stoop to pull a weed or drop to the ground in reverence of elephant heads (the plant!), Peter has worked as a vegetation specialist, botanist, habitat restorationist, educator, consultant, landscaper, bureaucrat, professional musician, and cab driver. He's got a couple of parchment documents from Sonoma State University, He's previously taught workshops on identification of the flowering plants, the Poaceae, and the Asteraceae.



Photograph: Kerry Heise

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Proposed Agenda for *Carex* workshop

Tues, July 31

3:00 p.m.- 5:00 p.m. Arrive at Sagehen Creek Reserve; settle into lodging or set up camp

6:00 p.m. Meet at Mess Hall for dinner (provided)

7:30 p.m. Assemble at lab for an hour or so of informal lecture and discussion on *Carex* taxonomy, terminology, morphology, biogeography, etc

Wed, August 1

7:00-8:00 a.m. Breakfast -Bring your own (BYO)

8:30 a.m. Visit fens and other wetland sites, collect sedge samples, go over field identification techniques

Noon -Lunch (BYO)

1:00 p.m. Reassemble at Lab for afternoon keying sessions and continuing instruction/discussion.

6:00 p.m. Meet at Mess Hall for dinner (provided)

7:30 p.m. Assemble at lab session work for those interested.

Thursday, August 2

7:00-8:00 a.m. Breakfast (BYO)

8:30 a.m. Visit different sedge sites

Noon -Lunch (BYO)

1:00 p.m. Continue lab sessions through early afternoon

3:00 - 4:00 p.m. Wrap up workshop

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Equipment list and Location:

Please bring the following:

Hand lens

Clipboard

Notebook and pencil

Sturdy boots and field clothes

Clothing appropriate for the weather and conditions (e.g. protection from rain, sun, heat/cold, insects etc.)

Water bottles

Breakfast food (2 days) and lunches (2 days)

Snacks

Materials and Resources Provided:

USDA Field Guide to Intermountain Sedges
RMSRS-GTR-10

Forceps and submillimeter scales

Dissecting Microscopes

Dinners for Tues and Wed evenings

Lodging for Tues and Wed - your choice of
camping or cabins (same price)

Location – Map, directions and information

Sagehen Creek Field Station

[map & directions.pdf](#)

[info sheet.pdf](#)

Workshop will be held rain or shine



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Name: _____

Organization/Affiliation: _____

Address: _____

Telephone numbers: _____

Email: (please print **very** clearly): _____

REGISTRATION FEE

\$525 for workshop + \$20 for camping or cabin for 2 nights = \$545, if received by July 16, 2007

\$575 for workshop + \$20 for camping or cabin for 2 nights = \$595, if received after July 16, 2007

Last day to cancel your registration and receive a 50% refund is July 16

After **July 16**, we will not be able to refund your registration fee.

Registration is limited to 20 participants and is on a first-come/first-serve basis.

Dietary Preference: Vegetarian _____
Omnivore _____

PAYMENT METHOD

Check Make check payable to **California Native Plant Society**

Credit Card (see below)

Visa/MasterCard #: _____

Name on the Card: _____

Expiration Date: _____

Signature: _____

Mail this form with payment to:	California Native Plant Society 2707 K Street, Suite 1 Sacramento, CA 95816 Attn: <i>Carex</i> Workshop
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You may also FAX your form with Credit Card information to (916) 447-2727

Please note: For any questions *regarding payment* information and *receipts*, please call Christina Neifer at the State CNPS office: (916) 447-2677. For questions about *logistics* or the *contents of the workshop*, please contact Josie Crawford: (916) 327-8454 or jcrawford@cnps.org



Jeff Brown, Station Manager
 11616 Sagehen Rd (P.O. Box 939)
 Truckee, CA 96160
 T: 530-587-4830
 F: 530-582-4031
 E: SagehenC@uclink.berkeley.edu

Getting to the Station

The Field Station is located 8 miles due North of Truckee, California at 6,400'.

- From I-80 take the Hwy #89 North exit towards Sierraville. (East of Truckee)
- Travel about 8.4 miles . Turn left onto Forest Service Dirt Road (unmarked, there is a brown, two-car garage on the West side of 89 just North of the dirt road)



- The dirt road splits after about 150 yards. Go straight ahead (you will see a yellow sign that says "Road Closed 500 feet" this is the correct road).



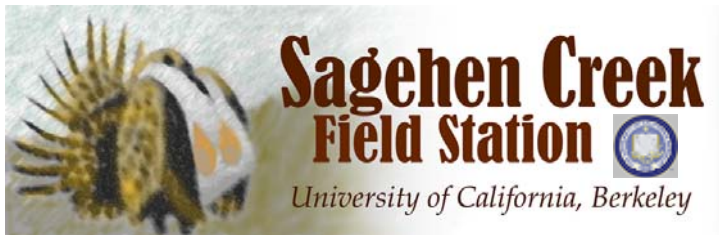
- Travel approximately 500' to locked access gate. (Contact the station manager prior to arrival for current combination to the gate). Contact Station Manager for current combination.

(The last place your cell phone will work is at the gate.)



- Open and travel through the gate (close and lock after passing through)
- Travel about 1.8 miles down the road to the Station Proper and park in the lot on the left.





Mail address: P.O.Box 939 Truckee, CA 96160-0939
 Street Address: 11616 Sagehen Rd, Truckee, CA 96160
Station Manager: Jeff Brown T: 530-587-4830
 E:SagehenC@uclink.berkeley.edu F: 530-582-4031
 Web: <http://sagehen.berkeley.edu>
To contact Station Visitors:
 T1: 530-582-5625(answering machine) T2: 530-582-0373

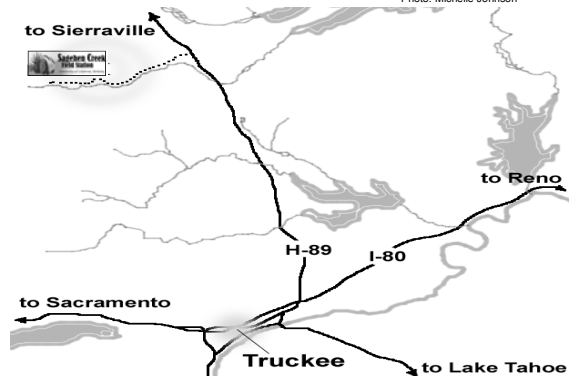
"Excellence in Research and Education since 1951"



Photo: Michelle Johnson

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Station Description and Layout:

The field station is divided into two main areas: the Lower Camp, where the bulk of the fixed resources are located, and the Upper Camp, with additional visitor housing. There is a bath house in each of the two camps with flush toilets, showers, washing machine and sinks. Both have hot and cold running water and electricity. All structures, except the tent platforms, which are located in both camps, have electricity, wood burning stoves, smoke detectors and fire extinguishers. The Field Station's water system is potable. Overnight capacity details below.

<u>Camp Area</u>	<u>Building Name</u>	<u>Sleeps</u>	<u>Bed Make-up</u>	<u>Heat</u>
Lower Camp	Meadow Cabin	3	3 twins	Wood Stove
	East Cabin	6	3-bunk beds	Wood Stove
	West Cabin	6	3-bunk beds	Wood Stove
	West Wing	4	2-bunk beds	Propane
	Apartment	6	1-Full, 2-bunk beds + 3/4 Bath & Kitchenette	Propane & Wood
	Tent Platform		Closed—In need of repair	None
Upper Camp	North Cabin	8	4-bunk beds	Wood Stove
	South Cabin	8	4-bunk beds	Wood Stove
	Johnson Cabin	4	1-Queen, 1-bunk bed + 3/4 Bath & Kitchen	Propane & Wood
	Treehouse Cabin	0	To be removed	
	Tent Platform	6	To be replaced by new cabin summer 2003	
	Leopold Cabin	2	1-Double (long walk to bath & toilet facilities)	Wood Stove
Tent Camping	Several Locations	20		None
TOTAL OVERNIGHT CAPACITY		85	Restroom facilities currently limit overnight use to 50	



SCFS operates under a Special Use Permit from the USDA Forest Service Tahoe National Forest



Lab Space / Classroom / Office: There is flexibility in how the station can be configured. There are **two classrooms** with good worktables that can seat 24 people comfortably. The classroom can also be configured to seat 50 in a meeting format. There is a **Library** that can be configured as a classroom with the ability to seat 20, if necessary. Each space has electricity and lighting. The library computers are networked to the **9(1-Mac, 8-PC) Station Computers, LAN, Printers & LAN Satellite Internet account**. Ethernet LAN connections are available to station visitors. A wireless network to be installed summer 2003 (80211G). The station has one each: **TV, VCR, LCD Projector, Kodak carousel slide projector, overhead projector, DVD sound system, two screens** and several extension cords. There is a chalk board in each classroom area and one **6X4 foot white board** that can be set up as needed. The lab capabilities are very limited at the current time. There are four very good collections from the Northern Sierras at the station, botany and mammals, insects and birds. These are available for use by visitors. Special care must be taken and the station manager needs to be involved prior to actual handling of the specimens. There is a **"Fish House"** on Sagehen Creek with three 8' long underwater viewing windows. There is limited office space available to visitors. Contact the Station Manager for more details. **3' x 5' drop in lab freezer.**

Eating / Meal facilities: There is a communal commercial kitchen (new 2003) with a 6 burner commercial gas range with 2 foot square griddle, triple dish sinks, prep sink, stainless prep tables, 7 refrigerators, 5 w/ freezers, coffee makers, pots and pans, plates, bowls, utensils, dry food storage, etc. The kitchen is self-contained and well equipped (however, if you have special requirements, please contact the station manager well before arrival). There is a separate **dining area** and 10 X 37' **deck** that combined can seat 40 people at one time (use of the deck is weather dependent). Barbeque on the deck. There is currently no cook available at the station. The manager can recommend caterers/personal chefs; however, long lead times are needed to avoid scheduling conflicts, and Tahoe-area caterers are very busy during the summer months. **Miscellaneous:**

1. **Risk forms required.** Download pdf copy, complete and sign. Completed forms must be given to the Station Manager prior to or upon arrival.
2. **Campfires, Pets and Guns are not allowed.** Smoking only in designated areas.
3. Alcoholic beverages are permitted. Responsible use is required.
4. Fees are charged for overnight use. Consult the Sagehen website for rates (<http://sagehen.berkeley.edu>).
5. Outside communication is through two visitor telephones and the internet. Cellular coverage ends at the access gate.
6. Arrangements must be made well in advance through the Station Manager. Classes should consider booking one year in advance. Please contact the station several weeks prior to visiting for updated information and current gate combination.
7. In order to schedule facilities use and use of research areas, proposed research is reviewed prior to arrival. Applications and reservations are made via the online system located through the station's homepage. All visits and research must be approved in advance. Two copies of all published research conducted through the use of Sagehen must be sent for the station library in hard copy and electronic. Metadata and copies of data sets are also required.
8. Full compliance with the appropriate UC Berkeley animal protocols is required. Copies of approved paperwork must be provided to the Station Manager upon arrival. Detailed information is provided in the Use Application Forms.
9. Valid permits for the collecting of certain species must be acquired prior to arrival at the station. Copies of these permits must be supplied to the Station Manager prior to any work.
10. Individuals with special needs should make their requirements known to the Station Manager well in advance.
11. Please note that Sagehen is a remote and isolated field station; facilities are rugged. Although Sagehen is a year-round facility, overnight capacity changes throughout the year. Winter access is via two miles of snow covered terrain. November to Mid-May users should be prepared for winter-like conditions.



Contacts:

All initial inquiries and questions concerning scheduling, facilities, and on-site procedures, should be addressed to:

Jeff Brown, **Station Manager**
 University of California, Berkeley
 Sagehen Creek Field Station
 P.O. Box 939
 Truckee, CA 96160-0939
 telephone: 530-587-4830
 email: SagehenC@uclink.berkeley.edu
 fax: 530-582-4031

Faculty Director
 Prof. James W. Kirchner
 Dept. of Earth and Planetary Science
 479 McCone Hall
 University of California
 Berkeley, CA 94720-4767
 telephone: (510) 643-8559
 e-mail: kirchner@seismo.berkeley.edu
 fax: (510) 643-9980

Address **financial services** and accounting questions to:

Joyce Leighton
 Berkeley Natural History Museums
 1101 Valley Life Sciences Building
 University of California, Berkeley
 Berkeley, CA 94720-3070
 telephone: 510-643-0188
 e-mail: joyce@socrates.berkeley.edu
 fax: 510-641-1822