



Friends of the Herbarium

Biological Sciences Herbarium
California State University, Chico

Newsletter

Vol. 5 No. 2

October 1999

Friends of the Biological Sciences Herbarium **Annual Meeting**

4:00 pm Saturday

☛ **November 6, 1999** ☛

Holt Hall Room 129

☛ ☛ ☛

Herbarium Tours from 2:00 to 3:00 pm

Tour of the Plant Evolution and Systematics Lab at 2:30 pm

Reception at 3:00 pm

☛ ☛ ☛

Introduction and Welcome

Report from the Board

☛ ☛ ☛

Jim Jokerst Field Botany Award

Introduction of recipients

David Parks, Frances Phipps, Natalie Wight

Each recipient will present a short review of their research

☛ ☛ ☛

Distinguished Service Award

presented to Jan Monelo

by Friends of the Biological Sciences Herbarium

☛ ☛ ☛

Dinner

Join us as the Friends of the Herbarium

take Jan out to dinner

immediately following the Annual Meeting

MESSAGE FROM THE BOARD

Be sure and come to the Friends of the Biological Sciences Herbarium Annual Meeting on November 6. See the announcement adjacent to this message for details. Our annual meetings are always designed to be interesting and informative. This year's meeting is preceded by an hour for tours of the herbarium and a special tour of the Plant Evolution and Systematics lab. Tours of the herbarium will be given as visitors drop by the herbarium between 2:00 and 3:00 pm. There will be one 20 minute tour of the Plant Evolution and Systematics lab starting at 2:30. This lab is where many of Dr. Schierenbeck's graduate students conduct their research.

The Distinguished Service Award for 1999 will honor Jan Monelo. Jan was a major force in the founding of the Friends

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Friends of the Herbarium

The **Friends of the Biological Sciences Herbarium**, California State University, Chico, was formed to help maintain the high quality of work that has been known to be associated with the herbarium. The primary purpose of the group is to provide community support for the herbarium. This includes raising funds for items that are not covered under the University budget. Scientific and academic pursuits are the focus of the group. The Friends also offers low cost workshops and classes on various botanical topics.

The Friends of the Biological Sciences Herbarium operates under auspices of the California State University, Chico, and enjoys non-profit status and has access to the use of University classrooms and equipment.

Memberships are renewed on May 1 of each year.

BOARD OF DIRECTORS

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Herbarium Director
Kingsley Stern
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Newsletter

Volume 5 Number 2

The Newsletter is published three times a year by the **Friends of the Biological Sciences Herbarium**, California State University, Chico. Subscription is free with membership. Submissions on herbarium related topics are welcome.

NEW NAMES FOR TWO SPECIES OF BUTTE COUNTY *GILIA*

Two species of Butte County *Gilia*, *G. capillaris* Kellogg and *G. leptalea* A. Gray ssp. *leptalea*, have recently been transferred to *Allophyllum* as *A. capillare* (Kellogg) A. Day & V. Grant and *A. leptalea* (A. Gray) A. Day & V. Grant ssp. *leptalea*.

These name changes are presented in a recent paper by Verne Grant of the University of Texas, Austin, and Alva G. Day of the California Academy of Sciences, San Francisco ("Transfer of some species from *Gilia* to *Allophyllum* and *Tintinabulum*, and the effects of the transfer on the generic definition of *Gilia* (Polemoniaceae)" *Phytologia* 84:368-382. 1998). The authors discuss various morphological characters, especially pollen morphology, that support the transfer of these species of *Gilia* to *Allophyllum*. One other species of *Gilia* was also transferred to *Allophyllum*: *G. sinistra* M.E. Jones (including ssp. *pinnatisectum* (Mason & A. Grant) A. Day). *Allophyllum sinistrum* (M.E. Jones) A. Day & V. Grant is also known from northern California, though not from Butte County. In addition, one other species of *Gilia*, *G. tenerrima* A. Gray, possibly occurring in northern California (Sierra Nevada) but not represented in the CSU, Chico herbarium collections, is transferred

to *Tintinabulum* (*T. tenerrimum* (A. Gray) A. Day & V. Grant) where it joins three other species of *Gilia*, from the Mojave Desert and the Great Basin, that were also recently transferred to *Tintinabulum* (*Phytologia* 84:69-86. 1998).

While this transfer of species out of *Gilia* makes that genus "more natural than it has been in many decades," the group of species transferred into *Allophyllum* "introduces a distinctive element into the genus and expands its range of variation." The article presents a revised description of the genus *Allophyllum* and uses the section *Kelloggia* (Mason & A. Grant) A. Day & V. Grant, formerly a section of *Gilia*, to distinguish these species from the previous species of *Allophyllum*, which are now in section *Allophyllum*. *Allophyllum* section *Allophyllum* includes the two Butte County species *A. divaricatum* and *A. integrifolium*.

The authors also include a discussion of the history of the genus *Gilia*, pointing out that "at the turn of the last century the genus *Gilia* was a collection of distantly related subgroups, many of which were closer to other genera than they were to the core sections of *Gilia*." They review the process of removal of these distantly related species to more appropriate genera by various authors over the years, to the point where now they can say "*Gilia* is now more natural than it has been in the past." They also include a detailed discussion of recent proposals to split yet more genera out of *Gilia*, saying that "the splitting off of subgroups as segregate genera can go too far." I won't go into detail on this rather intricate subject, but it makes interesting reading for those of us fascinated by the fine details of plant systematics.

Continued from page 1 Message from the Board

of the Biological Sciences Herbarium. She retired from the Board of Directors last May. Tom Griggs has stepped in to fill the vacancy on the Board. Tom is an Adjunct Professor here at CSU, Chico, where he is involved in various ecological studies and research.

LJ

LJ

EXTRA OR UNWANTED JOURNALS?

Do you have any taxonomic journals or floras that you no longer want? Donate them to the herbarium! If the herbarium doesn't already have what you donate, we will keep them for use in the herbarium. If we do already have the items, we will offer them to other herbaria in trade for herbarium specimens or other journals.

Since my last appeal for your extra journals and floras (June 1998), the herbarium has received several shipments of specimens in trade for our extra journals:

- University of South Carolina Herbarium has mailed 719 of the 1000 specimens they offered in trade for eight volumes of the journal *Taxon*
- West Virginia University Herbarium and the Southern Appalachian Botanical Club have participated in two trades: 1) 150 specimens in trade for 18 issues (most of two volumes) of *American Journal of Botany* and the first edition of *Weeden Sierra Nevada Flora*, and 2) 204 specimens for 11 more issues of *American Journal of Botany*, *Flora of the State of Washington* (1906), *Flora of Utah and Nevada* (1925), and *Flora of New Mexico* (1925)
- Colorado State University Herbarium sent 55 specimens in exchange for nine volumes of *The Four Seasons*, and miscellaneous issues of *Wasmann Journal of Biology*, *Mentzelia*, *The Changing Seasons*, and *Leaflets of Western Botany*
- Herbario Nacional de Bolivia sent 40 specimens in trade for two issues of *American Journal of Botany* and two issues of *Restoration and Management Notes*. LJ

SOME LOCAL SPECIES OF SENECIO TREATED AS PACKERA

The recent return to the Biological Sciences Herbarium of a loan of herbarium specimens and a recent article by Debra K. Trock and Theodore M. Barkley of the Kansas State University Herbarium (Dr. Trock is now at the Botanical Research Institute of Texas, in Fort Worth) indicate that two of our Butte County species and several other northern California species of *Senecio* will be treated as species of *Packera* when the treatment of Asteraceae is published in the *Flora North America* series. The returned loan (from Dr. Trock) included all of our collections of the species to be treated as *Packera*, and all of these specimens were returned neatly annotated as species of *Packera*. The article ("Seven new nomenclatural combinations and a new name in *Packera* (Asteraceae: Senecioneae)" *Sida* 18:385-387. 1998) mentioned the "preparation of the

Flora of North America
Packera eurycephala (T. & G.) Weber & Löve var. *eurycephala*
 Det. by D.K. Trock 1998
Herbarium, Kansas State University
Manhattan, Kansas

treatment of *Packera* for the *Flora North America* project."

In addition, the article notes that the epithet *cymbalarioides*, as in *Senecio cymbalarioides* H.W. Buek (apparently not J.N. Buek as in *The Jepson Manual*), which occurs in Butte County, could not be transferred to *Packera* because the epithet is already in use for another species of *Packera*. The authors proposed the new name *Packera buekii* D.K. Trock & T.M. Barkley for this species. However, after publication of this new name the authors learned that an older epithet previously used for this species, *subnudus*, as in *Senecio subnudus*

DC., should have been used. They didn't realize that this older epithet was available, and indeed required, for this species when placed in *Packera*. Even though the name *Senecio subnudus* DC. is an older name for what we have been calling *S. cymbalarioides* H.W. Buek, that use of the epithet *subnudus* is invalid because an African species has an older claim on the epithet as *Senecio subnudus* DC. Note the same authority name on both uses of the name *S. subnudus* – the author, A.P. de Candolle, used the same epithet for two different species – a mistake! In a follow-up article ("*Packera subnuda* comb. nov., a corrected name for *Packera buekii* (Asteraceae: Senecioneae)" *Sida* 18:635. 1999) the same authors explain the confusion and give us the name *Packera subnuda* (DC.) D.K. Trock & T.M. Barkley to use for the species we have known in Butte County as *Senecio cymbalarioides* H.W. Buek. Complicated? Yes! Read the two articles for the more complete presentation.

◀ The other Butte County species of *Senecio* that will be treated as *Packera* in the *Flora North America* is *S. eurycephalus* Torrey & A. Gray: now *P. eurycephala* (Torr. & A. Gray ex A. Gray) W.A. Weber & A. Löve; plus the subspecies *lewisrosei* (J.T. Howell) T.M. Barkley: now *P. eurycephala* ssp. *lewisrosei* (J.T. Howell) W.A. Weber & A. Löve.

Other northern California species of *Senecio* to be treated as *Packera* include *S. canus* Hook., *S. multilobatus* Torr. & A. Gray ex A. Gray, *S. pauciflorus* Pursh, and *S. streptanthifolius* E. Greene.

However, until we get a sense of what other California systematists think of treating these species of *Senecio* as species of *Packera*, we will maintain them in the herbarium collection as *Senecio*. LJ

Yes! I would like to join!

____ Student.....\$5.00
____ Individual\$10.00
____ Contributing\$25.00
____ Sustaining\$100.00
____ Lifetime\$1,000.00
____ Donation\$ _____

Name _____
Organization _____
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City _____
State _____ Zip Code _____
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E-mail _____

This is a renewal for 1999

Please make your check payable to:
“Friends of the Biological Sciences Herbarium”

Come to the
Annual Meeting
November 6
see page 1 for details

Board Meetings
- meet in the herbarium -
Fridays at 1:30 pm

November 5, 1999 May 5, 2000
February 4, 2000 August 4, 2000

All members are welcome and en-
couraged to attend.
- call to verify meeting -

Friends of the Biological Sciences Herbarium
California State University, Chico
Chico, CA 95929-0515
(530) 898-5381
ADDRESS CORRECTION REQUESTED

**Have you renewed
your membership
for 1999-2000?**

WORKSHOPS
SPONSORED BY THE
FRIENDS OF THE BIOLOGICAL SCIENCES HERBARIUM
CALIFORNIA STATE UNIVERSITY, CHICO

INTRODUCTION TO KEYING CAREX.
November 13, 1999, Saturday.

TO REGISTER FOR WORKSHOPS:

Please make checks payable to:
"Friends of the Biological Sciences Herbarium"

include your name, address, and phone number and mail to:
Friends of the Biological Sciences Herbarium
California State University, Chico
Chico, CA 95929-0515

INTRODUCTION TO KEYING CAREX. November 13, 1999, Saturday.

The genus *Carex* (Cyperaceae) is by far the largest genus in California, with about 135 species in California and more than 1,000 species worldwide! This workshop, led by Lawrence Janeway, is an introduction to keying *Carex* using *The Jepson Manual*. Material of several species of *Carex*, mostly from northern California, will be provided for use by all members of the class keying together, each person with their own specimen; herbarium labels will be provided for those participants who would like to take home their sample material for later reference. Terminology for this notoriously difficult group will be explained and illustrated as it is encountered during the keying process.

Please bring forceps (tweezers – the sharper, the better), dissecting needle, 6" millimeter ruler, and a copy of *The Jepson Manual*.

The workshop will meet on Saturday, November 13, from 9:00 am to 5:00 pm in Holt Hall room 129 at CSU, Chico. The registration fee is \$35.00 (\$25.00 for members). Please register in advance; class size is limited to 16 participants (class cancelled without a minimum of 5 participants). For more information about workshop content, please contact Lawrence Janeway by e-mail at lpjaneway@compuserve.com or by phone-mail at (530) 899-7434. For information about registration or directions, please call the Herbarium at (530) 898-5381.

Watch for more workshops starting next April, including:
Introduction to Plant Identification
Botanical Illustration
Plants of Vernal Pools and Seasonal Wetlands
Liliaceae
Polemoniaceae
Aquatic Plants
Grasses
Flora of Marshes

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At least half of workshop registration fees go to help support the Friends activities on behalf of the Herbarium.

MEMBERSHIP in Friends of the Biological Sciences Herbarium is:

Student \$5.00
Individual.....\$10.00
Contributing.....\$25.00
Sustaining.....\$100.00
Lifetime\$1000.00

Please make checks payable to
"Friends of the Biological Sciences Herbarium"
and mail to:

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Chico, CA 95929-0515