

COLORADO NATIVE PLANT SOCIETY

NEWSLETTER

Volume 10, Number 4

August 1986

"DEDICATED TO THE APPRECIATION AND CONSERVATION OF THE COLORADO FLORA"



MARK YOUR CALENDARS!

The Colorado Native Plant Society Annual Meeting will be held this year on Saturday, October 18, in Fort Collins. Watch for a special mailing with details and registration form. The theme this year will be rare and endangered native plants in honor of the Rare Plant Monograph our Society is publishing early next year. The meeting promises to be an exciting and interesting one, so don't miss it. See you there!

SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6			1	2	3	4	
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30					26	27	28	29	30	31	

CALENDAR

- Aug. 23 Field Identification of Grasses
Workshop: Dr. Janet Wingate
- Aug. 30 Chautauqua Park
Field Trip: Ms Tina Jones
- Sept. 13-14 Lichens and Bryophytes
Field Trip: Dr. William Weber (through the Cloud Ridge Naturalists)
- Sept. 27 The Indian Paintbrushes
Workshop: Dr. Miriam Denham
- Oct. 18 CONPS Annual Meeting, Fort Collins
- Nov. 22 Pteridophyte Identification
Workshop: Mr. Peter Root
- Jan. 17 Parasitic and Saprophytic Plants
Workshop: Dr. Frank Hawksworth
- Feb. 7 Ecology of Wetlands
Workshop: Mr. Steve Dougherty



NAME THE NEWSLETTER CONTEST

It has come to our attention that the name of our newsletter, "Colorado Native Plant Society Newsletter", is a bit drab. Though it certainly states what this little newsletter is that reaches your mail slot every few months, it's not exciting. The new editorial committee, along with the Board, has decided to remedy this situation and have a "Name the Newsletter Contest". The details on how we will make the final decision have not yet been made, but we'll probably decide by the Annual Meeting in October. So, send us your creations and ideas for names. Send to Peter Root, "Name the Newsletter Contest", 4915 W. 31st Avenue, Denver, CO 80212.

CONPS Workshops

Sat., Aug. 23, 1986
Field Identification of Grasses
Leader: Dr. Janet Wingate

In this workshop participants can study living grass plants in the field. Workshop will be held in the Boulder area. Registration fee: \$8 (members); \$16 (non-members)

Sat., Sept. 27, 1986
The Indian Paintbrushes
Leader: Dr. Miriam Denham

Four allied genera in the Scrophulariaceae will be studied: Castilleja (Indian paintbrushes) plus Orthocarpus, Cordylanthus, and Pedicularis. In Colorado, there are between 25 and 30 species in these four genera. To be held at the Denham residence, so space is very limited. Registration fee: \$8 (members); \$16 (non-members).



Sat., Nov. 22, 1986
Pteridophyte Identification
Leader: Mr. Peter Root

Pteridophytes are the ferns and similar plants which are often called fern allies. The main emphasis of this workshop will be identification of pteridophytes from various parts of the United States. The relationships of the various groups will also be discussed. Participants should have a copy of John Mickel's How the Know the Ferns and Fern Allies. This can be ordered when registering. This workshop will be held at the Denver Botanic Gardens. Registration fee: \$8 (members) \$16 (non-members).

Sat., Jan. 17, 1987
Parasitic and Saprophytic Plants
Leader: Dr. Frank Hawksworth

Parasites like mistletoes and broomrapes derive their nourishment from other living plants. Saprophytes like pinedrops live off decaying plant material in symbiosis with fungi. Dr. Hawksworth, who has published extensively on the mistletoes, will cover these plants plus broomrapes, dodders, and the saprophytic genera in the Orchidaceae and Ericaceae. To be held at the US Forest Service, Fort Collins. Registration fee: \$8 (members); \$16 (non-members).

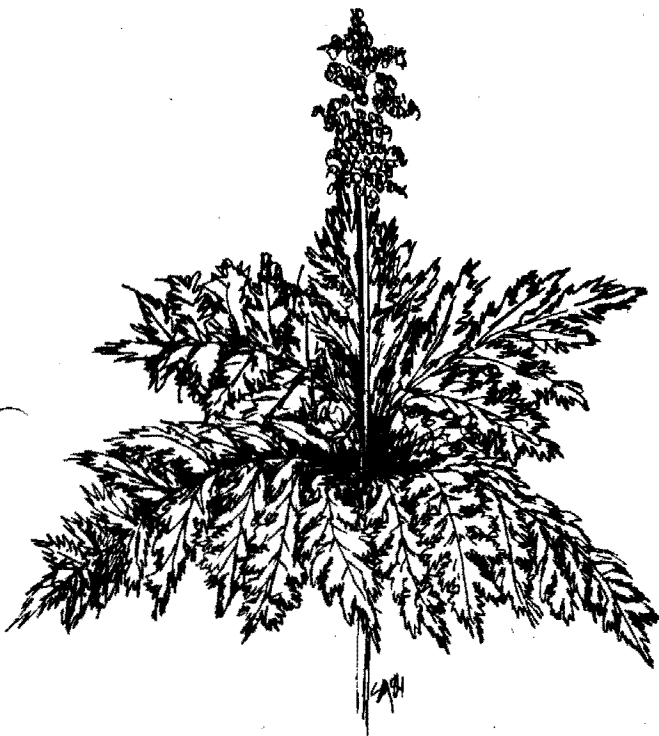
Sat., Feb. 7, 1987
Ecology of Wetlands
Leader: Mr. Steve Dougherty

Wetlands are extremely important for many reasons, not just botanically or zoologically. Steve will explain just what is really meant by the broad term wetland, why they are so vital, and what plant associations are present. To be held at the Denver Botanic Gardens. Registration fee: \$8 (members); \$16 (non-members).

To register, contact CONPS workshop coordinator, Bill Jennings, 360 Martin Drive, Boulder, 80303, 494-5159. Please register promptly as workshops tend to fill up fast. You may pay in advance or at the workshop as you wish. Registrants will be notified by mail about two (2) weeks prior to the workshop regarding final location, time, lunch, suggested references, etc. Be sure to include your mailing address and phone number if you mail in your registration. Cancellations sometimes create openings, so check with Bill a few days before the workshop if you want to try to register at the last minute.

Workshops scheduled for March, April and May 1987 will be announced in later newsletters.

Please let us know how you like the workshops and field trips we plan. We need your suggestions for others as well as your feedback on whether you enjoyed them, found them informative and exciting or dull and nothing new. Send us feedback! We need to know if we are serving you, our members, the way you wish. Thanks.



POACEAE CLASS AT DBG

Janet Wingate will teach a six (6) session class on the Poaceae at the Denver Botanic Gardens, Saturdays, October 11 through November 15 from 1 to 3 pm. The class is oriented to give those with little or no knowledge of grasses an understanding of grass morphology and the skill to identify grasses using botanical keys and guides. For more information, contact the Education Department at DBG, 575-3751.

RARE PLANT MONOGRAPH

Work on the Rare Plant Monograph continues. Publication date is still scheduled for May 1987. Thank you to all who sent in your contributions. We greatly appreciate your show of support in this great endeavor.

But we still need your help. This summer is the last chance for photographing the rare plants for inclusion in the publication. When you're out in the field this August and September, remember to take along the "Endangered Flora Publication" insert from last newsletter and try to find and photograph some of the plants on the list.

We can always use help on the Research Committee and additional donations. The cost of this project will be \$30,000. The Colorado Natural Areas Program is seeking foundation grant monies to help offset this. And CONPS has pledged \$1000 from our treasury and hopes to raise an additional \$1000 from members. If you would like to contribute (a donation of \$25.00 or more entitles you to a complimentary copy of the monograph), send to

"Rare Plant Monograph"
Colorado Native Plant Society
P.O. Box 200
Fort Collins, CO 80522

For more information on how you can help, call Eleanor Von Barga, 756-1400. Thanks.



Denver Chapter September Meeting

The September meeting of the Denver Chapter will be held at the Denver Botanic Gardens House on September 24 at 7:30 pm. The topic will be Castlewood Canyon State Park, an interesting area in the Cherry Creek watershed. The Park is being considered as the location for a plant inventory project by the Chapter.

NEWLY DESCRIBED SPECIES OF INTEREST
TO COLORADO BOTANISTS
1984

This is the third in a series of articles listing species and varieties of plants that are new to

science. Previous articles dealt with the years 1979 to 1983. The current article covers new descriptions published in 1984. This is compiled from a list provided by B. E. Nelson of the Rocky Mountain Herbarium.

1984

Cholewa, A. F. and Henderson, D. M. 1984. Biosystematics of *Sisyrinchium* section *Bermudiana* (Iridaceae) of the Rocky Mountains. *Brittonia* 36(4): 342-363.

Sisyrinchium pallidum Cholewa and Henderson

type loc: 1/2 mile off US 24 on Headquarters Road, Antero Reservoir, Park County, Colorado
range: Park and Larimer Counties, Colorado; Albany County, Wyoming.

Wagner, W. L. and Mill, S. W. 1984. *Oenothera kleinii* (Onagraceae), a new species from South-central Colorado. *Systematic Botany* 9(1): 50-52.

Oenothera kleinii Wagner & Mill

type loc: Below Wolf Creek Pass along US 160, 5.3 miles north of Archuleta County Line, Mineral County, Colorado
range: no other specimens cited.

The type locality has been destroyed by highway construction.

Arp, G. K. 1984. *Opuntia haecockae* (Cactaceae) a new species from central Colorado. *Sida* 10(3): 207-210.

Opuntia haecockae Arp

type loc: South-facing slopes 5.7 miles west of Trout Creek Pass along Highway 24/285, Chaffee County, Colorado
range: Chaffee and Gunnison Counties, southwestern and northwestern Colorado.

Sheviak, C. J. 1984. *Spiranthes diluvialis* (Orchidaceae), a new species from the Western United States. *Brittonia* 36(1): 8-14.

Spiranthes diluvialis Sheviak

type loc: Along Clear Creek just west of Golden, Jefferson County, Colorado
range: Jefferson County, Colorado; Daggett, Garfield, Wayne, Utah, Salt Lake, Weber and Tooele Counties, Utah; Lincoln County, Nevada.

Rollins, R. C.

Contributions from the Gray Herbarium n214 p1-18, 1984

Descurainia ramosissima Rollins

type loc: Saguache County, Colorado, 7 miles south of Villa Grove on State Highway 17
range: no other specimens cited.

Lesquerella congesta Rollins
type loc: Rio Blanco County, Colorado, N. Dudley
Gulch T25N R97W sec 4
range: Rio Blanco County, Colorado.

Physaria repanda Rollins
type loc: Duchesne County, Utah, 22.5 miles
southwest of Duchesne on US 191
range: Duchesne County, Utah.

Physaria saximontana Rollins
type loc: Fremont County, Wyoming, 18.4 miles
southwest of Lander on Wyoming 28
range: Fremont and Converse Counties and
elsewhere in northwestern Wyoming; Lewis
& Clark, Glacier and Park Counties, Mon-
tana.

Physaria stylosa Rollins
type loc: Wasatch County, Utah, west fork of
Duchesne River, 23 miles from Tabiona
range: no other specimens cited.

Rollins describes other new species from Montana, Idaho, and western Utah.

Anderson, L. C. 1984. Chrysothamnus nauseosus ssp. uintahensis:
a stabilized hybrid. Great Basin Naturalist 44(3): 416-420.

Chrysothamnus nauseosus (Pallas) Britton ssp. uintahensis

L.C. Anderson

type loc: Uintah County, Utah, 2 miles east-
northeast of LaPoint

range: Uintah County, Utah, a collection cited
as "15 miles east of Vernal" is only
about 10 miles from Colorado State line.

Other references of interest:

Evert, E. 1984. Madrono 31: 140-143

Penstemon absarokensis (range: northwestern Wyoming)

Evert, E. 1984. Madrono 31: 109-112

Antennaria aromatica (range: northwestern Wyoming; western
Montana)

Cholewa, A. and Henderson, D. 1984. Brittonia 3:59-62

Primula alcalina (range: central Idaho)

Reese, 1984. Brittonia 36: 63-66

Pedicularis contorta var. rubricunda (range: Idaho)

Lichvar, R. W. 1984. Madrono 31: 204-207

Physaria integrifolia var. monticola (range: northwest
Wyoming; eastern Idaho)



Paxistima - Pachistima - Pachystima

Which will it be?

Moras Shubert

On the western slope of the Rockies we find a charming shrub which is a member of the Celastraceae. It belongs to a genus which we have long called Pachystima, but recently I have discovered there is a move by the professional taxonomists to call it "Paxistima". The argument is that the originator of this name, Constantine Samuel Rafinesque, spelled the name that way when the genus was first described by him. So, citing the International Rules of Priority, there is a trend to go back to the original "spelling". I have put spelling in quotations marks because I am convinced Rafinesque did not use the "x" at all! Being perhaps as familiar with Greek as with our more familiar Roman alphabet, if not more so (he was born near Constantinople), he used the Greek "χ" which looks like an "x" in his manuscript.

I do not think the International Rules require that we keep on using the Greek "χ" in the name for this genus which has been Pachystima in the botanical literature for perhaps 100 years.

I have discovered an amusing sidelight on this. My old Grays' Manual* of college days lists the eastern species under the name Pachystima, but in a rare use of Greek characters to show the deri-

vation of the name, it is spelled out in that manner and the translation "thick-stigma" is given. It is known that Gray criticized Rafinesque's work, so I think the use of Greek characters in this case was deliberate attempt to show the slip Rafinesque made.

Each of us should take a stand on this and agree not to mix Greek characters into names written in Roman characters. And we surely do not want to start calling elephants "paxiderms", do we?

* Gray's New Manual of Botany, Seventh Edition, 1908. Rearranged and Revised by Benjamin Lincoln Robison and Merritt Lyndon Fernald.



PESTICIDE NETWORK FORMING

Don't be caught behind the pesticide trucks! Mosquitoes, spruce budworm, Canada thistle and many more insect and plant pests can all be controlled without the use of chemical pesticides. Join the Colorado Pesticide Network and learn how you can encourage your community to use Integrated Pest

Management and hop off the pesticide treadmill. The network is just forming, but plans to start publishing a newsletter with information on what Colorado communities are doing or can do to safely and effectively control pests. Call Angela Medbery (Sierra Club), 433-2608, or Elizabeth Otto (Colorado Environmental Coalition), 393-0466, for more information.

WILD FLOWER GUIDE FOR FLORISSANT

A guide to the wild flowers of Florissant Fossil Beds National Monument is now available to visitors. The new guide is a 3 page leaflet arranged by flower color for identifying 52 mid to late summer flowering plants. A short description of each plant and its habitat is given. Line drawings, done by Dr. Janet Wingate of the Denver Botanic Gardens and the Colorado Native Plant Society, illustrate most of the flowers. A companion brochure of spring and early summer flowers is being planned for the 1987 season.

The guide was written and publication coordinated by Lynn Reidel, Interpretive Naturalist for the National Park Service. Lynn will be remembered by DBG members as a student intern from the University of Colorado several years ago.

The Colorado Native Plant Society provided technical assistance and partial funding for the project and has been involved in a plant inventory of the National Monument during the past four years. This inventory has resulted in finding over 400 species growing there.



Penstemon haydenii

Penstemon haydenii, commonly known as "blowout penstemon", is endemic to Nebraska and is confined to blowout areas in the Nebraska Sandhills. There are approximately 2000 plants in eight naturally occurring populations. One location is on the Graves Ranch near Crescent Lake. This ranch was purchased by The Nature Conservancy to protect the penstemon.

The "blowout penstemon" is the only plant listed as endangered by the State of Nebraska. Plans are being made by the U.S. Fish and Wildlife Service to designate it as

the first Nebraska plant on its endangered species list. It is also one of the rare plants featured by The Center for Plant Conservation.

This penstemon grows in multi-stemmed clumps and averages 16 inches or more in height. It is very showy when in bloom, but difficult to see otherwise. The flowering season is from late May to mid-June. The flowers vary in color from white to pink-lavender and deep blue. The leaves are very long, narrow, and waxy. The rootstock is nearly horizontal with fibrous roots extending out from it helping to anchor the plant in the sand. It is one of only two penstemon species that has a fragrance.

BOOK REVIEWS

The Wildflower Meadow Book: A Gardener's Guide
By Laura C. Martin
Charlotte, NC: East Woods Press
1986 303 pp. \$18.00 hardcover,
\$12.95 paperback

The first part of this book covers all steps of meadow gardening including planning, obtaining seeds and plants, planting the meadow, and maintaining it.

Part two divides the country into seven geographic areas and discusses suitable flower species; when to plant; noxious weeds; maintenance; soils; problem wildflowers; and includes names and addresses of regional organizations, seed companies and nurseries; and a bibliography of selected reading.

The last part of the book describes 90 species of wildflowers with environmental preference and propagation information. A line drawing is included for each species.

Laura C. Martin is Coordinator of Native Plant Research at the Atlanta Botanical Gardens.

review by Eleanor Von Bargen

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SCHEDULE OF MEMBERSHIP FEES			
Life	\$250.00	Family or Dual	\$12.00
Supporting	50.00	Individual	8.00
Organization	25.00	Student or Senior	4.00

Please direct all other inquiries regarding the Society to the SECRETARY in care of the Society's mailing address.

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NEWSLETTER CONTRIBUTIONS
Please direct all contributions to the newsletter to
Peter Root
4915 West 31st Avenue
Denver, CO 80212

Deadlines for newsletter materials are one month prior to publication dates, which are January 15, March 15, May 15, August 15, and November 15. There is a special need for short filler items such as some unusual information about a plant, a little known botanical term, etc. Please include author's name and address, but items will be printed anonymously if requested.

MEMBERSHIP RENEWALS AND INFORMATION
Please direct all membership applications, renewals and address changes to the MEMBERSHIP chairperson, in care of the Society's mailing address.

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