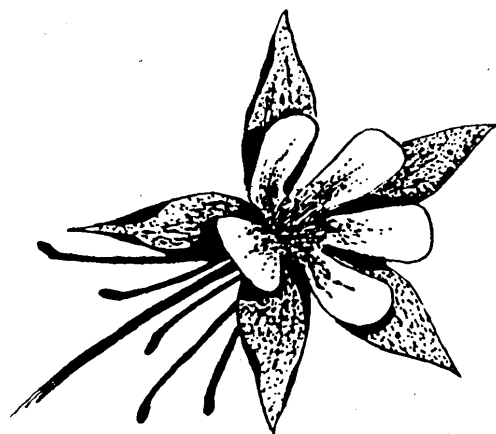


# Aquilegia



Newsletter of the Colorado Native Plant Society

"...dedicated to the appreciation and conservation of the Colorado native flora"

Volume 17 Number 2

April/May/June 1993

## Responsible Landscaping: An Ecological Perspective 1993 Annual Meeting Preview

This year's annual meeting promises to be an exciting one, especially for home gardeners/landscapers who are interested in using (and protecting) native plants. We will explore the topic of responsible landscaping by learning how our home landscaping decisions affect the local (and global) environment.

The Boulder Chapter is co-sponsoring the annual meeting this year along with the City of Boulder's Open Space Department and Mountain Parks Division. We've changed the format a bit; this year we will have a full-day symposium on Saturday, October 23<sup>rd</sup>, followed on Sunday by a buffet-style brunch with keynote address. We'll end with an afternoon of local Boulder field trips. The symposium will be held in the new auditorium at the Boulder Public Library, at 11<sup>th</sup> and Canyon, adjacent to Boulder Creek. Sunday brunch will be served a few blocks away at the Hotel Boulderado.

Symposium presentations will cover a variety of topics, including (tentatively):

- the environmental and horticultural disadvantages of mountain peat as a soil amendment (see *Aquilegia* Vol. 16 No. 4),
- the threats to natural areas from purple loosestrife and other invasive exotics,
- marketing of wild-collected

horticultural plant materials--implications for plant conservation,

- propagation of local native plants for local uses--problems and opportunities,
- butterfly, wildlife, and xeriscape gardening opportunities in home and public landscapes,
- native grasses in landscaping.

We also have a very special treat lined up. Dr. David Northington, executive director of the National Wildflower Research Center, has agreed to give Sunday's keynote address. We have asked him to discuss the very significant evolution in philosophy at the National Wildflower Research Center, a philosophy that has become quite sophisticated with respect to environment, ecology, genetics, conservation, and

aesthetics. Dr. Northington's presentation will provide a philosophical framework for the symposium and will kick off a great day of local field trips.

We plan to use this meeting to begin a dialogue with the nursery and landscaping industry in Colorado. The outcome, we hope, will be a closer relationship between suppliers and "informed" consumers. We believe this event will provide impetus for a year of cooperative work toward drafting a resolution for responsible landscaping in Colorado.

As always, the annual meeting is free for CONPS members. The cost for the brunch and keynote address is \$12.50 per person. Please fill out and mail the pre-registration form on page 9. We are anticipating high attendance at this year's meeting, so register early, and watch for more details in future issues of *Aquilegia*.



### Contents

|                         |     |                                |    |
|-------------------------|-----|--------------------------------|----|
| Golden Gate Field Study | 2   | Annual Meeting                 | 9  |
| Announcements           | 3   | Preregistration                |    |
| 1993 Field Trips        | 4-6 | Hugo A. Ferchau -              | 10 |
| Chapter Activities      | 6   | In Memorium                    |    |
| Field Trip Policy       | 7   | Horticultural Notes            | 11 |
| Discount Publications   | 8   | ( <i>Prunus pensylvanica</i> ) |    |
|                         |     | Calendar                       | 12 |

## Golden Gate Canyon State Park Field Study a Continuing Success

### Stephen Austin

A small group of native plant enthusiasts, eight in number, are venturing out for the third consecutive year to conduct a plant inventory at Golden Gate Canyon State Park. Our goals are to identify the vascular plants growing in the park, add to the park's plant list, and collect representative specimens for herbaria at the park and at the Denver Botanic Gardens.

The project is proceeding under the auspices of the Colorado Native Plant Society, and several team members are CONPS members. The field work provides opportunities for team members to add to their knowledge of the area's wild plants as well as to provide a valuable service to the park.



*Mertensia viridus*  
Artist: Janet Wingate

The 10,000 acre Golden Gate Canyon State Park is located about 13 miles west of Golden and ranges in elevation from 7,400 to 10,400 feet, including upper foothills, montane, and subalpine life zones. Habitats include various forest communities, wet and dry meadows and hillsides, riparian areas and wetlands.

Approximately 370 species were documented in the park during the first two years and from previous informal surveys; more are expected to be found this year. The wide variety of plant species has kept the team continually busy keying plants, collecting herbarium specimens and merely admiring nature's handiwork.

One of our supreme joys was finding nearly three dozen fairy slipper orchids (*Calypso bulbosa*) growing in a thick bed of moss. Another was our discovery of a hummingbird nest, occupied by a parent incubating its tiny eggs. One of the greatest disappointments was our failure to find any wood lilies (*Lilium philadelphicum*), a Colorado species

*continued on page 3*

## Aquilegia



*Aquilegia* is published four to six times per year by the Colorado Native Plant Society. This newsletter is available to members of the Society and to others with an interest in native plants. Contact the Society for subscription information.

Articles from *Aquilegia* may be used by other native plant societies or non-profit groups if fully cited to author and attributed to *Aquilegia*.

The Colorado Native Plant Society is a non-profit organization dedicated to the appreciation and conservation of the Colorado native flora. Membership is open to all with an interest in our native plants, and is composed of plant enthusiasts both professional and non-professional.

Please join us in helping to encourage interest in enjoying and protecting Colorado's native plants. The Society sponsors field trips, workshops and other activities through local chapters and statewide. Contact the Society, a chapter representative, or committee chair for more information.

### Schedule of Membership Fees

|                         |       |
|-------------------------|-------|
| Life .....              | \$250 |
| Supporting .....        | \$ 50 |
| Organization .....      | \$ 30 |
| Family or Dual .....    | \$ 15 |
| Individual .....        | \$ 12 |
| Student or Senior ..... | \$ 8  |

### Membership Renewal/Information

Please direct all membership applications, renewals and address changes to the Membership Chairperson, Colorado Native Plant Society, P.O. Box 200, Fort Collins, CO 80522. Please direct all other inquiries regarding the Society to the Secretary at the same address.

### Newsletter Contributions

Please direct all contributions to the newsletter to:

**Tamara Naumann**  
940 Quinn Street  
Boulder, CO 80303

Short items such as unusual information about a plant, a little known botanical term, etc. are especially welcome. Camera-ready line art or other illustrations are also solicited.

Please include author's name and address, although items will be printed anonymously if requested. Articles submitted on disks (IBM or Mac) are appreciated. Please indicate word processing software and version.

### Officers

|                      |                       |          |
|----------------------|-----------------------|----------|
| President .....      | Carol Dawson .....    | 722-6758 |
| Vice-President ..... | Tamara Naumann .....  | 440-8933 |
| Secretary .....      | Mark Gershman .....   | 443-9365 |
| Treasurer .....      | Myrna Steinkamp ..... | 226-3371 |

### Board of Directors

|                           |                    |          |
|---------------------------|--------------------|----------|
| Jeff Dawson (93) .....    | Denver .....       | 722-6758 |
| Gary Finstad (93) .....   | Denver .....       | 791-3790 |
| Mark Gershman (94) .....  | Boulder .....      | 443-9365 |
| Bill Jennings (93) .....  | Louisville .....   | 666-8348 |
| Tamara Naumann (93) ..... | Boulder .....      | 440-8933 |
| Chris Pague (94) .....    | Lyons .....        | 492-4719 |
| Beth Painter (93) .....   | Fort Collins ..... | 482-9784 |
| Tom Ranker (94) .....     | Boulder .....      | 492-5074 |
| Velma Richards (94) ..... | Englewood .....    | 794-5432 |
| Nina Williams (94) .....  | Gold Hill .....    | 443-8079 |

### Chapter Presidents

|                    |                   |          |
|--------------------|-------------------|----------|
| Boulder .....      | Betsy Neely ..... | 443-8094 |
| Denver-Metro ..... | Ron Abbott .....  | 333-6151 |
| Fort Collins ..... | Mike Scott .....  | 490-1788 |
| Yamparika .....    | Reed Kelley ..... | 878-4666 |
| San Juan .....     | Peggy Lyon .....  | 626-5526 |

### Committees

|                        |                       |          |
|------------------------|-----------------------|----------|
| Conservation .....     | Sally White .....     | 697-5439 |
| Editorial .....        | Tamara Naumann .....  | 440-8933 |
| Education .....        | Gary Finstad .....    | 791-3790 |
| Field Trips .....      | Jeff Dawson .....     | 722-6758 |
| Field Studies .....    | Mary Edwards .....    | 233-8133 |
| Hort/Restoration ..... | Dorothy Udall .....   | 482-9826 |
| Membership .....       | Myrna Steinkamp ..... | 226-3371 |
| Publicity .....        | Julia Carlson .....   | 752-2738 |
| Workshops .....        | Bill Jennings .....   | 666-8348 |

**Golden Gate, con't, from page 2**

of special concern previously reported in the park. Were growing conditions not favorable, or has the species been extirpated from the park?

One surprise was our discovery of tall chiming bells (*Mertensia ciliata*), normally a montane to subalpine inhabitant, growing in the foothills as low as 7,800 feet. The team continues to be amazed by the park's floral diversity.

This year, some lucky member of the group will have the honor of collecting poison ivy (*Toxicodendron rydbergii*) and mountain ball cactus (*Pediocactus rydbergii*)!

Field work began in late April. Anyone interested in working with the team should contact Steve Austin at (303) 722-8084 on weekdays before 10:00 a.m.

**NEW FIELD STUDY OPPORTUNITY**

A group of folks involved with the Audubon bird banding site at Lykins Gulch, north of Boulder, would like to team up with volunteer native plant lovers to conduct a botanical inventory. Boulder County Nature Association has agreed to pay mileage for volunteers to conduct the study. As Steve Austin's report of activities at Golden Gate Canyon State Park indicates, these studies are a great way to improve your plant ID skills and they are fun.

If you are interested in helping, call Craig Williams 823-6685 ext. 121 (o) or 776-7249 (h) or call Virginia Dionigi 776-2609. Mary Edwards, CONPS field studies committee chair, will provide technical advice to the project coordinator.

# Aquilegia

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100% recycled paper

**JEFFCO NEEDS HELP WITH  
PESTICIDE USE POLICY**

Now is your chance to help formulate a responsible approach to pesticide use. Jefferson County is looking for people interested in serving on the Citizens' Advisory Committee to help formulate a Pesticide Use Policy for Jefferson County. Jefferson County residents are preferred. An enlightened policy can protect native plants from herbicide damage. If you are interested, contact Jim Lile at 271-5989.



*Hymenoxys acaulis*  
Artist: Janet Wingate

**CHALLENGING VOLUNTEER  
OPPORTUNITY**

The Colorado Native Plant Society is looking for a new workshop committee chair. After planning and coordinating 100 workshops, Bill Jennings, who IS the workshop committee, announced his retirement at the CONPS board meeting on March 13th. We all agree that Bill has done a truly outstanding job building the CONPS workshop program. We have all had many opportunities to enhance our understanding and appreciation of Colorado's native flora thanks to Bill's hard work and dedication. Many thanks, Bill, for a job well done!

Now...all of the work of the Society gets done by volunteer members. If you have some good organizational and planning skills, how about putting them to work as the new workshop committee chair? It's a great program--one we'd all like to see continue. If you think you'd like to take on the challenge, contact CONPS president, Carol Dawson (303-722-6758) or Bill Jennings (303-666-8348). Go for it!

# ANNOUNCEMENTS

*Hymenoxys grandiflorum*  
Artist: Janet Wingate

**VOLUNTEERS NEEDED  
FOR EUTREMA SURVEY**

The U.S. Fish and Wildlife Service is looking for a few dedicated souls to search the tundra of the Ten Mile Range in July for new populations of the rare Penland alpine fen mustard (*Eutrema penlandii*). The species is known only from wetlands in the tundra of the adjacent Mosquito Range. Confirming the presence or absence of *E. penlandii* in the Ten Mile Range will assist the Service in making recommendations for the conservation of this species, which has been proposed for federal listing as threatened. For more information, please call Lucy Jordan, U.S.F.W.S botanist in Grand Junction, at (303) 243-2778.



*Draba streptocarpa*  
Artist: Janet Wingate

**NATIVE PLANT SEED  
EXCHANGE**

If you are interested in receiving a list of native plant seeds that are available for exchange, or if you are interested in collecting seeds for exchange, contact:

Craig Alseike  
3256 Salem Street  
Aurora, Colorado 80011  
(303) 366-0587.

# FIELD TRIPS - 1993

## ARKANSAS HILLS

**Leader: Janet Coles**

**Meeting Location: Buckskin Joe  
Campground, Royal Gorge Park Rd  
Saturday & Sunday, June 26 & 27,  
1993, 10:00 a.m.**

This two-day trip will follow the footsteps of T.S. Brandegee, Elihu Hall and J.P. Harbour through the mountains which separate the South Platte and Arkansas River drainages. Although the topography is gentle by Colorado standards, we will experience a broad cross-section of the state's environments, thanks to the combined effects of climate and geology.

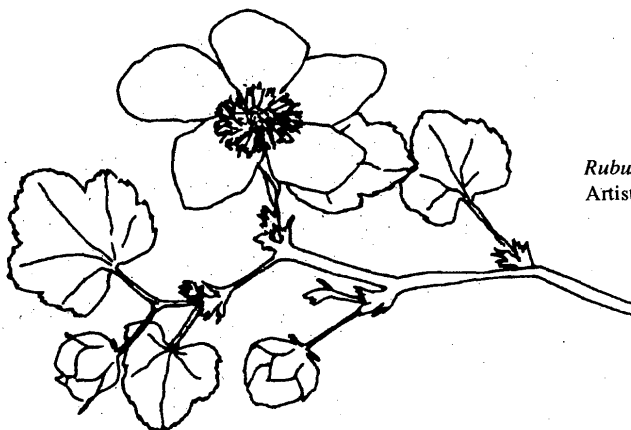
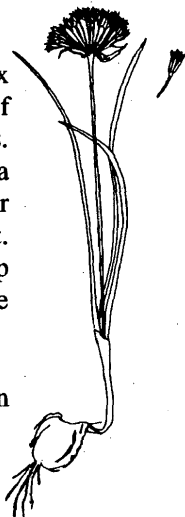
The tour will start in the arid granitic canyon of the Arkansas River, where we may see the endemic species *Penstemon degeneri* and *Mentzelia densa*. We will then head north into the little-explored southern reaches of South Park, where a the higher elevation and a mix of volcanic and sedimentary rocks contribute to a rich variety of grassland and woodland plant communities unique to this part of the state.

Meet at the Buckskin Joe parking lot at 10:00 a.m. on Saturday. Buckskin Joe is on the Royal Gorge Park road, one mile south of the turnoff from U.S. Highway 50. We will return to the parking area by 5:30 p.m. Sunday.

The trip will be limited to six cars, due to the lack of roadside parking at the stops. We will car camp at a primitive site (no tables or toilets) on Saturday night. Details of the trip and a map of the route will be available to registrants.

To register, call Jeff Dawson  
at 722-6758 (h) or  
740-2793 (o).

*Allium textile*  
Artist: Ann Cooper



*Rubus deliciosus*  
Artist: Ann Cooper

## MISHAK LAKES SAGUACHE COUNTY, SAN LUIS VALLEY, COLORADO

**Leaders: Betsy Neely and Alan Carpenter**  
**Meeting Location: Moffat Post Office, State Hwy 17**  
**Saturday, July 3, 1993, 9:00 a.m.**

We will spend the day botanizing (developing a plant list and collecting plants) in the Mishak Lakes area, the largest and best known example of a natural playa lake system in the San Luis Valley, and possibly in Colorado. Mishak Lakes represents an important type of shallow wetland system that once was common in the San Luis Valley and elsewhere in Colorado, notably in the Great Plains. The U.S. Fish and Wildlife Service estimates that over 50% of Colorado's wetlands have disappeared over the last two centuries. Most wetland complexes in the San Luis Valley have been severely modified, intensively manipulated for waterfowl production, or completely destroyed. Yet Mishak Lakes remains a naturally functioning shallow wetland system, with potential for providing an important reference area for research. The area is nearly free of invasive weedy species, and has experienced only minor human disturbance.

We'll see the slender spiderflower (*Cleome multicaulis*). This diminutive wetland annual was once known as far south as Mexico City, but has disappeared over most of its range. Plant communities include greasewood/saltgrass shrublands and saltgrass grasslands. The playas and surrounding uplands support a mosaic of other plant communities, including cold desert shrublands dominated by rabbitbrush and blue grama, herbaceous emergent wetlands dominated by wiregrass and spikerush, and submergent playa wetland and aquatic associations. We'll look for the San Luis Valley Sand Hills Skipper, Wilson's phalarope, American avocets, and other wildlife that depend on these important and threatened shallow wetland systems.

Bring a flora, lunch, water, raingear, sunscreen, waterproof boots or "mudshoes," and bug repellent. The road into the site can be very slippery when wet. A four-wheel-drive vehicle is helpful. We'll carpool from Moffat. In the afternoon, we'll head over to the Crestone area and camp at the North Crestone Creek Campground (they don't take reservations, but we'll try to get there early to reserve space). Camping is also available at the Baca Grande RV Park (719-256-4171). On Sunday (July 4<sup>th</sup>), we'll head to Great Sand Dunes National Monument to explore the dunes and wade in the creek to cool off.

To register, call Jeff Dawson at 722-6758 (h) or 740-2793 (o). Trip limit is 20 people.

# FIELD TRIPS - 1993

## MOUNT EVANS (ARE PLANTS UP THAT HIGH?)

**Leader: Dr. Bettie Willard**

**Meeting Location: U.S. Forest Service Information Station, Chicago Creek Road  
Saturday, July 10, 1993, 6:30 a.m.**

Explore a high Rocky Mountain summit to see if there is anything up there but rock. Could anything live in all that snow, wind, rock, and cold? Spend a day with Bettie Willard, one of the foremost scholars of North American alpine plants, as she reveals the secrets of plant survival on one of Colorado's highest mountain summits.

Assemble at 6:30 a.m. at the U.S. Forest Service Information Station on the Chicago Creek Road, just south of I-70 at the second Idaho Springs exit. We'll carpool from there. Anyone coming from Evergreen can meet us at Echo Lake parking area for the lodge; please let us know when you register if you plan to do so.

Bring lunch, water, sunscreen, sunglasses, wind/rain gear, and **LOTS** of warm clothing. You may also want to bring Willard and Smithson's *Alpine Wildflowers*, and W.A. Weber's *Colorado Flora: Eastern Slope*.

To register, call Jeff Dawson at 722-6758 (h) or 740-2793 (o).

*Trifolium nanum*  
Artist: Janet Wingate



## HALE PONDS - BONNIE PRAIRIE

**Leader: Dr. Miriam Denham and Rick Brune**

**Meeting Location: to be announced  
Saturday & Sunday, July 17 & 18, 1993**

Aquatic plants of the prairie are the focus of this trip. Of special interest is *Wolffia*, a floating aquatic purported to be the world's smallest flowering plant. We will also visit the State Natural Area at Bonnie Reservoir where we will see one of the last remaining occurrences of a little bluestem loess prairie in Colorado. This site harbors *Botrychium campestre*, discovered by Peter Root with the help of a research grant from CONPS. The moonwort will probably be dormant at this time, but who knows? The area around Bonnie Reservoir also offers the possibility of finding eastern prairie species that just make it into Colorado.

To register, call Rick Brune at (303) 238-5078. Details, including meeting time and place, a map and directions, and a list of items to bring will be provided to trip registrants.

## YAMPA RIVER RIPARIAN ECOLOGY

**Leader: Holly Richter**

**Meeting Location: Yampa River Preserve, Hayden, Colorado  
Saturday, July 31, 1993, 10:00 a.m.**

**Optional Volunteer Work Day: Sunday, August 1, 1993, 9:00 a.m.**

Join Colorado State University graduate student Holly Richter along the Yampa River to hear about current research efforts being conducted at The Nature Conservancy's Yampa River Preserve. The Yampa River supports one of the finest examples of native boxelder-narrowleaf cottonwood/red-osier dogwood riparian plant communities remaining in Colorado. Current protection efforts are aimed at preserving remnants of this relatively uncommon riparian forest type. The extent of these forests prior to Euro-american settlement was much greater. Learn how ecologists are unraveling the mysteries of how natural biotic, hydrologic, and geomorphic processes influence(d) these communities and how this knowledge may be used in management and restoration decisions.

From Steamboat Springs, take U.S. Highway 40 west approximately 18 miles, past the former townsite of Mt. Harris. A mile or two west of Mt. Harris, the highway crosses over the Yampa River. Meet at the paved pull-out area immediately west of the bridge on the south side of the road. The field trip will begin at 10:00 a.m. on Saturday. We'll take a leisurely stroll (1-2 miles) around the preserve. After lunch we will visit a second nearby location where the river meanders across a broad, flat valley.

Bring lunch, comfortable walking shoes, and mosquito repellent.

On Sunday, a volunteer work day is scheduled for anyone who would like to get first-hand experience with the research efforts presently underway. Specifically, volunteers are needed to help excavate partially buried cottonwood trees so that tree ages and sedimentation rates can be estimated. Volunteers should bring shovels, gloves, and durable work clothes. We'll begin at 9:00 a.m. and work for as long (or short) as energy and interest allows!

To register and learn of nearest camping areas, call Jeff Dawson at 722-6758 (h) or 740-2793 (o). Please indicate your interest in the field trip and/or the volunteer work day. The field trip is limited to 15 people. Lodging is available in Steamboat Springs or Hayden.

## FIELD TRIPS - 1993

### SUMMIT LAKE and MOUNT GOLIATH (EXPLORING A PLANT REFUGE AND OTHER BOTANICAL WONDERS)

**Leader: Dr. Bettie Willard**

**Meeting Location: U.S. Forest Service Information Station,  
Chicago Creek Road**

**Sunday, August 29, 1993, 7:00 a.m.**

Are any alpine plants blooming in late August? Come and explore the Summit Lake area and Mount Goliath to see what is happening at the end of the flower season. This is a late season follow-up to Bettie Willard's Mount Evans trip. If you missed the first one, or if you want to continue your alpine explorations with Dr. Willard, take this opportunity.

Assemble at 7:00 a.m. at the U.S. Forest Service Information Station on the Chicago Creek Road, just south of I-70 at the second Idaho Springs exit. We'll carpool from there. Anyone coming from Evergreen can meet us at Echo Lake parking area for the lodge; please let us know when you register if you plan to do so.

Bring lunch, water, sunscreen, sunglasses, wind/rain gear, and LOTS of warm clothing. You may also want to bring Willard and Smithson's *Alpine Wildflowers*, and W.A. Weber's *Colorado Flora: Eastern Slope*.

To register, call Jeff Dawson at 722-6758 (h) or 740-2793 (o).

### KEN-CARYL RANCH SOIL-PLANT RELATIONSHIPS

**Leader: Gary Finstad**

**Meeting Location: to be announced  
Saturday, September 11, 1993**

The Ken-Caryl Ranch environs will be the setting for a somewhat different (but fun!) CONPS field trip. We'll examine local soils and discuss how they formed, how they differ from each other, and what implications this has for anyone wishing to tend a garden, design a landscape, build airports or highways, or practice agriculture.

We'll discuss the natural history of the area to help us understand the interrelated soil-forming factors that contribute to soil genesis. Factors including parent material, topographic relief, climate, living (or once living) organisms, and age will be discussed. Native plant communities influence, and are influenced by, soil genesis. We'll examine native plant communities that persist in this very interesting area where mountains erupt from the plains.

Details haven't been worked out yet, but possible hiking routes will be on relatively gentle slopes between 5800 and 6200 feet in elevation. Weather is typically comfortable in September, but come prepared for cold and rain. Trip details, including meeting location and starting time will be provided to registrants.

To register, call Gary Finstad at 236-2702 (o) or 791-3790 (h), or call Jeff Dawson at 722-6758 (h) or 740-2793 (o).

## Chapter News

### Boulder Chapter

#### June 17: Plant Identification for Beginners

Miriam Denham will share her extraordinary talents and advice to folks struggling with keys and plant identification. Meet at 5:30 p.m. at the Beech Shelter at the junction of Foothills Hwy. and Neva Rd. Bring a sack dinner, water, 2-3 flowers to key, Weber's *Rocky Mountain Flora* or *Colorado Flora: Eastern Slope* and a hand lens.

#### July 27: Tallgrass Prairie Natural Area

Join David Buckner for a tour of one of the rarest ecosystems in the Colorado. Meet at 5:00 p.m. at the old Open Space Operations Center, 1405 S. Foothills Hwy. Bring a sack dinner, water and a copy of *Colorado Flora: Eastern Slope*.

#### August 4: *Spiranthes* count

Come learn about the ecology of *Spiranthes diluvialis* (Ute ladies' tresses orchid) and help Nina Williams with the annual census of this threatened species. Meet at 5:00 p.m. at the new Open Space Operations Center, 66 S. Cherryvale Rd. (1/8 mile south of S. Boulder Rd.) Bring a sack dinner, water, and rubber boots or old sneakers.

#### August 19: Boulder Wetlands

Mark Gershman will lead a tour of some of Boulder's finest natural wetlands. Meet at 5:30 pm on 57th St., just south of Valmont Rd. by the lake to carpool. Bring a sack dinner, water, a copy of *Colorado Flora: Eastern Slope*, and rubber boots or old sneakers.

For more information about these field trips, call Betsy Neely at 443-8094.



*Pentaphylloides floribunda*  
Artist: Janet Wingate



# CONPS Field Trip Policy

The Society wishes to remind field trip participants of the guidelines for participation in Society trips. By joining a CONPS field trip you indicate acceptance of these policies.

## 1. Plant collecting is forbidden on CONPS field trips, with two exceptions:

(1) Collecting is permissible for scientific study (with the appropriate collecting permit, if one is required for the area in question).

"Scientific study" means, for the purposes of this policy, study by a trained botanical scientist with an expectation that the study results will lead to published information; collected specimens will be deposited in a recognized, publicly-accessible herbarium.

(2) A trip leader or other person whose responsibility is to instruct trip participants may collect plants for immediate demonstration, explanation, or keying for full identification.

Such collecting should be done inconspicuously (so that persons not with the trip group are not offended or motivated to do likewise), and with reasoned regard for any possible effect on the plant population. However, collecting of rare, threatened, endangered or sensitive species should never be done for instructional purposes.

## 2. Rides and Cost-Sharing Policy: Car-pooling and ride-sharing are encouraged on CONPS trips. All drivers who provide rides to others will graciously accept payment from passengers according to the following scale:

- 1 passenger (in addition to driver) 5 cents per mile
- 2 passengers 4 cents per mile
- 3 passengers 3 cents per mile
- 4 passengers 2 cents per mile

Passengers should pay the driver at the conclusion of the trip, without being asked.

## 3. No pets are permitted on CONPS field trips.

Pets trample plants, disturb wildlife, and annoy other trip participants. If pets must be brought along (although this is strongly discouraged), they must remain in or restrained to the owner's vehicle (i.e. walking about on a leash is NOT acceptable).

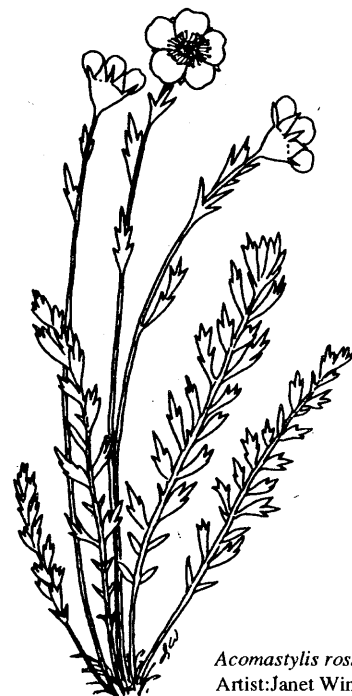
## 4. Field trips are designed primarily for adults, unless the trip description specifically states otherwise.

Parents should consider the appropriateness of a given trip to a child. If a child is brought, the parent assumes full responsibility for keeping the child under strict control to prevent his/her damaging or disturbing the flora or fauna, or becoming a burden to the group. No child unaccompanied by a parent is permitted.

## 5. CONPS's expressed purpose is to promote appreciation and preservation of our flora. Use it lightly.

Take care not to damage the very features you have come to see and enjoy. Take photographs, make sketches, or use other means of recording the plants you see, but do not pick plants or plant parts.

Field trip participants must sign a waiver of liability protecting the Society, its members and trip leaders.



*Acomastylis rossii*  
Artist: Janet Wingate



*Gentiana algida*  
Artist: Janet Wingate



# FOR YOUR LIBRARY

CONPS is pleased to provide a selection of books to members at discount prices. If you are interested in any of the publications listed below, contact:

Velma Richards  
3125 W. Monmouth  
Englewood, CO 80110  
(303) 794-5432

Make checks payable to CONPS. Add \$2.00 to the prices listed for postage and handling. Books are also available for pick-up in Denver (Velma Richards), Boulder (Tamara Naumann), Fort Collins (Myrna Steinkamp), and Meeker (Reed Kelley) if you want to save the postage charges.

Alpine Wildflowers of the Rocky Mountains \$ 9.50  
J.F. Duft & R.K. Moseley

Catalogue of the Colorado Flora: \$25.00  
a Biodiversity Baseline  
W.A. Weber & R.C. Wittman

Colorado Flora: Eastern Slope \$21.00  
W.A. Weber

Colorado Flora: Western Slope \$21.00  
W.A. Weber

Colorado's Wetland Ecosystems \$ .40  
CONPS

Handbook of Rocky Mountain Plants \$16.00  
R.A. Nelson (revised by R. Williams)

How to Identify Plants \$ 8.00  
H.D. Harrington & L.W. Durrell

How to Know the Ferns and Fern Allies \$16.00  
J.T. Mickel

Intermountain Flora: Vascular Plants of the Intermountain  
West, U.S.A.  
A. Cronquist, *et al.*

Volume One: Geological and Botanical History \$29.60  
of the Region, its Plant Geography and a  
Glossary. The Vascular Cryptogams and  
the Gymnosperms.

Volume Three, Part B: Fabales by R.C. Barneby \$51.70

Volume Four: Subclass Asteridae \$66.15  
(except Asterales)

The Jepson Manual: Higher Plants of California \$ ?  
Edited by Hickman (this one should be available soon)

Meet the Natives, Ninth Edition \$10.50  
M.W. Pesman

The Prairie Garden: a Guide to Creating a \$ 3.00  
Shortgrass Prairie Garden  
R. Brune

Rare Plants of Colorado \$ 8.25  
CONPS

Rocky Mountain Flower Finder \$ 2.50  
J.L. Wingate

Sagebrush Country: a Wildflower Sanctuary \$ 9.50  
R.J. Taylor

The Shortgrass Prairie \$12.00  
R.C. Cushman & S.R. Jones

Flora of the Great Plains \$35.00  
Great Plains Flora Association (available soon)

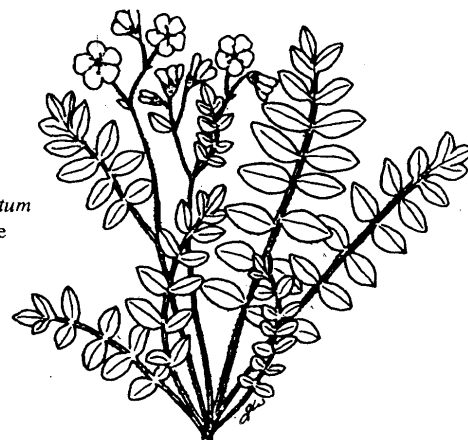
A Utah Flora \$37.00  
S.L. Welsh, N.D. Atwood, L.C. Higgins, & S. Goodrich  
(available soon)

Weeds of the West \$17.00  
T.D. Whitson, Editor

The Gardener's Guide to Plant Conservation \$10.00  
Nina T. Marshall (Published by World Wildlife  
Fund & The Garden Club of America)

Wildflowers of the Western Plains \$12.00  
Z.M. Kirkpatrick

*Polemonium dalicatum*  
Artist: Janet Wingate



**RESPONSIBLE LANDSCAPING: AN ECOLOGICAL PERSPECTIVE  
ANNUAL MEETING OF THE COLORADO NATIVE PLANT SOCIETY - 1993**

Due to anticipated high attendance, limited seating capacity, and our desire to accomodate Society members first, we are asking people to pre-register for this year's meeting. Please indicate if you will be attending Saturday's and/or Sunday's activities (a description of this year's activities appears on page 1). If you have (or need) housing, please fill out the housing form at the bottom of this page. See reverse (page 10) for mailing and payment instructions.

## SYMPOSIUM REGISTRATION

**Saturday, October 23 - Boulder Public Library Auditorium**

**Please indicate number of people registering in each category:**

|   |                |
|---|----------------|
| _____ Society member(s) - free                                    | \$ <u>0.00</u> |
| _____ Non-member(s) @ \$8.00                                      | \$ _____       |
| _____ Non-member student(s) @ \$4.00                              | \$ _____       |
| _____ Join the Society, symposium free @ \$12.00                  | \$ _____       |
| (Include your name & address with 9-digit zip for new membership) |                |

**SUB TOTAL**      \$ \_\_\_\_\_

## BRUNCH AND KEYNOTE ADDRESS

**Sunday, October 24 - Hotel Boulderado**

We are honored to have Dr. David Northington, Executive Director of the National Wildflower Research Center, as our keynote speaker.

**Please indicate number of people attending:**

|  |          |
|--|----------|
| _____ attending buffet-style brunch and keynote<br>(members and non-members) @ \$12.50 | \$ _____ |
|--|----------|

**TOTAL ENCLOSED**      \$ \_\_\_\_\_  
Make Checks payable to CONPS

## HOUSING EXCHANGE

**NAME(S):** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**PHONE:** \_\_\_\_\_

If you or someone you know has a place for out-of-town members to stay **OR** if you are in need of a place to stay during the meeting, please indicate below.

\_\_\_\_\_ **YES! I have** a place for \_\_\_\_\_ guest(s) to stay on Friday/Saturday. Please circle one or both night(s). Will guests need a sleeping bag? \_\_\_\_\_

\_\_\_\_\_ **YES! I need** a place for \_\_\_\_\_ person(s) to stay on Friday/Saturday. Please circle one or both night(s).

**Mailing and payment instructions:**

Cut along the dotted line on the back of this page to use this handy envelope-saving mailer.

Fold in thirds and **tape the edges** so your check does not fall out.

Please include a check (if applicable) made payable to: COLORADO NATIVE PLANT SOCIETY.

**Be sure to include your full name and return address** in the upper left-hand corner of the address panel on the mailer.

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Fold Second and Tape Edges



## Hugo A. Ferchau - In Memorium

**William A. Weber**  
University of Colorado Museum

Colorado has lost one of its most dedicated plant ecologists and teachers with the recent death from pancreatic cancer, on March 31<sup>st</sup>, of Hugo Ferchau, professor at Western State College at Gunnison for 31 years. Only a year ago he told me he was experiencing a remission and looked forward to many more years of activity. I had the privilege of collaborating with him, revising his herbarium, and teaching short courses from time to time in grasses and sedges to his students. We have so few resident botanists on the western slope that the departure of one of our best creates a great void.

Hugo received his doctorate from Duke University, where he was a student of Henry Oosting, one of the great American plant ecologists. He received his bachelor's degree from William and Mary, and his master's from Washington State.

He was first and foremost a field man, and he directed his students in field techniques. One of his special interests was the reclamation of high altitude mining sites. The dynamic changes in the ecology of the Gunnison Basin gave him many opportunities to support his graduate students through environmental assessment projects. Hugo did not simply supervise his students' projects; he worked with them in the field and gave them a great deal of himself. Thirty of these students returned to Western State on the occasion of Hugo's retirement to present reports on their current research. He was a great fellow to be with and he enjoyed his students, his family, and was in love with the Gunnison Basin. In retirement, he built a house at Powderhorn where he could continue his work; unfortunately, he was not given the time.

Hugo's expertise and his ability to establish rapport with applied scientists got him appointments to the Governor's Environmental Commission and to advisory boards for the State of Colorado, the U.S. Forest Service, the Bureau of Land Management, the Colorado Mountain Trails

Foundation, the Soil Conservation Service, and the Nature Conservancy. Western State College honored him as the first holder of the Thornton Chair in Biology, and by establishing the Hugo A. Ferchau Greenhouse in the Thornton Gardens on the campus.

Teaching at institutions west of the Continental Divide is likely to be very lonesome at times, working far away from the intellectual stimulation of one's colleagues. Hugo never let himself become

insular or parochial, but stayed alive with the literature and with new advances in his field. He said, "I've had a great career at Western State. Given the chance, I'd do little different. I've always enjoyed doing what had to be done, I'm thankful to be able to say that." He taught a generation of students to know and love plants and to deal with them in life. His dedication to restoration and conservation of ecosystems deserves a salute from the Colorado Native Plant Society, and our very best wishes to Mary Ellen and the children he leaves behind.



## HORTICULTURAL NOTES

### ***Prunus pensylvanica* (pin cherry, bird cherry, wild red cherry, fire cherry) cultivars and varieties** **Jim Borland**

While the horticultural use of many Colorado native plants has languished because they are unfamiliar to the nursery industry and to the public, it is difficult to think of one good reason why this one has languished so long; it is found within a 30-minute drive of all the major nurseries along the Front Range. Nonetheless, it has been ignored, but not by horticulturists elsewhere.

#### **CULTIVAR**

'Jumping Pound'

'Mary Liss'

'Stockton'

#### **NOTABLE DISTINGUISHING CHARACTERISTICS**

Small weeping form, fruit tasty, not as large as 'Mary Liss'

Small tree, fruits bright red, three times the size of the native species, tastes like sour cherry

Double-flowered, compact form

At one time this species, which can attain a height of 30 to 40 feet, was split into botanical varieties or forms which included the variety *saximontana*. This name was used to designate the shrubby or diminished stature form, or variety, whose leaves were notably less pointed and whose flower umbels or corymbs contained fewer flowers. The same varietal name was once assigned to all, or most, of the wild plants found in Colorado. Although it described a woody plant whose habit still exists in nature, it no longer possesses any botanical standing. While the varietal name *saximontana* is no longer important botanically, the morphological variation implied by the name is important because it indicates that a flowering and fruiting shrub or tree of nearly any size can be made available to the public, through vegetative propagation methods.

Check your local nursery and wonder, as do I, why more of these selections are not offered. When you find the answer, let me know.



*Note: This article is the second in a series. Notes on *Prunus virginiana* appeared in Volume 17, no. 1.*

# CALENDAR OVERVIEW

## 1993 Field Trips

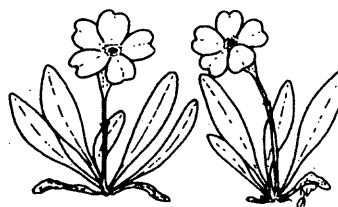
- Jun 26-27**    **Arkansas Hills**  
with Janet Coles
- Jul 3-4**        **Mishak Playa Lakes**  
**San Luis Valley**  
with Betsy Neely & Alan Carpenter
- Jul 10**         **Mount Evans**  
with Bettie Willard
- Jul 17-18**    **Hale Ponds - Bonnie Prairie**  
with Miriam Denham & Rick Brune
- Jul 31-  
Aug 1**         **Yampa River Riparian Areas**  
with Holly Richter
- Aug 29**        **Summit Lake & Mount Goliath**  
with Bettie Willard
- Sep 11**        **Ken-Caryl Ranch**  
with Gary Finstad

## Chapter Meetings

### Boulder Chapter

- Jun 17**        Plant ID for Beginners
- Jul 27**        Colorado Tallgrass Prairie Natural  
Area Field Trip
- Aug 4**         Annual Estimate of Boulder's  
*Spiranthes diluvialis* Population
- Aug 19**       Boulder Wetlands Field Trip

*Primula angustifolia*  
Artist: Janet Wingate



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P.O. Box 200  
Fort Collins, Colorado 80522

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