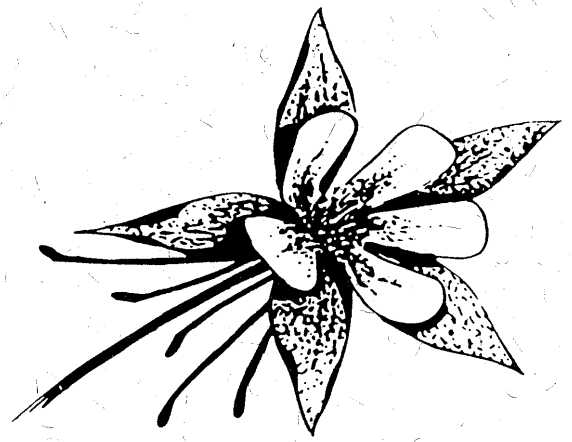


# Aquilegia



Newsletter of the Colorado Native Plant Society

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

Volume 25 Number 3

Field Trip Edition

March-April 2001

## Colorado Native Plant Society Field Trips Field Trip Committee — Gwen Kittel, Chairperson

### CoNPS Board Meeting and Ute Canyon Field Trip May 19-20, 2001

On Saturday, there will be an all day field trip to Ute Canyon in Colorado National Monument that is open to anyone interested in native plants. Meet at 9:00 AM in Grand Junction at the USFS office located at 2777 Cross Road Blvd.; to get there, travel north on Horizon Drive and turn left (west) at the first stop light past I-70. The Board meeting will be held on Sunday at 9:00 AM, also at the USFS office. For more information, contact Bob Clarke at (970) 242-6067.

### Wildflowers on the Edge

Leader: Mark Gershman

Date: May 26, 2001 8:30 AM - 12:00 NOON

Join Mark Gershman for a morning enjoying spring wildflowers at the junction of the Great Plains and Rocky Mountain foothills. We will meet at the Doudy Draw trailhead (1.8 miles west of Hwy 93 on Eldorado Springs Dr.) at 8:30 AM and botanize like fools until returning to the parking lot around noon. This trip is limited to 20 people and participants are strongly urged to carpool as parking is also limited. To register and for carpool and other information, please contact Mark Gershman at (303) 443-9365 or via e-mail at mdg@USWESTmail.net.

### Prairies and Wetlands of Chico Basin and Bohart Ranch

Leaders: Georgia Doyle and Renee Rondeau

Date: June 2, 2001

Come walk the shortgrass prairie, sandsage prairie, seep wetlands, and playas (temporary wetlands) in southeastern El Paso and northeastern Pueblo County. Our day will begin at the 86,000 acre Chico Basin Ranch and proceed north to the TNC-leased Bohart Ranch. Spend a day on the prairie exploring these unique ecosystems and adding to the Chico Basin plant list. This trip is limited to 15 people. To register and for more information, please contact Georgia Doyle at (970) 490-6078 or via e-mail at georgiad@lamar.colostate.edu.

### An Introduction to the Flora of the Rampart Range

Leaders: Leo P. Bruederle and Kevin Fehlberg

Date: June 17, 2001, 8:00 AM - 5:00 PM

The Rampart Range is one of a number of distinct geologic features comprising the Front Range. Although the vegetation is primarily montane, many plant communities are variously well-represented including plains grassland and subalpine forest. We will be considering the geology and natural history of the Ramparts as they relate to its flora. Botanical highlights will include southern Rocky Mountain endemics, such as the waxflower (*Jamesia americana*), relicts, such as the grass fern (*Asplenium septentrionale*), and many other showy wildflowers, such as valarian (*Valeriana capitata*). We will also be on the lookout for species not previously reported from the Ramparts, as well as species of special concern. Meet at the Park-and-Ride located off Santa Fe on Mineral Road and carpool to trailheads. This trip is limited to 15 people. To register and for more information, contact Leo P. Bruederle at (303) 556-3419 or via e-mail at lbruederle@earthlink.net.

### Determining Range Condition, Plus Willow Identification

Leader: Floyd Reed

Date: July 14, 2001 9:00 AM - 5:00 PM

Floyd Reed (Range Management Specialist, USDA Forest Service)

"Field Trips" continues on page 2

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**"Field Trips" continued from page 1**

Supervisor's Office, Delta) will lead this trip. We will take a beginner's look at the difference between riparian areas and uplands, both in good and in poor condition. Help with willow identification will be included. FREE! For registration or more information, contact Gay Austin by e-mail at gaustin7@juno.com or call (970) 641-6264 (h) or (970) 642-4406 (w).

**Grand Mesa Fen Inventory: Kannah Creek Headwaters**

**Leader: Bob Clarke**

**Date: July 15, 2001 9:00 AM**

Beginner's and experts alike are welcome on this all Society trip sponsored by the Plateau Chapter. We will be identifying plants at the Grand Mesa Fen toward development of a species list. No costs are associated with this trip. For more information, please contact Bob Clarke at (970) 242-6067 or via e-mail at rclarke@mesastate.edu

**Crested Butte High Altitude Field Studies**

**Leaders: Joan Ray and Vinnie Rossignol**

**Date: July 21, 2001 8:00 AM**

Look for old Colorado Natural Heritage Program rare plant occurrences in the alpine above Gothic, specific routes to be determined. We will be in search of two Colorado endemics, *Astragalus molybdenus* (Leadville milkvetch) and *Physaria alpina* (alpine bladderpod), as well as other rare plants. These species occur in alpine habitat between 11,000' - 13,000', often on steep slopes. This will be a strenuous field trip with 2000-3000' elevation gains. Access will require a two hour hike on steep terrain, most of which will be off-trail. Come prepared for a long day in the alpine and changeable weather. We will depart from the Chamber of Commerce Visitor's Center of the four-way stop in Crested Butte at 8:00 AM, carpooling to the trailhead (moderate clearance 4WD vehicles preferred). For more information on the species of interest, contact Joan Ray at (303) 444-5011. No costs are associated with this trip but, to register, please contact Vinnie Rossignol at (970) 349-5682 or Gay Austin at (970) 641-6264 or via e-mail at gaustin7@juno.com.

**Grays Peak**

**Leader: Jeff Dawson**

**Date: July 21, 2001 6:00 AM - 4:00 PM**

The Denver Chapter sponsored a trip to Grays Peak last year to look for rare alpine species included in the Colorado Natural Heritage Program database. We found seven species, three that were known to occur there, plus four others. Data were collected for each occurrence and are being provided to the Natural Heritage Program to help them track Colorado's rare flora. The taxa found included four *Draba* species, *Papaver kluanensis*, *Penstemon harbortii*, and *Aquilegia saximontana*. We will return this summer to continue our work. Last year's observations extended to about 12,800 feet; this year, we will try to go higher. We will also try to locate four other rare species that have been found previously on Grays Peak, but which were not observed last summer; we will also look for additional occurrences of the plants we found last year. This will be a physically rigorous trip. The trail head is at an elevation of about 11,500 feet, but we may climb as much as 3,000

feet vertically in about four miles. You should be in excellent physical condition to participate. Because of the likelihood of rain and lightning in the afternoon, we will start from the trailhead at 6:00 AM and end no later than 4:00 PM, weather permitting. Bring lunch, lots of water, rain gear, sun screen, and adequate clothing. This trip is limited to 15 people. To register and for more information, contact Jeff Dawson at (303) 722-6758 or (303) 740-2793.

**Rocky Mountain Willows**

**Leader: Gwen Kittel**

**Date: July 28, 2001 10:00 AM - 2:00 PM**

Come walk in Rocky Mountain National Park and enjoy willows. Learn to identify the common willows, which are easy to learn... once you know what to look for! Come join us for a quick course in willow keying, for which a vegetative key will be provided. We'll start at 10:00 AM and be back at the parking lot by 2:00 PM. This trip is limited to 15 people. Participants will be responsible for the Park entry fee. To register please contact Gwen Kittel at (303) 258-0908 or via e-mail at gkittel@tnc.org.

**Middle St. Vrain Weed Survey Backpack Trip**

**Leader: Pat Butler**

**Dates: August 25-26, 2001**

In partnership with the USFS and Colorado Mountain Club, we will backpack approximately five miles (and about 1500 feet elevation gain) into the Middle St. Vrain Creek drainage in the Indian Peaks Wilderness to monitor and pull five existing stands of Canada thistle (*Brea arvensis*) and look for new infestations. After camping around 10,000 feet, we should have time to hike up to Gibraltar Lake and view the St. Vrain glaciers. On our way back Sunday, we will stop to pull and chop weeds. The worst infestations occur near the parking lot, so anyone interested in meeting the group on Sunday afternoon to help pull thistles is welcome! Come join the fun and help remove this pest from the wilderness. The field trip is limited to 10 people, so register early! To register and receive more information, call Pat Butler at (303) 440-0586.

**Storm Ridge Rare Plant Survey**

**Leader: Larry Sanders**

**Date: September 1 - 3, 2001**

Be a Super Species Sleuth! Help search Storm Ridge for occurrences of *Eriophorum gracile* (bog wool or cottonsedge), which hasn't been recorded since 1964. The Colorado Natural Heritage Program and CoNPS are trying to update rare plant records by locating populations of species that haven't been seen for over ten years. Storm Ridge is in the West Elk Wilderness; getting there takes a one-day backpack from Horse Ranch Park over Beckwith Pass to camp at the Cliff Creek crossing (4-1/2 miles and 1000 feet elevation gain and loss). On Sunday, we'll hike cross-country (at least six miles, with up to 2000 feet of elevation gain) into the basin north of Storm Ridge to survey several lakes and ponds for populations of *E. gracile* and *E. altaicum*. We will return to the trailhead on Monday. This is a joint endeavor between the Colorado Mountain Club and CoNPS, co-sponsored by the Plateau Chapter. Although no costs are associated with this trip, there is a 25 person party size limit in the Wilderness. For more information and to register, call Larry Sanders at (970) 527-3618.

# SOCIETY NEWS AND ANNOUNCEMENTS

## Summary of December 2, 2000 Minutes

**Alice Guthrie, CoNPS Secretary**

The December Board meeting was held at the Longmont Public Library. Denise Culver introduced Georgia Doyle, who will replace her as Society Treasurer at the end of 2000. The Board reviewed the submitted 2001 Budgets which, when complete, Denise will assemble for approval at the January meeting.

President Jill Handwerk thanked Gay Austin on behalf of CoNPS for her efforts finalizing a definition of "native plant." The Board proffered editorial comments, which Gay will incorporate for distribution at the 2001 ProGreen show in Denver. The Plateau Chapter suggested combining a future May Board Meeting on the Western Slope with a raft trip; Gay Austin and Bob Clarke will investigate further.

Two ad hoc funding requests were on the agenda – generating a rare lichen list and supporting a specimen library for a CSU course entitled "Native Plants in the Landscape." Before approving the rare lichen list funding request, the Board requested that Gay Austin and Neil Snow return to the next meeting with more information, including a description of the final product (annotated list of rare lichens), publication venue, and other funding sources (BLM, USFS, etc.). Board member Laurel Potts gave background information on the new CSU course. The Board agreed to write a letter of support, but not to contribute funding. The Board did endorse putting a request in *Aquilegia*, soliciting specimens from members, and putting a list on our webpage.

The Board reviewed committee chairs and assignments (see page seven, this issue). A Research Grants Committee was created to administer the Marr and Steinkamp Funds. Eric Lane will be interim chair, as he is already working on the 2001 Marr Fund request for proposals. The first task for the near future is to prepare background information on the Steinkamp Fund and develop criteria for differentiating funds. The Steinkamp Fund currently includes interest from the Marr Fund as seed money.

Eric Lane distributed a Strategic Plan for Colorado Weed Management from the Colorado Department of Agriculture and asked that CoNPS review it. Jill Handwerk reported that the Society for Range Management has a committee to define "invasive plants" and will contact them to ensure CoNPS representation.

Jill spoke with Will Murray, Chair of the Natural Areas Council, about the status of the Colorado Natural Areas Program and funding options. He will continue inform and advise CoNPS.

## Conserving Colorado's Flora: A 25 Year Retrospective

The 2001 annual meeting will be held 29-30 September 2001 in Fort Collins, where CoNPS began in 1976. To celebrate our 25th anniversary, we will look back at the people, places, and plants that have shaped the Society. Speakers will highlight past, present, and future conservation and educational efforts of CoNPS. Watch for the agenda and registration in an upcoming issue of *Aquilegia*.

## Native Plant Seed and Hay Production Workshop

**April 24, 2001 9:00 AM - 2:30 PM**

**Colleen Archibald** (Native Grass Manager, J. Herbert Stone Nursery) and **Robbie LeBaird** (Cooperative Extension Agent, CSU) will lead this workshop on small-scale production of native plant seed and/or native grass hay (using native seed) for agricultural business opportunities. Topics will be native grass seed production, problem plants, harvesting seed, baling native grasses with seed intact, economics of production, grass identification, and potential species for the Western Slope. The workshop will be held at the Gunnison County Fairgrounds in Gunnison. The cost for this workshop, which is sponsored by the CSU Cooperative Extension, CoNPS, and the USDA Forest Service, is \$10 and includes lunch! For more information and registration, please contact Gay Austin at (970) 642-4406.

## Dr. Gary Nabhan to present CoNPS Workshop Plant/Pollinator "Conserving and Interacting"

**Location:** Colorado State University, Fort Collins, Colorado

**Date:** Saturday, April 7, 2001

First Session: 9:30 - 11:00 AM

Second Session: 1:30 - 3:00 PM

Dr. Gary Paul Nabhan, renowned ethnobotanist and author, is currently Director of the Center for Sustainable Environments at Northern Arizona University. Dr. Nabhan was co-founder and Director of Native Seeds/SEARCH. He is a recipient of a MacArthur Fellowship, and a Pew Scholarship for Conservation and the Environment. He has published numerous technical articles and several books such as *Forgotten Pollinators* (co-authored with Stephen Buchmann) and, most recently, *Coming Home to Eat*. In this mini-workshop, we will explore various aspects of plant-pollinator interactions and the importance of conserving them. Contact Bill Jennings at (303) 665-6903 for **required registration**.

## Reception, Reading, and Book Signing

Following the workshops, there will be a reception, reading from *Coming Home to Eat*, and book signing at the Jade Creek book store located at 123 N. College Ave. in Fort Collins, Colorado. The reception will begin at 6:00 PM, while the reading will be at 7:00 PM. All are welcome to attend.

## Dr. Gary Nabhan to Lecture in Fort Collins

In conjunction with the Colorado State University Provost's Lecture on Environmental Achievement, CoNPS is proud to announce a lecture by Dr. Gary Nabhan to be held at 5:30 PM on Friday, April 6, 2001 in C146 Plant Sciences at CSU. The title of Dr. Nabhan's talk is "Linking Cultural and Biological Diversity in Western North America." Dr. Nabhan will deliver a second lecture entitled "The 250-mile Walk for Sonoran Desert Biodiversity and Native American Health" at 6:00 PM on Monday, April 9, 2001 in the Wagar Building, Room 232, also at CSU. Contact Jill Handwerk at (970) 221-3460 for more information.

# MARR FUND: Reports from Recipients

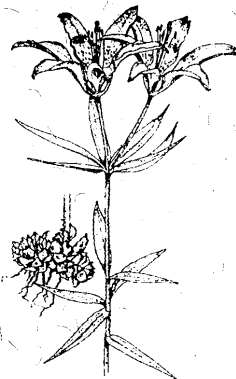
## Floristics of the Upper Los Piños River Drainage: Weminuche Wilderness Area

Lynn Moore

Weminuche Wilderness, located within the San Juan and Rio Grande National Forest, is the largest designated wilderness area in Colorado. It is characterized by its rugged, scenic, and inaccessible nature. This area is laborious to access and, as such, few botanists have adequately documented the flora of the backcountry of this Wilderness. During the 1998 and 1999 field season, an intensive floristic survey was conducted in the upper Los Piños River drainage. Over 1200 specimens were collected, along with detailed ecological and location data. This survey was supported by the John Marr Fund (CoNPS), as well as the Colorado Natural Areas Small Grants Program through funds made available by the Great Outdoors Colorado Trust Fund. A set of specimens will be distributed to the Rocky Mountain Herbarium, University of Colorado Museum Herbarium, Fort Lewis College Herbarium, and San Juan and Rio Grande National Forest.

The study area is relatively small (nearly 72 square miles). It extends from the southern Weminuche boundary, north along the Los Piños River, where it is then defined by the Flint Creek drainage. The northern boundary of the study area is the Continental Divide, while the western ridge of the Lake Creek drainage defines the western boundary. Geologic strata of the area comprise layers of Tertiary (26-30 mybp) San Juan Volcanic Series primarily, including basalts and breccias. Exposed Precambrian (1.4-1.7 mybp) Uncomphagre Formation and Vallecito conglomerate are exposed in the west and south. Basically, three vegetation types are present: montane-mixed conifer, subalpine, and alpine. Smaller assemblages exist as determined by moisture, aspect, or disturbance. These include protected microhabitats, seeps, creeks, and other riparian areas along the Los Piños River. Elevations of sample sites range from 7440 feet along the Los Piños River to 12,600 feet above Half Moon Lake.

A total of 350 species representing 55 families and 179 genera were documented from the Upper Los Piños River Drainage Weminuche Wilderness Area, Hinsdale County (ULPR). This includes two taxa listed as rare or imperiled, including an extensive population of more than 160 wood lilies (*Lilium philadelphicum*, Liliaceae). Reflected moonwort (*Botrychium echo*, Ophioglossaceae) was also documented. The results of the survey increased the documented taxa for Hinsdale County from 234 taxa to 439; 15 species of adventives were collected comprising one percent of the total. Three populations of noxious weeds occur along the Pine River trail, including musk thistle (*Carduus nutans*, Asteraceae), bull thistle (*Cirsium vulgare*, Asteraceae), and yellow toadflax (*Linaria vulgaris*, Scrophulariaceae).



*Lilium philadelphicum*  
Artist: Carolyn Crawford

This study demonstrates how productive a survey like this can be, despite the limited fieldwork and relatively small size of the ULPR. It further reveals the San Juan Mountains to be poorly inventoried. The San Juan Mountains are very large and only through continued floristic research can an accurate accounting of the flora be accomplished.

## ANNOUNCEMENTS

### Catalog of the Colorado Flora Bill Weber and Ron Wittmann

We are pleased to announce that the Catalog of the Colorado Flora is now available on the Internet at:

<http://www.colorado.edu/CUMUSEUM/research/botany/Catalog/Catalog.htm>

This version has the advantage that it is fully searchable and frequently being updated. The printed volume published by the University Press of Colorado is still available, both in hard cover and electronic form.

We are also preparing a revision of the *Bryophyte Flora of Colorado* and will be happy to identify specimens of any Colorado bryophytes for those who are interested. Dr. Weber is also planning to teach a short course at Rocky Mountain National Park in the summer of 2001. And, at long last, we have firm dates for the publication of *Colorado Flora: Eastern Slope* and *Colorado Flora: Western Slope* on June 8 and July 9, 2001, respectively.

### Colorado Natural Heritage Program Selects New Director!!!

#### Joe Stevens, Colorado Natural Heritage Program

The Colorado Natural Heritage Program is welcoming Dr. Boyce Drummond as their new Director. Boyce began his career as a field biologist investigating the role of plant-animal interactions in structuring natural communities of tropical forest ecosystems. His formal training includes a Master's Degree in Zoology from the University of Texas in Austin and a Ph.D. in Ecology from the University of Florida. Since 1984, he has served as Director of the Pikes Peak Research Station, which is located on the private 6,000-acre ranch of the Colorado Outdoor Education Center near Florissant in Teller County. Boyce brings to the Director's position a passion for science, education, and conservation. Combined with his experience in program management, leadership skills, and fundraising capabilities, he is well poised to lead the program to many new successes within Colorado and the network of Natural Heritage Programs.

Please feel free to contact Dr. Drummond by phone at (970) 491-1150, FAX at (970) 491-3349, e-mail at [boyce@lamar.colostate.edu](mailto:boyce@lamar.colostate.edu), or regular mail at:

Colorado Natural Heritage Program  
254 General Services Building  
Fort Collins, CO 80523

# CHAPTER NEWS

## Boulder Chapter

Monthly meetings are held October through April at the Foothills Nature Center, located in Boulder at 4201 North Broadway, opposite its intersection with Sumac Ave. The Chapter meets on the second Wednesday of each month, at 7:00 PM for business, a speaker, book sales, and socializing with refreshments. Please join us at 5:00 PM for supper with our speaker at Efrain's Mexican Restaurant, 1630 N. 63rd St, just north of Arapahoe in Boulder. For more information, contact Chapter President Caryl Shields at (303) 665-6312 or Program Chair Carolyn Crawford (303) 665-6903.

**April 11, 2001 7:00 PM**

### Gardening with Native Plants

**Jim Borland** is co-host of the Gard'n Wise Guys (1430 KEZW AM) and Open Space Coordinator for Genesee Homeowners Association. Use of native plants in the urban or suburban landscape has been Jim's passion for many years. He will discuss soil preparation, propagation, maintenance, and those plants that have been used successfully in the Denver area, as well as those that are most readily available in the trade through nurseries and catalogs.

**May 9, 2001 5:30 PM**

### Annual Picnic and Hike

We will meet at 5:30 PM at a site to be announced. Bring your own main dish; the Chapter will provide drinks and snacks. At about 6:15 PM, we will hike and observe wildflowers until about 8:00 PM.

## Fort Collins Chapter

Monthly meetings are scheduled through April at 7:00 PM in the Main Conference Room of the National Seed Storage Laboratory (NSSL) at CSU. The NSSL is located just west of the railroad tracks, about one block north of Pitkin Street (enter on west side of building). For more information, contact Chapter President Don-Hazlett at (970) 834-1493.

**April 3, 2001 7:00 PM**

### Native Trees of Colorado

**Gilbert Fechner** (CSU Professor) will discuss the native trees of Colorado in a survey of the state, from east to west.

## Metro-Denver Chapter

Monthly meetings are held at 7:00 PM from September through April in the Morrison Center at the Denver Botanic Garden. For more information, contact Chapter President Denise Larson at (303) 733-4338 or Leo P. Bruederle at lbruederle@earthlink.net.

**March 27, 2001 7:00 PM New time!**

### Rocky Flats Environmental Technology Site: Flora, ecology, and resource management

Rocky Flats is a U.S. Department of Energy facility that formerly produced nuclear weapons components. Most people are unaware of the incredible biodiversity that has been protected at the Site. **Jody Nelson**, (Botanist and Plant Ecologist, Exponent, Rocky Flats Environmental Technology Site) will discuss the flora, ecology, and challenges of resource management at Rocky Flats.

**April 24, 2001 7:00 PM New time!**

**A Prairie Garden at Bromwell Elementary**  
**Dr. Lois Brink** (Associate Professor, University of Colorado at Denver) will discuss her ongoing collaborative efforts to coordinate the re-creation of a prairie garden at Bromwell Elementary School in Cherry Creek.

## Plateau Chapter

Chapter activities are scheduled throughout the year. For more information, contact Chapter President Jeanne Wenger at (970) 256-9227 or Bluecrow2u@aol.com or Program Chair Lori Brummer at (970) 641-3561 or lbrummer@gunnison.com.

**March 24, 2001 10:00 AM**

### Workshop: *Cirsium*

**Peggy Lyon, Michael Denslow, and Gay Austin** will present this workshop. Details regarding thistle identification, particularly the differences between native and exotic thistles, will be emphasized. Cost for this workshop in Delta is \$12. To register, contact Gay Austin at (970) 641-6264.

### HELP!

Boxes and boxes of mounted specimens (1400) have been filed in the BLM herbarium in Montrose. Now they are ready to be sorted and organized. If you can help, contact Jim Ferguson (970) 249-5300 or Evelyn Horn at (970) 835-8391. Also,

native plants are needed for the Norwood Elementary greenhouse. If you have plants that you are willing to donate, please contact Kim Karalus at (970) 240-5300.

**April 28, 2001 9:00 AM - 2:00 PM**

### Tips on Photographing Wildflowers.

**Bob Powell** will share tips on how to set up a good picture - light, film recommendations, composition, etc. No camera is needed for this workshop to be held in the field near Delta. Bring a lunch and water. Cost for the workshop is \$12. To register, contact Gay Austin at (970) 641-6264.

**May 12, 2001**

### Xeriscaping with Native Plants

Co-sponsored by CoNPS and the Montrose Botanical Society. **Jim Borland** will give a presentation on xeriscaping with native plants. His program will be followed by a tour of gardens in the Hotchkiss, Cedaredge, and Delta area. For information and registration, contact Gay Austin at gaustin@juno.com or at (970) 641-6264.

**June 15, 2001 10:00 AM**

### Field Trip: Pinyon Mesa

Join us to look for *Artemisia cana* and other local plants of interest. Exact destination will depend on what is blooming. Plan on a 3-4 mile easy walk with some elevation gain. Meet at the Glade Park Store. Bring lunch! Contact Jeanne Wenger at (970) 256-9227 to register.

## Southwest Chapter

For more information regarding news and activities, please contact Chapter President Sandy Friedley at (970) 884-9245 or by e-mail at friedley@frontier.net.

**May 5, 2001**

### Field Trip: West Rim of Mesa Verde

Trip leader **Marian Rohman**, along with **Marilyn Colyer** (Supervisory Biological Technician, Mesa Verde National Park), will have us scrambling up and down the escarpments below the West Rim of Mesa Verde to observe and identify the spring flora of this area. With adequate spring rain, this exposure of the Mancos Shale Formation should be covered in a variety of early annuals. We'll meet at 9:00 AM at the M & M Truck

"Chapter News" continues on page 6

**"Chapter News" continued from page 5**

Stop parking lot, junction of Route 666 and County Road G on the west side of Cortez. Bring a lunch and sturdy hiking boots — the hiking could be quite steep depending on how adventurous we are. Call Marian Rohman at (970) 565-9327 for more information.

**June 9, 2001 9:00 AM**

**Field Trip: Flora of Black Rock Canyon in the Carrizo Mountains**  
**Trip Leader: Arnold Clifford,**

By virtue of a kind invitation extended by **Arnold Clifford** (Navajo Botanist and Geologist), we are again privileged to observe plants in this part of the Colorado Plateau within the Navajo Nation. Meet at the intersection of US Highway 160 and US Highway 64 near Teec Nos Pos, Arizona at 9:00 AM. Bring lunch and water, and be prepared for some moderate hiking into glorious scenery, specifically an andesite porphyritic laccolith. After leaving US 64, we will drive on a dirt road (car pooling with high-clearance vehicles) as far as practicable, probably within a half mile of the canyon mouth. The hike may extend an additional two miles one way on the canyon floor, returning by the same route. Species of interest include *Astragalus calycosus*, *A. coltonii*, *Erigeron argentius*, *Heuchera rubescens*, *Pterophyton caespitosum*, *Phlox austromontana*, and *P. chuteanea*. Call Charlie King (970) 731-4794 or Sandy Friedley (970) 884-9245 for information.

**July 7 - 8, 2001**

**Field Trip: Introduction to the Flora of the Chuska Mountains**

With this two full-day field trip, **Arnold Clifford** provides us with yet another opportunity to botanize within the Navajo Nation. The Chuska Mountains, south of Shiprock, New Mexico, are a 60 plus mile long ridge-like uplift containing basaltic and sedimentary outcrops with elevations of over 9000 feet, and numerous ponds and small lakes. This trip will involve considerable backcountry travel, some moderate hiking, and primitive camping. Arnold will show us rarities, endemics, and other goodies, which he has discovered on his extensive investigations of these mountains. Details will be available in early June. If you wish to be placed on the mailing list, contact Charlie King at 483 Cliffside Place, Pagosa Springs, CO 81147 or (970) 731-4794 or Sandy Friedley at (970) 884-9245.

**CeRSER is "Restoring the Rockies"**

**April 26 - 27, 2001**

Join the Central Rockies Chapter of the Society for Ecological Restoration's first regional conference: "Restoring the Rockies: Restoration and Conservation Strategies in the West," in Keystone. CoNPS, the Forest Service, ESCO Associates, and Western Native Seed are joint sponsors of this event. Expect presentations on wetlands, community restoration, seed mix design, native plant propagation, mycorrhizal considerations, restoration project planning, and succession following restoration, as well as lively discussions on philosophically hot topics. The price for early registration for SER and CoNPS members will be \$65, \$95 for non-members. For information, visit our website at [www.ser.org](http://www.ser.org) and hit the "Restoring the Rockies" link or contact Lisa Tasker at [lisatasker@earthlink.net](mailto:lisatasker@earthlink.net). Student scholarships are available for the conference. Send your name, address, e-mail, phone number, paragraph describing your interest in attending and why you need a scholarship to: CeRSER Conference Registration, POB 12551, Denver CO 80212-0551.

**CoNPS Donors**

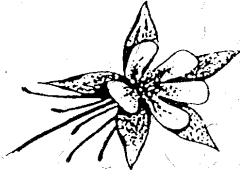
In 2000, many members made donations to the Society, either through the Marr Fund, Steinkamp Fund, or General Fund. These contributions are very important to the success of CoNPS. Thanks to the following donors, as well as to 23 others who wished to remain anonymous: Sue Ellen Alishouse and Les Golden, Ann Armstrong, Larry and Caroline M. Ball, Ronald Beane, Tedd N. Beegle, Linda and Richard Beidleman, Dan W. Bench, Audrey and Jim Benedict, Rita Berberian, Rochelle Blumenstein, Bruce and Cathy Bosley, Linda Bourgeois, Megan C. Bowes, Charlotte Briber, Dr. Leo P. Bruederle, Adele M. Bryan, Dr. David and Sandra Buckner, Dennis and Lisa Buechler, William W. Bulla, Duncan and Elinor Burchard, Judy Capra, Cindy Carlson, Kathy Carnival, Danielle Carre, Dina Clark, Kathleen Conlon, Kathaleen Cook, Kenneth W. Curtis Jr., Mary C. Damm, Kathleen Davenport, Bonnie L. Dehart, Robert Dellapina, Stanley Dempsey, Corey Sue Derfus, Hobart N. Dixon, Jerry and Sarann Duncan, Kevin Essington, Marian M. Fick, Dian Fisher, Vickie and John Flower, Mary Ellen Ford, Veronique and Tom Foster, Frances Fraser, Sandra Starr Friedley, Joyce G. Gellhorn, Mark and Nancy Gershman, Susie Gordon, Sara Edi Grimes, Betty and Joseph Hall, Linda Halloran, Anne Harding and Bob Scott, Susan K. Harris, Emily L. Hartman, Dr. Dexter and Fern Hess, Lorraine Highbie, Elaine Hill, Tim Hogan, Janis Y. Huggins, Margaret Hunting, Tina Jones, Sue Ann Kamal, Marilyn Kastens, Lauren King, Mike Kintgen, Ellen Krings and Glen Susmilch, Modenna La Baugh, Albert and Terry Lasalle, Paula J. Lehr, Dr. Ivo E. Lindauer, Clarence Loomis, Carolyn Manganello, Mark E. Meremonte and Margaret E. McDole, Annette and Paul Miller, Linda Miller, Harlyn Miller-Mlynek, Merle M. Moore, Jerome J. Morrow, Will Murray, Tamara S. Naumann and Peter A. Williams, Betsy Neely and Alan Carpenter, Katharine Noll, Larry A. Nygaard and Connie Merz, Neal Osborn, Maureen O'Shea-Stone, Oscar O. Otto Jr., Donald G. Parker, Pat Ploegsma, Laurel Potts, Vicki L. Ray, Eric A. Rechel and Kate Ellis, Mike Renth, Angela Lynn Riedel and Grant Swift, Sandy Righter, Andrea Robinsong, Tammy Rogne, Mary Lou Rottman, Patricia Saito, Joan L. Sapp, Carla Scheck, Matt Schweich and Becci Siegle, Anne and Howard Spery, Harry Spilman, J. Michael and Sharon K. Spoon, Peggy Stevens, Dale and Grace Sutherland, Julie Thompson, Victorine M. and James R. Trammell Jr., Jeffrey Uhlich and Janell Edman, Gretchen Van Reyper, J. T. Verbeck, Effie Vranka, Kate Warden, Clinton H. Wasser, Olin L. Webb, David A. Weber, Gayle Weinstein, Starla L. White, Sharon Wieser, Bob and Scottie Willey, Steven Williams, Stephen L. Yarbrough.

**AQUILEGIA Deadline Approaches**

**Submit on or before April 15, 2001**

Please submit contributions for Vol. 25 No. 4 of *Aquilegia* on or before April 15, 2001. Include author's name, address, and affiliation. Follow the format from previous issues as closely as possible. Spell check. Articles must be submitted via e-mail or on disks — MAC, preferably. Please submit the contribution as a MS Word or RTF (rich text format) document.

**Colorado Native Plant Society**



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 or Corporate .....	\$30
Family or Dual .....	\$20
Individual .....	\$15
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.

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

Please direct all contributions to the newsletter to:  
**Leo P. Bruederle**  
**Biology, Campus Box 171**  
**University of Colorado at Denver**  
**P.O. Box 173364**  
**Denver, CO 80217-3364**  
**E-Mail: lbruederle@earthlink.net**

Articles not exceeding 2000 words in length and short items, such as unusual information about a plant, are especially welcome. Previously published articles submitted for reprinting require permission. Camera-ready line art or other illustrations are also solicited. Please include author's name and address, although anonymity may be requested. Articles submitted via e-mail or on disks (MAC preferably, or IBM) are appreciated. Please indicate word processing software and version; if possible, submit as an RTF (rich text format) file.

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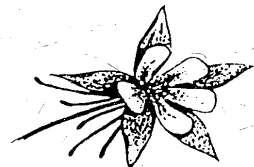
\* interim chair

**MEMBERSHIP APPLICATION AND RENEWAL FORM**

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 Phone ( ) \_\_\_\_\_ E-mail \_\_\_\_\_  
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**MEMBERSHIP CLASS:**  
 Dues cover one calendar year.  
 \_\_\_ Individual, \$15.00  
 \_\_\_ Family/dual, \$20.00  
 \_\_\_ Senior/Student, \$8.00  
 \_\_\_ Student, \$8.00  
 \_\_\_ Corporate, \$30.00  
 \_\_\_ Supporting, \$50.00  
 \_\_\_ Lifetime, \$250.00

In addition to my membership, I have included \$\_\_\_\_\_ as a contribution to the John Marr Fund (endowment in support of small grants-in-aid of research), \$\_\_\_\_\_ as a contribution to the Myrna P. Steinkamp Memorial Fund (endowment in support of small grants-in-aid of research), or \$\_\_\_\_\_ as a general contribution to the Society.



CONPS IS A NON-PROFIT ORGANIZATION -- DUES AND CONTRIBUTIONS ARE TAX-DEDUCTIBLE

# CALENDAR: Mid-March through June

## CHAPTER EVENTS

- Boulder Chapter**  
April 11 Gardening with Native Plants  
May 9 Annual Picnic and Hike
- Fort Collins Chapter**  
April 3 Native Trees of Colorado
- Metro-Denver Chapter**  
March 27 Rocky Flats Environmental Technology Site  
April 24 A Prairie Garden at Bromwell Elementary
- Plateau Chapter**  
March 24 Workshop: *Cirsium*  
April 28 Tips on Photographing Wildflowers  
May 12 Xeriscaping with Native Plants  
June 15 Field Trip: Pinyon Mesa
- Southwest Chapter**  
May 5 Field Trip: West Rim of Mesa Verde  
June 9 Field Trip: Flora of Black Rock Canyon

## SOCIETY EVENTS

- Board Meetings**  
March 31 Longmont Public Library, Longmont, CO  
May 20 USFS Office, Grand Junction, CO
- Field Trips**  
May 19 Ute Canyon Field Trip  
May 26 Wildflowers on the Edge  
June 2 Prairies and Wetlands of Chico Basin  
June 17 Flora of the Rampart Range
- Lectures**  
April 6 Linking Cultural and Biological Diversity  
April 9 The 250-Mile Walk
- Workshops**  
March 17, 18 Apiaceae of Colorado and Wyoming  
April 7 Plant/Pollinator "Conserving & Interacting"  
April 21, 22 Geology for Botanists  
April 24 Native Plant Production Workshop  
April 25 CeRSER Propagation Workshop



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