

Colorado Native Plant Society



NEWSLETTER

Volume 9,
March-April

No. 2
1985

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

CALENDAR OF COMING EVENTS

- 15-19 MAY. See "Other Field Trips of Interest to Members"
- 25-26 MAY. Mancos Canyon CONPS Field Trip
- 1 JUN. Pawnee Buttes CONPS Field Trip
- 8 JUN. USAF Academy Reservation Field Trip
- late JUN. Pinon Canyon CONPS Field Trip
- 13 JUL. Mount Bross CONPS Field Trip
- 20 JUL. Florissant Fossil Beds National Monument CONPS Field Trip
- 27 JUL. Spanish Peaks CONPS Field Trip
- 3 or 10 AUG. Echo Lake CONPS Field Trip
- ? AUG. Rocky Mountain Biological Laboratory at Gothic CONPS Field Trip
- 7-8 SEP. See "Other Field Trips of Interest to Members"
- 26-29 SEP. See "Other Field Trips of Interest to Members"
- 19 OCT. ANNUAL MEETING!!!!!!

Annual Meeting announced:

"Water, Wetlands, and Native Plants"

MARK YOUR CALENDARS

October 19, 1985: 9:00 a.m. - 5:00 p.m.

University of Colorado
Events Conference Center

An exciting all-day program with a variety of activities is being planned by the host Boulder Chapter for the 1985 Annual Meeting. Details will appear in a future newsletter.

RECENT ACTIONS OF THE BOARD OF DIRECTORS

The Board approved the formation of two new Chapters, the Four Corners Chapter and the Colorado Springs Chapter.

Approval was given for the production of a new CONPS poster.

The purchase of twelve dozen CONPS T-shirts in navy blue with the design in white shading to blue was approved by the Board.

A proposal for holding the Annual Meeting on 19 October, 1985 at the University of Colorado Events Conference Center from 9:30am until 6:00pm was accepted. The theme of the meeting will be "Water, Wetlands, and Native Plants."

Approval was given to bring Dr. Charles Sheviak to lead the orchid section of the Boulder Chapter's workshop, "Identification (and taxonomic problems involved in identification) of the Lilies, Irises, and Orchids in Colorado" to be presented by Bill Jennings on 9 March 1985 at Colorado State University in Fort Collins, Colorado. The Board accepted a donation from Lucian Long to be used for this workshop.

Payment of the organizational membership dues in the Colorado Open Space Council (COSC) is being withheld pending information concerning the financial status and goals of COSC.

The printing of an article in the Newsletter, at an as yet undetermined time, on the ethics involved in collecting native plants was approved.

---Eleanor Von Bargen

NEW T-SHIRT COMING

A "new" Colorado Native Plant Society T-shirt soon will be available. The design will remain the same as last year's (see article elsewhere in this newsletter), but it will be printed in light blue shading to white on a navy blue shirt. As before, the new shirt will be available in either 100% cotton or in 50% cotton-50% polyester. Watch for the new edition to be available later this spring at chapter meetings and on some field trips. Mail order information will be published when the shirts are ready.

WESTERN NATIVE PLANT SOCIETIES MEETING CANCELLED

We have been informed that the MEETING OF WESTERN NATIVE PLANT SOCIETIES announced in the last newsletter has been CANCELLED. No further details are available.

IS THIS THE END OF YOUR NEWSLETTERS?

For those of you who have not yet renewed for 1985, this is your last newsletter! Members not renewed by 31 March 1985 will have to be dropped---unfortunately for the Colorado flora which we represent, unfortunately for the society because it needs your support and unfortunately for you because you may miss many programs being planned for this year!

Check your mailing label: *84 indicates that you are in arrears. Keep your membership intact. Send your renewal today to P.O. Box 200, Fort Collins CO 80522. (If we have made a mistake, please let us know.)

NEW CONPS CHAPTERS IN FOUR CORNERS AND COLORADO SPRINGS

Two new local chapters of CONPS were officially recognized and welcomed by the Board of Directors at the 2 February 1985 meeting. The "Four Corners Chapter" is centered in Colorado's southwest corner, and will welcome members in that area of Colorado and from nearby parts of the three other 4-Corners states! Scott Hetzler of Cortez was chief organizer; call him at 565-2175 for further information. Among other activities, the new Chapter hopes to have "at least two" field trips in May and June. These will be in addition to the CONPS field trips to that area announced elsewhere in this newsletter.

Another big welcome was extended to the "Colorado Springs Chapter." This group is centered in the Colorado Springs area, but hopes Society members from many neighboring communities will join and participate. Board member Lee Barzee, phone 634-4715, was the organizer for this new group, and she anticipates an active and exciting program during the coming year.

We are delighted to have these two new focal points for our Society, and we encourage members living in those areas to affiliate and participate with their local Chapter. You'll get to know local people who share your interest and enthusiasm for our native plants!

Society members who wish to affiliate with either new chapter should drop a postcard to the Membership Committee, CONPS, P. O. Box 200, Fort Collins CO 80522. The chapter receives a portion of each affiliated member's dues to help meet chapter expenses.

ERRATA

In the last issue of the Newsletter the new year gremlin crept in. The dates should be 'January-February 1985'.

ROCKY MOUNTAIN HERITAGE TASK FORCE

On the first of October 1984, The Nature Conservancy (TNC) established the Rocky Mountain Heritage Task Force (RMHTF) in Denver, Colorado. The RMHTF staff serves New Mexico, Colorado, Utah, Wyoming, Montana, Idaho, Arizona (Navajo Natural Heritage Program), and Nevada. The purpose of this Task Force is fourfold: 1) assist existing Heritage Programs with data gathering and fund raising; 2) develop a regional perspective on Natural Heritage quality data; 3) assist in the development of Natural Heritage inventories in states without adequate natural diversity data bases; and 4) set TNC conservation priorities for the interior West.

The present staff includes a Coordinator/Botanist, J. Scott Peterson; Regional Information Manager, Robin A. Voigt; Regional Plant Ecologist, Patrick S. Bourgeron; Vegetation Research Associate, William L. Baker; Regional Zoologist, Blair Cauti; Colorado Public Lands Protection Planner, Elizabeth "Betsy" Neely; and Public Lands Protection Planners for other states in the region (Utah, New Mexico, and Idaho). Wyoming is covered out of the Montana field office. The RMHTF will also be hiring a Colorado Plant Ecologist in the near future to carry on the work of Bill Baker.

Betsy Neely, the Colorado Public Lands Protection Planner (PLPP) will be closely associated both with the RMHTF and the TNC Colorado Field Office. Betsy will work with federal and state agencies for the long-term conservation and protection of biolog-

ical natural diversity (plant and animal species, plant associations, and aquatic systems). Part of her efforts will be of great interest to CONPS members, that of working toward the long-term protection of Colorado's rare plants and remnant plant associations. Betsy's efforts will be prioritized and driven by the occurrence data derived from inventory conducted on public lands over the past four years by the Colorado Natural Heritage Inventory (CNHI).

Both the Elements (e.g., species and communities) and the Element Occurrences (e.g., the actual site where the Element occurs on the landscape) have been given a relative rank of importance for Conservancy protection efforts. The Elements are then listed by priority on a protection agenda, termed the Colorado Scorecard. The Colorado Scorecard is also utilized by the TNC Colorado Field Office and by the Colorado Natural Areas Program, and indirectly by some public agencies.

Because of the lack of adequate biological natural diversity data bases in the states of Utah, Montana, and New Mexico, the Task Force staff will initially concentrate efforts there. Some of the duties include the development of preliminary state classifications, such as, "A Preliminary Classification of the Natural Vegetation of Montana" and the Utah Plant Species of Special Concern. The staff will continue to assist the Colorado Natural Heritage Inventory as time permits.

---Scott Peterson

T-SHIRTS, GOING, GOING

ALMOST GONE!! Last year's T-shirt was a great success, and only a few remain. A new T-shirt (same design, different color) is being prepared, but if you would like one of the 1984 color (pale blue with medium grading into dark blue design featuring 3 columbine flowers and the Society's name), order right away. The shirts are available in either 100% cotton or 50% cotton-50% polyester. An order form is in the Chapter News Section (colored pages) in this Newsletter.

OTHER FIELD TRIPS OF INTEREST TO MEMBERS

Cloud Ridge Naturalists, a non-profit educational organization, has announced an interesting 1985 schedule of seminars/field trips, including several of potential interest to CONPS members. Three are specifically plant oriented: "Flora of the Colorado Plateau" (May 15-19, 1985), "Lichens" (Sept. 7-8) both will be taught by Dr. William A. Weber, and "Colorado's Aspen: A Workshop in Forest Ecology" (Sept. 26-29) will be led by Dr. Joyce Gellhorn-Greene and Kevin Williams.

Dr. Weber's Colorado Plateau seminar will be centered at Colorado National Monument;

with any luck the spring flowering there will be at its peak! Participants will have an opportunity to try out manuscript copies of Dr. Weber's forthcoming "Flora of Western Colorado."

The aspen workshop, a camping tour beginning in Rocky Mountain National Park and examining aspen ecosystems on both sides of the Continental Divide, will clarify some issues pertaining to controversial Forest Service plans to clearcut huge stands of aspen, based on claims that many such stands are "over-mature."

Did you know there are over 2000 species of lichens in Colorado? The lichen seminar, led by one of the world's foremost lichenologists, will tell you all about these fascinating fungal/algal mutualistic relationships. This trip is conveniently located for Front Range participants.

Other topics of interest include geology of the Colorado Plateau; Colorado archaeology; several seminars on wildlife biology, nature photography and art; and other natural history related programs in California and Mexico. For a copy of the descriptive brochure or other information, contact program director Audrey Benedict, Cloud Ridge Naturalists, Overland Star Route, Ward, CO 80481.

FIELD TRIP POLICIES

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 FOR PERSONAL PURPOSES IS FORBIDDEN on CONPS field trips. Two types of collecting are recognized as acceptable (if done with discretion so as not to attract the attention of persons outside the field trip group, who would not know the scientific or educational reasons for the collections and might be offended or motivated to do likewise without reasonable purpose):

(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; this concept includes the collection of specimens for deposit in a recognized, publicly accessible herbarium.

(2) A trip leader or other person whose responsibility is to instruct trip participants may collect plants for demonstration, explanation, or keying for full identification. Such collecting should be minimal and should be done inconspicuously and with due regard for any possible effect on the plant population. Endangered, rare, threatened, or sensitive species should never be collected for instructional purposes.

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

1 passenger (besides driver)	\$.05/mile
2 passengers	.04/mile
3 passengers	.03/mile
4 passengers	.02/mile

Passengers should pay the driver at the trip's conclusion, 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.--EACH PARTICIPANT MUST ASCERTAIN THAT HE OR SHE IS PHYSICALLY ABLE AND SUITABLY DRESSED to cope with the possible demands of a trip. Our trips vary greatly in design and in physical rigor, and Colorado weather is notorious for its rapid changes. IF IN DOUBT, CONTACT THE LEADER.

6.--REGISTRATION. The individual(s) responsible for registration for each trip (usually the field trip leader(s)) should be contacted by phone or mail at least 2 weeks before the date of the trip. Depending upon the interest shown, or lack of it, a decision on whether a field trip will happen can be made at that time. Late sign-ups will be accepted, but only if a decision has already been made to conduct the trip. Please note that some trips have a maximum participant limit. registration for field trips with a participant limit will be on a first-come, first-served basis. If you find you cannot attend a trip you have registered for, please notify the leader as soon as possible so someone else can take your place.

CONPS's expressed purpose is to promote appreciation and preservation of our flora. Our field trips are designed to help us appreciate, but we must also preserve. Endeavor not to damage the very features you have come to see and enjoy. Take photographs, sketches, or other means of recording the plants you see, and leave no sign of your presence.

1985 FIELD TRIPS

LOCATION: Mancos Canyon

DATES: Saturday - Sunday, 25-26 May 1985

LEADERS: Carol Brandt, (303) 484-9251

HIKING DISTANCE: No strenuous hiking so suitable for all ages

MEETING PLACE: Ute Mountain Pottery Plant, 15 miles south of Cortez

Mancos Canyon is located within the Ute Mountain Tribal Park, found on the southern border of Mesa Verde National Park. The field trip will cover over 20 miles following the Mancos River. This area is not only rich with the flora of an arid environment, but was inhabited by the Anasazi from 400-1100 A.D.

There will be a meeting of the field trip participants and the members of the newly formed Four Corners Chapter on Friday evening in Cortez. See the Four Corners Chapter listing in the colored pages for details of time and place. This will be a great opportunity to welcome one of our newest chapters to CONPS, as well as a

(continued on the top of the next page)



METRO DENVER CHAPTER

- March 27 "Hunting Native Plants." Larry Schlichenmayer, nurseryman at Old Farm Nursery, will present a slide program on hunting native plants and introducing them to the nursery trade. Time: 7:30 p.m. Place: Botanic Gardens House.
- April 24 "Bring 'Em Back Alive!" (or the art of growing wildflowers in your yard without decimating the wild) will be presented by Gwen Kelaidis, Landscape Designer specializing in designing and installing rock gardens, and Panayoti Kelaidis, Curator of the Rock Alpine Garden at Denver Botanic Gardens. Time: 7:30 p.m. Place: Botanic Gardens House.
- May 18 9:00 a.m. - 12:30 p.m. Field Trip to Roxborough State Park to see the spring flora of the Transition Zone. Leader: Vickey Trammell, 795-5843. Meet at intersection of Roxborough and Rampart Roads for a 9:00 a.m. departure. A day pass (\$2/car) or an annual aspen-leaf pass is required. Wear comfortable walking shoes or boots and bring water. NO COLLECTING is permitted.
- May 22 "From Grassland to Glacier: Ecological Relations of Native Plants of Colorado," will be the topic of Dr. John Emerick, Department of Environmental Sciences and Engineering Ecology, Colorado School of Mines, Golden. Time: 7:30 p.m. Place: Botanic Gardens House.



FOUR CORNERS CHAPTER

- March 24 Field Trip: Hovenweep National Monument. Meet at 9:00 a.m. at the Hovenweep campground to see interesting dwelling ruins and plants probably more typical of Utah than of Colorado.
- April 14 Field Trip: Sand Canyon. 9:00 a.m.
- May 5 Field Trip: Cross Canyon. Meet at 9:00 a.m. at Post Office in Pleasantview.
- May 25 7:00 p.m. Chapter Meeting at Scott Hetzler's house, 301 West Montezum Cortez. (Note: An invitation to attend this meeting has been extended to those who will be in the area for the Society's Mancos Canyon field trip--see its announcement elsewhere in this issue.)

** For details or information on any Four Corners Chapter trip or meeting, contact Scott Hetzler at (303) 565-2175.

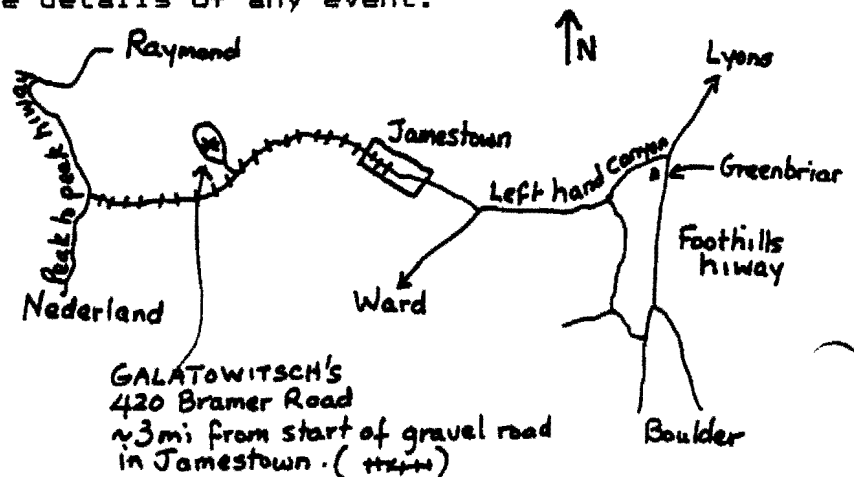
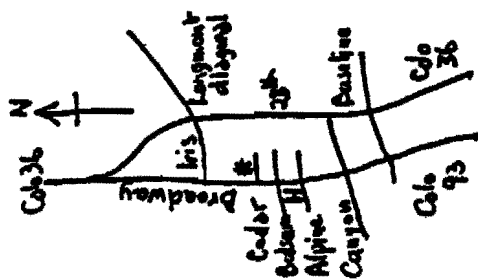


BOULDER CHAPTER ACTIVITIES

- MARCH 13** "Bring 'em Back Alive!", the art of growing wildflowers in your yard WITHOUT decimating the wild, will be presented by Panayoti Kelaidis, Curator of the Rock Alpine Garden at Denver Botanic Gardens. Time: 7.30 p.m. Place: Washington School, 1215 Cedar, Boulder.
- APRIL 10** What do you know of Boulder county's wildflowers? The first half of this two part program will take a look at some of the least common and least known plants, discussing their status in the county. The second half of the program will attempt to put 'names' to those unknown flowers in your photographs. Bring up to five slides of flowers you cannot identify and get suggestions from the audience (within the limitations of the picture). NO guarantees, but a lot of fun we hope!
TIME: 7.30 p.m PLACE: Washington School, 1215 Cedar, Boulder.
- APRIL 27** "Plants of the Shale". Come on a field trip to explore the plants of Six Mile Fold. Share your knowledge of the flowers, soils and geology of this unique area. Meet at Scott Carpenter Park, 30th and Arapahoe, Boulder, at 9.00 a.m. to car pool to the field area for this half day trip.
- MAY 8** "The Western Rock Garden Guide", a slide presentation by Anna Thurston of W.I.L.D & Co., Fort Collins, will describe the uses and sources of rock garden plants suitable for this area.
TIME: 7.30 p.m. PLACE: Washington School, 1215 Cedar, Boulder.
- MAY 11** Reserve this afternoon for a potluck/business meeting/ hike at the home of Sue Galatowitsch. Time to firm up details of the Annual General Meeting of ConPS, which our chapter will host this year, and also to socialise with other chapter members before the main field season.
TIME: 1.00 p.m. PLACE: 420 Bramer Road (please see map below).

Call 447-9169 for more details of any event.

Washington School, 1215 Cedar, Boulder:





FORT COLLINS CHAPTER

N.B. - ALL regular Ft. Collins meetings are at the Ft. Collins Museum, 200 Mathews (enter thru rear door to basement meeting room).

- March 19 Stuart Cameron, RBI, Inc., will speak on "Soil Stabilization via Revegetation."
- April 13 Field Trip: City Park Tree Tour with Ft. Collins City Forester Tim Buchanan. Meet at 9:00 a.m. at 413 Bryan St. (For more info call Anna, 493-2369.)
- April 16 Dr. William Weber, University of Colorado, will take us on "A Visit to the Canary Islands."
- May 21 Larry Watson, Little Valley Nursery, Brighton will present "Growing Natives: The Nursery Connection."
- June 18 (tentative) "Wildlife Photography---Shooting the Perfect Picture Every Time!"

(no regular summer meetings; watch for possible local field trip announcements)

T-Shirt Order Form

Please enclose \$6.00 for each shirt, plus \$1.00 postage and handling cost for each shirt ordered. Allow 4-6 weeks for delivery. Send orders to:
CONPS T-Shirt, P.O. Box 200, Ft. Collins CO 80522.

SHIP TO:	ADULT SIZE	-----Number-----	
		100%	50%/50%
Name _____	Small (34-36)	out	_____
Address _____	Medium (36-38)	low	<u>sold out</u>
Address _____	Large (40-42)	_____	_____
City/State/ZIP _____	X-Large (44-46)	_____	<u>sold out</u>

No Fabric Substitution...(if your first choice of fabric is not available, we will substitute the other unless this box is checked.)

No Color Substitution...(if your size is no longer available in light blue, we will substitute the new dark blue shirt when available---unless you check this box!)



COLORADO SPRINGS CHAPTER

THIS NEW CHAPTER'S SPRING PROGRAMS AND FIELD TRIPS ARE IN THE PLANNING STAGE---
Please call Lee Barzee (634-4715) to offer your help and for info. More in the next
newsletter.



YAMPA VALLEY CHAPTER

Sorry, no info received at press time. Contact Sue Allard (824-8958) for info;
better yet, volunteer to help with local activities!

COLORADO NATIVE PLANT SOCIETY MEMBERSHIP FORM

Please use this form to renew for 1985 (if you haven't already!), or pass it along
to an interested friend who might join the Society. Membership is on a calendar
year basis, January 1 through December 31.

NAME(S) _____

ADDRESS _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ NEW MEMBER _____ RENEWAL _____

MEMBERSHIP CLASS

- INDIVIDUAL, \$8
- FAMILY/DUAL, \$12
- SENIOR/RETIRED, \$4
- STUDENT, \$4
- CORPORATE, \$25
- SUPPORTING, \$50
- LIFE, \$250

I wish to be a member of the following chapter (mark one only):

- BOULDER
- COLO. SPRINGS
- FT. COLLINS
- FOUR CORNERS
- METRO DENVER
- YAMPA VALLEY

In addition to my membership dues, I wish to make a donation of \$_____ to further the
purposes of the Society. (CONPS is a non-profit organization; dues and contributions
are tax-deductible.)

Please mail to: CONPS, P.O. Box 200, Ft. Collins, CO 80522

(continued from bottom of previous page)
chance for a personal introduction to the flora and archaeology of this area.

The field trip will meet at the Ute Mountain Pottery Plant, 15 miles south of Cortez, Colorado, on U.S. Highway 666 on Saturday, 25 May, at 10:00 a.m. The tour will then proceed by vehicles up Mancos Canyon, stopping frequently to view the flora, petroglyphs, and ancient cliff dwellings. We will camp overnight at a primitive campground within Mancos Canyon. The next morning, the 26th, we will continue to move up the canyon, concluding our trip with a tour of several large cliff dwellings such as Lion House and Eagle Nest House.

For the field trip we will need to provide our own vehicles. Preferably the vehicles should be able to withstand rough dirt roads and should have a high clearance (two wheel drive is adequate). When registering for this field trip we must have information on whether you will be able to drive and how many seats are available in your vehicle for carpooling purposes. Also, because we are camping overnight, you must provide your own food and water for 2 days as well as sleeping bags, tents, etc. There is a suggested gratuity for our campground use and the Ute Mountain tourguide of \$5 per person. We will "pass the hat" at camp.

As noted above, most of our traveling will be by vehicles with short hikes from fre-

quent stopping points along the road. Because there will be no strenuous hiking, this field trip will be perfect for those of all ages.

On Monday, 27 May, we will meet at 9:30 a.m. to tour the Anasazi ruins of Chimney rock. This is a large village ruin near 7,500 feet, the highest elevation known for an Anasazi site. Also, Chimney Rock is proposed to be a Chacoan outlier, possible have had direct communication with those extensive villages in Chaco Canyon, New Mexico.

For those of you whose interests embrace archeology, cacti, birdwatching, and the beauty of the canyons, this field trip will be a rare treat. If you attend, don't forget to bring your camera and binoculars as well as your flora manuals. By agreement with the Ute Mountain people there will be no collecting on the reservation.

There is a limit of 25 people on this field trip. Register immediately by sending a postcard to: Mancos Canyon Field Trip, CONPS, P. O. Box 200, Fort Collins CO 80522. Be sure to include your name, address, phone number, as well as information on your ability to drive and the number of seats in your vehicle, if any.

In case of rainy weather, the dirt roads in Mancos Canyon are impassible. If this should occur, the field trip will be held at Mesa Verde National Park.

LOCATION: Pawnee Buttes

DATES: Saturday, 1 June

LEADERS: Jim Borland, 320 Adams, Denver CO 80206, phone: 329-9198 after 5pm

HIKING DISTANCE: Up to 2 miles according to group abilities and interests

MEETING PLACES: Parking lot at Denver Botanic Gardens at 7am, or Ault at the intersection of U.S. Highway 85 and Colorado Highway 14 at 8.15am.

Here is your chance to explore a beautiful and exciting area of considerable botanical interest. Pawnee Buttes rise dramatically above the shortgrass prairie of eastern Colorado, offering striking contrasts to the sky and surrounding seas of grasses and groundcovers. We will explore the prairie, rocky outcrops, clay fields and the Buttes for plants seldom seen by those of us who usually only trek the mountains.

Jim Borland, propagator at Denver Botanic Gardens, is an experienced botanist and

horticulturist who will offer rare insights into the great variety of plants in this area.

Bring a pack, lunch, and plenty of water-- at least 2 quarts per person; wear good walking shoes; and bring a Colorado flora if you have one (Weber's Rocky Mountain Flora or Harrington's Manual of the Plants of Colorado).

For more information or to register call or write to the field trip leader.

LOCATION: USAF Academy Reservation

DATES: Saturday, 8 June

LEADERS: Major Douglas and Arlene Ripley, Department of Biology, U.S. Air Force Academy, Colorado Springs CO 80840, phone 590-7781

HIKING DISTANCE: ?

MEETING PLACE: Overlook No. 1, North gate, Air Force Academy

Major Ripley, biology professor at the Academy, will lead participants to four different sites which vary from grassland to Douglas fir forests. A good variety of plants may be seen. Among them are *Linnaea borealis* (twin-flower); the rare orchid *Goodyera repens* (rattlesnake plantain); and possibly *Calypso bulbosa* (fairy slipper). Don't miss your chance to tour otherwise

inaccessible areas of the Air Force Academy Reservation.

Bring your lunch. Standard items such as rain gear, good footwear and water are also recommended. For more information or to register call or write Major Ripley at the above phone number or address.

LOCATION: Pinon Canyon or ???

DATES: a weekend in late June or early July not yet determined

LEADER: Margaret Van Ness, phone 279-2569
Pinon Canyon maneuver area between Trinidad and La Junta has a varied terrain ranging from grasslands to deep canyons with aspens and lush undergrowth. This may be your last chance to view this area before it becomes an active and environmentally damaged military reservation. If permission is not gained for a trip to this area, an alternate area will be chosen by the trip leader.

Margaret Van Ness, who works with the University of Denver Archeological Research Institute, is performing surface vegetation analysis and ethnobotany at the site. Many other wildlife biologists and archeologists are working with Meg and may join the field trip.

Details will appear in the next CONPS Newsletter.

LOCATION: Mount Bross, near Alma

DATES: Saturday, 13 July

LEADERS: Dr. William Weber, Campus Box 218, University of Colorado, Boulder CO 80309, phone 492-6171

HIKING DISTANCE: Anywhere from one to several miles, depending on remaining snow; elevation is alpine; to 14,000 ft.

MEETING PLACE: Alma at intersection of Colorado Highway 9 and Buckskin Gulch road at 7:45 am

Dr. Weber has indicated that Mt. Bross represents the best of the Colorado alpine zone, and he should know! Because afternoon weather is unpredictable at this altitude, an early start is necessary. Accordingly, the group will leave Alma no later than 8:00 am. 4-wheel drive vehicles are a must, so if you have one, bring it. Carpools will

be arranged in Alma. Bring lunch, water, good boots and rain gear.

For further information or to register for the trip contact Nevin Beebe after 5:00 p.m. at 733-1038 or Dr. Weber at the above address or number.

LOCATION: Florissant Fossil Beds National Monument

DATES: Saturday, 20 July

LEADERS: Mary Edwards, 233-8133; Velma Richards, 794-5432; and Miriam Denham, 442-1020

This will be a working, but fun, trip to add any uncollected species to the CONPS collection of plants for the FFBNM herbarium project. This is a great chance for amateurs to learn to identify plants and to

collect and press them properly.

Details will be in the next newsletter. For more information or to register call any of the leaders.

LOCATION: Spanish Peaks

DATES: Saturday, 27 July

LEADERS: Dr. Neal Osborn, phone 546-0319

HIKING DISTANCE: 3 1/2 miles or less, depending on individual abilities and interests. Altitude is sub-alpine to alpine to 11,300 ft.

MEETING PLACE: K-Mart parking lot by the Canon City exit of i-25 at 7:00 am

Car pools will be arranged at the meeting place. Driving time will be approximately 2 1/2 hours. We will drive through the beautiful Charo Valley which shows a telescoping of Colorado life zones.

man-of-the-mountain, and many composites. This is not the typical Colorado tundra -- no dwarf willows, *Dryas* glacier lilies. Bring rain gear, layers of clothing for temperature changes, water, daypack, good boots and lunch. Also bring a Colorado flora if you have one. For further information or to register for the trip call Dr. Osborn at the number given above.

Our goal is the summit of Apishapa Pass, an austere talus-type tundra. We will see bristlecone pines, alpine *mertensia*, old-

LOCATION: Echo Lake of Mt. Evans

DATES: Saturday, 3 August or 10 August

LEADER: Peter Root, phone 433-9340

MEETING PLACE: Road Junction in front of the lodge at 9:00 a.m.

The objective of the trip is to see up to six taxa of grape-ferns, *Botrychium*. If time and weather permit, the trail to

Chicago Lakes or Mt. Goliath could also be included. More details will appear in the next newsletter.

LOCATION: Rocky Mountain Biological Laboratory at Gothic

DATES: sometime in August to be determined later

LEADERS: Dr. Dieter Wilkin

Details concerning this trip will appear in the next newsletter

NEWLY DESCRIBED SPECIES OF INTEREST TO
COLORADO BOTANISTS (1979-1980-1981)

A large number of new plant species and varieties have been described from the Rocky Mountain West in the past few years. In a series of three articles, a tabulation of plants in interest to Colorado botanists and wildflower lovers is presented. For each species or variety the type locality and range are given in addition to the publication reference. This article lists those species and varieties described in 1979, 1980, and 1981. The second article will cover 1982 and 1983; the third 1984. This tabulation was prepared largely from a list compiled by B. E. Nelson of the Rocky Mountain herbarium.

1979

Heil, K. D., Three new species of *Cactaceae* from southeastern Utah: *Cactus & Succulent Journal* 51:25-30 (1979)

Sclerocactus contortus Heil
type loc: Canyonlands National Park, UT
range: southeastern Utah

Sclerocactus terra-canyonae Heil
type loc: San Juan County, UT
range: southeastern UT, southwestern CO,
northwestern NM

Pediocactus winklerii Heil
type loc: Wayne County, UT
range: southeastern UT

Heil does not list type locality or range any more specifically than given above and beyond citing the type specimen does not list other specimens examined.

Clark, T., and Dorn, R., editors, *Rare and Endangered Vascular Plants and Vertebrates of Wyoming*, p. 15-17 (1979)

Townsendia nuttallii Dorn
type loc: Limestone Mt., near Atlantic City, Fremont Co., WY
range: Central and Northern WY

Holmgren, N. H., New Penstemons (*Scrophulariaceae*) from the Intermountain region: *Brittonia* 31:217-242 (1979)

Penstemon dolius M. E. Jones ex Pennell
type loc: 10 miles east of Duchesne, Duchesne Co., UT
range: Duchesne Co., UT

Penstemon angustifolius Nuttall ex Pursh
var. *vernalensis* N. Holmgren
type loc: 3 miles north of Maeser, Uintah Co., UT
range: Uintah Co., UT and Rio Blanco Co., CO

Penstemon mucronatus N. Holmgren
type loc: 4 miles south of Manila, Daggett Co., UT
range: Daggett and Uintah Counties, UT; Moffatt Co., CO; Sweetwater Co., WY

Holmgren describes several more Penstemons

from areas somewhat more distant from Colorado (Oregon, Idaho, California, Nevada, and western Utah).

Barneby, R. C., *Dragma Hippomanicum* IV: New Taxa of *Astragalus* section *Humillimi*: *Brittonia* 31:459-462 (1970)

Astragalus wittmannii Barneby
type loc: I-25, Levy exit, Mora Co., NM
range: no other specimens cited

1980

Isely, D., New Combinations and one new variety in *Trifolium* (Leguminosae): *Brittonia* 32:55-57 (1980)

Trifolium haydenii var. *barnebyi*
Isely
type loc: 10 miles south of Perrin, Fremont Co., WY
range: no other specimens cited

Price, R. A., *Draba streptobrachia* (Brassicaceae), a new species from Colorado: *Brittonia* 32-160:169 (1980)

Draba streptobrachia Price
type loc: Cumberland Mine, La Plata Co., CO
range: La Plata, San Juan, Hinsdale, Ouray, Mineral, Conejos, Archuleta, Pitkin, Lake, Park, Summit, Clear Creek, Jackson, Grand, and Larimer Counties, CO

This is an alpine plant and collection locations of cited specimens lie on the ridgelines that form the boundaries between the counties cited. Type specimen Baker, Earle, and Tracy #903, July 15, 1898.

1981

Welsh, S. L., New Taxa of Western Plants: *Brittonia* 33:294-303 (1981)

Artemisia norvegica Fries
var. *piceetorum* Welsh & Goodrich
type loc: Atwood Lake Basin, Duchesne Co., UT
range: Duchesne and Summit Counties, UT

Cirsium barnebyi Welsh & Neese
type loc: 1.5 miles east of Ignacio ghost town, Uintah Co., UT
range: Uintah Co., UT
Specimens cited from Watson and Rainbow ghost townsites were collected less than ten miles west of the Colorado state line. To be expected in Rio Blanco County.

Thelypodopsis barnebyi Welsh & Atwood
type loc: San Rafael Swell, Emery Co., UT
range: Emery Co., UT

Welsh describes several more species from areas somewhat more distant from Colorado (western and southern Utah).

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