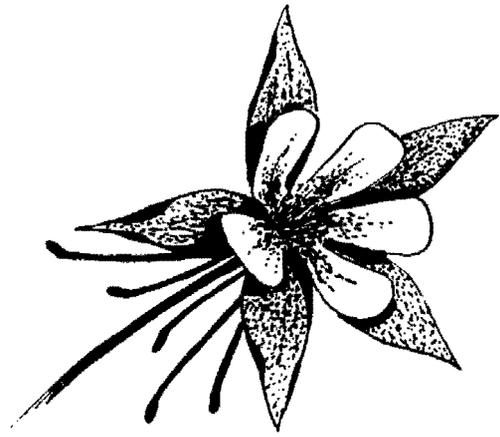


Aquilegia

Newsletter of the Colorado Native Plant Society



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

Volume 12, Number 1

January/February 1988



Colorado Flora: Western Slope

We still have discounted copies of Weber's new Colorado Flora: Western Slope available. The price is \$15 picked up or \$17 mailed. Contact Les Shader, c/o CONPS, P.O. Box 200, Fort Collins, 80522-0200, or phone 484-0107. (Rumor has it that the next edition will not be out for about a year.)

DENVER CHAPTER PROGRAMS

The Denver Chapter of CONPS meets on the fourth Wednesday of each month from September to May (except December) at 7:30 pm at the Denver Botanic Gardens House, 909 York Street, Denver. Programs for early 1988 include:

Wed., January 27

Landscaping with Native Shrubs
Presented by Gayle Weinstein

Gayle is in charge of design and maintenance of the outdoor collections at the Botanic Gardens.

Wed., February 24

Two Forks

Presented by Rocky Smith
Rocky Smith of the Colorado Environmental Coalition will discuss the impact of the proposed Two Forks reservoir on the South Platte River. Come and hear some new information on the possible effects of this project on scenery and wildlife.

CALENDAR

- January 30 - Rare Plants in Wyoming--Are There Any?
Workshop: Hillis Marriott
- February 20 - Deciduous Trees of Northern Colorado
Workshop: Dr. Gilbert Fechner
- April 2 - Identification and Classification of Cryptantha (Boraginaceae)
Workshop: Dr. Walter A. Kelley
- April 23 - Improving Your Wildflower Photography
Workshop: Bill Jennings and Loraine Yeatts
- May 14 - Natural Communities of Colorado
Workshop: Sue Galatowitsch

WORKSHOPS

Sat., January 30, 1987
Rare Plants in Wyoming:
Are There Any?
Leader: Hollis Marriott

In 1986, The Nature Conservancy hired Hollis Marriott as "Wyoming Botanist" to upgrade the Wyoming rare plant database maintained by the Department of Environmental Quality. Working in cooperation with the Rocky Mountain Herbarium at the University of Wyoming, Hollis has spent the last two field seasons trying to determine just exactly which plant species are rare in the state and what protection efforts are needed. This workshop will cover rare and possibly threatened Wyoming plants, with emphasis on those closest to Colorado. Slides, specimens, maps, keys, some live material, and discussions will be used to address the problems of rarity: What is rare? Why save rare plants? How do we save rare plants? To be held at Foothills Nature Center, 4201 N. Broadway, Boulder.

Sat., February 20, 1988
Deciduous Trees of Northern
Colorado
Leader: Dr. Gilbert Fechner

Workshop regulars may remember Dr. Fechner's excellent workshop on coniferous trees in November, 1985. This time, we will obtain an acquaintance with the native deciduous trees, especially in Acer, Alnus, Betula, Celtis, Populus, and Quercus. Topics to be covered include morphology, ecology, distribution, and importance of the native species in the above genera. A key will be provided and winter twigs and pressed specimens will be available for examination. To be held at the Natural Resources Research Laboratory, Colorado State University campus, Fort Collins. This will be a half-day workshop (9 am - noon). Registration fee: \$5.

Sat., April 2, 1988
Identification and Classification
of Cryptantha (Boraginaceae)
Leader: Dr. Walter A. Kelley

Plants in genus Cryptantha, usually called "miner's candle", are hard to identify, often requiring careful study of the nutlets. Dr. Kelley has investigated this group extensively and will show just what to look for, both in the field and in the herbarium, when trying to key plants. Nutlet terminology in particular is confusing, so he has prepared a series of slides and line drawings that will be thoroughly discussed during the workshop. Primary emphasis will be on the perennial species, particularly those of the western slope. Dr. Kelley has indicated he has lots of specimens for us to tear apart. To be held in E112, Plant Science Building, Colorado State University campus, Fort Collins.

Sat., April 23, 1988
Improving Your Wildflower
Photography
Leaders: Bill Jennings and
Lorraine Yeatts

If you have ever seen their slide shows, you know that Lorraine and Bill usually take good pictures. While luck and patience play a role in good photography, so do composition, light, film, and depth of field. Topics to be covered include differences in films, differences in cameras, how and when to use flash, the interaction of depth of field and lens f-stop, and how to deal with a tripod. To be held at the Foothills Nature Center, 4201 N. Broadway, Boulder. We will work indoors in the morning. After lunch, we will put our new-found knowledge to work and go photograph some flowers north of Boulder.

Sat., May 14, 1988
Natural Communities of Colorado
Leader: Sue Galatowitsch

Most are familiar with the life-zone concept: plains, foothills, montane, etc., but within each life zone are a number of plant communities. A plant community is an association of plants, regularly and repeatedly seen in a particular exposure, on a particular rock type, or in a moist or dry environment within a given life zone. Sue will explain exactly what is meant by a natural community, how to recognize one, the importance to the diversity of the natural flora, and above all, will present examples of numerous plant communities native to northern Colorado. Location to be announced, but to be held primarily in the field.

For next fall and winter (1988-89), we have already received tentative commitments from instructors for workshops on the following topics: Identification of Carex (Sedges); Pre-settlement/Post-settlement Vegetation in the Arkansas Valley; Identification of Penstemons; Poisonous Plants; and Identification and Taxonomy of Aquatic Plants.

Enrollment in workshops is always limited, usually due to room constraints, so you must register in advance. To register and for more information about these workshops, contact CONPS workshop coordinator, Bill Jennings, 360 Martin Drive, Boulder, 80303, 494-5159. Be sure to include your mailing address and phone number if you mail in your registration. Registrants will be notified by mail about two (2) weeks prior to the workshop regarding final location, time, lunch, suggested references, etc. Please register promptly as workshops tend to fill up fast. However, cancellations sometimes create openings, so you might check with Bill up to the night before the workshop if you want to try to register at the last minute.

The fee for each workshop is \$8 for members. For non-members, the fee is \$16. If you plan to attend more than one workshop per year, it is cheaper to join CONPS as an individual (\$8/year) and come to workshops as a member. You may pay in advance or at the workshop, whichever you wish.

It takes considerable time and effort for the instructors to plan and develop workshops and field trips. Please let us know how you like the workshops and field trips we plan. We need your suggestions for others, as well as your feedback on whether you found them informative and exciting or dull and uninteresting. We need to know whether we are serving you, our members, the way you wish.

BOTANISTS INSPIRE BIRDERS

Birdwatchers in Colorado have started a major research project which originated with British botanists. The Colorado Bird Atlas Partnership has initiated a five-year effort to survey the breeding birds of Colorado on a detailed scale: 300-400 volunteer field workers will census blocks three miles on a side, one in each topographic map. The atlas procedures follow those developed in several of the eastern states of the U.S. Although Colorado is the first western state to undertake an atlas, most eastern states and Canadian provinces have similar projects underway.

The idea originated in Great Britain, where botanists produced, in 1962, an Atlas of British Flora. This mapped plant distributions by presence or absence in 10 kilometer grids. It took 1500 botanists ten years to plot the distributions of 2000 species of plants. Inspired by the botanists, and by a couple of pilot projects, the British produced the Atlas of Breeding Birds in Britain and Ireland in 1976. The book relied on five years of work by 10,000 observers.

We in Colorado have initiated the Colorado bird atlas through the cooperation of the federal and state agencies concerned with wildlife, the various Audubon and bird clubs across the state, and interested colleges and museums. Headquarters are at the Denver Museum of Natural History. The five-year project started in 1987, and will culminate in a published atlas and a database compatible with the wildlife database used the Colorado Division of Wildlife.

Ornithology is a science which depends on amateurs for much of its information, thus permitting development of this massive project with reliance mainly upon volunteers throughout the state.

Government agencies support the project because it will provide

them with new, more precise data on the birds of the state. They will have better information to use in carrying out their environmental responsibilities. The Audubon chapters support it for that reason, as well as because it will simply add to our knowledge about Colorado birds.

CONPS President Eleanor Von Barga expressed interest, and recommended an article in Aquilegia. Do you suppose she sees an Atlas of Colorado Flora in our future? We bird watchers would be glad to cooperate, as best we can, in such a botany project, even as we realize that collecting data on plants requires a much different effort. Even though bird breeding and plant seasons probably are comparable in length, we have only 250-275 breeding birds in the state. I suppose Colorado has five to ten times as many plants.

At any rate, we Colorado bird atlasers want you Native Planters to know about our effort. Maybe you can come up with a comparable effort.

Hugh Kingery
Project Director



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COLORADO ON THE EDGE
A Conference About the Future of
Colorado's Environment
February 12 and 13, 1988

Coloradans are on the verge of making final decisions about their future environment. Will the Front Range of Colorado look like southern California in a few years? Will our last remaining pockets of wilderness be turned over to oil and gas drilling or be sacrificed to timber cutting and more ski developments? This conference will explore visions for Colorado's future and discuss strategies for keeping the "wild" in Colorado.

The conference opens with a discussion panel, to be held on the Auraria campus in Denver, in which six well-known citizens, active in public affairs, will share their perspectives on how to integrate economic growth with environmental protection.

The Saturday morning session, held at the CU campus in Boulder, will start with an overview of Colorado through time, beginning with its past as an undeveloped frontier up to land uses of today. Two possible scenarios will be portrayed. The purpose of this session is to highlight Colorado's rich past and to inspire new people to become involved in its future.

Senator Tim Wirth will speak during the buffet luncheon in the UMC ballroom.

Saturday afternoon will consist of concurrent sessions/strategy workshops covering Colorado's major environmental issues, including: air, water, wildlife, recycling, pesticides, and hazardous materials, outdoor recreation, the state legislature, ecosystems and biodiversity, agriculture, wilderness, rivers, urban land use, and grassroots activism. After the issue sessions will be a wrap-up panel of environmental leaders discussing future directions for Colorado's environmental community.

Following a reception for speakers and students, wilderness author and advocate Roderick Nash will give a keynote address entitled, "Colorado Wilderness: Past, Present, and Future". The final event of the conference is an "I Love Colorado" Valentine's Eve dance, with Hot Rize, a Colorado bluegrass band.

The fee for the conference is \$12 for the Friday and Saturday programs, and \$5 for the luncheon, or \$15 prepaid, for both. (The dance is additional.)

For more information contact the CU Environmental Center, UMC 331, Campus Box 207, University of Colorado, Boulder, 80309-0207.

Registration for "Colorado On The Edge"

Name _____

Address _____

Phone _____

- | | |
|---|------|
| <input type="checkbox"/> Conference only (Fri.& Sat.) | \$12 |
| <input type="checkbox"/> Conference & Luncheon | \$15 |
| <input type="checkbox"/> Conference- Lunch, & Dinner Sat. | \$25 |
| <input type="checkbox"/> C.U. students- Conference only | Free |
| <input type="checkbox"/> C.U. students- Luncheon | \$5 |

* Send registration to: The Environmental Center, UMC 331A, Campus Box 207, U. of CO, Boulder, 80309

* Make checks payable to University of Colorado*

*Please note: Admission to the dance with Hot Rize is additional to the conference fee. Students \$3. Others \$5. (Tickets will be sold at the door)

Seed Dispersal Mechanisms Workshop

The CONPS first workshop for the 1987-88 season took place November 14, 1987, at the Pikes Peak Research Station. The subject was "Seed Dispersal Mechanisms" and it was conducted by Dr. Boyce Drummond, director of the station. The Pikes Peak Research Station is located near Florissant, Colorado at an elevation of about 8,800 feet, with a spectacular view of the mountains. The station is an interdisciplinary scientific laboratory which involves research and the studying of geology, biology, and anthropology in the surrounding mountain environment. The station provides accredited courses through a number of colleges and universities. Workshop leader Dr. Boyce Drummond gave participants a fascinating day of learning. Drummond has studied plant/animal relation-

ships for twenty years and holds a Ph.D. in Ecology and Entomology from the University of Florida.

After an introduction and history of seed dispersal, Dr. Boyce Drummond transitioned into a presentation on why "seeds disperse and what are the advantages to dispersal". It benefits a seed to disperse and escape from its parent location if conditions are not good at the parent location. Seed predators such as birds and rodents can prey more where seeds are dumped together such as the ground area right below a tree trunk, so it is obviously to the advantage of the seeds to be able to get to another location further away from the parent site. What about competition with your siblings at the

continued next page

8th BIENNIAL HIGH ALTITUDE REVEGETATION WORKSHOP

March 3 & 4, 1988

Holiday Inn
Prospect Street
Fort Collins

Since 1974, the High Altitude Revegetation Workshop has been a pre-eminent forum for the discussion of the technology and unique environmental issues pertaining to revegetation and rehabilitation of disturbed lands at high elevations.

The Workshop is held every other year. It is a non-profit endeavor organized by a standing committee of volunteer professionals representing universities, government agencies, mining companies, ski areas, landscape architects, highway engineers, and contractors.

The 1988 High Altitude Revegetation Workshop program will include special sessions dealing with:

- adapted plant materials
- current research
- case studies in high altitude revegetation

- reclamation materials and techniques
- reclamation of mill tailings

The Workshop will also include an extensive exhibition area, special luncheon and banquet presentations, and keynote address.

Registration for individuals will be \$115 and will include lunches, a banquet, and the published proceedings. Students may register for \$25. (Student registration does not include the lunches or banquet.)

Registration and program information may be obtained from:

Gary Thor
Department of Agronomy
Colorado State University
Fort Collins, CO 80523
(303) 491-6517

Interested exhibitors should contact:

Mark Theisen
Bowman Construction Supply, Inc.
2310 S. Syracuse Way
Denver, CO 80231
(303) 696-8960

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parent site? This could be another reason to disperse somewhere else. Maybe light and water conditions are not quite suitable at the original parent site. Dr. Drummond talked about "directed dispersal hypothesis". Some seeds produced are valuable to a certain bird or animal which in turn carries the seeds to an outlying location. Chickadees and jays have long been known to cache seeds in bushes or trees as a food source.

Dr. Drummond elaborated on seed morphology and classification of fruit types. Previously participants were asked to bring unusual seeds to the workshop so that we could all better comprehend seed structure and seed adaptation. A most interesting fruit passed around the classroom was a campanula with shaved holes or pores located at the base of the fruit. After hanging down in the flowering stage the fruit then stands erect enabling the seeds to drop outwards from the bottom.

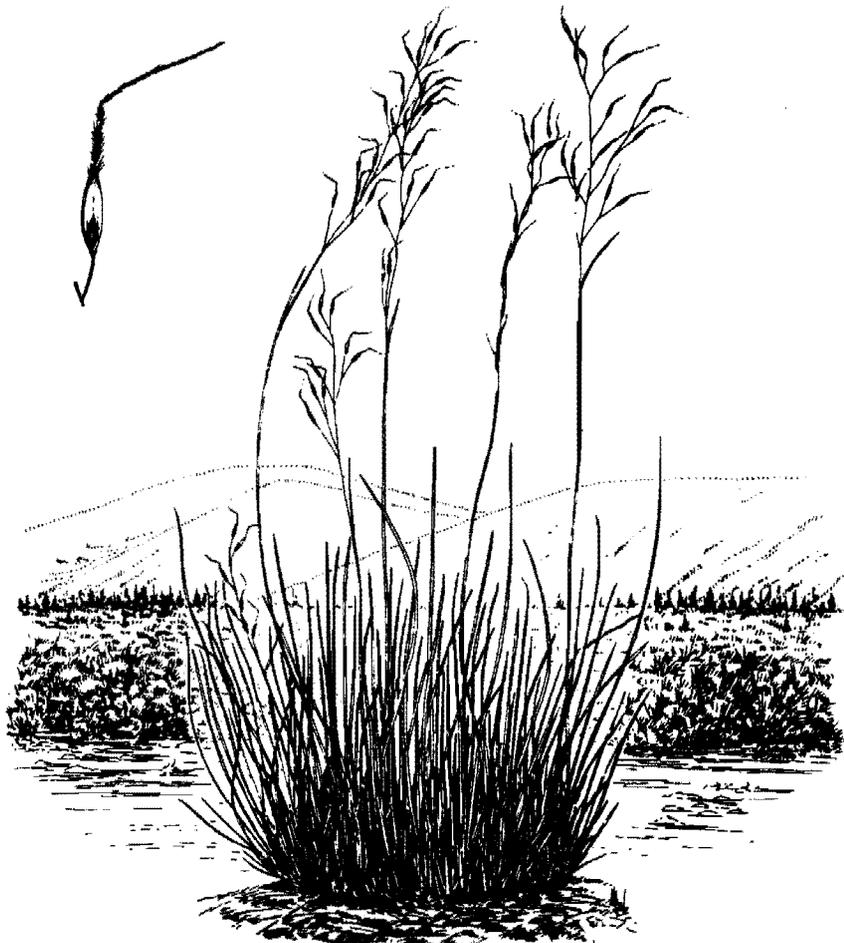
Perhaps the most fascinating segment of the workshop highlighted modes of seed dispersal. The dispersal classes were broken down into the following: self-dispersed, wind-dispersed, no special dispersal, water dispersal, dispersal on animal exteriors, dispersal by animal harvesters, and dispersal by animal interiors. An example of self-dispersal is found in Geranium fremontii which expels its seeds outward. Wind dispersal is more apt to occur when the seed is greatly reduced in size such as milkweed, and where there is a high surface to volume ratio such as silver maple seeds. Beggar's-tick or Bidens has a grasping or clinging adaptation that increases the likelihood of their transportation by animal or man exteriors. Dispersal by animal interiors can be observed with birds and the dispersal by animal harvesters can be seen with ants.

Boyce Drummond provided a most comprehensive and informative bibliography. Another interesting aspect of the class was the knowledge disseminated about the building of a seed collection.

A number of participants viewed the CONPS's herbarium collection for the Florissant Fossil Beds National Monument, which is housed at the Pikes Peak Research Station.

Those of you looking for an educational interesting weekend excursion would be well advised to visit the Pikes Peak Research Station. This facility is located on privately owned land that has been declared a National Environmental Study Area by the National Park Service. Dome Rock Wildlife Area, Mueller Ranch State Park, and the Florissant Fossil Beds National Monument are all nearby for viewing.

Tina Jones



SUMMER COURSES AT MEEKER

This summer the University of Colorado will offer a series of courses at Meeker, Colorado. Two of these which will be conducted between June 13 and July 1 should interest CONPS members.

MUSM547-3 Museum Field Methods in Botany

A study of mosses and lichens with intensive field work from desert-steppe to alpine-tundra. Emphasis on field and laboratory recognition of mosses and lichens in all life zones. Instruction includes plant taxonomy, the use of dichotomous keys, and methods of collecting and preserving plant specimens. The course format consists of the study of mosses and lichens in the field and laboratory. Students will have the option of assembling a collection of herbarium specimens. This course is especially suitable for life science teachers, naturalists, botanists, foresters, ecologists, zoologists, and land managers who need practical training in recognition and museum methods of Colorado western slope plants.

Jo Ann Flock, Assistant Curator of Botany at the University of Colorado Herbarium, has extensive experience in collecting, identifying and preparing lower plants. Research experience includes pro-

grams being carried out in Colorado, the Bering Strait, the Brooks Range in Alaska and New Zealand.

MUSM547-3 Museum Field Methods in Botany

A study of western slope flora with intensive field work from desert-steppe to alpine-tundra. Emphasis on field recognition of flowering plants in all life zones. Instruction includes plant taxonomy, the use of dichotomous keys, and methods of collecting and preserving plant specimens. The course format consists of the study of plants in the field and laboratory. Students will have the option of assembling a collection of herbarium specimens. This course is especially suitable for life science teachers, naturalists, botanists, foresters, ecologists, zoologists, and land managers who need practical training in recognition and museum methods of Colorado western slope plants.

William A. Weber, Professor of Natural History and Curator of the Herbarium at the University of Colorado at Boulder, is an authority on the flora of Colorado and author of Rocky Mountain Flora and Colorado Flora: Western Slope, the first text completely covering Colorado west of the continental divide. A Fellow of the Linnean Society, his research has taken him from Scandinavia to New Guinea, Nepal, Japan and the Galapagos Islands, with his most recent work taking place in the Altai of the USSR.

For more information, call John Dunn, 303-492-6409 or toll-free in Colorado, 1-800-332-5839.



The Fort Collins Chapter of CONPS is working with the City of Fort Collins, Fort Collins Audubon Society, and Poudre River Trust to create a small (1/2 acre) prairie garden at the Gustav Swanson Nature Area along the Poudre River in downtown Fort Collins. The main feature of the nature area will be a handicapped-accessible nature trail along the river through bottomlands dominated by cottonwoods and willows. The understory consists primarily of alien species such as summer cypress, smooth brome, crested wheatgrass, and quackgrass.

While our aim is not to recreate the full diversity of species found in the native prairie, we would like to demonstrate that native species can be used to create an attractive low-maintenance, water conserving landscape. We also would like to establish additional populations of native species (such as prairie gentian) which are rare in the area, and provide visitors an opportunity to experience first hand the beauty of native plant species. We will utilize seeds of native plants occurring in the Fort Collins area to perpetuate the local genetic strains.

The site we will reclaim is located near the proposed entrance to the nature area. In November, CONPS volunteers cleared the dense stand of summer cypress from the site. Also this fall, CONPS volunteers collected local seeds of big and little bluestem, blue grama grass, Canadian wildrye, switchgrass, western wheatgrass, june-grass, blazing star, coneflower, penstemon, prairie gentian, golden-rod, stoneseed, sunflower, and skunkbush. We are searching for good stands of Indian grass, side-oats grama, little bluestem, and other showy natives (including

those mentioned above). If you know of any good seed collecting areas near Fort Collins or have seed that you would like to donate, please contact us. Volunteers are needed for seed collecting and cleaning, site preparation and planting. If you would like to participate in this exciting project, please call Betsy Neely (224-4193) or Alan Carpenter (491-4991).



FIELD TRIP TO MESA DE MAYA

The Mesa de Maya is a lava-topped tableland about 50 miles east of Trinidad rising abruptly nearly 1000 feet from the surrounding rangeland. In this area of more than 300 square miles of mesas and canyons, drained on the north by the Arkansas River and the south by the Cimmaron River, are to be found unusual plants and archaeological treasures of great interest.

On the evening of 21 September 1987, we met at the lovely ranch home of Willard and Mary Ann Louden for a generous ranch buffet dinner. The evening was spent enjoying the home and renewing acquaintances and making new friends.

Saturday morning, shepherded by Willard and his brother, Richard, we all loaded into two pickups and were given a guided tour of some of the many acres of the Mesa de Maya region; driven over primitive "roads" many miles to see the only known Colorado plants of mesquite (Prosopis glandulosa), stopping frequently along the way whenever someone saw something not recognized or interesting. We had lunch at Goteras Springs, spotting some plants of Lobelia cardinalis in full bloom. Then we were the way on to see the only known Colorado plants of Bear Grass, Nolina texana. Along the way three wild burros were spotted and Willard took off, rounding them up so they could be seen by those in the second truck. Saturday night we were on top of the Mesa de Maya and enjoyed an excellent meal cooked over a large open fire. The day had been cool, pleasant and overcast and we enjoyed the heat of the fire as well as the food.

About 12:30 A.M., we woke to a fine drizzle. Richard got up early and resurrected the fire, so those

of us who had been damp joined him, and were joined shortly by all. The rain let up slightly as we enjoyed our hot breakfast cooked over the open fire. The rain drizzle returned, so sadly we decided that it was best not to continue to botanize. Those riding in the backs of the open pickups did their best to stay dry and warm - some more successfully than others - and we returned to the ranch house. Mary Ann and Willard put out a snack buffet while they prepared dinner. Because of the long drive back to Denver and points north, many decided to leave early.

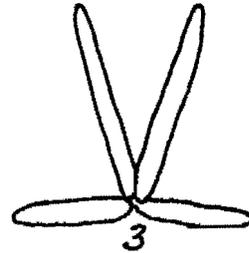
In spite of the truncated trip, the group identified about 135 different kinds of plants. So, thanks to Ivo Lindauer, we had a very successful trip and were able to see an area not generally open to the public.

Dale L. and Miriam L. Denham

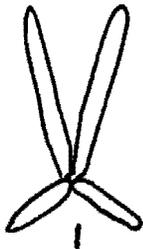
BLADDERWORTS

Bladderworts (Utriculariaceae) are notoriously difficult to identify, partly because they grow under water, collapse when taken from the water, and don't fruit very frequently. We have three of them in Colorado. Goran Thor has just published a paper (Utricularia stygia Thor, a new Utricularia species in Sweden. Svensk Bot. Tidskrift 81:274-280. 1987) that introduces a new and ingenious method for telling them apart. It appears that inside the bladders of the leaves there are four-celled, four-branched hairs (presumably aiding to trap the microorganisms that enter the bladders) whose cells are linear-oblong, all attached at a common point. Visualize these hairs as a set of four matchsticks, two long and two somewhat shorter. In the common Utricularia vulgaris the long

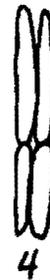
point in the same direction, the longer pair within the shorter pair, like a four-toed bird's foot. In U. ochroleuca (known from only



one or two collections) the short pair form a straight line perpendicular to the V-shaped longer pair. And if you find one in which the long pair and the short pair are in a straight line like two pairs of cigars end to end you will have added a species to the State Flora: U. intermedia



arms form a V with a narrow angle, and the short arms form an upside-down V with an angle of over 90 degrees. In the less common U. minor the two pairs of arms all



which occurs in America in the east and the far northwest, and which could well be expected in Colorado.



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RETURN AND MAILING ADDRESS

Colorado Native Plant Society
P.O. Box 200
Fort Collins, Colorado 80522

SCHEDULE OF MEMBERSHIP FEES

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

NEWSLETTER CONTRIBUTIONS

Please direct all contributions to the newsletter to

Peter Root
4915 West 31st Avenue
Denver, CO 80212

Deadlines for newsletter materials are February 15, April 15, June 15, August 15, October 15 and December 15.

There is a special need for short items such as some unusual information about a plant, a little known botanical term, etc. Please include author's name and address, but items will be printed anonymously if requested.

MEMBERSHIP RENEWALS AND INFORMATION

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

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

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Denver, Colorado

Time Value Material - Mailed on or about January 15