

Aquilegia

Newsletter of the Colorado Native Plant Society



“. . . dedicated to the appreciation and conservation of the Colorado native flora”

Volume 27 Number 5

November - December 2003

SOCIETY NEWS

Silent Auction CONPS 26th Annual Meeting.

The Silent Auction was a huge success! There was just the right number of donations and member enthusiasm. Participants were heard to promise that next year they would have donations also, which is encouraging to the silent auction committee. This year's auction raised over \$400.

The Society thanks the following contributors:

Beverly Baker, Boulder
Bruce Barnes, Pendleton, Oregon
Charlotte Bieber, Denver
Marian Brandenburg
Mikel Brawner, Harlequin Gardens, Boulder
Dick & Marty Fisher, Ramshorn Native Plants, Steamboat Springs
Ann Henson, Longmont
Al & Betty Schneider, Cortez
Alice Woods, Pine

We encourage you to start thinking now about the items you can donate for next year's silent auction.

New Members of the Board of Directors

The five directors elected at the Annual Meeting include two incumbents, Sue Kamal and Pat Ploegsma, and three members new to the Board of Directors, Dick Fisher, Ivo Lindauer and John Proctor. Sue is continuing her service by assuming the role of Chair of the Education and Outreach Committee. Pat will maintain her work on graphics and web-based registration.

We welcome the three new Board members and encourage Society members to contact them. Here is a short introduction.

Dick Fisher has been a very active CONPS member for about

eight years. He has a degree in Geology and graduate degrees in medicine and business. With his wife Marty, he runs a small native plant propagation nursery in Routt County. They are volunteer stewards for the Colorado Natural Areas Program. He is a member of the International Plant Propagators Society and Colorado Nursery Association.

Ivo Lindauer is an emeritus professor of Botany at the University of Northern Colorado. He taught biology, botany and ecology at the UNC until his retirement in 1997. His area of research was riparian ecology and plant community assessment. He worked on a project in northwest Colorado developing an ecosystem model to determine the impact of energy development on wildlife and has been a project evaluator with the National Science Foundation.

John Proctor is the Forest Botanist for the Medicine Bow-Routt National Forest and Thunder Basin National Grassland, based in Walden. He is very interested in the peatlands of Colorado, which support populations of many rare and interesting species, including a third of the sensitive species on the Medicine Bow-Routt. He and his colleagues have been highly successful in finding previously unknown peatlands and in implementing protective measures for them. John was a botanist with the Siskiyou and Rogue National Forests in Oregon.

“Society News” continues on page 2

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Committee Chairs Needed

The Board of Directors is recruiting for chairs of the Conservation and Field Trip Committees.

The **Conservation Committee** reviews and comments on land management plans as well as legislation. It also is involved with on-the-ground conservation projects. For more information, contact Joe Rocchio, 970-491-2772, jrocchio@lamar.colostate.edu, or CONPS President Jill Handwerk, jhand@lamar.colostate.edu.

The **Field Trip Committee** Chair coordinates the Field Trip Program of the Society. Duties include organizing the schedule of field trips, working with field trip leaders to ensure that CONPS policies are followed, and coordinating with the newsletter editor for publication of the schedule. Registration is handled by the individual trip leaders. For more information, contact Gwen Kittel, gwen_kittel@naturereserve.org or CONPS President Jill Handwerk, jhand@lamar.colostate.edu.

Thanks to Joe Rocchio, Conservation, and Gwen Kittel, Field Trips, who have done an excellent job for the past several years.

Research Grant Awards

In May, the Board of Directors awarded research grants from the Society. Results of the research projects will be reported in future issues of *Aquilegia*. Congratulations to the following awardees:

John Marr Fund

Ken Keefover-Ring, EPO Biology, University of Colorado at Boulder

Proposal: Chemical ecology of *Monarda fistulosa* in Colorado

Jeffrey Brasher, Department of Biological Sciences, University of Northern Colorado

Proposal: The Colorado Interactive Flora (CIF)

Dr. William A. Weber, Professor Emeritus, University of Colorado at Boulder

Proposal: Bryophyte flora of Colorado

Myrna P. Steinkamp Fund

Linda Courter, Department of Biology, Colorado State University.

Proposal: The Real Deal? Seeking evidence of hybridization in the Colorado endemic *Physaria bellii* (Bell's twinpod) using Randomly Amplified Polymorphic DNA (RAPDs)

Dr. William A. Weber, Professor Emeritus, University of Colorado at Boulder

Proposal: Bryophyte flora of Colorado

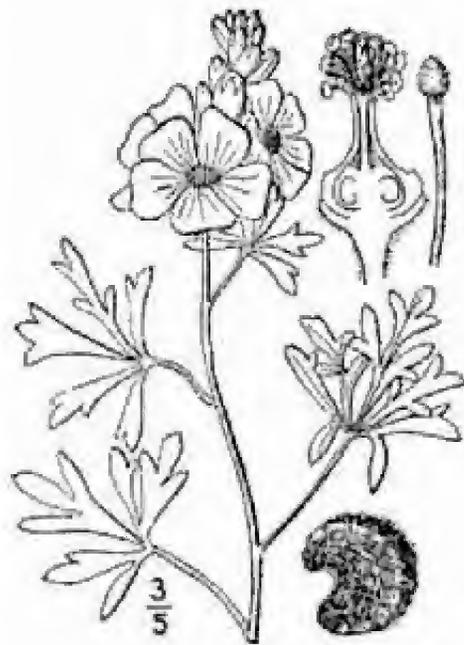
IN MEMORIAM Mary Elizabeth Edwards 1915 - 2003

Mary E. Edwards, Lakewood, died in her home on September 23, 2003. She was married to Page Edwards in 1939. She and her family lived in Durango for many years before moving to Lakewood in 1975. She received a Masters of Science degree in Arts and Biology from the University of Colorado at Denver in 1984.

Mary was an Honorary Lifetime Member of the Society. She organized the plant inventory at Florissant Fossil Beds National Monument. She contributed to plant inventories for Chimney Rock National Monument and Rocky Mountain National Park. She was active in CONPS field trips and workshops and shared her knowledge with new members.

She was associated with the Herbarium at the Denver Botanic Gardens for over 20 years. She revised and edited the Ninth Edition of *Meet the Natives* in 1992.

The family requested that donations in her memory be made to CONPS.



Yerba de la Negrita - *Sphaeralcea coccinea*
Scarlet globemallow

Aquilegia via Email

Aquilegia is available via email. Please be patient while we work out some bugs. Send comments, suggestions or your email address to Eric Lane, eric.lane@ag.state.co.us, or Alice Guthrie, molly82@earthlink.net.

ETHNOBOTANY OF FIVE PLANTS FROM *BOTICAS* (HERB STORES)

BY

Donald L. Hazlett, Ethnobotanist at Large
CBCYCDG@MSN.COM

When asked about where I'm from, I like to say: I'm a Colorado native (I was born here), I'm almost a Colorado pioneer, but I'm not indigenous. Pioneer is an intermediate category between native and indigenous, but how do we define pioneer? One clue is that to obtain a Colorado license plate with "pioneer" on it, you must have proof that one of your ancestors was a Colorado citizen 100 or more years ago. That seems fair, but by this criteria I can't be a Colorado pioneer for a few more years. My grandfather didn't settle in the Arkansas Valley until 1907.

I don't mind if the Motor Vehicle Department sets an arbitrary standard for pioneer, but how long must a "people" live in a place before they are indigenous? If there were guidelines for indigenous status, they would probably include an in-depth knowledge and use of local plants, but they would still be arbitrary. We have a similar problem with a definition for a native plant. For plants, we don't use the liberal criterion of being "born" (pollinated) in Colorado for a species to be native. If we did, our exotic weed problem would disappear. Instead, the residency time required for a plants species to be native is more in line with the time needed for a "people" to be indigenous.

No one disputes that Native Americans are indigenous, but were early Spanish American residents pioneers or do they qualify as indigenous? Spaniards have been present in the New Mexico/Colorado region for over 400 years, ever since Don Juan de Oñate brought the first Spanish colony to New Mexico around 1600. The long isolation of Spanish Americans in "The Valley" (San Luis Valley) nurtured a rich tradition of dependence on local plants for food, fiber, medicine, ceremonial and spiritual uses (Bye, 1986, Curtin, 1997, Meyer & Meyer, 1994, Moore, 1977, Simmons, 1980). I will briefly discuss five such plants (with indigenous Spanish names) that are currently for sale in Colorado *boticas* (herb stores). These

Spanish common names were used long before European botanists imported and acculturated plant names such as groundsel, pennyroyal, goosefoot, mugwort and toadflax.

1. **Cachana** (*Liatrix punctata*), blazing star, gayfeather (Asteraceae). The root of this plant is for sale, but with no indication on the package of its use (legalities). In a Denver *botica* I was told it was used to treat infertility in women. Moore (1977) reported its use in a tea for sore throats, or burned and inhaled to stop nosebleeds. Meyer & Meyer (1994) and Simmons (1980) stress the importance of this root in witchcraft, both as a cure and a preventative. Pieces of **cachana** are carried as a talisman or buried by the front door as an invisible shield against spells. Extreme care is suggested in using this plant, since it is dangerous if abused. This potential danger makes me wonder if *Liatrix* roots were a New World surrogate for the European mandrake (*Mandragora officinarum*), a root that also could be used for good or evil. (Note: The dual possibility of mandrake use for good or evil (stored in a bottle) may have inspired the choice of good or evil offered by the genie-in-a-bottle.) *Botica* herbs with names similar to **cachana** are **cachanilla** (unidentified) and **cachano** (*Eryngium*).



Inmortal - *Asclepias asperula*
Antelope Horn

2. **Inmortal** (*Asclepias asperula*), antelope horn (Asclepiadaceae). **Inmortal** (immortal) probably refers to the dying back of this plant in the winter and an "immortal" resprouting in the spring. Moore (in Curtin, 1997) mentions this root is used in a powdered form for teas to treat headaches and chest pains. Moore also indicated that wild collection and use of **inmortal** as a cardiac stimulant has increased so much in recent decades that it is now scarce in some areas.

3. **Yerba de la Negrita** (*Sphaeralcea coccinea*), cowboy's delight, scarlet globemallow (Malvaceae). This abundant, deep-rooted native plant has an interesting set of common names. The European "mallow" name was modified to scarlet globemallow. Not a bad name, but the flowers are usually more of an orange color. The cowboy genre apparently recognized that few prairie plants had orange flowers. Some wrangler must have been pleased to see these bright flowers and the name "cowboy's delight" was born. Plants with less-striking or pale-orange flowers were once called "cowboy's half-smile" (I called them that once).

The indigenous Spanish name for *S. coccinea* is **yerba de la negrita**. This translates as "herb of the attractive, dark-complexioned lady". Spanish Americans use **yerba de la negrita** primarily as a shampoo to prevent hair loss, to stimulate hair growth and to "strengthen" hair. A less frequent name for this plant is **yerba de la negra** (herb of the dark-complexioned lady), where **negra** is said without the suffix "ita" that implies affection. **Una negra** (a dark-complexioned lady) may choose to use this shampoo in order to become **una negrita** (an attractive dark-complexioned lady). Moerman (1998) reported no shampoo use of this plant by indigenous people. This raises the possibility that Spaniards used this mucilaginous plant as a substitute for a European plant (Malvaceae?) that was used as a shampoo.

"Boticas" continues on page 4

"Boticas" continued from page 3

4. **Cañutillo** (*Equisetum*, *Ephedra*), **cola de caballo**, horsetail, scouring rush (*Equisetaceae* and *Ephedraceae*). Naturalists soon learn that ancient horsetails have easily-recognized, jointed stems. When a Mormon tea branch (*Ephedra*) is first encountered, its similarity to the stem of a horsetail is quickly noticed. This similarity explains the Spanish name **cañutillo** for both plants. To distinguish them, *Ephedra* stems are called **cañutillo del campo** (little pipe of the field) and *Equisetum* stems are called **cañutillo del llano** (little pipe of the plain). **Cola de caballo** (horsetail) is among the best selling plants in local *boticas*. Its main use is as a diuretic to treat kidney and urinary tract infections that are accompanied by a mild fever. There are similar and a few different uses for **cañutillo del campo**.

5. **Zacate de cinco dedos** (*Chloris virgata*), windmill, five-finger feather grass (*Poaceae*). The panicle of this distinctive grass has 6-20 digitate branches in a terminal inflorescence, not only five (**cinco**) as suggested by **zacate de cinco dedos** (five-finger grass). This plant is dried, ground and sold in *boticas* as a talisman to protect the bearer from evil. An explanation for this use is a similarity between *C. virgata* and *Chiranthodendron pentadactylon* (*Sterculiaceae*). The latter is a medicinal flower from a tree that was highly esteemed by Aztec royalty, a flower that is still for sale in *boticas* as "**flor de manita**" (hand flower). This flower has five red stamens that curve outward to resemble a claw (pentadactylon). Knowledge of this famous Aztec plant (with digits) could have inspired someone to collect, name and market five-finger feather grass.



Zacate de cinco dedos - *Chloris virgata*
Five-finger grass

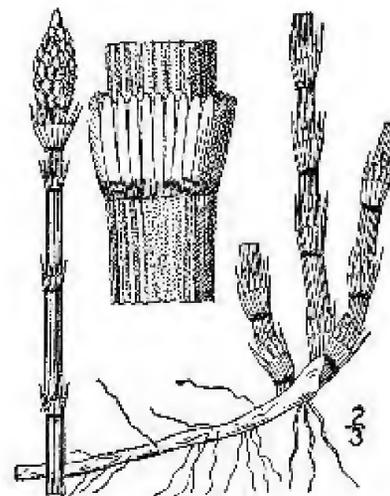
These Spanish plant names and uses illustrate a few ethnobotanical concepts. First, widely used herbs are typically common plants (**yerba de la negrita**), otherwise, they would not be readily available and could not be commonly used. Second, knowledge of plant use in a previous homeland can prompt similar uses for native plants in new

areas. This may explain the uses for **cachana** and **zacate de cinco dedos**. There can also be similar names (folk taxonomies) for plants in very different plant families, such as the two **cañutillos**. Unlike the taxonomic quest for a single, correct scientific name, an ethnobotanist welcomes the co-existence of many folk names for

the same species. Cowboy's delight and **yerba de la negrita** are perceptions by different cultures for the same plant, but both names reflect interactions between plants and people.

It is intriguing to unravel the maze of plant common names found in *boticas*.

Misspelled and misapplied scientific and common names are generously mingled with correct plant names on hundreds of bags of dried plant parts from Europe, Mexico, other states or nearby vacant lots. If you sort through these for native plants, novel plant uses pop up unexpectedly. *Botica*



Cañutillo, cola de caballo - *Equisetum* sp.
horsetail or scouring rush

plants also have a unknown mix of emic (cultural) and etic (biochemical) efficacies (Kay, 1996). I hope to have more of these names, uses and efficacies unraveled by the time I become a Colorado pioneer. To solve *botica* mysteries, however, I need and solicit all the help I can get (cbcyd@msn.com).

Literature Cited

- Bye, R. A. and E. Linares. 1986. Etnobotanical Notes from the Valley of San Luis, Colorado. *Journal of Ethnobiology* 6(2): 289-306.
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- Kay, M.A. 1996. *Healing with Plants in the American and Mexican West*. The University of Arizona Press, Tucson, AZ.
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- Moerman, D. 1998. *Native American Ethnobotany*. Timber Press Inc., Portland OR.
- Moore, M. 1977. *Los Remedios de la Gente*. Michael Moore Publication, Santa Fe, NM.
- Simmonds, M. 1980. *Witchcraft in the Southwest*. University of Nebraska Press, Lincoln, NE.

DEADLINE APPROACHES

Submit *Aquilegia* contributions by January 10

Submit contributions for Vol. 28, No. 1 of *Aquilegia* on or before January 10, 2004. Articles not exceeding 1000 words are especially welcome. Previously published articles submitted for reprinting require permission. Follow the format from previous issues closely. Submit via e-mail or on disks as an MS Word or rtf document. See page 7 for additional information.

Holiday Gift Ideas (...or what every plant lover wants) available from the CONPS Sales Committee

One of the benefits of membership in CONPS is a discount on books and merchandise purchased through the CONPS Sales Committee. As the holiday season approaches, remember to purchase books through CONPS for a substantial price reduction. The book selection is focused on Colorado and neighboring states and includes flora, field guides, wildflower hikes, plant identification, natural history, botanical essays, ecology, restoration and gardening guides. Hats and patches with the CONPS logo are available, as are t-shirts and tote bags with a Colorado native plant design by Carolyn Crawford.

Merchandise can be ordered by mail or by contacting Ann Armstrong (see enclosed order form). Proceeds from merchandise sales help fund the programs and services of the Society.

BOOK REVIEWS

An Attractive and Useful Primer for Trees and Shrubs

Jan Loechell, Assistant Professor/Reference Librarian
Regis University

Common Southwestern Native Plants: An Identification Guide

by Jack L. Carter, Martha A. Carter and Donna J. Stevens
Mimbres Publishing, 2003
CONPS Price: \$16.00
plus tax and shipping

It's always a pleasure to see a new guide to plants, especially one with beautiful color photographs. It is an even greater treat to find such a book focusing specifically on native plants of the region with information about their use as landscape plants. Jack Carter, in collaboration with his wife, Martha Carter, and Donna Stevens, has produced an attractive beginner's guide to native plants of the Southwest with emphasis on plants commonly found in New Mexico, Colorado and Arizona.

This book, described by the authors as "a botanical field primer," is intended for the weekend naturalist with no background in botany. To avoid overwhelming the beginner, it is intentionally limited to 145 of the most common native plants one might encounter while hiking.

Emphasizing trees and shrubs, the book begins with a section of high quality, color photographs of each of the plants described later in the book. The photograph section ends with 13 pages of wildflower ("herbaceous plants") photos, each with scientific and common names, family and a paragraph including some interesting facts about the plant such as unusual characteristics, pollinators and uses.

For each tree, shrub, vine, cactus or agave-related plant in the photo section, there is a full page account of the plant in the following section of the book. The plant entries include a black and white line drawing of the plant, scientific and common names, family, related or similar looking species, description, distribution and habitat. Information is provided on landscape uses, origin of the name, uses by humans and wildlife and other items that bring the plant alive to the reader. Also included are a couple of glossaries (one with excellent illustrations), scientific and common name indexes, and a list of references and selected readings.

Jack Carter is Professor Emeritus of Biology, Colorado College, Colorado Springs and author of *Trees and Shrubs of Colorado* (available from CONPS) and *Trees and Shrubs of New Mexico*, available from Mimbres Publishing, P. O. Box 1244, Silver City, NM 88062, 505-388-9221, jmcarter@zianet.com or Johnson Books in Boulder.

Celebrating Columbines

Ann Armstrong, Plant Ecologist
CONPS Sales Committee Chair

Columbines: Aquilegia, Paraquilegia, and Semiaquilegia

by Robert Nold
Timber Press, 2003
Hardbound, 158 pp
CONPS Price: \$20.50
plus tax and shipping

Colorado resident Robert Nold has written an attractive companion book to his award-winning work *Penstemons*. *Columbines* is a comprehensive treatment of *Aquilegia* and related genera. Nold untangles the taxonomic knots of this group and provides keys for North American, European and Asian species. The 65 species accounts are packed with technical, anecdotal and often amusing information on wild species as well as cultivars and hybrids. Other topics include propagation, cultivation, diseases, pests, morphology and pollination. The book is beautifully illustrated with watercolors by the author's wife Cindy Nelson-Nold, line drawings by Carolyn Crawford and color photographs. Both botanists and gardeners will enjoy this celebration of columbines.

Coming soon....

The Valley of the Second Sons: Letters of Theodore Dru Alison Cockerell, a young English naturalist, writing to his sweetheart and her brother about his life in West Cliff, Wet Mountain Valley, Colorado, 1887-1890

by William A. Weber, Editor
Pilgrims' Process, Inc., January 2004
572 pages. Retail price \$39.95

CHAPTER NEWS

Boulder Chapter

Boulder Announces New Chapter President. Tommi Scanes has accepted the nomination of chapter president. She hails from South Africa, where she dedicated much of her leisure time to her love of native plants. Arriving in Colorado seven years ago, it was natural that Tommi would extend this love to our Rocky Mountain natives. She has been a member of CONPS for one year and is completing a further degree in Horticulture in her spare time.

Monthly chapter meetings are the on the second Thursday of the month at 7 PM at the City of Boulder Open Space and Mountain Parks offices in the north building conference room, 66 South Cherryvale Road. From South Boulder Road, go south on Cherryvale 1/10 mile and turn west onto a lane to the offices. Contact Tommi Scanes, scanesclan@comcast.net or 303-682-1208.

December 11, 2003 Use of Native Plant Species in Restoration. Dr. David L Buckner will be discussing the use of native plants in restoration. You can expect a short history of native plants used, and discussion on the biology and plant biodiversity aspects of using native plants. Dave will also discuss genetic diversity issues in restoration.

January 8, 2004 Butterfly Gardening using Native Plants. Sarada Krishnan will talk on gardening for butterflies, with an emphasis on using natives. She will share her experience at the Butterfly Pavilion in Westminster, where she is Horticulture Director. She has authored the book *Butterfly Gardening, a Guide for Colorado Gardeners*. Sarada has kindly donated some books to CONPS and we will have her books available if you would like to purchase one (and possibly persuade her for an autograph).

Fort Collins Chapter

Monthly meetings are scheduled October through April at 7:00 PM in the CSU Anatomy-Zoology Building, Room E112. Join us for dinner with the speaker at 5:15

PM at Avogadro's Number on Mason St. in Fort Collins. For more information, contact Chapter President Annette Miller, 970-495-3240 or almiller@lamar.colostate.edu.

December 2, 2003 An Introduction to Soil-Plant-Microbe Relations. Go Underground! Dr. Mary Stromberger, CSU.

Metro-Denver Chapter

Monthly meetings are held September through April at 7 PM in the Waring House at the Denver Botanic Garden. The Waring House is the mansion just south of the main entrance on York Street. To enter, head south on York past the Gardens main entrance. Make immediate right into parking lot that says "Staff Parking". For more information, contact Chapter President Rita Berberian at rberberian@hotmail.com or (303) 513-0591. Prior to the meeting at 5:30 PM, members are invited to join speakers for pizza at Angelo's, 620 East 6th Ave (between Pearl and Washington) in Denver.

December 9, 2003 Using Plants for Environmental Cleanup. Elizabeth Pilon-Smits, Colorado State University, will discuss her research on phytoremediation, which involves the use of plants and their associated root microbes to clean up environmental pollution.

January 27, 2004 Propagation of Native Plants. Marty and Dick Fisher, Ramshorn Native Plants, will discuss native plant propagation for use in landscaping. Discussion will include ethical seed collection, organic propagation methods using unheated greenhouses and open seed beds, companion planting, and sources of native plant propagation information. Participants will be able to use this information for growing native plants in their own gardens.

February 24, 2004 The Return of the Native: A Paleobotanist's View of Colorado Native Plants. Kirk Johnson, Denver Museum of Nature and Science. The fossil plant record of Colorado stretches back over 300 million years and spans a diversity of ecosystems and biomes. Many plants that are now considered exotic to

Colorado once lived here when the climate and landscape was different. Some of these plants have been reintroduced as ornamentals. Paleobotanist Kirk Johnson will unravel this curious history of changing climates and migrating trees.

March 23, 2004 26 Years of Plant Conservation at the Colorado Natural Areas Program. Ron West, CNAP Program Manager.

April 27, 2004 Song of the Alpine. Joyce Gellhorn, author.

May 2004 Picnic and Hike. Date and Location TBA

July 2004 Garden Tour. Details TBA

We need help! This event will only take place if there are volunteers. We need people with native gardens and volunteers to help organize the event. If you are interested in showing off your native landscape or helping organize the event, please contact Denver Chapter President, Rita Berberian, 303-513-0591 or rberberian@hotmail.com.

Plateau Chapter

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

December West Slope workshops and field trips will be posted on the CONPS website (www.conps.org).

Southeast Chapter

Activities are scheduled throughout the year. Contact Co-President Doris Drisgill at Ddrisgill@cs.com.

December 17 Plant Photo ID

Southwest Chapter

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



Colorado Native Plant Society

Aquilegia

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

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

Schedule of Membership Fees

Life	\$250
Supporting	\$50
Organization 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 Eric Lane (Chair of Membership), 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 is published four or more 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. Articles for *Aquilegia* may be used by other native plant societies or non-profit groups, if fully cited to author and attributed to *Aquilegia*.

Articles not exceeding 2000 words in length and shorter items fewer than 500 words in length, 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 (IBM preferably) are appreciated. Please indicate word processing software and version; if possible, submit as an RTF (rich text format) file.

Please direct all contributions to the newsletter to:

Alice Guthrie

509 Collyer

Longmont, CO 80501

E-Mail: molly82@earthlink.net

guthriea@ci.boulder.co.us

Officers

President	Jill Handwerk .. 970-491-5857
Vice-President ...	David Anderson . 970-484-0774
Secretary	Kim Regier 303-556-8309
Treasurer	Georgia Doyle .. 970-491-6477

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Ivo Lindauer (05) Palisade 970-285-1112
Pat Ploegsma (05) Strasburg 303-622-9439
John Proctor (05) Walden 970-723-8204

Chapter Presidents

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Metro-Denver . . .	Rita Berberian . . . 303-513-0591
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Southeast	Doris Drisgill . . . 719-572-6972
	and George Cameron
Southwest	Sandy Friedley . . . 970-884-9245

Standing Committees and Chairs

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Field Trips	Vacant
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Restoration . . .	and Lisa Tasker . . 970-544-3633
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Rare Plant	Eleanor
	Monograph . . . Von Barga 303-756-1400
Research Grants	Neil Snow 970-330-4823
Sales	Ann Armstrong . . 720-564-2052
 Sue Kamal 970-353-9240
 Laurel Potts 970-625-4769
Website	Bob Clarke 970-242-6067
Workshop: East	Jill Handwerk & . . 970-491-5857
 Mignon Macias . . . 303-377-066
West	Gay Austin 970-641-6264

MEMBERSHIP APPLICATION AND RENEWAL FORM

Name(s) _____

Address _____

(Address) _____

City _____ State _____ Zip _____

Phone () _____ E-mail _____

MEMBERSHIP CLASS:
 Dues cover a 12-month period.
 ___ Individual, \$15.00
 ___ Family/dual, \$20.00
 ___ Senior, \$8.00
 ___ Student, \$8.00
 ___ Corporate, \$30.00
 ___ Supporting, \$50.00
 ___ Lifetime, \$250.00

Chapter: ___ Boulder ___ Fort Collins ___ Metro Denver ___ Plateau ___ Southeast ___ Southwest

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 - 2003-2004

CHAPTER EVENTS

- Boulder Chapter**
- December 11 Use of Native Plant Species in Restoration
- January 8 Butterfly Gardening using Native Plants
- Fort Collins Chapter**
- December 2 An Introduction to Soil-Plant-Microbe Relations. Go Underground!
- Metro-Denver Chapter**
- December 9 Using Plants for Environmental Cleanup
- January 27 Propagation of Native Plants
- February 24 Return of the Native: A Paleobotanist's View of Colorado Native Plants
- March 23 26 Years of Plant Conservation at the Colorado Natural Areas Program
- April 27 Song of the Alpine
- May Picnic and Hike
- July Garden Tour

Southeast Chapter

December 17 Plant Photo ID

SOCIETY EVENTS

WORKSHOPS

- Dec. 6, 7 Beginner Archaeobotany
- Jan. 10, 11 Asteraceae Tribes
- Feb. 7, 8 Sedges of Colorado
- March 20, 21 Native Orchids of Colorado
- April 17, 18 Ferns of Colorado
- May 22, 23 Gardening in Colorado

BOARD MEETINGS

- November 15 Longmont Public Library
- January 24 Front Range
- February 28 Front Range
- April 3 Front Range
- May West Slope



Colorado Native Plant Society

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Place
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