

Aquilegia

Newsletter of the Colorado Native Plant Society



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

Volume 28 Number 4

WORKSHOP EDITION

September - October 2004

2004-2005 COLORADO NATIVE PLANT SOCIETY WORKSHOP PROGRAM

Mignon Macias, Workshop Committee Chair

Thanks to so many wonderful Colorado Native Plant Society Members, we have another exciting workshop season this year. Six workshops have been organized to take place this season. Boulder, Denver and Colorado Springs are the locations for the workshops. Some of the upcoming workshop topics include

Paleobotany
Mosses of Colorado
Beginner Plant ID
Mycorrhizal Associations

Registration Information

This year, announcements and registration will be handled in a different manner from previous years. Workshops will be announced at three times - in the fall (September/October), winter (February/March) and spring (April/May) newsletters. Registration is **mail-in only** and requires **payment at the time of registration**. The fee for attending a workshop for members is \$12/session. Non-members pay a one time fee of \$27 for the first session (which includes a year membership) and \$12 for each subsequent session. **THE REGISTRATION FEE IS NON-REFUNDABLE.**

To register, please include workshop title, your name, address, telephone number, email address and an address label. Registration can only be processed with all of this information. Include the workshop fee of \$12 (members) or \$27 (non-members) and mail to

Workshop Coordinator-Mignon
CONPS
P.O. Box 200
Fort Collins, CO 80522

For those of you who must cancel at the last minute, we appreciate your \$12 contribution to CONPS and ask that you email or call Mignon Macias, mignonmacias@mindspring.com or 303.249.2977, so she has an opportunity to fill your spot.

Workshops have always been very popular and often we have been unable to accept everyone. Please help us accommodate all those who wish to attend a workshop.

Workshops

VIOLACEAE OF COLORADO

Leaders: Tass Kelso & Bill Jennings

Location: Colorado College, Colorado Springs

First Session: November 6, 2004

Second Session: November 7, 2004

Time: 9 am to 3pm

Tass Kelso and Bill Jennings have been studying the violets of Colorado for the last several years. As a result of these observations, they have some new ideas about the classification and nomenclature of Colorado's violets, as well as tips for identification. It appears that many of the species attributed to Colorado are part of polyploid complexes and may be better treated by grouping similar forms under the same name. Under this approach, only about 15 taxa actually occur in Colorado in two genera (*Hybanthus* and *Viola*). Learn about this group which reproduces by seeds, stolons, and cleistogamous (self-fertilizing) flowers, producing a bewildering array of forms, often in the same population.

“Workshops” continues on page 2

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"Workshops" continued from page 1

PLANT ECOLOGY: BEGINNING SOILS

Leader: David Buckner

Location: Foothills Nature Center, Boulder

First Session: January 15, 2005

Second Session: January 16, 2005

Time: 9 am to 3pm

An understanding of the ecology of native vascular plants of Colorado requires an understanding of the nature of the soils that they occupy. This workshop will take an elementary look at the major physical, chemical, and biological properties of soils and how these affect the distribution of vascular plants. Geology, geomorphology and biological modification also bear on the ecological nature of growth media in western landscapes. The participant will be offered the basics of these properties and processes along with examples of how plant community and individual plant species' occurrence are affected. There will be selected hands-on learning opportunities available during the day.

Watch for more workshop announcements in upcoming newsletters.

Society Announcements

Annual Meeting Results

For those of you who did not attend the annual meeting, it was an exceptional event. Karen Vail did an excellent job on the arrangements. Many thanks to her and all those who helped her, including Dick and Marty Fisher, and John Proctor.

CONPS members elected six board members - five will serve a two-year term, and the sixth will fill the remainder of Pat Ploegsma's term (until September 2005). Newly elected board members, serving two year terms, are

Jennifer Ackerfield
John Giordanengo
Brad Johnson
Gwen Kittel
Jan Loechel

Laurel Potts will serve the remainder of Pat Ploegsma's term.

Additional information on the annual meeting, including the Society Awards and the silent auction, and the new board members will be in a future newsletter issue.

Board of Directors

At the board meeting on Sunday, the Board approved the dual position of Chapter President and Treasurer for Naomi Nigro, the new Denver Chapter President, as well as elected officers for the coming year. Officers for 2004/2005 are

Laurel Potts - President
Dave Anderson - Vice President
Kim Regier - Secretary
Naomi Nigro - Treasurer

The Board designated the following dates for Board meetings:

November 13

January 8

March 5

April 9

May TBD, West Slope

Final meeting locations will be available by contacting Kim Regier, 303-556-8309, or kimberly.regier@cudenver.edu.

Sales Committee

The Sales Committee is looking for members interested in being part of the Book Sales Committee. We need someone to work with Amazon.Com and also explore ways to increase sales for the Society. Additionally, we need a member to help coordinate the Used Book Sale planned for early next year. Please consider this opportunity to help your Society. Contact April Wasson to volunteer, 303-763-7679 or apriladw@earthlink.net.

Southeast Chapter

The Southeast Chapter is recruiting for Chapter President. For information on duties or to volunteer, please contact Doris Drisgill, Ddrisgill@cs.com, 719-578-1091, or George Cameron, gpcameron@juno.com, 719-634-4431.

Message from the President

Welcome and Thanks!

The Colorado Native Plant Society's Annual Meeting, held in September, is a time of elections where we vote for new Board of Directors members and Officers. This year we have two officers passing the torch after holding office for FOUR years each. These outgoing stars are President Jill Handwerk and Treasurer Georgia Doyle. Many thanks to both as well as departing Board Members Mark Simmons and Neil Snow. I'm serving as President and our new Treasurer (and Denver Chapter President!) is Naomi Nigro. Dave Anderson and Kim Regier have graciously agreed to continue as Vice-President and Secretary respectively.

Congratulations to Society Award recipients Carolyn Crawford, Lifetime Membership; and Andy Kratz and Pat Ploegsma, Special Merit Awards.

Welcome to the new "crop" of Directors: Jennifer Ackerfield, John Giordanengo, Brad Johnson, Gwen Kittel (returning), and Jan Loechel. I look forward to working with all of them and continue great work for Colorado's flora.

Laurel Potts



Viola adunca
from Tass Kelso,
Colorado College

COLORADO NATIVE PLANT SOCIETY DISCOUNTED PUBLICATIONS		October 1, 2004	
Sale Books in bold type - While supplies last	Author	Cost	Ship
Alpine Flower Finder	Wingate & Yeatts	\$6.00	\$2.00
American Cockerell, The	Weber, W.A.	\$25.00	\$2.75
Atlas of the Grasses of Colorado	Rubright, L.	\$16.00	\$2.00
Botanical Latin (soft cover)	Stearn, W.T.	\$27.00	\$2.75
Botany for Gardeners	Capon, B.	\$15.00	\$2.00
Bring Back the Buffalo!	Callenbach, E.	\$12.00	\$2.25
Butterfly Gardening: A Guide for Colorado Gardeners	Sarada Krishnan	\$7.50	\$2.00
Catalog of the Colorado Flora: A Biodiversity Baseline	Weber, W. et al.	\$40.00	\$3.25
Colorado Flora: East Slope, 2001 Edition	Weber & Wittmann	\$22.00	\$2.50
Colorado Flora: West Slope, 2001 Edition	Weber & Wittmann	\$22.00	\$2.50
Colorado's Best Wildflower Hikes V.2 High Country	Irwin, P.	\$12.00	\$2.75
Columbines: Aquilegia, Paraquilegia, and Semiaquilegia	Nold, R.	\$22.00	\$2.50
Common Rocky Mountain Lichens	St. Clair, L.	\$17.50	\$2.75
Common Southwestern Native Plants: An Identification Guide	Carter, Carter, and Stevens	\$16.00	\$2.75
Dictionary of Word Roots	Borror, D.J.	\$10.50	\$2.00
Edible Wild Plants of the Prairie	Kindscher, K.	\$12.00	\$2.00
Edible Wild Plants of the Rocky Mountains	Harrington, H.D.	\$15.00	\$2.75
Encyclopedia of Ornamental Grasses	Greenlee, J.	\$19.00	\$3.50
Field Guide to the North American Prairie (Peterson)	Jones & Cushman	\$17.50	\$2.50
Field Guide to the Wetland and Riparian Plant Associations of Colorado	Carsey, Kittel, Decker, Cooper, and Culver	\$30.00	\$2.75
Flames in our Forests	Arno&Allison-Bunnell	\$16.50	\$2.50
Flora of the Great Plains	Grt Plns Flra Ass.	\$44.00	\$3.75
Flora of the Gunnison Basin	Barrell, J.	\$15.00	\$2.75
Flora of North America Vol. 2	FLNA ed.	\$89.00	\$4.00
Flora of North America Vol. 3	FLNA ed.	\$89.00	\$4.00
Flora of North America Vol. 4	FLNA ed.	\$89.00	\$4.00
Flora of North America Vol. 22	FLNA ed.	\$89.00	\$4.00
Flora of North America Vol. 23	FLNA ed.	\$109.00	\$4.00
Flora of North America Vol. 25	FLNA ed.	\$109.00	\$4.00
Flora of North America Vol. 26	FLNA ed.	\$109.00	\$4.00
Flora of the San Juans	Komarek, S.	\$15.00	\$2.00
Floristic Survey of Eagles Nest Wilderness Area	Hogan, T.	\$4.00	\$2.00
Forgotten Pollinators	Nabhan, G.	\$11.00	\$2.00
Gathering the Desert	Nabhan, G.	\$10.00	\$2.00
Grass Varieties in the United States	USDA	\$69.00	\$2.75
Grassland to Glacier, From	Mutel & Emerick	\$10.50	\$2.50
Grow Native: Landscaping with Native and Apt Plants of the Rocky Mountains	Huddleston & Hussey	\$13.50	\$2.00
Guide to Colorado Wildflowers, V.1, Plains	Guennell, G.K.	\$15.00	\$2.75
Guide to Colorado Wildflowers, V.2, Mountains	Guennell, G.K.	\$15.00	\$2.75
Historical Ecology Handbook	Egan & Howell	\$28.00	\$2.75
How to ID Grasses & Grasslike Plants	Harrington, H.D.	\$10.00	\$2.00
How to Identify Plants	Harrington et al.	\$10.00	\$2.00
Illustr. Keys to Early Spring Wildflowers: Front Range	Wingate, J.L.	\$1.50	\$1.25
Illustrated Keys to the Grasses of Colorado	Wingate, J.L.	\$7.50	\$2.00
Intermountain Flora - Volume 3A	Cronquist et al.	\$66.00	\$3.75
Intermountain Flora - Volume 3B	Barneby, R. C.	\$53.00	\$3.75
Intermountain Flora - Volume 4	Cronquist et al.	\$66.00	\$3.75
Intermountain Flora - Volume 5	Cronquist, A.	\$66.00	\$4.00
Intermountain Flora - Volume 6	Cronquist et al.	\$66.00	\$4.00
Land above the Trees	Zwinger, A.	\$16.00	\$2.75
Last Prairie, The: A Sandhills Journal	Jones, S.	\$18.00	\$2.50
Lichens of North America	Brodo, Sharnoff, Sharnoff	\$73.00	\$5.50
Medicinal Wild Plants, Desert and Canyon West	Moore, M.	\$11.00	\$2.75
Medicinal Plants, Mountain West	Moore, M.	\$11.00	\$2.75

Sale Books in bold type - While supplies last	Author	Cost	Ship
Medicinal Wild Plants of the Prairie	Kindscher, K.	\$12.00	\$2.75
Mountain Blooms	Johnson Books	\$4.75	\$2.00
Mushrooms of Colorado	Evenson, V.S.	\$18.75	\$2.75
Native and Naturalized Leguminosae of U.S.	Iseley, D.	\$56.00	\$4.00
Native Plants for High-elevation Western Gardens	Busco & Morin	\$23.50	\$3.00
Once and Future Forest, The: A Guide to Forest Restoration Strategies	Sauer, L.J.	\$28.50	\$2.75
Ornamental Water Gardening	Weinstein, G ed.	\$2.00	\$1.50
Penstemons	Nold, R.	\$25.00	\$2.50
Plant Identification Terminology	Harris, J. et al.	\$16.00	\$2.75
Plants of Rocky Mountain National Park	Beidleman	\$19.00	\$2.50
Plants of the Rocky Mountains	Kershaw et al.	\$16.50	\$2.75
Prairie Conservation	Sampson&Knopf	\$28.50	\$2.50
Rare Plants of Colorado II	CONPS	\$14.00	\$2.75
Restoring Diversity	Falk et al.	\$32.50	\$2.75
Roadside Use of Native Plants	Harper-Lore, B.	\$20.50	\$2.75
Roadside Wildflowers of Southern Great Plains	Freeman	\$15.00	\$2.00
Rocky Mountain Berry Book	Drumm, B.	\$6.00	\$2.00
Rocky Mountain Flower Finder	Wingate, J.L.	\$4.75	\$2.00
Rocky Mountain Lichen Primer	Corbridge&Weber	\$18.50	\$2.00
Sagebrush Country: A Wildflower Sanctuary	Taylor, R. J.	\$11.00	\$2.00
Saving Nature's Legacy	Noss&Cooperrider	\$30.50	\$2.50
Simplified Guide to Common Colorado Grasses, A	Wingate, J.L.	\$3.25	\$1.25
Song of the Alpine: RM Tundra through the Seasons	Gellhorn, J.	\$18.00	\$2.75
Southern Rocky Mountain Wildflowers	Robertson, L.	\$12.50	\$2.00
Southwestern Landscaping with Native Plants	Phillips, J.	\$16.00	\$2.75
Trees and Shrubs of Colorado	Carter, J.	\$11.50	\$2.00
Utah Flora, A 1993 ed.	Welsh, Atwood, et al	\$48.00	\$4.00
Utah Flora, A 2003 ed.	Welsh, Atwood, et al	\$77.00	\$4.00
Vascular Plants of Wyoming, 3rd ed.	Dorn, R.	\$17.00	\$2.50
Waterwise Landscaping with Trees, Shrubs, and Vines	Knopf, J.	\$15.00	\$2.75
Weeds of the West, 2nd ed.	Whitson, T., Ed.	\$21.00	\$3.75
Welfare Ranching	Wuerthner&Matteson	\$17.00	\$4.50
Xeriscape Flower Gardener	Knopf, J.	\$12.00	2.75
CDs			
Interactive Plant Keys for Colorado (XID)	Barnes, B.	\$75.00	\$2.50
Manual of the Plants of Colorado (CD version)	Harrington, H.D.	\$15.00	\$2.50
What's that Wildflower? (CD for Western Rockies)	Harte	\$15.00	\$2.50
Merchandise			
CONPS Hats (one size)		\$15.00	\$3.00
CONPS Patches		\$6.00	\$0.50
CONPS Tote Bags		\$16.00	\$2.75
Please add the following taxes where applicable:			
City of Boulder 7.66%			
All other Boulder County 4.25%			
City and County of Denver 7.2%			
City of Colorado Springs 6.4%			
All other El Paso County 3.9%			
City of Fort Collins 6.7%			
All other Larimer County 3.7%			
All other Colorado 2.9%			
States other than Colorado--no tax			
		Book Total:	
		Sales Tax:	
		Shipping Total:	
		ORDER TOTAL:	
	Make checks payable to: Colorado Native Plant Society		
	Mail order and check to:		
	April Wasson	E-mail: apriladw@earthlink.net	
	1482 S. Pierson St. #76		
	Lakewood, CO 80232	Tax Exempt #	
	PLEASE INCLUDE NAME, ADDRESS, & PHONE NUMBER.		

Botanical Article

CALCIPHILY

Dr. David Buckner, Plant Ecologist

The affinity of some plant species for calcareous substrates is one of the oldest observations in ecology (Warming 1909, Schimper 1903, Thurmann 1849), having originally been studied in the Calcareous Alps of central Europe. In Colorado, the phenomenon has been documented most prominently from Hoosier Ridge between Fairplay and Breckenridge. There, the Leadville Limestone is the location of occurrence of several rare plant species. Some of these are disjuncts, i.e. plants that occur in far disjunct geographic locales, in varying degrees of commonness. Others are endemics (plants that occur in a single relatively confined area and nowhere else) that may have evolved since geographic separation from related plants after climate change removed suitable habitat in between.

To varying degrees, plants tolerate scarcity of essential resources, such as nutrients. Those least tolerant of the scarcity of a given nutrient are likely to be most abundant where that nutrient is present in abundance. As a consequence of low availability of the nutrient in the general landscapes of a region, species least tolerant of scarcity may be found only on the few sites where the nutrient is available in sufficient amounts. If the nutrient in question is calcium, then sites of greatest abundance are likely to be those where the geologic parent material is rich in calcium, especially limestone or gypsum sites.

In zones of high precipitation, water percolating through the soil removes or leaches many cations, including calcium, out of the root zone. Fortunately, calcium is added to soils at a small rate as minerals weather and decompose through natural chemical processes. In arid and semi-arid environments, calcium produced by weathering actually exceeds leaching losses and the element can accumulate, resulting (along with the presence of other cations) in "alkaline" soils that are widespread in western North America. Consequently, under present climatic conditions in Colorado environments, the abundant availability of calcium is widespread in natural soils and not confined to lime-

stone/gypsum sites except in a few areas where precipitation is high and soil leaching is active. In the context of high subalpine and alpine environments, where typical annual precipitation may exceed 30 inches per year, soil leaching actually is strong enough to effect calcium depletion. High altitude soils of Colorado are commonly possessed of features related to strong leaching, not the least of which is generally lower pH. Thus, high-altitude occurrences of Leadville Limestone in Colorado, such as at Hoosier Ridge, may represent sites of significantly greater biological calcium availability

It should be noted that "calciphily" is not a phenomenon confined to, or exclusively associated with, rare plants. It merely suggests an affinity for calcium. Common species may have their distributions adjusted by the presence of varying amounts of calcium also. For example, the position of the upper limit of growth of Engelmann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*) in the Tenmile Range of central Colorado has been observed to be adjusted by the local position of the boundary between calcareous and non-calcareous soil parent material (Curry 1962).

Literature Cited

Curry, Robert R. 1962. Geobotanical correlations in the alpine and subalpine regions of the Tenmile Range, Summit County, Colorado. M.S. Thesis., Univ. of Colo.

Schimper, A.F.W. 1903. Plant Geography upon a Phytosociological Basis. (Transl. by W.R. Fisher) Oxford: Clarendon Press. 839 p.

Thurmann, J. 1849. Essai de phytostatique applique a' la chaine du Jura. Berne. (as cited in: Lundegardh, Henrik. 1949. Klima und Boden in ihrer Wirkung auf das Pflanzenleben. 3rd ed. Gustav Fischer, Jena).

Warming, E. 1909. Oecology of Plants. (Transl. by P. Groom and I.B. Balfour) Oxford: Clarendon Press. 422 p.



Engelmann Spruce,
Picea engelmannii.
©W.L. Wagner.
Courtesy of
Smithsonian
Institution, Dept. of
Systematic Biology,
Botany @ PLANTS
Database.

AQUILEGIA DEADLINE - NOV. 10

Submit contributions for Vol. 28, No. 5 by Nov. 10, 2004. Articles less than 1000 words are especially welcome. Previously published articles submitted for reprinting require permission. Submit via e-mail or on disks as an MS Word or rtf document. See page 7 for additional information.

CHAPTER NEWS

Boulder Chapter

Monthly 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.

October 14 GIS and Remote Sensing. Dr Karl Brown will talk to us about using technology to further botanical and ecological interests by the use of GIS and Remote Sensing in the USGS-NPS Vegetation Mapping program.

November 11 Xeriscaping with Natives in Colorado. Jim Knopf. We will have his books available for autographing.

December 9 Potpourri of Flower Pictures with Peripatetic Ecological Annotations. Dr. David Buckner.

January 13 Boulder County's Rare Plants. Ann Armstrong

February 10 The Wonderful World of Common Names. Ron West, Boulder County Open Space Department.

Mar. & April Topic TBA.

May 12 Annual Picnic

Fort Collins Chapter

Month meetings are held at 7 PM at the Gardens on Spring Creek, 2145 Centre Ave. Ft. Collins. Dinner with the speaker will be at 5:15 pm at The Rainbow on Laurel St. Please contact Annette Miller the day before if you will join us for dinner. Leave a message at 482-3063 or 495-3240 or almiller@lamar.colostate.edu.

October 13 Cheatgrass Control and Community Restoration in Rocky Mountain National Park. Helen Rowe. Leadership election for the chapter.

November 3 Conservation of Rare Plants of Colorado. David G. Anderson, Colorado Natural Heritage Program.

December 7 Effects of Deicers on Tree Physiology and Seed Germination. Nicole Trahan.

February Soil Seedbank Studies in Teddy Roosevelt National Park. Julie Laufmann.

March Rare Plants of Larimer County. Georgia Doyle and Dave Anderson.

April Native Plants for Landscaping.

Metro-Denver Chapter

Monthly meetings are held September through April at 7 PM in the Waring House at the Denver Botanic Garden (the mansion just south of the main entrance on York Street). To enter, head south on York past the Gardens main entrance. Make an immediate right into parking lot that says "Staff Parking." Members are invited to join speakers at 5:30 PM for pizza at Angelo's, 620 East 6th Ave (between Pearl and Washington) in Denver. For more information, contact Chapter President Naomi Nigro, 303-366-6033, or email naomi4CoNPS@hotmail.com.

October 26 The Use of Morphology and Genetics in Determining Relationships within a Desert Sunflower Genus. Shannon Kuchel Fehlberg, a graduate student at the University of Colorado at Boulder, will discuss morphological and adaptive variation in the sunflower genus *Encelia*, and compare it to genetic variation based on DNA sequences.

December 7 Shock and Awe: Weapons of Botanical Defense. Fran Blanchard and Mary Ann McMullen, the Plains Conservation Center, will lead us on a revealing adventure into the world of "botanista" rebels. Engage with seemingly innocuous plants, armed to their apical meristems with chemical, biological, physical and mechanical defenses. You will never walk past a plant with the same non-chalance. **LOCATION: DBG, Gates Hall.**

January 25 Gardening with

Natives. Mikl Brawner, Harlequin's Garden of Boulder.

February 22 Denver's Natural Areas Program. Gayle Weinstein. The Natural Areas Program selects sites throughout Denver that retain or have the potential to reestablish fundamental natural features that existed prior to early development.

March 22 Pakistan. Dr. Dan Johnson, Curator of Native Plants at DBG, will give a presentation on his 2001 trip to Pakistan, where "...the varied landscape only hints at the rich flora of the region, from the bristling mounds of *Acantholimon lycopodoides* to the windswept *Betula utilis* at treeline."

April 26 Topic TBA. .Dr. Leo Bruederle, the University of Colorado at Denver.

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.

Southeast Chapter

Activities are scheduled throughout the year. The chapter is recruiting for the office of President. For chapter information or to volunteer, contact Doris Drisgill, Ddrisgill@cs.com, 719-578-1091, or George Cameron, gpcameron@juno.com, 719-634-4431.

Southwest Chapter

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

Aquilegia via Email

Aquilegia is available via email. Send your email address to Eric Lane, eric.lane@ag.state.co.us, or Alice Guthrie, molly82@earthlink.net.



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	Laurel Potts 970-328-8633
Vice-President	David Anderson . 970-484-0774
Secretary	Kim Regier 303-556-8309
Treasurer	Naomi Nigro 303-366-6033

Board of Directors

Dick Fisher (05)	Steamboat	
.....	Springs	970-276-4448
Sue Kamal (05)	Greeley	970-353-9240
Ivo Lindauer (05)	Parachute	970-285-1112
Laurel Potts (05)	Eagle	970-328-8633
John Proctor (05)	Walden	970-723-8204
Jennifer Ackerfield (06)		
John Giordanengo (06) Golden		303-996-2760
Brad Johnson (06)	Fort Collins	970-491-6932
Gwen Kittel (06)	Boulder	303-258-0908
Jan Loechel (06)	Golden	303-458-4262

Chapter Presidents

Boulder	Tommi Scanes	303-682-1208
Fort Collins	Annette Miller	970-495-3240
Metro-Denver	Naomi Nigro	303-366-6033
Plateau	Jeanne Wenger	970-256-9227
Southeast	Doris Drisgill &	719-578-1091
.....	George Cameron	719-634-4431
Southwest	Sandy Friedley	970-884-9245

Standing Committees and Chairs

Conservation	Vacant	
Education and Outreach		
.....	Jill Handwerk	970-221-3460
Endowment	Leo Bruederle	303-556-3419
Field Studies	Vacant	
Field Trips	Ivo Lindauer	970-285-1112
Finance	Naomi Nigro	303-366-6033
Horticulture and	Laurel Potts &	970-328-8633
Restoration	Lisa Tasker	970-948-4857
Media	Bob Clarke	970-242-6067
Membership	Eric Lane	303-239-4182
Rare Plant	Eleanor Von Bargaen	
Monograph		303-756-1400
Research Grants	Jan Loechel	303-458-4262
Sales	April Wasson	303-763-7679
Workshop	Mignon Macias	303-249-2977

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 - 2004-2005

WORKSHOPS

- Nov. 6, 7 Violaceae of Colorado
Jan. 15, 16 Plant Ecology: Beginning Soils

BOARD MEETINGS

- November 13
January 8
March 5
April 9
May TBD, West Slope

CHAPTER EVENTS

Boulder Chapter

- November 11 Xeriscaping with Natives in Colorado
December 9 Potpourri of Flower Pictures with
 Peripatetic Ecological Annotations
January 13 Boulder County's Rare Plants
February 10 The Wonderful World of Common
 Names

- Mar. & April Topic TBA
May 12 Annual Picnic
 Fort Collins Chapter
November 3 Conservation of Rare Plants of Colorado
December 7 Effects of Deicers on Tree Physiology and
 Seed Germination
February Soil Seedbank Studies in Teddy Roosevelt
 National Park
March Rare Plants of Larimer County
April Native Plants for Landscaping
 Metro-Denver Chapter
October 26 The Use of Morphology and Genetics in
 Determining Relationships within a
 Desert Sunflower Genus
December 7 Shock and Awe: Weapons of Botanical
 Defense
January 25 Gardening with Natives
February 22 Denver's Natural Areas Program
March 22 Pakistan
April 26 Topic TBA

TIME SENSITIVE MATERIAL

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Colorado Native Plant Society 