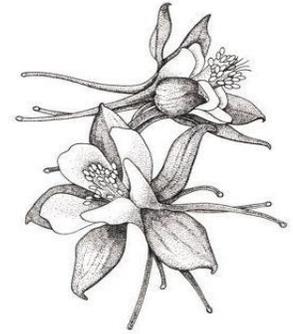


Aquilegia

Newsletter of the Colorado Native Plant Society

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

- Volume 34 Number 3 -



2010 ANNUAL MEETING

“COLORADO COLLAGE: INSPECTING AND PROTECTING OUR SPECIAL PLACES”

September 10 - 12, 2010, Denver, Colorado

The CoNPS Board of Directors invites you to attend the **2010 Colorado Native Plant Society Annual Meeting** co-hosted by our Metro-Denver Chapter and sponsored by the University of Colorado, Denver, Biology Department.

Colorado is home to diverse ecosystems and ecological communities, with unique natural features of uncommon beauty. Native vegetation and associated biological and geological features provide habitat for a wide variety of plants, some are rare and unique to the state. These special places serve as resource material for scientific inquiry and biological exploration. Each place: grassland, shrubland, wetland, forest, or alpine tundra serves as an outdoor classroom and laboratory for scientific study by students of all ages. The beautiful collage these natural areas form are inspirational. They meet our aesthetic needs by enriching the meaning and enjoyment of our lives. Local communities, businesses, and volunteers all have a role in preserving these special places for the enjoyment and study of everyone for today and for future generations.

The Annual Meeting and the **7th Annual Rare Plant Symposium** will be held on the Auraria Campus of the University of Colorado, Denver.

The Rare Plant Symposium will be held on **Friday**, 10 September, followed by a Friday evening social. The **Friday evening social** will be held at Brauns Bar & Grill, 1055 Auraria Parkway; hors d'oeuvres will be served and a cash bar will be available. **Saturday**, September 11, will be devoted to speakers with posters, booths, and silent auction continuing during breaks. **Sunday**, September 12 will feature field trips!

MORE ANNUAL MEETING INFORMATION INSIDE!

	<i>Page</i>
Meeting details and reminders.....	2
7 th Annual Colorado Rare Plant Symposium (Friday, September 10) ...	4
2010 Annual Meeting Agenda (Saturday, September 11)	5
Annual Meeting Field Trips (Sunday, September 12).....	6
Registration Form.....	7
Election Ballot: 2010 Election of At-Large Board Directors.....	9
Speakers and Abstracts	11
Call for Poster Abstracts.....	Back
Silent Auction: Request for Items.....	Back

MEETING DETAILS AND REMINDERS

Being Green Reminder: We feel that the Colorado Native Plant Society should set an example for a green conference and, therefore, we encourage everyone to bring their own mug for coffee or tea and water bottles for water. The Annual Meeting Planning Committee will do everything we can to keep the conference as green as possible.



Registration

Please complete the enclosed registration form, which is also available online at www.conps.org. Please submit as soon as possible and no later than August 30. After that, you may still register and pay at the door. Please note that box lunches will not be available for late registrants, and the field trip selection will be limited.

Cancellation policy: If the Annual Meeting Registrar receives your cancellation notification (via phone call, email, or regular mail) before 28 August, 50% of your total payment (which includes the registration fee, food fees, and all other fees) will be returned. There can be no refunds after 28 August.

Location

The 2010 Annual Meeting will be held in the Tivoli Center, 900 Auraria Parkway, on the Auraria Campus in Denver. The Annual Meeting, speakers, poster sessions, silent auction, and book sales will all be held in Turnhalle (Rm 250) in the Tivoli Center. The Rare Plant Symposium on Friday will be held in the North Classroom Building, room TBA, on the Auraria Campus, just a short walk from the Tivoli Center. The Friday Night Social will be held at Brauns Bar and Grill, 1055 Auraria Parkway, across the street from the North Classroom Building parking lot.

See <http://www.ahec.edu/campusmaps/maps.htm> for campus locations.

Directions to the Auraria Campus

The Auraria campus is located just off I-25 in Denver. To reach the Tivoli Center exit I-25 at the Auraria Parkway, Exit 210. Travel east on Auraria Parkway to 9th Street and turn right into the Tivoli parking structure on the left or the Tivoli open-air parking lot on the right.



Parking on the Auraria Campus

Tivoli Parking Lot and Parking Structure are designated visitor parking areas, located at the intersection of Auraria Parkway and Ninth Street. Parking on Friday is \$5.50 a day (Credit Cards Accepted). Parking on Saturday is free.

ACCOMODATIONS



HOTELS

Comfort Inn Downtown

401 17th Street
303-296-0400
www.denvercomfortinn.com
1.4 miles to Tivoli Ctr.
Rate per night for 2 \$99+

Crowne Plaza Hotel – Denver

1450 Glenarm Place
888-897-0087
<http://www.hoteldenver.net/>
1.11 miles to Tivoli Ctr.
Rate per night for 2 \$110+

Econo Lodge

930 E. Colfax Ave
303-813-8000
<http://www.econolodge.com/hotel/CO218?promo=bingmap>
2.2 miles to Tivoli Ctr.
Rate per night for 2 \$63+

Hampton Inn & Suites Denver – Downtown

1845 Sherman Street
303-864-8000
http://hamptoninn1.hilton.com/en_US/hp/index.do
1.73 miles to Tivoli Ctr.
Rate per night for 2 \$126+

La Quinta Inn Denver Central

3500 Park Ave. West
303-458-1222
<http://www.lq.com/lq/index.jsp>
1.6 miles to Tivoli Ctr.
Rate per night for 2 \$105+

Ramada Inn Downtown Denver

1150 E. Colfax Ave.
303-831-7700
<http://www.ramada.com/Ramada/control/index?variant=>
2.29 miles to Tivoli Ctr.
Rate per night for 2 \$63+

TownePlace Suites Denver Downtown

685 Speer Boulevard
303-722-2322
<http://www.marriott.com/property/propertypage/DENCB>
1.9 miles to Tivoli Ctr.
Rate per night for 2 \$89+

CAMPING

Bear Creek Lake Park

15600 W. Morrison Rd.
303-697-6159
<http://www.lakewood.org/comres/page.cfm?ID=641&BearCreekLakePark/>
16.1 miles to Tivoli Ctr.
Rate per night \$18

Cherry Creek State Park

4201 S. Parker Rd.
303-470-1144 or 1-800-678-2267
<http://parks.state.co.us/Parks/CherryCreek/Pages/CherryCreekHome.aspx>
17.5 miles to Tivoli Ctr.
Rate per night \$16 + entrance fee

Chief Hosa Campground

27661 Genesee Dr. (exit 253 from I-70)
303-526-1324
<http://chiefhosa.org/>
19.3 miles to Tivoli Ctr.
Rate per night \$23

Standley Lake Regional Park

100th Ave and Simms St.
303-425-1097
<http://www.ci.westminster.co.us/194.htm>
16.7 miles to Tivoli Ctr.
Rate per night \$16

7th ANNUAL COLORADO RARE PLANT SYMPOSIUM

Conservation Efforts and Status Review of G1 Plants of Colorado

SEPTEMBER 10, 2010; 9:00 AM-4:00 PM

UC Denver Auraria Campus

Denver, Colorado

Join members of the Colorado Rare Plant Technical Committee (RPTC) for the 7th Annual Colorado Rare Plant Symposium. The RPTC is an ad-hoc group of agency and NGO botanists that has been working for years to advance rare plant efforts in the state. The RPTC will provide a photo review of the globally critically imperiled (G1) plant species known from Colorado, including some recently described species. Discussion of their relationship to Colorado's important plant areas, current conservation status and potential threats will be emphasized. Come prepared to exchange your knowledge of our rarest species with other amateur and professional botanists from throughout the state.

This one-day workshop will be held in collaboration with the Colorado Native Plant Society's annual meeting (Sept. 10-12). The symposium is open to anyone with an interest in the rare plants of Colorado.

A full agenda will be posted in August on the CoNPS website. Contact Jill Handwerk for more information at 970/491-5857 or jill.handwerk@colostate.edu. There is a nominal fee of \$10 to attend. To register visit the CoNPS website. www.conps.org

2010 Annual Meeting Agenda

“Colorado Collage: Inspecting and Protecting our Special Places”
Saturday, 11 September 2010, Turnhalle (rm 250), Tivoli Center, Denver

- 7:30 AM **Registration**
Silent auction, poster session, and book sales until 5:00 PM
- 8:30 – 8:45 AM **Welcome and announcements**
- 8:45 – 9:15 AM* **Plant Communities on Ancient Soils along the Northern Colorado Mountain Front**
David Buckner, Ph.D., plant ecologist
- 9:20 – 9:50 AM* **Southeastern Colorado Bioblitz**
Renée Rondeau, ecologist, Colorado Natural Heritage Program.
Dina Clark, Curator of the Kathryn Kalmbach Herbarium, Denver Botanic Gardens
- 9:55 – 10:15 AM **Break with beverages**
- 10:15 – 10:45 AM* **Gateway Palisade State Natural Area: photo notes**
Loraine Yeatts, botanist, taxonomist, and photographer
- 10:50 – 11:30 AM* **Boot Laces and Uncommon Places**
Keynote speaker: Steve O’Kane, Ph.D, biologist, University of Northern Iowa
- 11:35 AM – 1:00 PM **Lunch**
- 1:00 – 1:15 PM **Awards and announcements**
- 1:15 – 1:45 PM* **Assessing Globally Imperiled Plants Vulnerability to ClimateChange**
Susan Spackman Panjabi, botanist, Colorado Natural Heritage Program
- 1:50– 2:20 PM* **Colorado's Common, Uncommon and Rare Wetland and Riparian Ecosystems and Plant Species**
David Cooper, Ph.D., author and research scientist, Colorado State University
- 2:25 – 2:45 PM **Break: beverages and snacks**
Final bids on silent auction
- 2:50 – 3:20 PM* **Dune Plant Adaptations at Great Sand Dunes National Park and Preserve, Colorado**
Phyllis Pineda Bovin, entomologist and park biologist
- 3:20 – 3:50 PM* **The Alpine Tundra**
Joyce Gellhorn, Ph.D., mountain ecologist and author
- 3:50 – 4:00 PM **Announcements**, including final details for Sunday’s field trips

** After each talk there will be a 5 minute presentation on ‘opportunities for involvement’.*

2010 ANNUAL MEETING

FIELD TRIPS

Mt. Evans

Joyce Gelhorn

Field-trip, September 12, 2010

With clear skies and low humidity, autumn is often the best time to visit the alpine tundra. While few flowers will still be in bloom, we can identify different types of plant communities and the animals that inhabit them. We will meet at 10 AM at the parking area by Echo Lake Lodge and then carpool up to Summit Lake, stopping at various points of interest. There may be a \$10 fee per car if there are no seniors with free passes.
10:00am – 3:00pm

Roxborough State Park

Vickey Trammel

Because of its unique geology and history, Roxborough State Park is home for a number of disjunct species (plants found in the east and mid-west that appear again in certain areas of the hogbacks.) During the morning we will visit the habitats that support plants like American currant, Birdfoot violet, Carrion flower, and the albino form of spotted coralroot

orchid. Then in the afternoon those who want to see more of the park can stay and hike the other trails.

There is a \$6.00 day-pass charge for every vehicle entering the park. Dogs are not allowed in Roxborough.

8:30am – 12:00 Noon

Rocky Flats

David Buckner

We will visit big bluestem grasslands present on geologic surfaces varying from a few thousand years old to 2.2 million years old. We will study plant species composition differences and plant community resistance to "weed" invasion as it varies through time.

8:30am - Noon

Denver Botanic Gardens

Dan Johnson

We will stroll through Denver Botanic Gardens, concentrating on gardens that have a focus on native plants and ecosystems. Garden styles range from very naturalistic to more traditional. This includes the oldest garden planted at DBG, and some other gardens that combine our best native plants with plants from around the world."

9:30am – 11:00am

Group Rates will be charged for each individual \$10 per person.

ANNUAL MEETING COMMITTEE MEMBERS

Chairman
Program Committee
Program Committee
Field Trips

Jannette Wesley
Brian Kurzel
Jenny Neal
Mo Ewing

Registration
Registration
Silent Auction
Silent Auction
AV & Tech. Support
Food
Posters
Publicity
Book Sales
State Board Liaison

Carol Jacobs
Betty Timson
Lindsey Brandt
Lee Curtis
Alan Richardson
Melissa Smith
John Vickery
Autumn Hummel
Patrick Murphy
Ann Henson

2010 CoNPS ANNUAL MEETING - REGISTRATION FORM

At the Tivoli Center, in Turnhalle (rm 250), on the Auraria Campus:
'Colorado Collage: Inspecting and Protecting our Special Places'

PLEASE NOTE: AN EARLIER VERSION OF THIS FORM WAS DISTRIBUTED TO MEMBERS VIA E-MAIL. THAT FORM HAD AN INCORRECT P.O. BOX IN THE ADDRESS ON THE BACK.

THE CORRECT ADDRESS IS: Carol Jacobs- Carre, P.O. Box 20276, Boulder, CO 80308-3276.

IF YOU MAILED YOUR REGISTRATION TO THE INCORRECT ADDRESS, WE CAN VERIFY THAT IT HAS BEEN RECEIVED BY E-MAILING caroljacobs-carre@rmnpbs.org.

Please fill out a new registration form for each person attending and **submit by 30 August** (see below). Late registration will be available at the door, no box lunch will be available for late registrants. Field trips slots will also be limited for late registrants.

First Name _____ Last Name _____

Address _____

Phone # _____ E-mail _____

____ Put me on a carpool list? The carpool list will be distributed to interested people to make carpool arrangements on their own.

The Annual Meeting fee is \$30. Attendees must be members of the Colorado Native Plant Society – please join us.

If you are not a member, indicate the appropriate level below and include this amount with your registration. If you are a member, but need to renew, complete your registration and renew your membership by e-mailing Administrative Assistant Linda Smith at Conpsoffice@aol.com.

____ Senior \$12 (65+) ____ Student \$12 ____ Individual \$20 ____ Family \$30
____ Supporting \$50 ____ Lifetime \$300

If you are joining CoNPS now, indicate your preferred chapter below. You may affiliate with any chapter part of your dues goes to that chapter – but members may attend any chapter function.

____ Boulder ____ Metro-Denver ____ Northern
____ San Luis Valley ____ Southeast ____ Plateau (Western part of Colorado)

Friday the 7th Annual Rare Plant Symposium: join botanists from around the state and region to share information and learn more about our state's rarest plants. Held in the North Classroom Bldg., room TBA, on the Auraria Campus. **Cost \$10.**

CoNPS is hosting a Friday evening social at Braun's, 1055 Auraria Parkway (within walking distance of the Auraria Campus) there will be appetizers and a cash bar. **Cost is \$5.**

(over)

Saturday a box lunch is being offered for \$15. Please select from the following options:

The lunch includes a sandwich, seasonal fresh fruit salad, chef's side salad, dessert, and a canned drink.

Mark your selection next to your choice:

- Roasted Turkey Sandwich with Cheddar
- Hickory Ham Sandwich with Swiss
- Roast Beef Sandwich with Muenster
- Tuna Salad Sandwich
- Chicken Walnut Salad Sandwich
- Veggie, Dill, Havarti, & Muenster Sandwich
- Whole wheat roll requested
- Gluten-free meal requested

Indicate any special dietary needs: _____

Sunday field trips. To preserve the areas we visit and to improve the quality of the trips, group size may be limited to 15-20. Please number each box below with your 1st, 2nd, or 3rd choices.

- Roxborough State Park Species of Concern & Unique Plant Communities (\$6.00 park entrance fee per car to be paid on entrance to the park)
- Rocky Flats Grasses & Plant Communities on Ancient Substrates
- Alpine Plant Communities on Mt. Goliath (There may be a \$10 fee per car, unless there are seniors with lifetime free passes to share)
- Native Plants in Denver Botanic Gardens Tour (**Cost is \$10** in advance, includes entrance fee)

Please enter each fee as indicated:

- \$ 30__ Annual Meeting Registration Fee per person
- \$ ___ 7th Annual Rare Plant Symposium \$10.00
- \$ ___ Saturday lunch \$15.00
- \$ ___ Membership fee for new member(s).
- \$ ___ Friday evening social \$5.00
- \$ ___ Donation to help defray meeting costs
- \$ ___ Tour of Denver Botanic Gardens \$10.00

TOTAL \$ _____

Mail a copy of the registration form with your check made out to Colorado Native Plant Society to:

Carol-Jacobs Carre, P.O. Box 20276, Boulder, CO 80308.

Please contact Jannette Wesley, metrodenverconps@gmail.com , 303-969-2131 or 303-985-5299 with questions.



University of Colorado Denver

ELECTION OF AT-LARGE BOARD DIRECTORS

The CoNPS Board of Directors is made up of four officers (President, Vice President, Treasurer, and Secretary), chapter presidents, and ten At-Large members.

In the Spring issue of Aquilegia, members were invited to express their interest in serving on the Board.

Two current At-Large members have expressed interest in continuing to serve on the Board.

Please vote for 2 Directors by checking the appropriate line.

_____ Brian P. Kurzel

Brian is a current CoNPS Board Member and also serves on the Colorado Rare Plant Technical Committee and Rare Plant Conservation Initiative. His current job is an Ecologist and Coordinator for the Colorado Natural Areas Program within Colorado State Parks.

He enjoys interpreting the natural world to get people excited about science and conservation. He would like this to be a focus for CoNPS. Brian would like more members to become active volunteers.

_____ Jennifer Ramp Neale

Jenny is a current CoNPS Board Member. She is the Associate Director of Research & Conservation at Denver Botanic Gardens. She leads the rare plant research focusing on demographic monitoring, seed collection, and conservation genetics.

Jenny is also a member of the Rare Plant Technical Committee and the Rare Plant Conservation Initiative. She is also on the steering committee and is co-chair of the Information Committee.

Involving members in rare plant conservation throughout Colorado, including being involved with the Rare Plant Conservation Initiative, has been her focus with the Society. She believes that involving members in hands-on conservation will allow for greater preservation and appreciation of our native flora.

You may cast your vote in one of three ways:

- 1) Bring your ballot to the Annual Meeting, or
- 2) Mail to: CoNPS, PO Box 200, Ft. Collins CO 80522, or
- 3) E-mail to annhenson@kwabena.us

Thanks!

*If you are receiving a printed copy of Aquilegia,
you may simply remove this page and fold for a pre-addressed sheet*

Ballot Submission
Colorado Native Plant Society
P.O. Box 200
Ft. Collins, CO 80522.

SPEAKERS AND ABSTRACTS

Joyce Gellhorn

The Alpine Tundra

Abstract: This presentation focuses on unique adaptations of alpine plants and animals to surviving the harsh conditions of the alpine tundra—cold temperatures, high winds, short growing seasons, and intense solar radiation. These organisms have not only adapted to this unique environment but also are indicator species in terms of global climate changes.

Joyce Gellhorn, a mountain ecologist, holds of Ph.D. in plant ecology and has explored the mountains of Colorado for fifty years. She cross-country skis from November until June, backpacks from June until October, and travels wherever there are mountains to explore. She is the author of Song of the Alpine: The Rocky Mountain Alpine Tundra Through the Seasons and White-tailed Ptarmigan: Ghosts of the Alpine Tundra.

David Buckner

Plant Communities on Ancient Soils along the Northern Colorado Mountain Front

Abstract: During the period from the Late Pliocene to late Pleistocene, alluvial surfaces have been deposited along the east slope of the Front Range in Colorado. Subsequent stream down-cutting has left some remnants of these old surfaces in between stream courses. Soil formation has proceeded without major geological interference on the surfaces for very long periods. Ages of these soils have been studied by Peter Birkeland and his students and determined to vary from 140,000 years (Louviere-age alluvium) to 2.2 Million years (Rocky Flats alluvium). During the past 15 years, studies of vegetation of these areas have revealed an unexpected correspondence in plant community characteristics with soil age. Through time, plant community structure becomes progressively dominated by fewer and fewer species and increasingly by perennial plants. Likewise, the ability of these (by inference) older plant communities to resist the invasion of opportunistic plants increases in a

statistically significant manner. The oldest among these communities (2.2 million years old) has withstood the passage of climate change associated with twenty glacial maxima and intervening inter-glacial periods. The long-term effects of large-scale climate change on these communities including the long-term persistence of species not in synchrony with present climate will be discussed.

David Buckner is a 2nd generation native of Boulder, CO who found the opportunity to explore his interests through B.A., M.A., and Ph.D. degrees from the University of Colorado. He has worked in the private sector in conducting restoration and its quantitative evaluation as well as conducting long-term ecosystem monitoring across the Great Plains, Rocky Mountains, and Colorado Plateau. He has operated a small company doing this work for the past 25 years.

Phyllis Pineda Bovin

Dune Plant Adaptations at Great Sand Dunes National Park and Preserve, Colorado

Abstract: When we reflect on desert environments, these musings are likely to evoke visions of barren sand dunes and windy, scorching environments. However, sand dunes actually comprise less than 1% of deserts in North America. Nor are dunes strictly confined to desert systems; a large number of dune systems exist along seashores adjacent to forested coastlines, on permafrost north of the Arctic Circle, and along wide braided rivers in tall-grass prairies.

Dune systems can be split into two types of systems: stabilized dunes, which are covered with vegetation and have little or no overall movement; and active dunes, which contain very sparse or no vegetation, are exposed to the wind, and which display continuous modification in their shapes and positions.

Active dunes are a naturally and constantly disturbed system with many challenges for growing plants. The plants that are able to grow on active dunes have evolved a number of adaptations to overcome these challenges, and these are reflected in their physical and physiological characteristics.

Phyllis received her B.S. in Biological Sciences at Colorado State University in 1995. She was a staff member with the Colorado Natural Heritage Program

from 1995-2000 (intermittently from 2000-2002), where she was bitten by the entomology bug while surveying for Lepidoptera (butterflies and moths) in and around Colorado's Front Range. She later received her MS in Entomology (Department of Bioagricultural Sciences) at Colorado State University in 2002, completing a thesis on the natural history of the endemic Great Sand Dunes tiger beetle. Since 2002, she has worked for the National Park Service at Great Sand Dunes National Park and Preserve as the park biologist. She believes that although she has a degree in entomology, she can't really be a true entomologist without knowing something about the plants and habitats where the insects are found!

David Cooper

Colorado's Common, Uncommon and Rare Wetland and Riparian Ecosystems and Plant Species

Abstract: David Cooper will provide an overview of the wetland and riparian ecosystems of Colorado, beginning with the most abundant types and the ecological processes that support them. He will then cover many of the more uncommon or unique habitats, and species disjunctions. The talk focus on threats to and restoration needs for each of the ecosystems and species covered.

David Cooper is a senior research scientist/professor in the Department of Forest, Rangeland and Watershed Stewardship at Colorado State University. He studies ecosystems that seasonally or perennially have an abundance of water, including wetlands and riparian ecosystems, but also springs, and phreatophytes. David's work combines hydrologic and ecological studies of individual species and ecosystems, and includes a focus on ecosystem scale restoration.

Steve O'Kane

Boot Laces and Uncommon Places

Abstract: Rare plants, species new to science, and species previously unknown in Colorado are there to be found. In many ways the state is botanically little-

explored. What does it take to uncover new botanical gems? Boot laces, a little botanical training, a little ecological intuition, and time to become familiar with the local flora.

Steve received a B.A. (Range and Forest Management) and M.S. (Botany and Plant Ecology) from Colorado State University. He earned the Ph.D. (Evolutionary and Population Biology) from Washington University in St. Louis followed by post-doctoral research at the Missouri Botanical Garden. In the 1980s he was the botanist/inventory coordinator for the Colorado Natural Areas Program. Currently, Steve is a professor in the Department of Biology, University of Northern Iowa and works on molecular systematics of Brassicaceae and on the flora of the Four Corners Region and the state of New Mexico.

Lorraine Yeatts

Gateway Palisade State Natural Area: photo notes

Abstract: An overview of geology, plants and animals observed while acting as stewards for the Gateway Palisade State Natural Area.

Lorraine Yeatts is a field botanist and taxonomist specializing in alpine and desert floras, and has been associated with the Kathryn Kalmbach Herbarium at Denver Botanic Gardens since 1969. With Janet Wingate, she is co-author of Alpine Flower Finder, a simple, illustrated key to wildflowers found above treeline in the Rocky Mountains.

Renée Rondeau, Dina Clark

Southeastern Colorado Bioblitz

Abstract: We hosted a Bioblitz a 24 hour species count, on the JE Canyon Ranch in Southeastern Colorado. Teams of scientists scoured the many canyons and mesa tops of this 50,000 acre ranch looking for species of plants, birds, mammals, amphibians, reptiles, fish, butterflies, moths and other insects. We documented 920 species in 24 hours.

Renée is an ecologist and conservation planner with the Colorado Natural Heritage Program. Her

professional interests include learning about the status of biodiversity within the state of Colorado and has recently been focusing a lot of attention on one of Colorado's least protected systems: the shortgrass prairie ecoregion. She has a keen interest in connecting biologist with private lands.

Dina Clark has been studying the flora of the eastern plains of Colorado since the early 1990s and has been in love with southeastern Colorado for as just as long. She currently is the Curator of the Kathryn Kalmbach Herbarium at Denver Botanic Gardens.

Susan Spackman Panjabi

Assessing Globally Imperiled Plants Vulnerability to Climate Change

Abstract: Although scientists have been concerned about climate change for decades, most decision makers have only recently recognized the extent to which changes in climate, and human responses to these changes, pose a threat to species of concern. Colorado Natural Heritage Program Botanists and Conservation Planners are using the NatureServe Climate Change Vulnerability Index (CCVI) to assess globally imperiled plants vulnerability to climate change. How does the CCVI work? How can the results be used to help land managers develop and prioritize strategies for climate change adaptation that lead to actions that increase the resilience of species to climate change? Answers to these vital questions will be presented and discussed at this important session.

Susan Spackman Panjabi has worked as a Botanist with the Colorado Natural Heritage Program at Colorado State University for the past 15 years, focusing on the conservation of rare plant species. She has also worked as an environmental educator, a wilderness trip leader, and is currently co-leading the Colorado Rare Plant Conservation Initiative. Susan is the primary author of the Colorado Rare Plant Field Guide.

AQUILEGIA

Newsletter of the Colorado Native Plant Society

Aquilegia is the newsletter of the Colorado Native Plant Society, and is available to members of the Society and to others with an interest in native plants. Four regular issues are published each year, plus a special issue focused on the annual Society meeting held in September of each year.

Past issues from 2003 to the present are available on the Society's website at <http://www.conps.org/newsletter.html>.

Deadlines

Submissions to *Aquilegia* are accepted throughout the year, although deadlines for publication are:

January 15 (Spring issue, published February 15)

April 15 (Summer issue, published May 15)

June 15 (Special Annual Meeting issue, published July 15)

July 15 (Fall issue, published July 15, published August 15)

October 15 (Winter issue, published November 15)

Announcements, news, articles, book reviews, poems, botanical illustrations, and other contributions are requested for publication. Articles in a range from 500 to 2000 words in length are welcome, but content is more important than word count. Proposals for periodic columns or content are also welcome. Please refer to a previous edition of *Aquilegia* for guidelines (these can be readily obtained online – see above). However, you need not be overly precise about format as text will be formatted during editing and layout for consistency of style. Dr. William A. Weber's nomenclature for the scientific names of plants should be followed, italicized and capitalized properly. Please proofread all material carefully and use "spell check".

Other guidance:

Previously published articles submitted for reprinting require permission.

Digital photographs or line drawings are also solicited. Be sure to include credit for images.

Please include author's name, address, and affiliation in all contributions.

Please submit all contributions as Word® attachments to bh.prairieink@gmail.com.

All contributions are subject to editing for brevity and consistency, with final approval of material changes by the author.

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

Please direct questions or comments regarding the newsletter to the Editor, Bob Henry, at bh.prairieink@gmail.com.

MEMBERSHIP APPLICATION AND RENEWAL FORM

Name(s)
Address
City State..... Zip
Phone ____ - ____ - ____ E-mail

MEMBERSHIP CLASS
Dues cover a 12-month period.

- ___ Individual (\$20.00)
- ___ Family / dual (\$30.00)
- ___ Senior (65+) (\$12.00)
- ___ Student (\$12.00)
- ___ Organization (\$30.00)
- ___ Supporting (\$50.00)
- ___ Lifetime (\$300.00)

CHAPTER *You are free to affiliate with any chapter you choose and to attend the meetings of any chapter. Chapters do not have drawn map boundaries; the locations below indicate the usual meeting place of chapter meetings.*

- Boulder Metro-Denver Northern
- Plateau San Luis Valley Southeast

OPTIONAL E-MAIL DELIVERY OF *Aquilegia*

Many members prefer to receive the newsletter electronically via e-mail, and this saves the Society considerable printing and postage expense. If you would like to receive the newsletter by e-mail, please check this box and provide your e-mail address above.

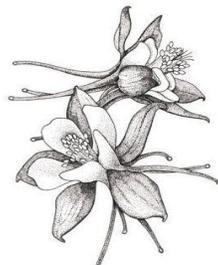
- Please deliver *Aquilegia* electronically to the above e-mail address.

DONATION \$ _____ General Fund

Endowments in support of small grants-in-aid of research:

- \$ _____ John Marr Fund: research on the biology and natural history of Colorado native plants.
- \$ _____ Myrna P. Steinkamp Memorial Fund: research and other activities to benefit the rare plants of Colorado

Mail to: Eric Lane, P.O. Box 200, Fort Collins, CO 80522
Please make checks payable to "Colorado Native Plant Society"
Dues and contributions are tax-deductible.





Colorado Native Plant Society

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

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

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Colorado Native Plant Society

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CoNPS ANNUAL MEETING, SEPTEMBER 10-12, 2010

CALL FOR POSTER ABSTRACTS

2010 CoNPS Annual Meeting: "Colorado Collage:
Inspecting and Protecting our Special Places"
10-12 September 2010
Auraria Campus, Denver

- Posters accepted from students and professionals
- All topics related to Rocky Mountain native plants are welcome
- Deadline for submission is 21 August 2010

Submit: Author(s) name(s), affiliation address, e-mail address, title, and abstract text to John Vickery at jvickery@mcg.net.

Notification of acceptance will be August 23, 2010. For more information, see www.conps.org.

SILENT AUCTION: REQUEST FOR ITEMS

This year's Annual Meeting will once again feature a silent auction. We would like nice items such as live plants, posters, note cards, ecological/biological/botanical books, jewelry, etc.

For more information or to make a donation please contact Lindsey Brant at lindseybrandt@yahoo.com or Lee Curtis at buzzcurtis@netscape.com, 303-985-5749.