



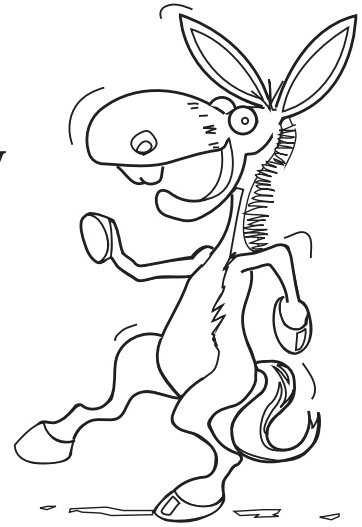
Colorado Scientific Society

*The objective of the Society is to promote
the knowledge and understanding of Earth science,
and its application to human needs*



CSS 2009 Family Day

**Saturday
August 29**

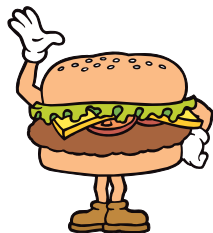


BBQ-Potluck at the Colorado School of Mines
Please join us for the campus geology walking tour,
yummy BBQ, and geology museum tour.

See details on Page 2.

RSVP ASAP!!!





CSS 2009 Family Day

BBQ-Potluck and geology tours

Saturday August 29

(Rain Date Saturday September 12)



Noon: Bob Weimer's Colorado School of Mines Campus Geology Walk
(Meet at CSM Geology Museum)

2:00: BBQ-Potluck!....on the CSM Commons outside Stratton Hall
(there's a nice big grassy area where the kids can run around and play!)

4:00: CSM Geology Museum Tours—Separate tours for adults and kids

RSVP by Friday August 21

to Lisa Fisher: lfisher@mines.edu, or cell 303-478-9427

Please leave message with your name, phone or email, # of people attending, and what type of dish you are bringing for the potluck.

CSS is providing burgers/hot dogs/Boca burgers, condiments, utensils, drinks, etc.

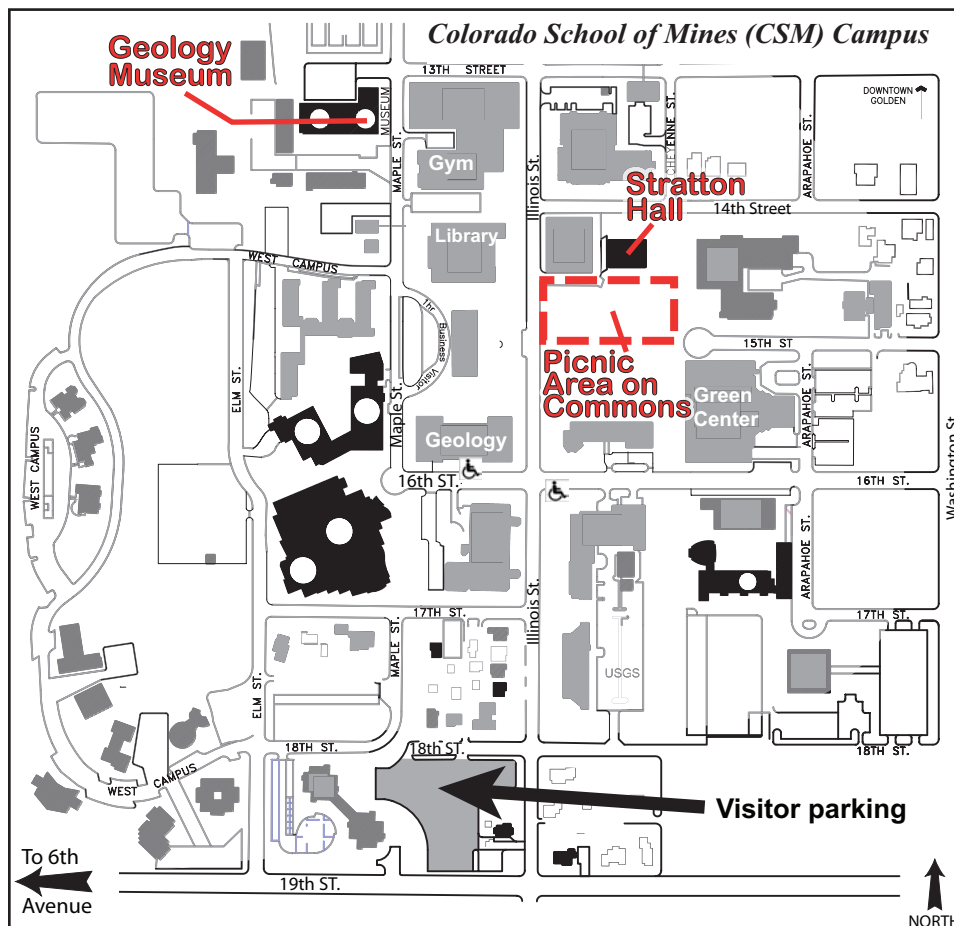
Vegan? Tell us!!

PLEASE stash extra chairs and blankets in your car in case we need more.



PARKING NOTE:

The Visitor Parking Lot is the "formal lot" for daytime parking during the week, but on evenings & week-ends, all faculty/staff lots are open parking—they are marked that way, so read the signage and get a parking spot closer to the action. Also watch for handicapped parking on the north side of Stratton Hall.





Hello CSS membership! For me, the summer has just flown by given my commitments to two big field-based projects (one in the central California Coast Ranges and the other near Great Basin National Park), reports writing, and supervising a summer student. I am looking forward to seeing everyone at Colorado Scientific Society functions this fall, including our Family Day this month.

One thing we have been looking at this summer is our CSS website. We have contracted with a local firm, Table Mountain Web Design to help us fix old or broken links and generally improve the look and function of our web site. Thanks to Sue Hirschfeld for all the time she has spent looking at the site and tabulating problem areas! If any of you have comments regarding our web site and how it could be improved, or new content you would like to see, please e-mail your suggestions to me at dsweetkind@usgs.gov.

Some of you undoubtedly know this already, but I received news from Libby Prueher and Ulli Limpitlaw that Emmett Evanoff took a bad fall while doing fieldwork in the Badlands of S. Dakota. He was hospitalized in Rapid City with multiple fractures of the left arm, ribs and pelvis. In all, he broke: femur (multiple), clavicle, pelvis, and ribs. Emmett reports that the ribs hurt the worst. He hopes to teach this fall semester, but will not be able to do field trips. He may have to be in a wheel chair at the beginning of the semester.

Emmett's wife has been with him at the hospital. By the time you read this, he should be back home. He says hi to everyone and apparently he's his usual optimistic self when not totally drugged up. I am sure Emmett would appreciate your well-wishes. If you care to drop him a note or a get-well card, his address is 6 Colgate Ct., Longmont, CO 80503, and his e-mail is emmettevanoff@earthlink.net.

A View through the Green Hail Cloud

by Lisa Rukstales



I once did a project in college where I collected a box of rocks with leaf imprints, identified them, and tried to extrapolate how they were deposited and the climate they lived in. I wrote a great story and who knows if any of it could be true given how little I really knew about the day they were deposited. I was reminded of this on the morning after the "Lakewood Storm of '09" as I surveyed the 3-inch layer of leaves covering our acreage. I realized that even though I was there as an eyewitness to the "disaster," I still had trouble describing how it happened, and I pitied any geologist trying to look at rocks that surround such a storm deposit. How could she know that it was deposited in the blink of an eye? Would she locate the trees that were uprooted and make a guess?? How would she know that the squirrel skeleton was already inside the shattered tree before the storm?

My 6-year-old son, a budding scientist, summed it up with, "Mother Nature must have been **really** mad!" Good answer!!



NE of 10th & Garrison



Fed. Ctr. squirrel remains found inside trunk →





CSS Proceedings are now available ONLINE from Google Books
by Beth Simmons, Ph.D., CSS Historian

Our CSS Proceedings, published from 1883 to 1956, contain valuable information about geosciences in Colorado during the last 130 years. Although our file of original copies is growing, we are still missing the first important volumes. Some of them have now appeared on GoogleBooks.com, downloadable and word searchable! The easy way to access these is simply to do a search for GoogleBooks.com, then search on it for Colorado Scientific Society Proceedings. Five volumes are currently online and downloadable, but sometimes you have to know which article you are looking for or use the URL given below. When the CSS webpage is updated, we will post the complete list of articles that appeared in the Proceedings and their links to the Google Books.

University of Michigan provided Volume 3 in 3 Parts (1888-1890):

<http://books.google.com/books?id=Z5jOAAAAMAAJ&pg=RA1-PR16&dq=Horned+Dinosaurs++Colorado+Scientific+Society+1888&lr=#v=onepage&q=&f=false>

Volume 4 (1891–1893), supplied from Harvard, is downloadable:

<http://books.google.com/books?id=oYsYAAAAYAAJ&pg=PA199&dq=The+Denver+Tertiary+Formation+Colorado+Scientific+Society+volume+3&lr=#v=onepage&q=&f=false>

The University of California library provided Volume 7 (1901–1904):

<http://books.google.com/books?id=Lhm5AAAAIAAJ&printsec=frontcover&dq=Colorado+Scientific+Society+proceedings&lr=#v=onepage&q=&f=false>

The University of Michigan provided Volume 8 (1905–1907):

<http://books.google.com/books?id=iprOAAAAMAAJ&printsec=frontcover&dq=Colorado+Scientific+Society+proceedings#v=onepage&q=&f=false>

From Harvard came Volume 9 (1908–1910) which, like our collection, is still missing a couple of articles:

<http://books.google.com/books?id=C40YAAAAYAAJ&pg=PA235-IA4&dq=Colorado+Scientific+Society+proceedings#v=onepage&q=&f=false>

The yearbook and list of members and constitution and by-laws from 1916 is also posted:

<http://books.google.com/books?id=6KNRAAAAMAAJ&pg=PA12&dq=Colorado+Scientific+Society+proceedings&lr=#v=onepage&q=Colorado%20Scientific%20Society%20proceedings&f=false>

The yearbook and list of members and constitution and by-laws from 1919:

<http://books.google.com/books?id=6aNRAAAAMAAJ&pg=PA3&dq=Colorado+Scientific+Society+1885&lr=#v=onepage&q=Colorado%20Scientific%20Society%201885&f=false>

As time goes on, possibly ALL of the Proceedings will be available online. That will save CSS researchers a lot of work!! Make your CSS library complete! Download the Proceedings! Then.... READ THEM!

Editor's note: the proceedings are quite interesting and document the beginnings and growth of the geologic sciences in Colorado. Also recorded are the day to day trials and tribulations of the Society. As the saying goes, "Some things never change." Pleas for new members, laments on the lack of volunteerism, the hunt for speakers, etc. In 1889, it is noted that the Society was forced to move quarters due to the "rapid growth of the city" and the offer of space at the Denver High School Building was accepted. The Society's gypsy-like existence continues to this day...



Girl Scout Outreach—by Lisa Fisher, CSS Secretary

Back in May, our CSS president (Don Sweetkind) received a request from a Girl Scout troop in Highlands Ranch regarding funding for a late July geological field trip to Tetons & Yellowstone. The girls had become interested in geology, and planned the trip based on, well, what we biased earth science folk would call a great geology destination! They were raising funds via cookie sales and other activities, and were inquiring as to whether CSS could contribute to their travel fund.

Your CSS council communicates often by email, which negates the problem of calling extra meetings to discuss unexpected agenda items. We talked about the pros and cons of solicited funding, and decided we just did not have the budget to contribute to each and every worthy group that requests funds, no matter how much we support them in their efforts. Instead, Jeremy McCreary and I offered to give them a presentation about what they were going to see. And of course I dragged Thom (Fisher) along to help.

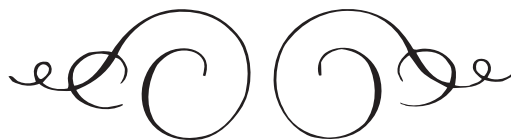
So on July 20, Jeremy, Thom, and I met the group of about a dozen mostly 7th graders at the Highlands Ranch Library, and covered some of the basics of Rocky Mountain geology, volcanoes, and geysers. It turned out that Jeremy was a natural at this! He gave an informative and fun—with the right touch of humor—presentation about hot spots and different types of volcanic activity. Jeremy lead off with how Yellowstone fits into the global tectonic scheme, and compared Hawaiian type eruptions with the more explosive types, culminating in caldera eruptions and their effects. I thought he did a great job! His Lego “Faulto-Matic” fault block models (showing how reverse and normal faults worked in compressional and extensional regimes) were a big hit! The girls responded very well to him.

In turn, I gave them a whirlwind tour of the development and geology of the Western US from Precambrian to Quaternary, concentrating on NW Wyoming and what they were going to see; particularly why the Rockies look different from the Tetons. Their leader had provided me that morning with an itinerary, which I incorporated as much as possible into the presentation. As they planned on hiking to Taggart Lake, I found a photo of a glacier occupying a spot in its moraine which fit perfectly in a side by side comparison with the photo of Taggart & Bradley Lakes with their bounding moraines. And knowing they were going to Tower, I found some illustrations of the columnar basalts and petrified trees near there. We ended with a photo tour of the geysers, mudpots, and other thermal features. With my years of volunteer geyser observation there, I was able to introduce them to the world of “lesser known” but probably more spectacular geysers and how to see some of these. We emphasized safety issues around the thermal areas, and respect for the fragility of the natural formations. Thom put his two cents in where appropriate, and also pitched geosciences to the girls.

I think the girls were interested in the differences in volcanic activity, and were fascinated by the high heat flow around Yellowstone. They were also surprised that you can see so many geysers, with the range in sizes from huge to tiny (“How cute!!!”)**, and that there’s more to the park than Old Faithful. Their leader had no idea that you could go out in the geyser basins at night, which I had recommended as an interesting, if rather eerie experience. Due to the volume of material to cover and the girls’ interest and questions, we ended up spending much more time with the girls than the leaders had planned, and had to hurry and skip some things at the end as the library was closing. We certainly hope to hear that their trip was successful.

I believe this is a great way for CSS to contribute to the community. I hope we can formalize a way (on our website?) to post requests, and for members to sign up for giving talks.

***Jeremy noted that “every single time Lisa showed a small geyser, the girls did that ‘ohhhhhhhhhhhhhhhhh’ thing girls often do when they spot something ‘cute’.”*



Sept. 18–20, Denver Gem and Mineral Show. We would welcome extra volunteers to help at our “Kids Corner” display tables of hands-on activities and demonstrations about earthquakes, rocks, minerals, and fossils (sponsored by the USGS). Anyone who is willing to help (*it comes with free admission to the show*) during part of any of the three days of the show, Friday Sept. 18 through Sunday Sept. 20, should please contact Pete Modreski, 303-202-4766 or pmodreski@usgs.gov. All it takes is an interest in talking with young people (or adults) and a modest familiarity with “rocks” and geology. Thank you!

Dear Colleagues:

I am extremely pleased to announce the publication of my first geology book, entitled, Guidebook to Geology of the Black Hills, co-authored with Jack Redden, Alvis Lisenbee, and Tom Loomis, and published by my company, Golden Publishers.

The book is 96 pages in length, with 90 colored illustrations and photographs. It is formatted with 11 Arial font, double columns, single-sided printing, and comb bound to keep the price at \$27, plus postage and handling, to a very reasonable number.

Special features of the book include a detailed road log to 38 locations of the best metamorphic rock exposures and major structures in the Hills, descriptions of the gold deposits, 7 pegmatite and mineral collecting localities, and all the major tourist attractions. It was my great fortune to have my co-authors involved in the book. Both Redden and Lisenbee are long-time faculty members at South Dakota Tech, and know the Black Hills geology as well as anyone. In addition, Tom Loomis has provided 22 spectacular photographs of micromounts of rarer minerals from his own collection.

Next up from Golden Publishers in January, 2010—Opaque Mineralogy and Microscopy of Ore Deposits, which will be around 300 pages in length.

Sincerely,

*John L. Lufkin, Ph.D.
President, Golden Publishers
lufk3@comcast.net
www.johnlufkin.com
(303) 997-7365*

Dinosaur Discovery Day at Dinosaur Ridge September 12th Theme:

“Colorado Geology Day,”
featuring the Jefferson County Public Library’s Knott’s Kids Day with giveaways, dinosaur book displays, and dinosaur story times. Guides stationed on the Dinosaur Ridge Trail (10 am–2 pm), geology exhibits at the Visitor Center, and Trek Through Time Exhibit Hall. Free all day.



Beth Simmons, CSS Volunteer extraordinaire says:
“Thanks to all the CSS volunteers who made the August 8th DDDay at Dinosaur Ridge a tremendous success. Over 550 visitors took the tours and hiked the hill, including a college geology class from the University of Dayton. The weather cooperated, fortunately. *See you next year!*”



A Taste of Colorado Festival. Labor Day weekend, 2009. Civic Center Park, Denver. The Colorado Mining Exhibit Foundation sponsors a booth: “The Importance of Mining and Minerals to a Strong America.” Volunteers are needed to talk to people about the importance of mining and minerals in their lives! Please volunteer to: Load trucks in Lakewood on Wed., Sept. 2; Set up the display on Thurs., Sept. 3; cover a 4-hour shift to help staff the exhibit (11 a.m. to 3 p.m. or 2 p.m. to 6 p.m.) on Fri-Sat-Sun-Mon., Sept 4–7; if you can help, call Guy Johnson, 303-969-0365; e-mail: GPJ222@aol.com Thank you!



Earth Science Meetings and Talks

Newsletter items must be received by the 25th of each month.



Colorado Scientific Society's regular meetings are held the 3rd Thursday of the month at the Colorado School of Mines Geology Building in Golden (unless otherwise advertised). Social time begins at 6:30 p.m. and talks start at 7:00 p.m.

For more information, contact Don Sweetkind, at 303-236-1828, dsweetkind@usgs.gov

Café Scientifique Sept. 15—Adit Ginde, MD, MPH, Emergency Medicine, Department of Surgery, University of Colorado School of Medicine: “THE SUNSHINE VITAMIN—You slathered yourself with SPF 65 all summer like a good citizen. Are you now Vitamin D deficient? And the days are getting shorter...” Wynkoop Brewery, evening science talks at 6:30. Free, except for beer. <http://www.cafescolorado.org/Upcoming.htm>

Colorado School of Mines, Van Tuyl Lectures Thursdays from 4–5 p.m. in Berthoud Hall room 241. <http://www.mines.edu/academic/geology>

Colorado State University, Dept of Geosciences, Rm 320 Warner College of Natural Resources Bldg., Mondays, 4:00 p.m. 970-491-5661. <http://welcome.warnercnr.colostate.edu/geo-training/index.php>

Denver Mining Club, Ltd. Aug. 17—Joe Rottman, Marketing Engineer, Colorado Ready Mixed Concrete Association: “Green” Concrete.” **Aug. 24**—Dick Nielsen, Consulting Geologist: “Plate Tectonics and the Formation of Mineral Deposits on Earth and Other Planets.” Meetings held at: Country Buffet, 8100 West Crestline Ave, SE corner at Wadsworth, Littleton. Purchase of buffet lunch required. Every Monday, except when noted. 11:30 a.m. - 1:00 p.m. (+/-). VISITORS ALWAYS WELCOME! <http://www.denverminingclub.org>

Denver Museum of Nature and Science Thursday, Aug. 20—Susan Solomon, Ph.D, co-chair of the Climate Science Group of the Intergovernmental Panel on Climate Change (IPCC), and senior scientist, Chemical Sciences Division, NOAA Earth System Research Laboratory: “A Tale for Our Times: Something for Everyone About Climate Change.” “Ms. Solomon is widely recognized as a leader in the field of atmospheric science. She has received the National Medal of Science and been recognized by Time magazine as one of the 100 most influential people in the world. In this lecture geared toward anyone interested in the subject, Solomon discusses what we know, why it matters, and what the future could bring for the world and for us in Colorado. Bring your questions!” 7:00 p.m., Phipps IMAX Theater; use IMAX Evening Entrance, \$12 member, \$15 nonmember. For reservation info. and a listing of more lectures, see <http://www.dmns.org/main/en/>

Denver Region Exploration Geologists' Society (DREGS) meets in the Mutual Consolidated Water Building, 12700 West 27th Avenue, Lakewood. Social 6:30–7:00 p.m. Presentation at 7:00 p.m. Meetings are normally scheduled for the first Monday of each month. For information contact Jim Piper, (303) 932-0137, or the website <http://www.dregs.org>

Denver Well Logging Society (DWLS) meets on the third Tuesday of each month, Sept. through May. Lunch and a technical talk at the Wynkoop Brewery (Mercantile Rm.) begins at 11:20 a.m., 18th and Wynkoop Sts. in Denver. Call Noga Gardiner at 303-831-1515 by prior Thursday for reservations. <http://dwls.spwla.org>

DIPS (Denver Intl. Petroleum Society) Regular meetings held 2nd Friday of the month at Wynkoop Brewing Company, 1634 18th Street, Denver. Gather at 11:30 am; Lunch served at Noon; Presentation at 12:30. Lunch price: \$15 for members, \$18 for non-members, \$3 talk only. Please e-mail Bob Zilinski, at rezilin@aol.com or call him at 303-885-0615 to make reservations before Wednesday, noon.

Rocky Mountain Association of Geologists (RMAG) Sept. 14—2009 Fall Symposium: “Unconventional Reservoirs: Oil and Gas Shales and CBM.” Registration begins at 7:15 a.m. \$200.00. Location: Marriott City Center, 17th & California. To register online, go to: http://www.rmag.org/events/index.asp?content_id=254

Univ. of Colorado, Boulder, Geol. Sciences Colloquium Weds., 4:00 p.m., Rm. 380. Refreshments at 3:30 p.m. on the 3rd floor. **Sept. 2**—Alexis Templeton, UC Boulder; **Sept. 9**—Jaelyn Eberle, UC Boulder; **Sept. 30**—Tom Marchitto, UC Boulder; Talk titles unknown at this time. <http://www.colorado.edu/GeolSci/>

Rocky Mountain SEPM Sept. 29—Grace L. Ford, Baytex Energy USA Ltd. & Colo. School of Mines: “Fluvial Architecture of the Wasatch Formation in Three Canyons, Utah: Implications for Reservoir Down-spacing and Drainage” 11:30 Reception, lunch at noon, speaker at 12:30. Reservations: luncheons@rmssepm.org, before noon of preceding Friday. \$20.00 lunch, \$3 talk only. Wynkoop Brewing Company, 1634 18th St., Denver. <http://www.rmssepm.org/luncheons.shtml>

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