November Program:

Geology and Minerals of the Stove Mountain/Fairview/Cheyenne Canyon Area, near Pikes Peak, Colorado Springs

by Gary Zito, Colorado School of Mines

The miarolitic pegmatites in the Stove Mountain area of Colorado have provided numerous attractive specimens of quartz, microcline, albite, and fluorite, as well as rare accessory minerals. In total, forty-seven different minerals have been found in this area. This area contains so many different minerals due to the presence of both the Pikes Peak Granite and the peralkaline Mount Rosa Granite and the secondary processes that are unique to this area. These secondary processes are responsible for many of the later accessory minerals.

Attractive specimens of smoky quartz, microcline, albite, muscovite and fluorite which compose the major minerals in these cavities, have been intensive searched for by collectors since the 1880s. Some of these will be illustrated.

The later formed, secondary minerals, are of special interest to collectors due to their rarity. These are fluocerite and bastnaesite, which are often found in association,
columbite and pyrochlore, also often associated, genthelvite/danaitale and kainosite. A discussion of these minerals will form the majority of the presentation.

Gary L Zito received his B. S. Geology and Chemistry from the University of Colorado, Boulder. After starting out with Barringer Laboratories, as an Analytical Chemist of Mine Ore and Effluents, he finished his career after 25 years as the Vice President of Barringer Laboratories. Currently he is the Electron Microscope Laboratory Manager, Department of Metallurgical and Materials Engineering at the Colorado School of Mines, a position he has had for 12 years. He has been a co-author in several mineralogical and biological technical papers. He has been an active collector of Colorado minerals for more than thirty years. Rocks & Minerals published his most recent article with Sarah Hanson on the Stove Mountain area in the May-June issue this year (2014).

See the article by Gary Zito and Sarah Hanson in the May/June 2014 (vol. 89, no. 3) issue of Rocks & Minerals magazine, “Minerals from the Miarolitic Pegmatites in the Stove Mountain area, Colorado Springs, Colorado”, pp. 224-237. If you don’t have a copy, one can be ordered for $9.95 from http://www.rocksandminerals.org.
Museum map from the DMNS website.

Dates for upcoming FM Colorado Chapter activities:
Meetings are normally held at 7:30 p.m. on the 2nd Thursday of alternate (odd-numbered) months, at the VIP Room in the Denver Museum of Nature and Science. (Subject to change depending on conflicts.) Visitors are always welcome at our meetings! Our expected 2015 meeting dates are:

- Jan. 8  FM meeting
- Mar. 12  FM meeting
- May 14  FM meeting
- May 9  FM Silent Auction, Clements Community Center, Lakewood CO
- Sept. 18-19 2015 Denver Gem and Mineral Show
- Sept. 24  FM meeting
- Nov. 12  FM meeting
Our September 18, 2014 FMCC meeting:

We enjoyed Ray Berry’s presentation on “My First 30 Years of Mineral Collecting”. Here, we viewed one of Ray’s spectacular clusters of late-stage quartz with crystalline goethite and goethite inclusions atop an earlier-formed smoky quartz crystal, from his Second Mesabi pegmatite claim in the Crystal Peak/Crystal Creek region, Park County.

FMCC 2014 Officers:  President, Mark Jacobson, markivanjacobson@gmail.com , 1-337-255-0627
Vice-President, Jim Hurlbut, jfhu@earthlink.com , 303-757-0283
Treasurer, Lou Conti, dlconti@aol.com , 303-797-3205 retiring Jan. 2015!
Secretary, Alan & Norma Keimig, alan.keimig@gmail.com, 303-755-9604
Directors:  Bill Chirnside (2013-14), billdozer@mho.com , 303-989-8748
            Don Bray (2014-15), don-bray@copper.net , 303-681-3646
            Larry Havens (2014-15), lghavens@aol.com , 303-757-6577
Chairpersons:  Newsletter, Pete Modreski, pmodreski@usgs.gov, 303-202-4766
             Preservation, Jeff Self and Donna Ware, selfawareminerals@gmail.com
Liaison for DMNS, Alan Keimig
Liaison for RMFMS, Jim Hurlbut
Membership/Hospitality - ? (open!)

Important notes about FM this month:

The Chapter is seeking a new Treasurer!

Lou Conti, who has served as our treasurer for quite a few years, is planning to “retire” from the job as of January 1, 2015. We are looking for a new candidate to volunteer to take over this important office. Please think about it, and help us by offering suggestions of yourself, or a friend, to help FMCC by taking on this position. If we don’t get a volunteer—will our Chapter just fade away? Try not volunteering, and find out! President Mark Jacobson assures us that he, the President, is NOT going to manage the treasury too. Please contact Mark, at markivanjacobson@gmail.com
Recognize this specimen? It is Denver Museum Nature and Science specimen 11128, microcline var. amazonite with smoky quartz and albite, from the Crystal Peak area, and it is the specimen from which the drawing was made that appears in our Friends of Mineralogy Colorado Chapter logo (see the first page of this newsletter!). The drawing was made by Joe Taggart, in the early 1980s, shortly after the Chapter was organized (1978). This specimen was displayed at the 2008 Denver Gem & Mineral show.

See our Colorado Chapter website: [http://friendsofmineralogycolorado.org/](http://friendsofmineralogycolorado.org/)

An archive of past newsletters and symposium abstracts, and other material about the history of the organization, as well as current meeting information, are posted here. The website is currently in the process of being transferred to a new server, so, everything on it may not be as organized as it normally will be, if you access it now.

**Annual Dues to Friends of Mineralogy, Colorado Chapter** are $13.00; this includes membership in the national organization, Friends of Mineralogy. If you would like to join (all new members are always most welcome!), or to pay your dues in advance for 2015, please see our website, [http://friendsofmineralogycolorado.org](http://friendsofmineralogycolorado.org), or send a check for $13 to FM-Colorado Chapter, P.O. Box 254, Littleton CO, 80160-0254.

Please note: Attendees at the San Juan Mineral Symposium who paid dues to FM in order to be covered by liability insurance while taking part in one of the field trips (there were 52 such people) will receive complimentary membership in FMCC through all of 2015. We welcome all of you “involuntary” new members, we hope you will enjoy receiving our newsletters during the year, and we hope that some or many of you will consider remaining members of the Friends of Mineralogy thereafter. We currently have 105 total members, counting the 52 from the symposium.

The symposium (Sept. 5-7, 2014, cosponsored by FMCC, CSM Geology Museum, and Friends of the CSM Geology Museum) was well attended and very successful. There were 104 paid registrants, with a total of 116 attendees including speakers and field trip leaders; attendees came from Australia, Canada, England, and 8 states of the U.S. All expenses were covered and the sponsors did not lose money on the symposium. Due to a last minute cancellation of one talk due to illness, Richard Parsons nicely filled in with a new talk, “Type Minerals of the San Juan Mountains”. The five guided field trips went off smoothly, not deterred by some scattered showers that day. Our sincere thanks go to our hosts at the Elks Lodge and elsewhere in Ouray, CO; all the field trip leaders (Larry Meckel, Rick Trujillo, Don Paulson, Robert Larson, Jeff Self, Donna Ware, Steve Fearn, Baird Brandow); the speakers, Benjy Kuehling who kindly gave personal tours of his private mineral collection at his “Columbine Mineral Shop; the organizing committee, and helpers of all sorts at the symposium. Copies of the Program-Abstracts-Field Guide booklet (54 p.) can be purchased for $20; please see the FMCC website, http://friendsofmineralogycolorado.org/, for details.
Above: part of the crew who helped at registration (from the left) — Donna Ware, Mike Dempsey, Richard Parsons, and Jeff Self. Mike Smith (program M.C.) with Robert Stouffer, the first speaker Saturday morning. Bob Larson (speaker) and Pam Larson (Mayor of Ouray and indispensable member of our planning committee). The Elks Lodge staff who helped prepare our banquet dinner—with them are, at far left, Jim Pettingill, Past Exalted Ruler of Lodge 492 and lodge event facilitator; center back, Mark Jacobson, FMCC President; and far right, Bette Maurer, Elks Lodge Bar and Catering manager. At left, John C. Stewart, Saturday evening at the symposium banquet in his persona of Thomas F. Walsh, 1850-1910, mining entrepreneur and owner of the Camp Bird Mine.
News from the Greater Denver Area Gem & Mineral Council

At the upcoming November 19th meeting, the Greater Denver Area Gem & Mineral Council will elect officers for 2015. The current slate of candidates is Janie Bennett - President, Martin Hannu - Vice President, Sharon Hannu - Secretary, and Howie Houk - Treasurer. Nomination for any of these offices is open to any club member. The Council meets only four times a year - in March, June, September and November. These are evening meetings held at the Denver Museum of Nature & Science.

If you would like to be a candidate for any of these offices, please contact one of the persons on the Nominating Committee. These persons are: Carl Bird 303-665-9794 or carlmbird@comcast.net, Lesley Sebol 720-999-1372 or lsebol@yahoo.com and Judy Knoshaug 303-423-2923 or jrnoshaug@comcast.net. The Council is a 501(c)(3) non-profit organization which is made up of the eight local gem, mineral and fossil clubs [of which FM Colorado Chapter is one]. The Council is the sponsor of the Denver Gem & Mineral Show. Serving as a Council officer is an opportunity to support and more fully participate in the gem, mineral and fossil hobby.

Respectfully submitted, Judy Knoshaug, Council Trustee

Thank you to all the volunteers:
As Show chairman I want to thank each and every one of you who volunteered at the show. You may have volunteered for a couple of hours or for several days. Whatever you did was extremely important to the show. We needed lots of help and you came through for us and for yourself. The volunteers are what separate us from other shows. The personal touch to the dealers and customers make this show in my opinion number one. So pat yourself on the back and accept the show committee thanks for a job well done.” Barb Melby Show Chairman, 2014 Denver Gem and Mineral Show

Denver Gem & Mineral Show 2014 – Winners in the Special Competitions

Donna Chirnside Trophy: Rice Northwest Museum of Rocks and Minerals
   2nd Place: California Academy
   3rd Place: National Museums of Scotland

Individual Competitive Case Trophies:
   Minerals, Unlimited Size – Lou and Diana Conti (Master - Worldwide Minerals)
   Educational, General Audience Concept - Denver Gem & Mineral Guild (Society – "Nada Diamonds" (Beta Quartz))
   Self-collected, Thumbnail Minerals from one State - Ernie and Marilynn Hanlon (Master - Colorado)
   Educational, Other - Craig Hazelton (Advanced - Shadow Effects in Agates)
   Thumbnail Minerals, Any Type – Kent Havens (Novice - Worldwide Thumbnails)
   Micromount Minerals from one State - Ron Knoshaug (Novice - Colorado)
   Self-collected, Unlimited Size Minerals from one State - Scott Luers (Novice - Wyoming)
   Thumbnail Minerals, Any Type – Nick North (Master - Worldwide Thumbnails)
   Educational, General Audience Concept, Skill - Keith Sheel (Master - Faceting)
   Club Prospector Trophy: 1st– Colorado Mineral Society
   2nd – Littleton Gem and Mineral Club

Winners in the Special Competitions:
   Best of Lapidary/Jewelry – Jody Sawdo (Agate Necklace)
   Richard M. Pearl Trophy: Nick North (Azurite, Mapillas Mine, Mexico)
   Best Fossil: Fred Olsen (Devonian, Kainops Trilobite, Oklahoma)
Prospector’s Trophy: Steve Knox (Chalcedony Stalactites, New Mexico)
2nd Place: Steve Knox (Chalcedony Rose, New Mexico)
3rd Place: Bill and Mary Davis (Quartz Scepter, Crystal Park, Montana)

Junior Prospector’s Trophy: Shaeleene Kent (Aquamarine, Mt. White, Colorado)
2nd Place: Shaeleene Kent (Phenakite, Mt. White, Colorado)
3rd Place: Shaeleene Kent (Phenakite and smoky quartz, Mt. White, Colorado)

*C. E. Withers Award: Brooks Britt - Montana Moss Agate
2nd Place: Dale Gann
3rd Place: Keith Sheel and Sandy Walden
4th Place: Tom Wodden

*Due to a misunderstanding about whether or not an exhibit had to relate to the theme of the show (2014, Agate) to be eligible for the C.E. Withers Award—it did state this in the exhibit competition rules, but this was not generally known—it had earlier been announced at the show that the very fine exhibit by Joe Dorris & family, A Showcase of Amazonite and Smoky Quartz, would receive the Withers Trophy. This was subsequently clarified, and only the exhibits dealing with agate were considered for this award. The competition rules relating to this award have been rewritten, more clearly, for the future.
The spectacular exhibit by the Joe Dorris family highlighted the entry way to the 2014 Denver Gem and Mineral Show.

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Newly Published books on pre-1900 Colorado mineral localities

**Pioneer Colorado Minerals – Jesse Summers Randall and his Minerals of Colorado Catalogs: 1873 to 1893**, by Mark Ivan Jacobson. 253 p., 8-1/2 by 11 inch format, softcover, perfect binding, Color. The book can be purchased from Batuan Biru Production, LLC; 1714 S. Clarkson St., Denver, CO 80210. Each, Colorado tax included: $ 40. Shipping costs $4 each book. Further details can be obtained by email at markivanjacobson@gmail.com

Jesse S. Randall’s Colorado mineral catalogues contain some of the first descriptions of mineral localities and of the collectors who had obtained specimens from these localities. Unfortunately, reading these catalogs and finding these localities are not easily done. This first time ever compilation of Randall’s catalogs – 1872-73, 1877, 1887 and 1893 – offers the collector an opportunity to rediscover lost localities in the field or recover heritage mineral specimens being sold from dusty attic storage. For historians, Randall’s incomplete 1873 catalog has never been recompiled from the daily issues of the Colorado Miner. Randall’s 1893 Third Edition of Minerals of Colorado was his last compiled book and was not superseded until 1961, when Minerals of Colorado: A Hundred Year Record by Edwin B. Eckel was published. Randall’s biography describes the growth of his collection and its numerous uses...
including its eight years of display in the Colorado Museum of Natural History. The biography also documents the first complete and corrected chronology of his political battle with William A. Hamill from 1884 to 1892.

Two other books document early lists of mineral species and localities that were discovered in Colorado. Each book contains all the catalogs of Colorado minerals published by the individual and a biography of the individual:


**Pioneer Colorado Minerals – J. Alden Smith and his Minerals of Colorado**: 1866 to 1882, by Mark Ivan Jacobson. 165 p., 7 by 10 inch format, softcover, perfect binding, B&W. Each, tax included: $20. J. Alden Smith was the only Territorial Geologist and the first State Geologist of Colorado. Parts of his collection were sold to both the Colorado School of Mines and the University of Colorado at Boulder.

Both books can be purchased from Batuan Biru Production, LLC; 1714 S. Clarkson St., Denver, CO 80210. Prices shown plus shipping costs of $4 per book. Further details can be obtained by email at markivanjacobson@gmail.com

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**Newly Published: Geology of Colorado’s Parks and Monuments, by John L. Lufkin**

Published by Golden Publishers, 2014. Price, $34.00, includes shipping in Colorado; $35.00 if out of state. To order please contact John Lufkin at lufk3@comcast.net. Description of the book:

- 129 pages in large format, 8.5 x 11 inches
- Descriptions of 16 sites in Colorado, including all nine of the National Parks & Monuments, and seven other parks and protected areas
- 218 color illustrations and photographs
- Eight geologic maps redone in Adobe Illustrator
- 127 terms defined in the Glossary
- 86 References

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“Red Rocks Park Amphitheatre in west Denver is one of the most famous natural outdoor theaters in the world, carved into ~1,000 feet of dipping red sandstones of the Fountain Formation. This formation represents alluvial fan deposits that were derived from the Ancestral Rocky Mountains during Pennsylvanian-Permian time.”

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One last picture from the San Juans Symposium, glimpse of a field trip; telephoto view from Red Mountain Pass of the field trip #2 group parked at the Genessie-Vanderbilt mine, Sunday Sept.7.
Calendar of Coming Events

Mon., Nov. 3, 7:00 p.m., Carlin-type Gold Deposits, by Tommy Thompson; at the monthly meeting of DREGS, Berthoud Hall Room 241, Colorado School of Mines, Golden; all are welcome. See http://www.dregs.org/index.html.

Wed., Nov. 5, 4:00 p.m., CU Boulder Geological Sciences Colloquium, Significance of the Sierran Orogen, by Craig Jones, CU-Boulder; Benson Earth Sciences Building auditorium (room 180); refreshments at 3:30 on the 3rd floor. For the schedule of all upcoming talks see http://www.colorado.edu/geolsci/coloquium.htm. All are welcome.

Thurs., Nov. 6, 4:00 p.m., Joint Heiland and Van Tuyl Lecture at Colorado School of Mines, in the Green Center, Metals Hall; Meghan Miller, President, UNAVCO, Boulder, CO; topic to be announced. All are welcome. See http://inside.mines.edu/GE_Lecture-Series for the full Van Tuyl Lecture fall schedule.

Fri., Nov. 7, 4:00 p.m., CSU Department of Geosciences Seminar, Multi-century Droughts and Abrupt Hydrologic Changes in Colorado’s Recent Past, by Bryan Shuman, University of Wyoming; at Warner College of Natural Resources (NR) Building, Room 320, Fort Collins. All are welcome. For the full schedule see http://warnercnr.colostate.edu/geo-news-and-events/department-seminars.

Sat., Nov. 8, 1:00-3:00 p.m., Nathrop, CO, at “The Rock Doc” Mineral Shop, “Meet The Prospectors”. “Join us to greet our very own TV personalities from the Prospectors TV show. Autographs. Chat with the stars. Enter to win prizes. New season airs in December on The Weather Channel.” 17897 U.S. Highway 285 between Buena Vista and Salida; for more information: cindy@therockdoc.net, 719-539-2019.

Sat.-Sun., Nov. 8-9, New Mexico Mineral Symposium, Socorro, NM., on the New Mexico Tech campus. For more information see http://geoinfo.nmt.edu/museum/minsymp/home.cfml

Thurs., Nov. 13, 7:30 p.m., monthly meeting of the Colorado Chapter, Friends of Mineralogy, with the presentation, “Minerals of Stove Mountain, El Paso County, Colorado” by Gary Zito, Colorado School of Mines. All are welcome to attend. Denver Museum of Nature and Science (museum admission not required); meeting will be in the Big Horn Room, museum 3rd floor near the Botswana, Africa exhibit; see http://friendsofmineralogycolorado.org/.

Fri-Sun., Nov. 14-16, “Denver Mineral Dealers 2014 Gem and Mineral Show” at the Jefferson County Fairgrounds, Exhibit Building; Golden, CO; no admission charge; 10-5 Friday, 10-6 Sat., 11-4 Sunday.

Sat., Nov. 15, 10 a.m. – 4 p.m., Exhibit Opening & Family Day, Steps in Stone: Walking Through Time, at University of Colorado Museum of Natural History, CU campus, Boulder. “A new exhibition that features real fossil tracks and trackways from the University of Colorado Museum of Natural History collections. Interactive exhibits invite children and adults alike to explore how animals, from insects to dinosaurs, moved across the earth, how their tracks became fossils, and how we study tracks to learn more about ancient landscapes and animals. The exhibit features never before exhibited trackway fossils from the collection of paleontologist Martin Lockley, recently retired from the University of Colorado-Denver. To celebrate this opening, the museum is hosting a free family day with multiple hands-on stations for children of all ages (and grown-ups, too!) to learn about fossil
tracks and see the new exhibition. We'll be joined by our friends from WOW! Children's Museum, City of Boulder Open Space and Mountain Parks, and Dinosaur Ridge for activities and information on other places where we can explore fossil tracks in our Colorado backyard.”

**Sat., Nov. 15, 12:00-4:00 p.m., Silent Auction**, gems, minerals, etc., sponsored by the Littleton Gem and Mineral Club. Columbine Hills Church, 9700 Old Coal Mine Ave., Littleton, CO 80123; all are welcome. Free refreshments!


**Wed., Nov. 19, 4:00 p.m., CU Boulder Geological Sciences Colloquium, Tracking the oxidation state of Earth's mantle through time**, by Dustin Trail, University of Rochester; Benson Earth Sciences Building auditorium (room 180); refreshments at 3:30 on the 3rd floor.

**Thur., Nov. 20, 7:00 p.m., 20 Years After: An Update on the Study of Telluride Minerals and Deposits**, by Bruce Geller, Director, Colorado School of Mines Geology Museum; at the Colorado Scientific Society meeting, Shepherd of the Hills Church, 20th Ave., and Simms St., Lakewood; all are welcome.

**Sat.-Sun., Nov. 22-23, 9 a.m. – 4 p.m., “Garage Sale” at the Colorado School of Mines Geology Museum, 13th and Maple Streets, Golden. Rocks, minerals, fossils, books, maps, USGS folios, etc. “Prices vary by item or box. Most prices will drop during the event.” Information: 303-273-3815.**

**Wed., Dec. 3, 4:00 p.m., CU Boulder Geological Sciences Colloquium, Mastodons and mountain climates: Final results from the Snowmastodon Project**, by Ian Miller, DMNS; Benson Earth Sciences Building auditorium (room 180); refreshments at 3:30 on the 3rd floor.

**Fri.-Sat.-Sun., Dec. 12-14, Flatirons Gem and Mineral Show**, sponsored by the Flatirons Gem and Mineral Club, Boulder; held at Boulder County Fairgrounds, Exhibit Building, 9595 Nelson Rd. (Nelson & Hover), Longmont, CO. For more info see [http://bcn.boulder.co.us/community/fmc/fmcshow.htm](http://bcn.boulder.co.us/community/fmc/fmcshow.htm)

**Wed., Dec. 17, 3:00 pm, DMNS Seminar Series, VIP Room, "On the trail of Colorado's newest, oldest sedimentary rock formation: Eluded at every turn by the Tava sandstone", Christine Siddoway (Colorado College). See [http://sites.coloradocollege.edu/csiddoway/](http://sites.coloradocollege.edu/csiddoway/) for background info on the speaker.**

*And in 2015:*

**Jan. 8, 2015, Friends of Mineralogy, Colorado Chapter bimonthly meeting**

**Feb. 12-15, Tucson Gem and Mineral Show; theme, Minerals of Western Europe.** The Friends of Mineralogy-sponsored symposium of talks on this theme, will take place at the show on Saturday, February 13.

**May 9, Friends of Mineralogy Silent Auction, Clements Community Center, Lakewood CO**