

Friends of Mineralogy, Colorado Chapter Newsletter – May 2017

May Meeting – Thursday, May 11, 7:30 pm Board meeting 6:30-7:30 p.m.; social time, 7:30; program, 8:00. **Denver Museum of Nature and Science – VIP Room**
Enter the Museum through the Security/Staff entrance to the left of the main entrance.

An underground tour of the Strataca Salt Mine in Hutchinson, Reno County, Kansas.

by Linda Burns



Linda Burns is the current president of the Denver Gem and Mineral Guild, Information Chair of the Denver Gem and Mineral Show, and Credentials Chair of the Rocky Mountain Federation of Mineralogical Societies. “I have been a rockhound all of my life. My field trips for rockhounding have taken me to several states (AZ, AR, CA, NV, NM, OR, UT, MT, WY, OK, and KS). As you can see I have plenty of states to collect in before time runs out!” Linda retired from Great Clips in 2016 to allow for more time to be involved in the collecting of minerals and in helping friends mine for minerals. The Strataca Salt Mine in Hutchinson, Kansas was one of the stops Linda made with friends (Kathy Honda and Beth Simmons) when they attended the Rocky Mountain Federation convention in Wichita in 2016.



The Strataca Salt Mine in Hutchinson, Kansas was one of the stops Linda made with friends when they attended the Rocky Mountain Federation convention in Wichita in 2016. The Strataca mine, also designated the Kansas Underground Salt Museum, was originally operated as the Carey Salt mine. The salt occurs in the Hutchinson Salt Member of the Wellington Formation, of Permian age. The salt bed is over 100 feet thick and lies some 650 feet below the surface.

An early day salt cart used by the Carey Salt Company

“The Strataca mine in Hutchinson, Kansas is a unique underground museum that offers tours of the historic salt mine that underlies the town. The museum highlights the former mining equipment and practices of recovering rock salt for domestic use. Visitors travel the same paths and elevators that workers did in the past. A tour of the mine provides views of the equipment used in the mine: ore carts, wagons, a mobile rail-based first aid office, salt cutters, and drills. Examples of the salt ore are displayed. In addition, the tour describes one of the former uses of depleted salt mines as storage for movie film and documents.”

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President’s Message

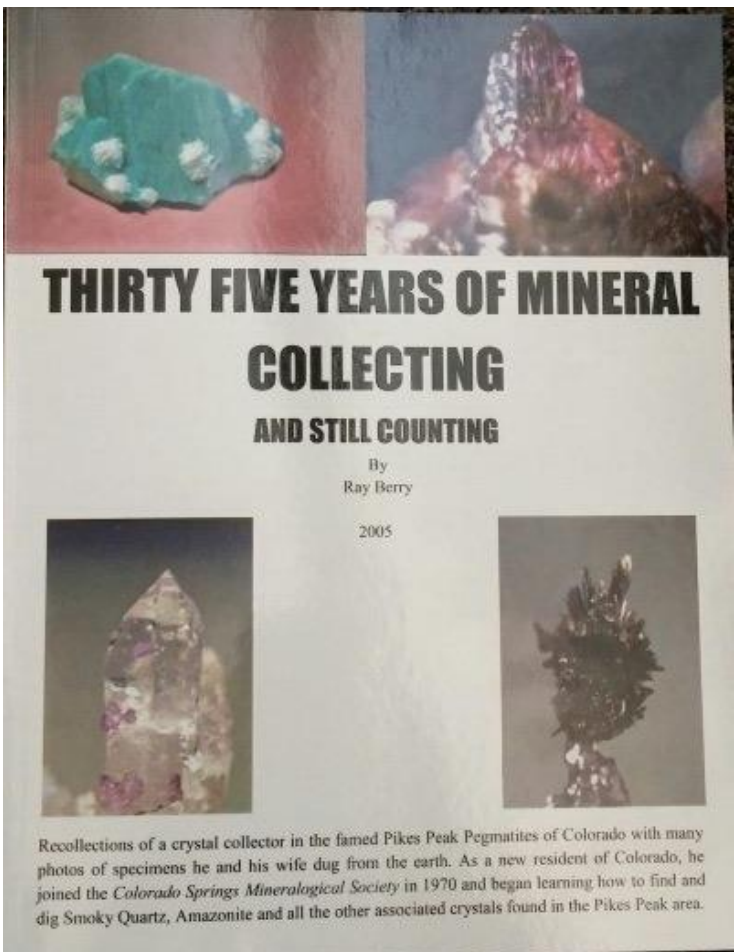
Hello all. Our May meeting will feature Linda Burns, current President of the Denver Gem and Mineral Guild, giving us a talk on the Strataca Salt Mine in Hutchinson, Kansas.

We’d like to try a slightly different plan for our May meeting. At 7:30 p.m. we’ll have a social time to meet & talk with members, and all are invited to bring specimens to show or pictures to share as Powerpoint or .jpg images. The formal meeting and program will begin at 8 p.m.

On Saturday, May 13th, we will be holding our annual silent auction. This is the primary source of funds for FMCC. Volunteers are always needed. Please try and bring snacks, sodas, cookies, whatever you want. Bring any specimens, or other mineral related items, you wish to sell and we will all have the opportunity to add something to our collections.

Looking forward to seeing everyone on Thursday and Saturday,
Jeff Self, May 2017, President FMCC

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Thirty Five Years of Mineral Collecting (And Still Counting) is a book written and published by Ray Berry, longtime Colorado mineral collector and member of the Colorado Springs Mineralogical Society and the Colorado Chapter, Friends of Mineralogy. This book recounts Ray’s experiences in collecting minerals, mostly at his mining claims in the Pikes Peak batholith. Originally written as a manuscript in 2005 (hence the stated copyright and publication date, and the original count of his 35 years collecting minerals), the manuscript was revised in 2006 and again in 2016, and published in its present form in August, 2016. The 76-page book, with color photos, can be purchased online (\$30) from Lulu Publishing, at <http://www.lulu.com/us/en/shop/ray-berry/thirty-five-years-of-mineral-collecting-and-still-counting/paperback/product-23067743.html> .

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Art and Mineral Workshop, Friday, June 16, at the CSM Geology Museum, “Learn How to Paint a Beryl Crystal”, with noted mineral artist Fred Wilda. “Fred, a self-taught artist, was raised on a small New England farm in Hadley, Massachusetts. His enthusiasm for the natural world developed when he was a very young child. He began sketching, painting, and carving while still in elementary school. Fred has graciously volunteered to come to Denver to work with the Friends of the Museum to put together a fun social fundraiser event that will benefit both adults and kids. The evening event will provide drinks and food and will include a mineral talk and instructions on how to paint your first beryl crystal. The art class is limited to 30 individuals, all others are encouraged to watch!

“The proceeds raised from the Friday night event will provide a free mineral & art workshop for kids who are interested in minerals and art. The event will provide a free mineral lecture, lunch, and instructions on how to paint a beryl crystal.

“The Friday evening adult event, 5:30 – 9:00 p.m., a workshop plus wine and cheese social, will take place at the Colorado School of Mines Geology Museum. Cost will be \$100 per person.

“The Kids Workshop will take place from 10 a.m. to 3 p.m., Saturday, June 17, also at the CSM Museum. The cost will be free to the first 30 kids to sign up; includes pizza for lunch.”

To attend, please RSVP to Sandra Gonzales, SandraGonzales@rockygems.com, or call her at 720-425-3908.

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The Symposium on Gold and Silver Deposits in Colorado will take place on July 21-24, 2017. It is being cosponsored by the Friends of the Colorado School of Mines Geology Museum, the CSM Museum, DREGS (Denver Region Exploration Geologists Society), and Friends of Mineralogy, Colorado Chapter, as well as the Colorado Geological Survey, the Colorado Division of Reclamation, Mining and Safety, and the Colorado Mining Association. The event will include a welcoming reception at the CSM Museum (Thursday evening), two days of lectures (Sat.-Sun., July 22 - 23), a Saturday evening banquet with a speaker, and two days of field trips (Friday July 21 and Monday July 24) to historic Colorado gold and silver mining areas, focusing on the Front Range and the northern half of the Colorado Mineral Belt. More information about the symposium is at: <https://www.facebook.com/LikeCSMGeoMuseum/posts/1822491981371516> . Registration cost will be \$100; students, \$50; banquet, \$40; each field trip, \$40. The registration form, including the list and detailed description of the field trips and the list of speakers, is now available on the Friends of Mineralogy-Colorado Chapter website, at <http://friendsofmineralogycolorado.org/gold-and-silver-deposits-in-colorado-a-symposium/> .

The list of speakers is also being attached to this newsletter as a separate pdf file.

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The FM Silent & Vocal Auction will take place **Saturday, May 13**, at the Clements Community Center, 1500 Yarrow St., Lakewood. A flier about the auction is part of this newsletter. A page with bidding slips is being sent as a separate attachment. All FM members are invited (of course!) to come, and are encouraged to bring some refreshments or drinks to share with those at the auction. Please come, and bring your friends!

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See more information about the Friends of Mineralogy, Colorado Chapter, on our website:
<http://friendsofmineralogycolorado.org>

Calendar of coming events:

Fri., May 12, 3:00 p.m., Denver Museum of Nature & Science Earth Sciences Colloquium, **The Evolution of Sensory Systems in Mammals**, by Simone Hoffman, New York Institute of Technology; VIP Room, DMNS, all are welcome, Museum admission not required to attend.

Sat., May 13, Friends of Mineralogy, Colorado Chapter, Silent Auction. Clements Community Center, 1580 Yarrow St., Lakewood CO, 12:00-4:00 (setup begins at 10:30 a.m., auction begins at 12:00, verbal auction 1:00, all tables will close by 3:00 p.m., checkout follows). For more info see <http://friendsofmineralogycolorado.org/> .

Sat., May 13, Dinosaur Discovery Day – Boy Scout Day at Dinosaur Ridge, Morrison, CO. Scouts as well as the public are invited.” Parking will be off-site at the Bandimere Speedway overflow lot located east of C-470 and south of Alameda along S. Rooney Road. Signs will be posted. Parking is \$5 per car, paid as you enter. More than 80 earth scientists and other volunteers, including certified Merit Badge Counselors, assist with the event.” There is a registration fee for participating Scouts, and a \$4 per person charge for persons (over age 3) who wish to take a bus tour of the ridge” (no charge for just a walking tour). For full information see <http://www.dinoridge.org/scoutdays.html#bsa> . The next Dinosaur Discovery Day will be **Saturday, June 10**. For a full list of upcoming lectures, field days, and other events at Dinosaur Ridge please see <http://www.dinoridge.org/calendar.html> .

Mon., May 15, at the monthly meeting of DREGS (Denver Region Exploration Geologists Society), **“Ring of Fire and Beyond: A New Metallogenic Super-Domain”**, by Jim Franklin, Meeting will be in Berthoud Hall, room 241, Colorado School of Mines. Social Hour - 6:00 pm. Presentation at 7:00. All are welcome. *(please note—in the context of this talk, “Ring of Fire” does not refer to the “Pacific Ring of Fire”. It is a name that has been given to a belt of mineral discoveries in northernmost Ontario, Canada, that include chromite, copper, nickel, and platinum-group elements.)*

Tues., May 16, 10:30 a.m., USGS Rocky Mountain Science Seminar series, **“Middle Cenozoic Patagonian marine transgressions: eustasy or tectonic loading during uplift of the Andes?”**, by Julie Fosdick, Univ. of Connecticut. Visitors are welcome; in the Building 25 auditorium (enter the Federal Center at the main gate, Gate 1, on Kipling St.; park east of building 25 and use building entrance E-14).

Thurs., May 18, 7:00 p.m., Too Warm, Two Poles: How Past Super Interglacials Should Inform Future Coastal Policy, Julie Brigham-Grette, University of Massachusetts-Amherst. Annual S.F. Emmons Lecture of the Colorado Scientific Society; American Mountaineering Center Auditorium, 710 10th St., Golden. No admission charge and all are welcome.

Sun, May 21, noon (shared potluck lunch), 1 p.m. (lecture), **“A geologic cross section of Colorado along the I-70 corridor”**, by geologist Ned Sterne. At the Dinosaur Discovery Center, west side of Dinosaur Ridge, 17681 W. Alameda Parkway Morrison (located at Entrance 1, the north entrance, to Red Rocks Park). See <http://www.fss-co.org/> for details, or contact Beth Simmons at cloverknoll@comcast.net . All are welcome.

Mon., May 22, 3:00 p.m., Hyperthermals: Extreme Global Warming Events in the Geological Past, by William Clyde, University of New Hampshire;. Denver Museum of Nature & Science Earth Sciences Colloquium, VIP Room, DMNS, all are welcome, Museum admission not required to attend.

Mon., May 22, 4:30-7:00pm The Mineral Maniacs and the Magic Hardhat launch party. Come celebrate the publishing of local author novel aimed to introduce young readers to the exciting world of minerals, geology, mining and engineering. **Resolute Brewing Company**, 7286 S. Yosemite St. #110, Centennial, CO 80112. FREE PINT to the first 100 books sold. See TheMineralManiacs.EventBrite.com for information and to RSVP.

Fri.-Sat.-Sun., June 2-4, Pikes Peak Gem & Mineral Show, sponsored by the Colorado Springs Mineralogical Society. At Mortgage Solutions Financial Expo Center, 3650 N. Nevada Ave., Colorado Springs. 10-5 Fri. & Sat., 10-4 Sun.

June 8-11, Fairplay Contin-Tail rock, gem, and mineral show, MiddleFork RV Resort, 255 Highway 285, Fairplay, CO; see www.facebook.com/ContinTail.

Sat.-Sun., June 10-11, 9 am to 3 pm, **GEOdyssey's Annual Mineral & Fossil Home Sale**, 15339 West Ellsworth Drive, Golden, CO 80401 (303-279-5504). “This will be a 2-day sale! Help us reduce our inventory, and celebrate our 20 years in business, at our annual mineral and fossil "garage sale". This year we will be featuring specimens that we obtained on our trip to Bulgaria, as well as specimens from our personal collection. All specimens are a minimum of 20% off, with bigger discounts for volume purchases. We'll have many new specimens priced at 50% off, and some at 75% off. We will also be featuring jewelry and beads. Drinks and snacks provided while you relax on our shaded patio. You can preview some representative specimens on our web site, www.geodyssey-rocks.com.

Directions: from west 6th Avenue, exit onto Indiana Street and go south on Indiana. Drive into Mesa View Estates. Turn right at the first street (McIntyre Circle) and right at the next street (Ellsworth Drive). We are about midway down the street on the left.” --- **Pat & Zelda**

Fri., June 16, Art and Mineral Workshop, “Learn How to Paint a Beryl Crystal”, by Fred Wilda. Fundraiser by the Friends of the Colorado School of Mines Geology Museum

June 16-18, Victor, CO Gem and Mineral Show, Victor, CO; see <http://victorcolorado.com>

Sunday, June 25, a geologic field trip through South Park, led by Peter Barkmann, Colorado Geological Survey. A one-day field trip sponsored by the Florissant Scientific Society; all are welcome to attend. Details are still TBA. The trip will generally follow the route of a trip Peter led during the 2016 Geological Society of America annual meeting,

Fri.-Sat.-Sun., July 14-15-16, 9 a.m. – 6 p.m. daily, there will be a “**Home Rock Show (Sale)**” by John Haney, 4242 Thompson Court, Denver CO. 80216 (south of I-70, east of York St. & west of Steele St.). “Rough rock, slabs, cabs, enhydros, fossils, amber, minerals, crystals, gemstone bowls & boxes, lapidary equipment & supplies; discounts for lapidary students.” Contact, Rocksisme@comcast.net, 303-296-8268.

Sat.-Sun., July 15-16, The **Florissant Scientific Society** will hold its annual multi-day event at the Bear Basin Ranch in southern Colorado, south of Canon City. “Gary Ziegler, ranch owner and international archeologist will show us the culturally modified trees there and tell us about his work in Peru. There is a cabin where 6-8 people can bed down for the night. Campers are welcome. You can look at the Bear Basin Ranch's website to get a feel for the ranch. Other accommodations are available in Westcliffe and Florence. More information, including costs, to come later.” See <http://www.fss-co.org/> for future info to be posted.

Thurs.–Mon., July 20-24, Gold and Silver Deposits in Colorado, a symposium cosponsored by the Friends of the Colorado School of Mines Geology Museum, the CSM Museum, DREGS (Denver Region Exploration Geologists Society), and Friends of Mineralogy, Colorado Chapter. The event will include a welcoming reception at the CSM Museum (Thursday evening), two days of talks (Sat.-Sun., July 22 - 23), a Saturday evening banquet with a speaker, and two days of field trips (Fri. July 21 and Mon. July 24) to historic Colorado gold and silver mining areas, focusing on the Front Range and the northern half of the Colorado Mineral Belt. More information about the symposium is at: <https://www.facebook.com/LikeCSMGeoMuseum/posts/1822491981371516> . Registration cost will be \$100; students, \$50; banquet, \$40; each field trip, \$40. The registration form, including the list of field trips and of speakers, is now available on the Friends of Mineralogy–Colorado Chapter website, at <http://friendsofmineralogycolorado.org/gold-and-silver-deposits-in-colorado-a-symposium/> .

Aug. 4-6, Creede Rock & Mineral Show, at the Creede Underground Mining Museum and Community Center, Creede, Mineral County, CO. 10 a.m. – 5 p.m. daily; see <http://creederocks.com/> .

Aug. 10-13, Contin-Tail rock & mineral show, Buena Vista Rodeo Grounds, Buena Vista, CO; see www.facebook.com/ContinTail

Aug. 17-20, Woodland Park Rock, Gem, & Jewelry Show, Woodland Park, CO; see <https://www.facebook.com/woodlandparkrockandgemshow/>

Aug. 18-20, Lake George Gem & Mineral Show, sponsored by the Lake George Gem and Mineral Club, Lake George, CO. See <http://www.lgclub.org/>

Sep. 8-16, Colorado Mineral and Fossil Fall Show, Crowne Plaza Hotel - Airport, 15500 E. 40th Ave. Denver, CO.

Sep. 9-17, Denver Coliseum Mineral, Fossil, and Gem Show, Denver Coliseum; see <http://www.coliseumshow.com/>

Sep. 13-16, Denver Fine Mineral Show, Denver Marriott West, 1717 Denver West Blvd.; see <http://finemineralshow.com/denver/>

Sep. 15-17, 50th annual Denver Gem and Mineral Show, Denver Mart, 451 E 58th Ave., Denver, CO. Gold and Silver is the 2017 show theme. See <http://denvershow.org/wp/>

Nov. 11-12, 38th annual New Mexico Mineral Symposium, at New Mexico Institute of Mining & Technology, Socorro, NM; see <https://geoinfo.nmt.edu/museum/minsymp/home.cfml>

Nov. 17-19, Denver Area Mineral Dealers Show, Jefferson County Fairgrounds, Golden CO.

For more lecture series during the year see:

CU Geological Science Colloquium (Wednesdays, 4 p.m.) see <http://www.colorado.edu/geolsci/colloquium.htm>

CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.), see <http://warnercnr.colostate.edu/geo-news-and-events/department-seminars>

Van Tuyl Lecture Series, Colorado School of Mines, (Tuesdays, 4 p.m.): http://inside.mines.edu/GE_Lecture-Series

Denver Mining Club (Mondays, 11:30), see <http://www.denverminingclub.org/>

Denver Region Exploration Geologists Society (DREGS; 1st Monday, 7 p.m.), <http://www.dregs.org/index.html>

Rocky Mountain Map Society (RMMS; Denver Public Library, Gates Room, 3rd Tuesday, 5:30 p.m.), <http://rmmaps.org/>

Rocky Mountain Micromineral Association, <http://rocky-mountain-micromineral-association.com/>

Western Interior Paleontology Society (WIPS; Denver Museum of Nature & Science, 1st Monday, 7 p.m.), <http://westernpaleo.org/> .

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Dates for 2017 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. The dates are sometimes shifted in September and November so as not to conflict with the Denver Gem & Mineral Show and the New Mexico Mineral Symposium. Visitors are *always* welcome at our meetings!

Remaining meeting dates for 2017:

May 11, FM meeting

May 13, FM Silent Auction, Clements Community Center, Lakewood

Sept. 7, 14, or 21, FM meeting (*date to be determined*)

Sept. 15-17, Denver Gem and Mineral Show; 2017 show theme, “Gold and Silver” (50th anniversary)

Nov. 16, FM meeting

Friends of Mineralogy, Colorado Chapter, 2017 officers

- President:** Jeff Self, selfawareminerals@gmail.com
- Vice President:** Bob Hembree, rhembree@comcast.net
- Secretary:** Alan Keimig, alan.keimig@gmail.com, 303-755-9604
- Treasurer:** Gloria Staebler, lithogloria@gmail.com, 303-495-5521
- Denver Museum N&S Liaison:** Alan Keimig, alan.keimig@gmail.com, 303-755-9604
- DG&MS Council Trustee:** David Bunk, dave@davebunkminerals.com
- FMCC Newsletter:** Peter Modreski, pmodreski@aol.com, 303-202-4766
- Field trip planner** (not field trip leader): unfilled
- FMCC Website:** unfilled
- Postings for the FM national facebook page:** unfilled
- At-large voting board members:**

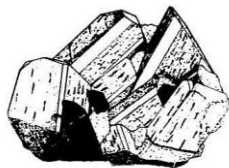
Larry Havens, lwrnchavens@comcast.net, 303-757-6577

Don Bray, don_bray@copper.net, 303-681-3646

Ed Pederson, mineraljeep@aol.com

Mark Jacobson, markivanjacobson@gmail.com, 1-337-255-0627

Plus one unfilled position



Friends of Mineralogy, Colorado Chapter-- **Silent Auction**

Saturday, May 13, 2017

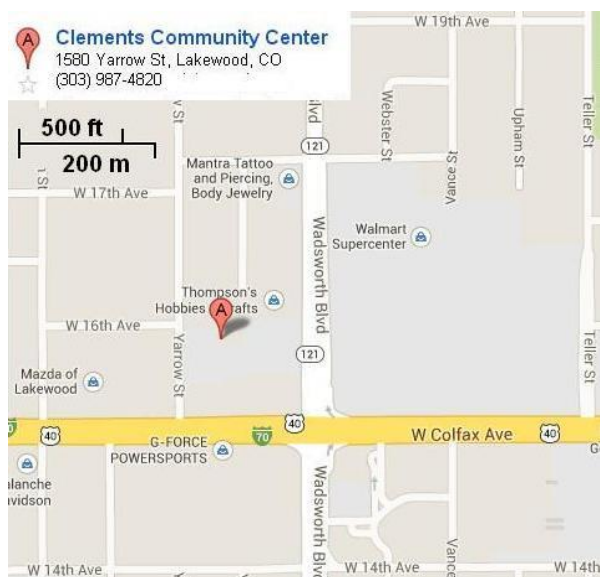
**Setup begins 10:30 a.m., Auction begins at 12 noon
Clements Community Center, 1580 Yarrow St., Lakewood CO**

All are invited to come & bring material to sell, and to bid on items

Friends of Mineralogy, Colorado Chapter is having its silent auction of mineral specimens, rocks, fossils, books, faceted stones, jewelry, lapidary pieces and mining memorabilia. Please bring your auction materials for setup beginning at 10.30 AM. All (members or not) are invited to bring specimens to sell, and to participate as bidders/buyers. Items brought to the auction may be designated as a 20%, 50%, or 100% donation to FMCC.

Time: Our auction will be on Saturday, May 13; setup will begin at 10:30 a.m., auction to begin at 12 noon, a live auction of special items will begin at 1 p.m., all tables will be closed by 3:00 p.m., and checkout should be completed by 4:00 p.m.

Location: Clements Community Center, 1580 Yarrow St., Lakewood, located one block northwest of the intersection of West Colfax Ave. and Wadsworth Blvd. The entrance and parking lot are on the south side, facing Colfax. Go north on Yarrow Street from Colfax.



Auction bid slips are attached on a separate page, and will also be available at the auction during setup. Sellers can also get copies of our bidding slips at our website:

www.friendsofmineralogycolorado.org

Note to sellers, PLEASE use our current bidding slips, not old ones which may differ, from previous years. Thank you!

Any questions about the auction should be directed to Jeff Self, selfawareminerals@gmail.com .To be assigned a seller / bidder number in advance, please contact Lou Conti, dlconti@aol.com, 303-797-3205.

Please tell all your friends about the auction, bring some specimens, and come see the good selection of specimens and enjoy our complimentary refreshments. A selection of special items, donated by local dealers, will be included in the "live" auction.



Prospective members for the Colorado Chapter, please send this form with your check to the address below. This form may also be used to renew your membership. Membership in the local chapter includes membership in the National Society. A local chapter member does not need to live within the area. Membership lists are not shared outside of the organization. Membership in the local chapter provides membership in the Rocky Mountain Federal of Mineralogical Societies (RMFMS) with its associated group 3rd party liability insurance for field trips.

Note: Dues have increased for 2017: Please mail annual dues of **\$15 for an individual**, or **\$25 for a family** made out to **Friends of mineralogy, Colorado Chapter** to:

Ms. Gloria Staebler

Friends of Mineralogy - Colorado Chapter
P.O. Box 234
Arvada, CO 80001-0234

Please complete the following for new members.

Last Name: _____ First name: _____

Middle name (optional): _____

Street Address (used for mail): _____

City: _____ State or Province: _____

County: _____ Zip or Postal Code: _____

Telephone (land line): _____ Telephone (Cell phone): _____

Email address: _____

Signature: _____ Date: _____

My primary area of interest is: _____

Chapter and National newsletters will be sent to you by email unless you request a paper copy to be mailed. _____ Please note that mail newsletter as sent as a black and white paper copy.

Friends of Mineralogy Colorado Chapter is affiliated with the Mineralogical Record Magazine, The Mineralogical Society of America (MSA), the American Geological Institute (AGI), Rock and Minerals magazine, the American Federation of Mineralogical Societies and the Rocky Mountain Federation of Mineralogical Societies.

Friends of mineralogy, INC. is composed of member of local chapters, of which in 2014, seven chapters existed. Members may affiliate with any chapter or none. Local chapters issue newsletters as does the national organization.

Symposium on Colorado Gold and Silver Deposits – speakers and presentation titles (as of 5/5/2017)

Oral presentations (19)

Lee Alford & Alexander Gysi (Colorado School of Mines): **Hydrothermal Evolution of Au-bearing Quartz-pyrite Veins and their Association to Base Metal Veins in Central City, Colorado**

William Atkinson, Jr. (Univ. of Colorado): **How Gold-silver Deposits Form: The Chemistry of Transport and Deposition**

Paul Bartos: **The Breckenridge Mining District**

Peter Bojtos: **The Economics of Gold**

Carl R. (Bob) Carnein: **Cripple Creek: An Update**

Stanley Dempsey (Dempsey & Company, Golden CO): **The Mining Districts of the Northern Half of the Colorado Mineral Belt**

Lisa Dunn (Arthur Lakes Library, Colorado School of Mines): **Clear Creek County's Mining Districts: Discovering Missing History from Primary Source Materials**

Bruce Geller (Colorado School of Mines Geology Museum): **A Cursory Description of Telluride Occurrences in Boulder County, Colorado and Exploration Guides: Classic Examples of Epithermal Telluride Deposits in Boulder's Backyard**

Richard Goldfarb (Colorado School of Mines): **The Origin of Gold Deposits**

Larry James: **The Central City Mining District, Gilpin County, Colorado**

Vincent Matthews & Matt Morgan: **Does the Colorado Mineral Belt' Best Describe the Distribution of Tertiary Epithermal Ore Deposits in Colorado?**

Pete Modreski (U.S. Geological Survey): **A Mineralogical Look at Colorado's Gold and Silver Production: What Were the Au-Ag Minerals that Started out as Ore and Ended up in Bullion?**

Jim Paschis (Consulting Geologist, Boulder, CO): **Cash Mine: 3rd level Mining, Milling and Ore Microscopy**

Beth Simmons: **Colorado Gold and Silver before 1859**

Ralph Stegen (Freeport-McMoRan Exploration),: **The Silver-Rich Manto Deposits of Aspen, Colorado: Characteristics, Discovery, and Mining History**

Tommy B. Thompson: **The Precious-Base Metal Manto Deposits of the Colorado Mineral Belt at Leadville, Gilman, Kokomo & Aspen**

Steve Veatch: **The World's Greatest Gold Camp: A Concise History of Cripple Creek Mining District**

Karen Wenrich (Crystals Unlimited, Tucson, AZ): **The Sweet Home Mine, Park County, Colorado**

Doug White (Newmont Mining Co.): **The Cripple Creek & Victor Gold Mine**

Saturday evening banquet presentation

Ed Raines (Colorado School of Mines Geology Museum): **Silver as a Precious Metal from the Greeks to Today**

Poster Papers (5)

Matthew Dye, Nigel Kelly, & Thomas Monecke (Colorado School of Mines): **A Revised Paragenetic History of Gold Mineralizing Events at the Cripple Creek Gold Telluride Deposit, Colorado**

Mario Guzman & Thomas Monecke (Colorado School of Mines): **Mineralogy, Petrography and Mineral Chemistry of the North Amethyst Epithermal (Au-Ag) Deposit, Creede, Colorado: Insights into Precious and Base Metal Mineralization**

Irene Kadel-Harder & Peter Price (Front Range Community College): **Remote Sensing of Alteration Signatures Associated with Epithermal and Porphyry-related Mineral Deposits using WorldView-3, ASTER, and Hyperion Data**

Tommy B. Thompson: **Theses/dissertations Completed along the Northeastern Colorado Mineral Belt**

Subaru Tsuruoka, Thomas Monecke, & T. James Reynolds (Colorado School of Mines, and Fluid, Inc.): **Mineral Paragenesis of the Summitville High-sulfidation Epithermal Cu-Au Mineralization: Nature of the Mineralizing Hydrothermal Fluids**