



Friends of Mineralogy, Colorado Chapter Newsletter – July 2016

Happy summertime! This will be a mini-edition of our newsletter, mostly to share information about the upcoming 2nd Eugene E. Foord Pegmatite Symposium, July 15-19, 2016.

If you have not yet registered and wish to attend the symposium, please sign up as soon as possible! July 5 is the **final** deadline for registrants to take part in the field trips or the Saturday evening banquet. After this date you may still register to attend the symposium itself, or you may register as a walk-in at the meeting, Saturday morning, or at the welcoming reception Friday evening. However, last-minute registrants may not be able to receive a copy of our program/abstracts and field guide booklets at the conference (these will be mailed to late registrants after the symposium). Full information is on our Chapter website, <http://friendsofmineralogycolorado.org/>. All attendees will receive a copy of the 119-page program & abstracts book, as well as a 107-page field guide. Our registered attendance is currently near 100 persons.

Schedule of events and speakers at the symposium:

Friday, 15 July 2016 registration, package pickup and reception

- 3:00- 5:00 PM Pick-up of registration and field trip package at the Geology Museum, Colorado School of Mines, Golden, CO
- 3:00- 7:00 PM Pick-up of dormitory key and dormitory information package for those staying in campus dormitory, at Geology Museum, Colorado School of Mines, Golden, CO
- 5:00-8:00 PM Opening reception at the Geology Museum, Colorado School of Mines, Golden, CO

Saturday, 16 July 2016 presentations (Berthoud Hall, Colorado School of Mines)

- 8:15-8:30 AM Opening remarks and logistics
- 8:30-9:30 AM **Michael A. Wise**: A-type granites and their pegmatites: NYF or something else? - **Keynote speaker**
- 9:30-9:55 AM **Sandra de Brito Barreto**: Vieirópolis pegmatite field, northwest of Paraíba State (Brazil): New occurrences of amazonite pegmatite.
- 9:55-10:20 AM **Peter Modreski**: A review of the 1986 and 1999 Colorado pegmatite symposia.
- 10:20-10:40 AM Coffee- rest break
- 10:40-11:05 AM **Robert F. Martin**: The rise and fall of amazonite.
- 11:05- 11:30 AM **Julian F. Menuge**: Geological setting and mineralogy of the LCT pegmatites of Leinster, southeast Ireland.
- 11:30-11:55 PM **Axel Müller**: Can pluton-related and pluton-unrelated granitic pegmatites be distinguished by their chemistry?
- 11:55-1:25 PM Lunch (and poster set-up starts)
- 1:25-2:25 PM **David London**: Experimental crystallization of the Macusani Obsidian. - **Keynote speaker**
- 2:25-2:50 PM **David London**: Pegmatites of the Little Three mine, Ramona, San Diego County, California.
- 2:50-3:15 PM **Mona-Liza C. Sirbescu**: What does it take to make a pegmatite? Direct observations of crystal nucleation and growth.

3:15-3:40 PM Coffee- rest break

3:40-4:05 PM **Milan J. Novak**: Primary (magmatic) and hydrothermal milarite-group minerals from Velká skála pegmatite, Písek pegmatite district, Czech Republic.

4:05-4:30 PM **George B. Morgan VI**: Crystallization: induced field diffusion as a driving force for pegmatite zonation.

4:30- 4:55 PM **Edward Raines**: Some textures, habits, and associations that help point the way to a better understanding of the crystallization process in the Pikes Peak batholith pegmatites.

4:55-7:00 PM Poster session

7:30 PM Dinner Banquet at Table Mountain Inn, Golden

Sunday, 17 July 2016 presentations

8:45-9:00 AM Opening remarks and logistics

9:00-10:00 AM **William B. Simmons**: REE-Rich Pegmatites from the South Platte and Trout Creek Pass pegmatite districts, Colorado: Contrasting geochemical profiles and tectonic regimes. - **Keynote speaker**

10:00-10:25 AM **Charles Stern**: Role of liquid immiscibility in formation of F- and REE-rich segregations in aplite veins near Jamestown, Colorado, USA.

10:25-10:45 AM Coffee- rest break

10:45-11:10 AM **Markus B. Raschke**: Petrology of a REE pegmatite near Wellington Lake, South Platte, CO: an intermediary between NYF-type and miarolitic REE poor pegmatites in the Pikes Peak batholith.

11:10-11:35 AM **Sarah L. Hanson**: Using Pearce Discrimination Diagrams to Evaluate the Tectonic Regime for Pegmatite Parent Granite.

11:35-12:00 PM **Michael N. Spilde**: Rare-Element Pegmatites of the Petaca District, New Mexico.

12:00-1:30 PM Lunch

1:30-1:55 PM **Alexander Gysi**: The role of pegmatites and acidic fluids for hydrothermal Zr and REE transport in the Strange Lake peralkaline granitic pluton.

1:55-2:20 PM **Alexander U. Falster**: Origin, geochemistry and mineral chemistry of late Penokean LCT-type pegmatites in Florence County, Wisconsin.

2:20- 2:45 PM **Joseph Dorris**: Amazonite and smoky quartz pegmatites in the Smoky Hawk trend, Teller County, Colorado.

2:45-3:10 PM **Ian Merkel**: The California Blue Mine: A recently discovered aquamarine pegmatite in the Mojave Desert.

3:10-3:35 PM **Gary Zito**: The rare earth minerals of Stove Mountain and Cheyenne Canyon near Colorado Springs.

3:35-3:55 PM Coffee- rest break

3:55-4:20 PM **Richard Frettard**: Exploring for topaz-bearing pegmatites near Pikes Peak.

4:20-4:45 PM **Luis Sanchez-Munoz**: Raman and Rayleigh scattering microscopy: Applications in alkali feldspars for the characterization of pegmatites.

4:45- 5:10 PM **Dwight Bradley**: LCT pegmatites and the supercontinent cycle.

5:10 - 5:25 PM Comments about field trip logistics and travel to airport

Poster Presentations (Poster session, Saturday, 5:00-7:00 p.m., Berthoud Hall)

- 1) Hints on the origin and evolution of spodumene pegmatites in southeast Ireland. **Renata Barros, Julian F. Menuge, and Thomas Zack**
- 2) Crystallization of the Fisher quarry pegmatite, Sagadahoc Co., Maine: Preliminary insights from fluid inclusions. **Clara J. Brennan, Samuel M. Cameron, and Mona-Liza C. Sirbescu**
- 3) The mineralogy of the Waterloo quarry pegmatites, southern Wisconsin. **Thomas W. Buchholz, Alexander U. Falster and Wm. B. Simmons**
- 4) A large scale unidirectional solidification texture in the Mt. Mica pegmatite, Paris, Oxford County, Maine. **Myles M. Felch, Wm. B. Simmons, A. U. Falster, and K. L. Webber**

- 5) Rare earth element pegmatites in the South Platte region of Colorado. **Rhiana Elizabeth Henry, Charles Stern, Julien Allaz, and Markus Raschke**
- 6) Pegmatites of China: a bibliography. **Mark Ivan Jacobson**
- 7) Mineralogy and petrology of NYF-type pegmatites of the mesoproterozoic Mount Rosa peralkaline granite complex, El Paso County, Colorado, USA. **Philip M. Persson, Alexander Gysi, Katharina Pfaff, and Markus Raschke**
- 8) Unusual REE and rare element minerals from pegmatites and alkaline granites: thalenite and brannockite from the Golden Horn Batholith, Washington, and South Platte Pegmatite district, Colorado, USA. **Markus B. Raschke, Evan J. D. Anderson, Alexandra Skewes, Julien Allaz, Henrik Friis, Joseph Smyth, Charles Stern, Philip M. Persson, Rhiana Henry, Katharina Pfaff, Rudy Tschernich, and Randy Becker**
- 9) Local structure of beryl group minerals from multinuclear NMR spectroscopy. **Luis Sánchez-Muñoz, Isabel Sobrados, Virginia Díez, Zhehong Gan, Sandra de Brito Barreto, Federico Pezzotta, and Jesús Sanz**
- 10) Local structure of beta-eucryptite and beta-spodumene in the $\text{Li}_{1-x}\text{Al}_{1-x}\text{Si}_{1+x}\text{O}_4$ for $0 \leq x \leq 1$ in the LAS system by multinuclear NMR spectroscopy. **Luis Sánchez-Muñoz, Isabel Sobrados, Virginia Díez, and Jesús Sanz**
- 11) Evidence for an anatectic origin of an LCT type pegmatite: Mt. Mica, Maine. **William B. Simmons and Alexander U. Falster**
- 12) Topaz on America's Mountain (Pikes Peak). **Jack Thompson and Kaye Thompson**

Monday, July 18, and Tuesday, July 19 – Symposium Field Trips

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Friends of the Colorado School of Mines Geology Museum
Founded 2000

Friends of Mineralogy Colorado Chapter

Resins-Epoxies

**2nd Eugene E. Foord
Pegmatite Symposium
Golden, Colorado**

July 15 - 19, 2016

www.facebook.com/LikeCSMGeoMuseum/
<http://www.colorado.edu/symposium/pegmatite/>

Friends of Mineralogy Silent Auction, May 2016: The Friends of Mineralogy, Colorado Chapter held its mineral auction, both silent and voice at the Clements Center, Lakewood, Colorado on Saturday, May 14, 2016. The auction was a success raising more than \$1,000 net to the society and smaller amounts to the donors and affordably-priced minerals, books and jewelry to the buyers. The event was organized and run solely by volunteers. Specimens for the voice auction were donated by David Bunk, Marty Zinn and Lou Conti. The voice auctioneer was Bruce Geller who was ably assisted by Larry Havens with Philip Persson showing the specimens around. Beer flat boxes were mostly provided by Bruce Geller. Table setup, sales checkout, and organization were handled by all the volunteers – Sherman Marsh, Kent Havens, Larry Havens, Tom Reilly, Jeff Goldsberry, Leslie Sebol, Larry Havens, Lou Conti, Philip Persson, and Mark Jacobson. Free snack food and drinks were brought by many people including Pete Modreski, Larry Havens, Lou Conti, Mark Jacobson and Frank and Ellie Rosenberg. Lou Conti is much appreciated for serving as the coordinating banker for the auction. We want to especially thank the specimen donors, without whom this auction would not have been a success, The funds raised will be careful spent for our bi-monthly presentations and assisting in organizing symposiums such as the upcoming Second Eugene E. Foord Pegmatite Symposium. The FMCC owned portable sound system with wireless microphone and a powerpoint projector are both due to the contributions from previous years.

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Chapter treasurer Gloria Staebler reports that our current membership has recently reached a total of 80. We'll acknowledge our new members in the September newsletter. Annual Dues to Friends of Mineralogy, Colorado Chapter are \$13.00 (going up to \$15.00 in 2017); this includes membership in the national organization, Friends of Mineralogy, Inc.. For more information see the Colorado Chapter website: <http://friendsofmineralogycolorado.org/>.

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.

July 15-19, 2nd Eugene E. Foord Pegmatite Symposium, Golden, CO

Sept. 8, FM meeting (*this date may be subject to change*); speaker TBA

Nov. 17, FM meeting Dr. Markus Raschke, CU, “Thalénite: from redefinition to new discoveries of a rare-earth element silicate mineral from Colorado”.

FMCC 2016 Officers: President, Mark Jacobson, markivanjacobson@gmail.com , 1-337-255-0627
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Preservation, Jeff Self and Donna Ware, selfawareminerals@gmail.com
Liaison for DMNS, Alan Keimig
Liaison for RMFMS, Jim Hurlbut
Representative to Denver Council, Dave Bunk; alternate, Mark Jacobson
Membership/Hospitality - ? (open!)

Calendar of coming events

July 15-19, the “2nd Eugene E. Foord Symposium on Pegmatites, Golden Colorado” will take place on the CSM campus. There will be a welcoming reception, two days of oral and poster presentations, and two days of field trips to Colorado pegmatite localities. See full registration information at <http://www.colorado.edu/symposium/pegmatite/> Pegmatite researchers from around the country and internationally are expected to attend, as well as local presenters. All interested persons are invited to attend; talks will cover a mixture of scientific research and general descriptive topics.

Aug. 5-7, 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. 11-14, Contin-Tail rock & mineral show, Buena Vista, CO; see www.facebook.com/ContinTail

Aug. 18-21, Woodland Park Rock, Gem, & Jewelry Show, Woodland Park, CO; see <https://www.facebook.com/woodlandparkrockandgemshow/>

Aug. 19-21, Lake George Gem & Mineral Show, sponsored by the Lake George Gem and Mineral Club, Lake George, CO. See <http://www.lggmclub.org/>

Thurs., Sept. 8, FM meeting, 7:30 p.m., Denver Museum of Nature & Science, VIP Room (*this date may be subject to change*); speaker TBA

Sep. 10-18, Denver Coliseum Mineral, Fossil, and Gem Show, Denver Coliseum; see <http://www.coliseumshow.com/>

Sep. 11-18, Colorado Mineral & Fossil Show (Fall), Ramada Plaza Hotel (formerly Holiday Inn - Central Denver), 4849 Bannock St, Denver, CO (I-25 frontage road). See http://www.mzexpos.com/colorado_fall.html .

Sep. 14-17, Denver Fine Mineral Show, Denver Marriott West, 1717 Denver West Blvd.; see <http://www.westwardminerals.com/finemineralshow/pages/denver.html>

Sep. 16-18, 49th annual Denver Gem and Mineral Show, Denver Mart, Denver, CO. **Minerals of Africa** is the 2016 show theme. See <https://www.facebook.com/Denver-Gem-And-Mineral-Show-154290574610235/?fref=ts>

Nov. 12-13, 37th annual New Mexico Mineral Symposium, at New Mexico Institute of Mining & Technology, Socorro, NM; see <https://geoinfo.nmt.edu/museum/minsymp/home.cfml>

Thurs., Nov. 17, FM meeting , 7:30 p.m., Dr. Markus Raschke, CU, “Thalénite: from redefinition to new discoveries of a rare-earth element silicate mineral from Colorado”.

Nov. 18-20, Denver Area Mineral Dealers Show, Jefferson County Fairgrounds, Golden CO.

You may always refer to our Chapter website, <http://friendsofmineralogycolorado.org/> where information about all our meetings and coming events is posted.