



Denver Gem & Mineral Guild Founded March 1964

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AFMS Silver Medal Club 2016



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TIPS & CHIPS

[HTTP://WWW.DENVERGEM.ORG](http://www.denvergem.org) OR
[HTTP://DENVERGEM.ORG](http://denvergem.org)
AND NOW FACEBOOK!!!

February 2020



**February 14, 2020
7:30 PM, CSM Berthoud Hall Room 109**

Erin Fair, Dinosaur Ridge

Dinosaur Ridge Education Director Erin LaCount will join DGMG for a presentation on the history of dinosaur and fossil discoveries at our National Natural Landmark, Dinosaur Ridge.

With the top dinosaur track site in the nation – one of the top sites in the world – Dinosaur Ridge is home to many “firsts.”

Learn about the important sites we manage, historic findings that put us on the map, and recent local discoveries, as well as upcoming events and opportunities to engage in at Dinosaur Ridge.



Where and what time is the DGMG MEETING? (Follow the signs in the building!)

The meeting starts at 7:30 pm at the Geology Building, Berthoud Hall, Room 109 (lower level), 1516 Illinois Street, Colorado School of Mines, Golden. Entrance is on the south side ground level or through the north main door of the building (Stairs or elevator). Photo is of the east entrance along Illinois Street. The hospitality and junior meeting (6:30) room is across the hall from the meeting room—full of sweets and healthy treats for socializing after the meeting. Parking is at a premium along the streets of campus. There is a small parking lot north of Berthoud Hall, west of Guggenheim. Go down Illinois all the way to 13th, turn left, then left again up Maple. Go in the first driveway to the left at the top of the hill. There are handicapped places on the south side of building, accessible by driving through the pedestrian zone.

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56 years of DGMG Kudos, Celebrations, & Events

2019 DGMG Officers & Chairmen

President:: George Daggett
Vice President: Sarah Reece
Secretary: **OPEN PRO-TEM:** Marj Becker
Treasurer: Deb Baldwin;
Treasurer Assists: Beth Simmons,
Hospitality: **OPEN**
Ways & Means:
 Dave Sanchez, Gideon Breithaupt, Sandra Lucero
Membership: Sue Childs
Membership Ass't: Merlin Schreffler, Tricia Zeyrek,
Claims Manager: Fred Ceconi; **Ass't.** Susanne Peach
Editor: Beth Simmons; **Ass't:** Marj Becker
Historian/Librarian: Kathy Honda
Webmaster: Bob Johnson
Show Chairman: Beth Simmons
Dealer Chairman: Linda Burns
Field Trips: Committee
Grab Bags: Joe Walkowich, Joe Payne, Kathy Honda
Merchandiser: Sandra Lucero
Council Rep: Kathy Honda; **Alt.** Linda Burns
Denver Show Rep: Kathy Honda
Sunshine: Sandra Lucero
Party planning: Deb Baldwin, Marj Becker
RMFMS Rep: Kathy Honda
Golden Diggers: Joe Payne
Diggers Assists: Susanne Peach, Sarah Reece
Outreach: Susanne Peach

An "Assistant" is the officer's backup in case of illness or other reason they can't do their job.
 Every officer needs an "Assistant!"
 Join up! Say YES when asked!

Quote of the Month:

*You have three paths in life:
 Be MAD, Be SAD, or Be GLAD!
 You choose!*

February Birthdays:

Jusakne Christensen
 George Daggett
 Mike Dempsey
 Laura Kokkinen
 Joe Payne
 Joe Walkowich



February Anniversaries:

The Rockwells
 The Simonds

February Sunshine Spotlight

Get well wishes to **Max Rouke** who was badly injured in an automobile wreck.
 Sent Thank You Card to **Deb Baldwin** for hosting the December board meeting and Popcorn Party.
 Sent Thank You Card to Phil Persson for his wonderful presentation of The Top Ten Mineral Localities of the World at the January meeting.



DGMG T-Shirts and Vests for Sale!

Currently Available at the February Meeting:

Commemorative Anniversary Club Shirts - \$10.00

Club Vests - \$25 & Guild Pins - \$0.50



Coming soon:

New Club T-shirts &
 Club Baseball Caps



**CONTACT SANDRA LUCERO TO
 INFORM HER OF SUNSHINE REQUESTS**

gardengal001@yahoo.com

THE DENVER GEM AND MINERAL GUILD—57 Years old!



Founded in 1964, the Denver Gem and Mineral Guild pursues exploration, experimentation, and education in the earth sciences; the discovery, development and preservation of minerals and mineral deposits; and the advancement, encouragement and utilization of the principles of art and craftsmanship as applied to gems and minerals.

The Guild meets on the second Friday of the month at 7:30 pm at Berthoud Hall on CSM Campus, except for June, July, August, and December. Picnics, field trips, and parties replace regular meetings those months.

Deadline for article submission for the Tips & Chips is the 20th of each month. Email photos and articles to editor Beth Simmons at cloverknoll@comcast.net. Exchange with other newsletters is invited, and reprinting of material from this newsletter with proper attribution is encouraged.

2019 DGMG CALENDAR OF EVENTS

A persistent page—watch monthly for additions! PUT THIS ON YOUR FRIDGE!!!



HOSPITALITY FOR 2020

Chairman:

STILL VACANT

Sandra Lucero

will bring the plates and cups and plastic ware for the spring months

February: **Joe Walkowich**
Beverages: **George Daggett**

March:
Beverages: **George Daggett**

April: **Merlin Schreffler**
Beverages: **George Daggett**

May: **Debbie Baldwin**
Beverages: **George Daggett**

FRIDAY FEBRUARY 14 2020

7:30

SPECIAL SPEAKER FROM DINOSAUR RIDGE
HAPPY VALENTINE'S DAY!

SHOW—FEBRUARY 27-MARCH 1, 2020

JEFFERSON COUNTY FAIRGROUNDS

BE THERE OR BE CUBIC!

MARCH FIELD TRIP

TOUR OF BACK STAGE AT THE COLLECTOR'S EDGE

GOLDEN

DATE TBA

FRIDAY MARCH 13 2020

7:30

CRAIG HAZELTON—RECOGNIZING JASPERS



PRESIDENTIAL MESSAGE

According to our written history, the founders of the Denver Gem & Mineral Guild enjoyed a "compulsion to make little rocks out of big rocks." In addition to finding beautiful native rocks and minerals, another part of the fun is to see what's inside that rock. Agates may have bands and blotches of bright color. Sowbelly agate has wonderful banded layers in the amethyst, including bands of native silver. And on and on.

How do you make big rocks into little rocks? You are among the fortunate few who has access to lapidary equipment. The Guild has its own lapidary shop! We have two slab saws, now two trim saws, capping wheels and are soon to have a flat lap. We also have experienced "professionals" who are required to teach you how to operate the equipment. Jim Dennis, Dave Sanchez, and Linda Burns tend to be our most skilled teachers.

Further to our written history, another underlying tenet of the Guild is telling outrageous stories. In addition to exaggerated stories about what we found on our various excursions, we also can tell tales about how we turned those stones into works of art and revealed the heart of the stone.

So, get out there and pick up some more rocks! Some of those rocks will be perfect for turning into little rocks.

Rock on!

George

2020 Calendars STILL FOR SALE!

Only about 30 copies left!

\$10— stunningly beautiful!

2020 DGMG Show Report
by **Beth Simmons**, Show Chairman

SEE ENCLOSED MAPS AND CHARTS!

SIGN UP!

Special exhibits include the Sherman Dugan Museum and Phoenix Mine ore minerals, Ernie Hanlon's amazonite, DGMG carvings, Linda Burn's new fluorite case (in prep for the Denver show), Blake Sullivan's fossil fish.

DGMG CARVING CASE AT DGMG SHOW and FIFTH ANNOUNCEMENT OF WORKSHOP

The club's carving case will be in our show in February. Sandy Cline is planning to return the 3rd week of May for a week long workshop! We need 10 participants! Plan ahead! Let **Beth** know if you plan to participate.



GOLDEN DIGGERS INACTIVATED

The Golden Diggers junior program has been part of the Guild's life for many years. Teri Harris and Mary Lou Mobley organized field trips, administered the badge program and delivered presentations and activities for quite a while. More recently, Joe Payne and Susanne Peach have been performing those duties with joy and dedication.

However, despite their and our best efforts, the Golden Diggers program has had low attendance by the juniors and limited involvement in the Guild by the parents. As a result of the apparent drop in interest in the Golden Diggers, at their most recent meeting, the DGMG Board voted to render the program inactive for the foreseeable future.

It's not a matter of the Guild's unwillingness to have a junior program; it's a matter of low response to our offerings for juniors. There are at least two other rock hounding clubs in the Denver area with well-developed junior programs; it's just that the Guild presently is not one of those opportunities.

Naturally, the Guild at large and especially the juniors and parents who attended Golden Digger events immensely appreciate the efforts and results produced by Joe Payne and Susanne Peach. It's through no fault of their own that the Golden Diggers program has atrophied. Just the opposite—it's to their credit that the program has lasted as long as it has. These two high-quality individuals deserve our undying appreciation. Show them your appreciation when you see them!

George Daggett, DGMG President, 2020

IT'S SHOW TIME!

We will see you at the show!

Volunteer sign up sheets are in this newsletter.

If you can't come to the meeting, email
Beth Simmons, cloverknoll@comcast.net

And tell her when you want to volunteer.

We can't put on the show without your help!

The show map and dinner reservations list are
also included in the newsletter.

DGMG SHOW PREPARATION NEWS

These are the exhibits on the list for 2020:

LOBBY: DGMG Hard Rock Café; DGMG Club Claims
SOUTH WALL and around **SOUTH PILLAR:**

Phoenix Mine

Dave Sanchez (2)- Jewelry

Keith Sheel- Faceted stones

Maxine Sheel

Ernie Hanlon—Amazonite

Patti Harrison—jewelry

Larry Jankowski

Ron Snelling— Faceted Stones (of course!)

Marj Becker— Bring me a rock!

George Daggett- Minerals

DGMG Carvings

Linda Burns—Fluorite

NORTH WALL and west of **NORTH PILLAR**

Sherman Dugan Museum— Donna & Jeff Self

Ernie Hanlon—Colorado Minerals

Merlin Schreffler- Artifacts

Pete Modreski- Minerals

EAST WALL:

Bob Pfeiffer (2) - Collectors' specials

Tyler Strand— Smoky Quartz, etc.

Dennis Gertenbach— Colorado Fossils

STAGE:

Beth Simmons—Stony Steeds

Pete Modreski— USGS

Blake Sullivan—Fossil Fish

BACK HALL:

Jim Dennis (2-3)- Fluorescent Exhibit

These are the dealers for the show:

Moss Rock Shop

D&J Rare Gems

Earthstone: The Solitaire

Orca Gems

Spirit Whispers

Hands of Spirit

Jensen Meteorites

Mineral Stope

Morgan Trinkets

Sidewinder Minerals

Blackstone Lapidary

Self-Aware Minerals

K&M Enterprises

Dan's Used Rocks

Morocco's Fossils

Costigan's West Minerals

Rockhound Studio

Vickie Schlepp

Rocky Mountain Mining Company

Down-to-Earth Rockshop

The Amethyst Rose

JBL Minerals

Danz Rocks.

ALL PIF!

FRIDAY NIGHT DINNER RESERVATIONS

As of 1/28/20

NO SNOW STORM THIS YEAR!

**AMERICAN BUFFET at Wrigley's
Chicago Bar and Grill, 18200 W.
Colfax, Golden, Dinner served at
6:45**

Dealers: (two from each dealer,
courtesy of club; others \$10 each)

Bob and Beverly Pfeifer
Dan and Diana Pollard
John and Jordan Hovanec
Maxine and Keith Sheel
Norma and Scott

Members: (\$10 each)

Beth Simmons
Marj Becker and helper
Linda Burns
Sue Childs
Sandra Lucero
Debbie Baldwin
Merlin Schreffler
Gideon and Cindy Breithaupt
Jim Dennis
Karlene Fry
Joe Walkowich
George Daggett



X = no skirting. Blue are new or tables to be moved. Green are 6' tables

DEMOS

A Wheel of Fortune

B SME on stage—Economic Minerals

C Ron Snelling faceting

D Ron Snelling faceting

E Bob Pfeiffer—geode cutting

F Jim Dennis & Dave Sanchez

G Karlene Fry

H Grab Bags & People's Choice

DISPLAYS—PC = People's Choice

- 1 Hard Rock Café PC1
- 2 Piety Claim case
- 3 Phoenix Gold Mine PC2
- 4 Dave Sanchez PC3
- 5 Dave Sanchez PC4
- 6 Keith Sheel
- 7 Maxine Sheel PC5
- 8 Ernie Hanlon PC6
- 9 Patti Harrison PC7
- 10 Larry Jankowski PC8
- 11 Ron Snelling—faceted stones PC9
- 12 DGMG Carvings PC10
- 13 Marj Becker PC11
- 14 Craig Hazelton PC12
- 15 Dennis Gertenbach PC16
- 16 Linda Burns PC13
- 17 George Daggett PC15
- 18 Merlin Schreffler PC16
- 19 Pete Modreski PC17
- 20 Bob Pfeiffer PC18
- 21 Bob Pfeiffer PC19
- 22 Ernie Hanlon PC20
- 23 WIPS PC21
- 24 Sherman Dugan Museum PC22
- 25 Tyler Strand PC23
- 26 Beth Simmons PC24
- 27 Pete Modreski PC25
- 28 Blake Sullivan PC26
- 29 Jim Dennis—fluorescents (Black case) PC27
- 30 Jim Dennis—fluorescents (Black case) PC27
- 31 Jim Dennis—fluorescents (Black case) PC27



DGMG Show volunteer chart

THURSDAY	Announcer - Linda Burns	Thursday	Dealer setup - Linda Burns overseer
Morning	Linda Burns overseer	Afternoon	1
9:00-12:00			Fluorescent Exhibit - Jim Dennis overseer
Electrical	1 Debbie Baldwin		1 Felix Beall
	2 Gideon Breithaupt		2 Dan Zellner
	3		3
	4		4
	5		5
Table Skirting			Club tables set up - George Daggett overseer
	1 Merlin Schreffler		1
	2 Sue Childs		2
	3 Wendy Carley		3
	4		4
	5	Thursday	Sandwich Bar - Bob Johnson overseer
	6	EVENING	1
	7		2
	8		3
10:00-12:00	George Daggett overseer		4
Case unload and setup			5
	1 Joe Walkowich	CLOSE	Beth Simmons - overseer
	2 Dave Sanchez		8:00
	3 Bob Pfeifer		
	4		
	5		

DGMG Show volunteer chart

FRIDAY Announcer - Linda Burns

MORNING

8:00 Opening - Beth Simmons overseer

1 Linda Burns

2 Wendy Carley

10:00 SHOW OPENS

9:00-6:00 Hospitality Room - Sandra Lucero
Overseer

1 2

10:00-1:00 Front Desk - Overseer Merlin
Schreffler Afternoon

1 Merlin Schreffler 3

2 Marj Becker 4

10:00-12:00 Club table - grab bags

1 Wendy Carley 4

2 5

11:00-11:30 Fluorescent Exhibit - Jim Dennis

1 Fred Ceconi 2

1:00-4:00 Front Desk - Overseer Sue
Childs

1 Sue Childs 4

2 5

3 6

12:00-4:00 Club table - grabbags

1 Debbie Baldwin 3

2 4

2:00-2:30 Fluorescent Exhibit - Jim Dennis

1 2

4:00-4:30 Fluorescent Exhibit - Jim Dennis

1 2

10:00-6:00 Demonstrations - Dave Sanchez -

1 Fellix Beall 2 Karlene after 2:00

4:00-6:00 FRONT DESK

1 2

6:00 SHOW CLOSES - Beth Simmons

DGMG Show volunteer chart

SATURDAY

Announcer - Linda Burns

8:00 Opening - Beth Simmons overseer

1

10:00 SHOW OPENS

Hospitality Room - Sandra Lucero
Overseer

10:00-6:00

1

3

2

4

10:00-1:00

Front Desk - Merlin Schreffler

1 Sarah Reece

4

2 Marj Becker

5

3

6

10:00-12:00

Club table - grabbags

1 Wendy Carley

3

2

4

10:00-10:30

Fluorescent Exhibit - Jim Dennis

1 Fred Ceconi

2

1:00-4:00

Front Desk - Merlin Schreffler

1 Marj Becker

3

2 Sarah Reece

4

12:00-5:30

Club table - grabbags

1 Sarah Reece

5

2 Sandy Walden

6

3 Chauncey Walden

7

4

8

2:00-2:30

Fluorescent Exhibit - Jim Dennis

1

2

4:00-4:30

Fluorescent Exhibit - Jim Dennis

1

2

4:00-6:00

FRONT DESK

1 Merlin Schreffler

2

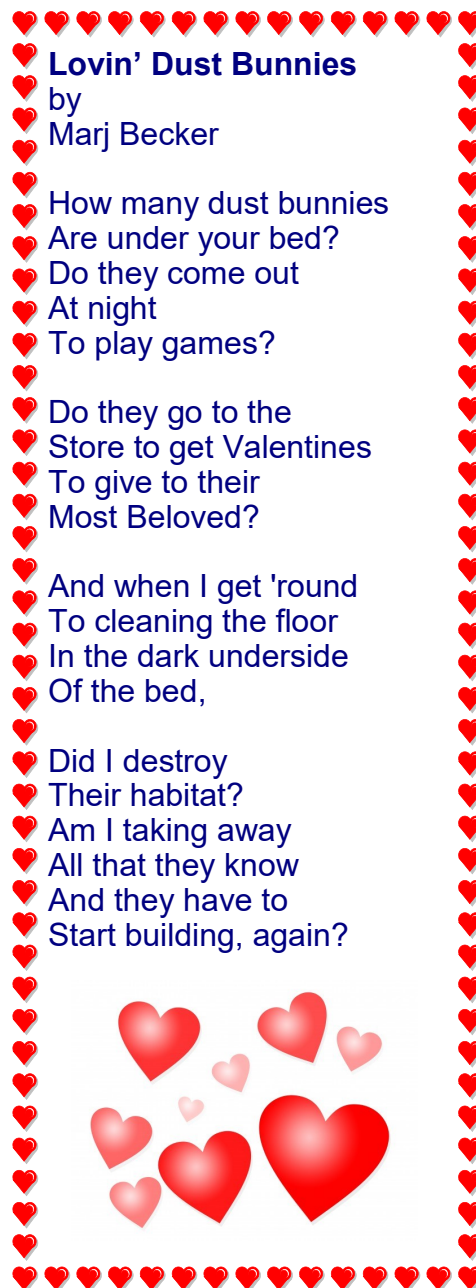
9:00-5:30

Demonstrations - ongoing - Dave Sanchez overseer

1 Karlene

2 Gideon Breithaupt

6:00 SHOW CLOSES - Beth Simmons



DGMG Show volunteer chart

SUNDAY	Announcer - Linda Burns	5:00 SHOW CLOSES - Beth Simmons overseer
	Opening - Beth Simmons	
	9:00 overseer	Case breakdown/loading - George Daggett overseer
	1	Sam Garcia will pick up the cases at 6:00
	10:00 SHOW OPENS	1 TJ Strand
10:00-6:00	Hospitality Room - Sandra Lucero Overseer	2 Tyler Strand
	1	3 Joe Walkowich
10:00-1:00	Front Desk - Merlin Schreffler	Electrical - Linda Burns overseer
	1 Sarah Reece	1
	2	2
	3	3
10:00-12:00	Club table - grab bags	Dealer Shutdown - Linda Burns overseer
	1 Wendy Carley	1 Wendy Carley
	2 Greg Wilson	2 Greg Wilson
	3	3
10:30-11:00	Fluorescent Exhibit - Jim Dennis	4
	1	6:00 Shut down Hospitality Room
1:00-5:00	Front Desk—Marj Becker	Sandra Lucero Overseer
	1 Marj Becker	1
	2	2
12:00-4:30	Club table - grabbags	
	1 Sarah Reece	
	2 Debbie Baldwin	
2:00-2:30	Fluorescent Exhibit - Jim Dennis	
	1	
4:00-4:30	Fluorescent Exhibit - Jim Dennis	
	1	
10:00-4:30	Demonstrations - ongoing - Dave Sanchez overseer	
	1 Karlene Fry	2



SPOTLIGHT ON FEBRUARY'S SPONSOR:

What member puts thousands of little specimens into thousands of little bags? What member sews thousands of cloth bags for the Guild's contribution to the Denver Show? What member serves as the admissions chair for the Denver Show? What member is the club's representative to the DGMS Council? What member is the club's representative to the Rocky Mountain Federation? What member is the Colorado State Director for the Rocky Mountain Federation of Mineralogical Societies? What member served as membership chairman for the Guild for at least five years? What member served as hospitality chairman for the Guild for at least five years? And what member sponsored not one, but two months in 2019's calendar?

KATHY HONDA!

A chemist by schooling, Kathy has worked at the Auraria Library at the Auraria Campus in downtown Denver since the late 1990s. She and Beth Simmons have co-authored two books about Dinosaur Ridge history: *The Legacy of Arthur Lakes*, for which Kathy found and copies all of the almost one thousand articles that Arthur Lakes wrote, and *The Rooney Ranch*. She joined the Guild in the first decade of the 21st century, and has certainly contributed THOUSANDS of hours to the club!

THANK YOU, KATHY!

JeffCO Fairground Scuttlebutt

You've probably heard the newsy gossip that the Jefferson County Fairgrounds will be closing by order of the county commissioners because it costs \$1.3 million dollars to operate, in addition to the \$500,000 in fees raised by 1,200 events which includes our DGMG gem and mineral show. This is the commissioners' way of getting back at the voters for not voting to raise taxes. That and turning loose a number of prisoners from the county jail for lack of space!

So they had a meeting with the fairground administrators and directed the fairground folks to come up with a way to make the facility "self-sustaining." Well, we all know that means "RAISE THE RENT." So prepare to discuss raising the rent after this year's show. We'll follow what transpires and keep you in the know. In a rare political statement in this newsletter, I think it's time to elect some new County Commissioners who appreciate the value of the facility we have and use regularly. And Commissioners who want to preserve Dinosaur Ridge's valuable geological resources. I'm sure Erin will touch on this topic at the talk February 14th.



WHY DO SUCH LARGE CRYSTALS FORM IN PEGMATITES?

Everyone who sees a pegmatite in the field marvels at the gigantic crystals found in them. It's exciting seeing schorl crystals several feet long or picking up large muscovite books. How do such giant crystals form? Most people guess that the large crystals must reflect some unusually slow cooling rate. They would be only partly correct. Pegmatites do form where magmas cool relatively slowly within the earth compared to the fast cooling they would experience if they had erupted on to the earth's surface.

But pegmatites are associated both in time and space with other igneous rocks that formed at the same depth and show much smaller grains. ***It should also be noted that large crystals can grow in the lab in the space of days or weeks.*** There must be something other than slow cooling to explain these giant crystals.

The solution came as a result of work done by two geologists, Richard Jahns and Wayne Burnham, who had seen a lot of pegmatites while scouting them for strategic metal resources during World War II. Later they conducted experiments with artificial granite magmas and discovered that the key factor seemed to be the presence of *lots of gases* (or, to give them a more technical name, volatiles) such as water, fluorine, or chlorine dissolved in the magma

These volatiles have several effects on the magma which make it possible to form pegmatites. First the volatiles make it more difficult for crystals to form in the first place. That means that there are fewer crystals growing in the magma at any one time, so they can grow bigger without interfering with each other. Second, granite magma is usually a thick sticky liquid, but the more volatiles it contains, the less thick and viscous it is and the easier it is for chemicals to move from place to place. That supplies the growing crystals with the chemicals needed to grow larger. Third, there are enough volatiles the magma will eventually get so saturated in them, the volatiles will separate as watery bubbles surrounded by normal liquid magma. Crystals may grow simultaneously from both the liquid and the gas bubbles, with the larger ones forming from the bubbles. Thus it is really the presence of gases that make the growth of the large crystals possible.

What happens to these volatiles? If they stay in the pegmatite, eventually they form fluorine, chlorine or water-bearing minerals as the magma finally cools off. In other cases, they might escape from the magma. Pegmatites are often filled with broken and re-healed crystals that may have been broken by progressive sudden releases of some of the volatiles. Some pegmatites grade into much finer-grained granites called "aplites" which could be formed if a magma suddenly loses all of its volatiles and forms only small crystals afterwards.

So the next time you see a pegmatite, just remember that you have the gas to thank for all those beautiful giant crystals.

- Dr. Bill Cordua, University of Wisconsin-River Falls

Thanks to The Littleton Gem and Mineral Club Newsletter, January 2020, for this interesting article.

Ed. Note: If large crystals can be grown ***in a lab*** in a few weeks, then large pegmatite crystals don't take long to form. If they did, they would change shape and chemical composition, and couldn't be doubly-terminated!

Think about it! And the implications that much of what we see at gem and mineral shows might be manmade!



Former DGMG President and life member **John Rakowski** posing with one of the pair of huge smoky quartz crystals at the Pikes Peak Historical Museum in Florissant, where he serves as an active volunteer. Thanks, **John**, for this great photo!



Web Corner – Web and Computer Resources for Rockhounds

Mineral Discussions on Facebook Groups – by Bob Johnson

There are some amazing Facebook groups dedicated to Minerals and Earth Sciences. If you are not familiar with Facebook groups, know that on a typical Facebook Fan PAGE, only the owner/administrator of the page can post. But on a Facebook GROUP, any member of that group may make a post there. Some groups require you to join the group before you can even see the posts, but all Groups require you to join before posting yourself. Also, before posting, you must read the rules on what type of posts are allowed in that group (they are all different). Here are a few mineral related groups you may want to check out.

Denver Gem and Mineral Guild - now has 139 members (not all of which are dues paid members of the Guild). This is the place for members to share comments, pictures, etc. of interest to other DGMG members. <https://www.facebook.com/groups/712900222148230/>



Friends of Denver Gem and Mineral Show – includes some gorgeous mineral photos, and the latest news about our September Show at the Mart. <https://www.facebook.com/groups/1294224757271307/>

The Rockhound Connection – has 46,079 members and 3694 posts/month. A place for Rock hounds to connect and share everything from information and pics to locations to dig and hook up for trips. They have a Saturday Market where you can post items for sale and links to albums on your page for more. The Saturday market is like a rock show where you can buy/sell/trade on-line. <https://www.facebook.com/groups/169785333057/about/>

Rocks & Minerals Are My World – 8,780 members and 700 posts/month. This group is for mineral and rock enthusiasts. Show your photos of the specimens that “Rock your World “. <https://www.facebook.com/groups/123113557812660>

Rock Collectors – 12,256 members and 1,000 posts/month. Share information and pictures about rocks of all types. <https://www.facebook.com/groups/rockcollectors>

Crystal Gemstones – 2,900 members and 1,800 posts/month. For the discovery of crystals, gemstones and their metaphysical and physical properties. <https://www.facebook.com/groups/spiritcrystals>

Rock and Stone’s Chat Room - 1,944 members and 40 posts/month. Chat Room for like-minded people about Rock finds and working with them. This is not an ID or selling group. This is a place where you can ask other questions... What? Where? Why? When? How? Who? How much is this worth; where can I hunt; what can I clean this with; what can I dig with; polish with; who is in my area? This is where you may show your cool rocks, your work, and talk about your finds. <https://www.facebook.com/groups/RandS.IDs.ChatRoom/>

There are many other groups devoted to more specific topics like mineral identification, fossil identification, mineral sales, lapidary arts jewelry making etc. More on those in future columns.

P.S. As of January 14, 2020 Windows 7 was no longer supported. If you are still running it, you will no longer receive security updates. You can still upgrade to Windows 10 for FREE. Click here to see if your old PC can run Windows 10: <https://www.microsoft.com/en-us/windows/windows-10-specifications> Then go here to see how to update for free: <https://www.bleepingcomputer.com/news/microsoft/you-can-still-upgrade-to-windows-10-for-free-heres-how/>

Calendar of Coming Events by Pete Modreski

Tues., Jan. 28, 3:00 p.m., Denver Museum of Nature & Science Earth Sciences Colloquium, **The climate crisis explained**, Joep Van Dijk (CU Boulder). VIP Room, all are welcome.

Thurs., Jan. 30, 4:00 p.m., Van Tuyl Lecture series at CSM, **The Rare Earth Elements: A Tale of Plumes, Magmas and Aqueous Fluids**, by A. E. Williams-Jones, McGill University, Montreal, Quebec. **Berthoud Hall room 241; all are welcome.**

Tues., Feb. 4, 10:30-11:30 a.m., USGS Rocky Mountain Science Seminar, **Exploring the mechanics of our retreating Arctic coastline**, Dr. Matt Thomas, U.S. Geological Survey. Building 25 auditorium, Denver Federal Center, Lakewood CO.

Feb. 13-16, 66th Annual Tucson Gem and Mineral Show, sponsored by the Tucson Gem and Mineral Society (TGMS), Tucson Convention Center, Tucson, AZ. “The main show” in Tucson; other, commercial shows, in the city are open beginning January 26, or earlier.

Sun, Feb. 16, noonish, at the monthly FSS (Florissant Scientific Society) meeting, Jay Temple (geologist) and Jennifer Heiny (Garden of the Gods Visitors Center) will give a presentation **“Behind the Scenes at Garden of the Gods”**, followed perhaps by a short field trip. Meeting place and exact time TBD. All are welcome to attend—the FSS has no formal membership, other than an email list of persons interested in geology. Contact Beth Simmons, cloverknoll@comcast.net, for details or to be put on the FSS mailing list.

Tues., Feb. 18, 10:30-11:30 a.m., USGS Rocky Mountain Science Seminar, **Global metal resources; land of plenty or are we running out?**, Dr. Simon Jowitt, University of Nevada, Las Vegas. Building 25 auditorium, Denver Federal Center, Lakewood CO.

Tues., Feb. 18, 3:00 p.m., DMNS Earth Sciences Colloquium, **Last gasp of the Cretaceous: Insights from North Dakota**, Clint Boyd (North Dakota Geological Survey)

Thurs., Feb. 20, 7:00 p.m., **Petrologic evolution of Platoro magmatic system after the eruption of the Chiquito Peak Tuff, San Juan Volcanic Locust, Colorado**, by Amy Gilmer, US Geological Survey. Monthly meeting of the Colorado Scientific Society, Berthoud Hall Room 241, Colorado School of Mines campus, Golden; all are welcome; social time & refreshments at 6:30, meeting at 7:00.

Fri.-Sat.-Sun., Feb. 28-Mar. 1, Denver Gem & Mineral Guild, Jewelry, Gem, and Mineral Show, Jefferson County Fair Grounds, 15200 W. 6th Ave., Golden, CO. Free parking & free admission; hours 10-6 Fri. & Sat., 10-5 Sun.

Thurs., Mar. 12, 7:30 p.m., bimonthly meeting, Friends of Mineralogy, Colorado Chapter, featuring Scott Werschky, Reno, NV, mining geologist, mineral dealer (Miner’s Lunchbox, specializing in gold specimens and “investment quality mineral specimens”), and board member of the Rice Museum of Rocks and Minerals. Presentation topic TBA. Berthoud Hall Room 108, Colorado School of Mines campus, Golden. See <https://friendsofmineralogycolorado.org/> for more info when available.

Fri., Mar. 13, North Jeffco Gem & Mineral Club Silent Auction, APEX Community Center, 6842 Wadsworth Blvd., Arvada, setup at 5:30 p.m., auction begins at 6:45 p.m. All are welcome. For more info, Bill Jones, 303-503-6288, email sidewindermin@comcast.net.

Con’t. next page

Calendar of Coming Events (con't)

Fri.-Sat.-Sun., Mar. 13-15, Fort Collins Gem & Mineral Show; at Thomas M. McKee Building, at The Ranch/Larimer County Fairgrounds, 5280 Arena Circle, Loveland, CO (I-25 exit 259); hours 4-8 Fri., 9-6 Sat., 10-5 Sun.; adult admission \$4. Sponsored by the Fort Collins Rockhounds Club.

Thurs., Mar. 19, 7:00 p.m., Colo. Sci. Soc. Monthly meeting, 2019 Colorado Avalanches: A case history of destruction in Hinsdale County, impacts to historic mining dams, and how snow avalanches may influence development of rock glaciers, by Jonathon Lovekin, Colorado Geological Survey. Berthoud Hall Room 241.

Fri.-Sat.-Sun., Apr. 10-12, Colorado Mineral and Fossil Spring Show, Crown Plaza Hotel - Convention Center, 15500 E 40th Ave., Denver, Colorado, 10-6 Fri. & Sat., 10-5 Sun., free parking & admission.

Thurs., Apr. 16, 5:30 p.m., Rise of the Mammals: Exceptional Continental Record of Biotic Recovery after the Cretaceous–Paleogene Mass Extinction (about the Corral Bluffs fossil mammal find), by Ian Miller and Tyler Lyson, Denver Museum of Nature and Science; at the **CSS Annual Past Presidents' Dinner**, to be held at the **Mount Vernon Canyon Club**

Sat., May 16, noon-4 p.m., Silent Auction, sponsored by Colorado Chapter, Friends of Mineralogy. All are welcome; setup at 11, auction begins at noon, live auction at 1 p.m. At a new location: Wheat Ridge United Methodist Church, 7530 W. 38th Ave., Wheat Ridge (38th Ave. at Wadsworth Blvd.).

Sat., May 16, 2020 Symposium on Water and Energy, to be held in Ricketson Auditorium, Denver Museum of Nature and Science. Cosponsored by the Colorado Scientific Society, Denver Museum of Nature & Science, Center for the American West, and others. Details forthcoming!

Sun, May 17, noonish, for the monthly FSS (Florissant Scientific Society) meeting, Christine Siddoway (Colorado College) will give a talk on the **Tava Sandstone** (the geologically famous “sandstone injectite dikes of the Pikes Peak region”) followed by a short field trip. Osborne Center, University of Colorado at Colorado Springs. All are welcome to attend; contact Beth Simmons, cloverknoll@comcast.net, for details or to be put on the FSS mailing list.

Fri.-Sat.-Sun., June 12-14, Pikes Peak Gem & Mineral Show, Norris-Penrose Event Center, 1045 Lower Gold Camp Road, Colorado Springs, CO 80905. Sponsored by the Colorado Springs Mineralogical Society. Hours: noon-7 pm Fri., 10-5 Sat., 10-4 Sun. Adult admission \$5.

Thurs.-Sun., July 23-26, Fairplay Contin-Tail Gem, Mineral, and Jewelry Show, Fairplay River Park.

Thurs.-Sun., Aug. 6-9, Buena Vista Contin-Tail outdoor gem and mineral show, Buena Vista Rodeo Grounds. Colorado's longtime famous and best attended tent & tailgate rock swap and show.

Fri.-Sun., Aug. 14-16, Lake George Gem and Mineral Show, sponsored by the Lake George Gem and Mineral Club. Also taking place nearby “down the road” is the **Woodland Park Rock, Gem and Jewelry Show,** Aug. 13-16.

Please note: Pete has been maintaining and distributing this calendar of geologic events for many years. He is now planning to retire from the USGS. BUT he's planning to keep the calendar going.

SAYS PETE:

“just as a personal thing to do, as a public service. I'll write to everyone on my mailing list, to ask/confirm that they all still want to receive these emails, coming from me personally and not from the USGS. If I do this rigorously, as I probably should, and **ONLY** keep those people on my mailing list who respond to my request to write back and confirm that they want to keep receiving emails, I'm sure that my list will shrink to probably 1/10 of what it is now. If I do it the other way, and only remove those people who write back and say “remove me from the list”, then it would be the opposite, probably only 1/10 or less would be removed!” So let Pete know if you want to be on his list!

JEWELRY, GEM & MINERAL SHOW

Gems

Books

Displays

Minerals

Sculptures

DEMOS:

Flint Knapping

Wire Wrapping

Fluorescence

Polishing

Faceting



Fossils

Geodes

Jewelry

Crystals

Activities for kids

DEALERS:

Over 20 Sellers

***Free
Admission!***

February 28 – March 1, 2020

Hours: 10-6 Friday & Saturday 10-5 Sunday

JEFFERSON COUNTY FAIRGROUNDS

15200 W. 6th Ave. – (W. 6th Ave. & Indiana, Golden)

No food available onsite; restaurants nearby

Grab Bag Sales proceeds applied to scholarship at Colorado School of Mines

Sponsored by the DENVER GEM AND MINERAL GUILD

www.denvergem.org

Photos: Robert Johnson

IT'S RE-UP TIME!

You have until the end of March to Re-up your DGMG membership! But do it now! Makes it easier on the membership committee! Don't forget the waiver forms for EACH PERSON!

DENVER GEM AND MINERAL GUILD MEMBERSHIP 2020

☐ Renewal ☐ New Membership

Annual Dues:

- ☐ Individual=\$15.00
- ☐ Family=\$25.00 (Family is one or two adults, living at the address, and your children, under 18)

Primary member _____ Birthday _____
 Name Month Year
 Phone number _____ Email address _____

Spouse/Partner _____ Birthday _____
 Name Month Year
 Phone number _____ Email address _____

Anniversary Month _____

Junior Member _____ Birthday _____
Name Month Year

Junior Member _____ Birthday _____
Name Month Year

Junior Member _____ Birthday _____
Name Month Year

Address _____

City _____ State _____ Zip Code _____

☐ Check this box if you DO NOT want your name, phone number and email address included in the Members Only section of the DGMG website.

interests and Skills (check all that apply)

- Fossils
- Lapidary
- Faceting
- Jewelry
- Have a collection
- Display at shows
- Attend mineral shows
- Willing to volunteer at shows
- Field trips

- Mineral collector: (list favorites)

- Willing to share special skills with others:

Signed: _____ Date: _____

Return membership form, liability form for each person, and payment to Membership Chairman at a monthly meeting or mail to: DGMG

Membership Chairman
1420 S. Reed Street
Lakewood, CO 80232

DENVER GEM AND MINERAL GUILD

RELEASE OF LIABILITY

By signing below, I acknowledge that all activities sponsored or conducted by the Denver Gem and Mineral Guild (DGMG), a Colorado non-profit organization, may be hazardous and may result in loss, damage, or death.

With full knowledge of these dangers, and in consideration for my acceptance as a member of the DGMG and participant in any and all field trips and activities sponsored by the DGMG, and the services and amenities to be provided by the DGMG in connection therewith, I confirm that I have read the foregoing and voluntarily assume all risks of such damages and hazards occurring in connection with the activity. I hereby agree for myself, all my family, and heirs to RELEASE the DGMG and any of its trip leaders, club officers, club members, hosting property owners and claim owners, instructors, guides, or representatives from liability, claims, demands, or any causes of action.

I UNDERSTAND THAT THIS IS A LEGAL DOCUMENT AND BY SIGNING IT, I AM GIVING UP MY RIGHT TO SUE OR OTHERWISE MAKE ANY CLAIM against DGMG or any of its trip leaders, club officers, club members, hosting land owners and claim owners, instructors, guides, or representatives which may arise during my participation in any and all activities of the DGMG or activities I conduct as an individual on DGMG owned or leased properties.

I intend this RELEASE OF LIABILITY to be effective whether or not any loss, damage, injury, or death RESULTS FROM NEGLIGENCE of the DGMG or any of its trip leaders, club officers, club members, hosting land owners, and claim owners, instructors, guides or representatives. I understand that negligence means failure to do an act which a reasonably careful person would do, or the doing of an act which a reasonably careful person would not do, under the same or similar circumstances to protect himself, herself, or others from injury or death.

I agree to be solely responsible for my own safety and to take every precaution to provide for my own safety and wellbeing while participating in the activities of the DGMG. Also, I understand that on DGMG trips, there may not be rescue or medical facilities or expertise, which may be necessary to deal with potential injuries to which I may be exposed. I understand that these risks exist and notwithstanding them, I wish to participate in DGMG activities.

I HAVE READ THIS RELEASE AGREEMENT AND HAVE FULLY INFORMED MYSELF OF ITS CONTENTS BEFORE I HAVE SIGNED IT. ALSO, I PLEDGE TO UPHOLD THE CODE OF ETHICS ATTACHED TO THIS RELEASE.

Printed Name (Please print legibly): _____

Signature: _____ Date: _____

IF UNDER 18 YEARS OF AGE, PARENT OR GUARDIAN MUST READ AND SIGN BELOW

I am the legal guardian of the above minor and have read the above RELEASE. I hereby consent to the terms of the RELEASE on behalf of the named minor and give my consent to the participation of the above-named minor in all activities of the DGMG on the terms stated.

Signature: _____ Date: _____