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Denver Gem & Mineral Guild Founded March 1964

1420 S. Reed Street Lakewood, Colorado, 80232

AFMS Silver Medal Club 2016

January 2020

TIPS & CHIPS

HTTP://WWW.DENVERGEM.ORG OR HTTP://DENVERGEM.ORG AND NOW FACEBOOK!!!



January 10, 2020 7:30 PM, CSM Berthoud Hall Room 109

"The Top Ten Mineral Localities of the World" Speaker: Phil Persson

The following is a brief, somewhat arbitrary list of the world's "Top Ten" such mineral locales, and each mineralogical 'treasure chest' will be covered briefly in this photo-oriented talk. The localities are, in no particular order: Franklin and Sterling Hill New Jersey (USA), Mont Saint Hilaire Quebec (Canada), Broken Hill New South Wales (Australia), Tsumeb (Namibia), Khibiny and Lovozero (Russia), the Illinois-Kentucky Fluorspar District (USA), Bisbee (Arizona), the Ojuela Mine (Mexico), the San Diego County Pegmatite District California (USA), and the Jachymov District (Czech Republic). Each of these localities has, whether by historical prominence, mineralogical and geological diversity, or volume of attractive crystallized specimens, contributed greatly to the advancement of mineral collecting over the past ~500 years. (Con't on page 4) Phil Persson is a geologist, mineral collector, and dealer living in Denver Colorado who has been obsessed with minerals since seeing the fluorescent mineral exhibit at the Franklin, New Jersey Mineral Museum as a young boy. He has a BA from the University of Colorado and MSc. from the Colorado School of Mines in eco-

nomic geology and has been a collaborator on numerous research projects on the

mineralogy and genesis of pegmatites and associated rocks in



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

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 Ass't:, available

Treasurer: Deb Baldwin: Treasurer Assists: Beth Simmons,

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

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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:

"EARTH is a ROCK!"

Watch the DGMG Webpage for more!

January Birthdays:

Sue Childs

Audrey Christensen

Mike Fleetwood

Ellen Hardy

Jimmie Klein (Our oldest!)

Bryan Lopez

Grace Luchtenburg

Patrick Lyons Sue Panciocco Iva Vesilinova Suli Zeyrek

January Anniversaries:

The Bennett's The Harrison's



January Sunshine Spotlight EVERYONE IS HEALTHY! STAY THAT WAY!







DGMG T-Shirts and Vests for Sale!

If you are interested in purchasing youth t-shirts, send size and quantity. (cost will be determined when order is placed-roughly \$20/shirt). In addition, Guild t-shirts and vests will be available at the July picnic. (\$10/for shirt, \$25 for vest)

CONTACT SANDRA LUCERO TO INFORM HER OF SUNSHINE REQUESTS

gardengal001@yahoo.com

THE DENVER GEM AND MINERAL GUILD—56 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
January: Joe Walkowich
Beverages: George Daggett

February: Marj Becker
Beverages: George Daggett

March: Marj Becker
Beverages: George Daggett

April: VACANT
Beverages: George Daggett

May: Debbie Baldwin
Bevergages: George Daggett

2020 Calendars FOR SALE!

Only about 30 copies left!

\$10— stunningly beautiful!

2020 DGMG Show Report

by Beth Simmons, Show Chairman

What do you plan to exhibit at our show? We have ONLY ONE CASE remaining to fill! Let Beth know if you want it!

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).

FRIDAY JANUARY 10 2020
6:30
GOLDEN DIGGERS PROGRAM
STONE AGE TOOLS
7:30
DGMG MEETING
SPEAKER: PHIL PERSSON
"THE TOP 10 MINERAL LOCALITIES IN THE WORLD"

FRIDAY FEBRUARY 14 2020 PROGRAM TBA

SHOW—FEBRUARY 27-MARCH 1, 2020 JEFFERSON COUNTY FAIRGROUNDS BE THERE OR BE CUBIC!



PRESIDENTIAL MESSAGE

Happy New Year to our Denver Gem & Mineral Guild members and our families. There is little doubt that the year 2020 will be a rockin'- good year. Let's kick it off with our annual Jewelry, Gem & Mineral Show at the Jefferson County Fairgrounds beginning Friday, February 28. Our show features many display cases, like the September Denver show, and a loyal and dedicated group of dealers. Naturally, we will need a village of participants to help with setting up, working the club booth to sell grab bags and to have engaging conversations with our patrons. There is no shortage of opportunities to get involved in producing a successful show. Everyone is invited and you don't need a reservation; just show up and become part of the show. (see page 5) We even provide food for volunteers and for dealers (the dealers really appreciate our hospitality in providing food and beverages in the kitchen). Beth Simmons and Linda Burns are the parties in charge, so if you have any input ahead of time, please let them or me or any board member know of your thinking. In the meantime, we hope to see you at our January meeting on the 10th at 7:30.

Rock on! **George**

DGMG CARVING CASE AT DGMG SHOW and FOURTH 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.

"The Top Ten Mineral Localities of the World"

Philip M. Persson 11655 West 28th Place, Lakewood Colorado 80215

Something most collectors have pondered at some point in their collecting career is "What exactly are the "top mineral localities" in the world? And what constitutes a "world-class locality"?

In the end, the answer is highly subjective, depending on the person's interests and experience in mineralogy and what drives them as collectors. There are 'mineralogical rainforests' such as Canada's Mont Saint Hilaire or Russia's Kola Peninsula which, while not especially well-known for aesthetic crystallized specimens, host an incredible diversity of mineral species- a seemingly infinite combination of a finite set of elements which attests to the unique geologic conditions under which they formed.

Then there are also locales that have produced iconic and beautiful examples of one or perhaps a few minerals, but are otherwise fairly 'simple.' Colorado's Sweet Home Mine or the Elmwood Mine in Tennessee fall into this category.

The best localities are those that successfully bridge the gap between these extremes; those that have produced beautiful, highly collectible crystals but also have a deep appeal to the academic mineralogist or serious systematic collector. The following is a brief, somewhat arbitrary list of the world's "Top Ten" such mineral locales, and each mineralogical 'treasure chest' will be covered briefly in this photo-oriented talk.

The localities are, in no particular order: Franklin and Sterling Hill New Jersey (USA), Mont Saint Hilaire Quebec (Canada), Broken Hill New South Wales (Australia), Tsumeb (Namibia), Khibiny and Lovozero (Russia), the Illinois-Kentucky Fluorspar District (USA), Bisbee (Arizona), the Ojuela Mine (Mexico), the San Diego County Pegmatite District California (USA), and the Jachymov District (Czech Republic). Each of these localities has, whether by historical prominence, mineralogical and geological diversity, or volume of attractive crystallized specimens, contributed greatly to the advancement of mineral collecting over the past ~500 years.

SPEAKER BIO

Phil Persson is a geologist, mineral collector, and dealer living in Denver, Colorado who has been obsessed with minerals since seeing the fluorescent mineral exhibit at the Franklin, New Jersey Mineral Museum as a young boy. He has a BA from the University of Colorado and MSc. from the Colorado School of Mines in economic geology and has been a collaborator on numerous research projects on the mineralogy and genesis of pegmatites and associated rocks in Colorado. He currently works for Collector's Edge Minerals in Golden, Colorado assisting with sales, marketing, and geology, and despite

daily exposure to world-class fine minerals, still has a soft spot for rare pegmatite minerals and "black uglies."

DGMG SHOW PREPARATION NEWS:

These are the exhibits on the list for 2020 to date:

LOBBY: DGMG Hard Rock Café; DGMG Club Claims

SOUTH WALL and around SOUTH PILLAR:

Phoenix Mine

Dave Sanchez (2)- Jewelry Keith Sheel– Faceted stones Ernie Hanlon—Amazonite

Maxine Sheel

Sandy Walden—agates (of course!)

Larry Jankowski

Ron Snelling– Faceted Stones (of course!)

George Daggett- Minerals

DGMG Carvings

Beth Simmons—Stony Steeds

NORTH WALL and around NORTH PILLAR

Seamans Museum- Donna & Jeff Self

Merlin Schreffler- Artifacts Pete Modreski- Minerals

Dennis Gertenbach- Colorado Fossils

EAST WALL:

Linda Burns-Fluorite

Bob Pfeiffer (2) - Collectors' specials

Marj Becker – Bring me a rock! Tyler Strand – Smoky Quartz, etc.

STAGE: (There is one case available there)

Golden Diggers BACK HALL:

Jim Dennis (2-3)- Fluorescent Exhibit

These are the dealers on the list to date:

We need small to medium

sized mineral specimens

Digging Experience at

They don't have to be

have extras from your

this past year, please

show for Susanne

museum quality. If you

prospecting adventures

bring them to the January

Peach. She needs to bag

them AHEAD of the show

ence goes smoothly and

so the Digging Experi-

efficiently. Thanks!

for the kids'

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 Vicky Schlepp

Rocky Mountain Mining Company

Down-to-Earth Rockshop The Amethyst Rose

JBL Minerals
Danz Rocks.

Only two dealers need to pay their 1/2 deposit yet! Rest are PIF!

Rest are Pir

Sign-up sheets will circulate at the meeting. So far they are pretty bare-naked.

THURSDAY Set-up HELP NEEDED!

Electrical: Deb Baldwin

Table Skirting: Merlin Schreffler, Sue

Childs, Wendy Carley

Case setup: George Daggett, Joe

Walkowich

Sandwich bar: **NEED HELP!**Fluorescent Exhibit: Jim Dennis
Club tables: George Daggett

FRIDAY:

Wendy Carley will assist Linda Front Desk: 10-1: Merlin Schreffler

1-5—Sue Childs 4-6– **HELP!** Club table-

Grab bags: 10-12- Wendy Carley Grab bags 12-4- Deb Baldwin

4-6- **HELP!**

Fluorescents: Jim Dennis **HELP!** Hospitality Room: Sandra Lucero

HELP! On Stage:

Crystal Dig: Susanne Peach **HELP!**

FRIDAY NITE DINNER: (\$10)

Marj Becker and Helper

Linda Burns Beth Simmons Sue Childs

NEED 40 others!

SATURDAY:

Hospitality Room: Sandra Lucero

(HELP!)

Fluorescents: Jim Dennis **HELP!** Front Desk: 10-1– Sarah Reece

1-4- Merlin Schreffler

4-6- **HELP!** Club table-

Grab bags: 10-12-Wendy Carley 12-5:30– Sarah Reece, Sandy Walden, Chauncey Walden

On Stage:

Crystal Dig: Susanne Peach **HELP!**

SUNDAY:

Hospitality Room: Sandra Lucero **HELP!**

Fluorescents: Jim Dennis **HELP!** Front Desk: 10-1– Sarah Reece

1-4- Marj Becker 4-6- HELP! On Stage:

Crystal Dig: Susanne Peach HELP!

Club table-Grab bags:

10-12- Wendy Carley 12-4:30- Sarah Reece

Fluorescents: Jim Dennis HELP!

SHOW SHUTDOWN:

Case breakdown/loading:

T.J.

Tyler Strand
Joe Walkowich

HELP EVERYWHERE!

We know that everyone pitches in during the show, but we'd like to be assured that members know what job they volunteered to do, when!

Email Beth Simmons (cloverknoll@comcast.net) to volunteer for any position, any time.

She'll add your name to the lists!

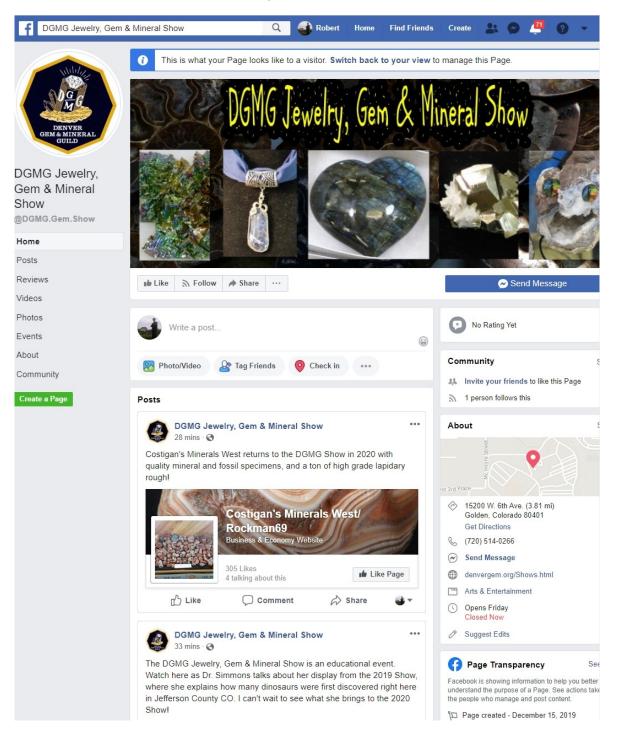


Web Corner - Web and Computer Resources for Rockhounds

Easy Ways You Can Promote Our DGMG Show Online - by Bob Johnson

Our *DGMG Jewelry, Gem & Mineral Show* is just weeks away, and you can help spread the word by visiting our *new* Show Facebook Page. Please take some time to view the many posts (you are probably in one!) Please Like, Follow, Share, and Comment. When we get to 2000 likes, Facebook will unlock additional features for us. Additional posts will be added in the coming weeks. If you click on "Follow" you will be notified on new posts. https://www.facebook.com/DGMG.Gem.Show

See you at the Show!!!





SPOTLIGHT ON JANUARY'S SPONSOR:

D&J Rare Gems, Ltd., P.O. Box 824, Salida, CO, 81201 DGMG members: Donna and John Rhoads 719-530-0628

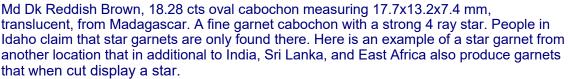
raregems@amigo.net; Gemaholics.com





Donna is the gemstone photographer. I think you'll agree these are some pretty nice pictures of cut stones! And their webpage is a lesson in gemstones! Read it and learn! Because it's January, here are some of their garnets.





17350 Andradite Garnet

Md Dk Brownish Orange, 1.36 cts round brilliant cut measuring 6.6x4.4 mm, v lt incl, from China. One of the few new location gems we saw in Tucson this year (2019) and then with only a couple of dealers. These gems are

faceted from rough recovered from the beds of the Yellow River.





Dk Orange, 35.02 cts cushion cut measuring 20.2x15.8x12.0 mm, v lt incl, from Sri Lanka. A very large hessonite of darker color and containing the inclusions that are typical of hessonites.



Dk Pinkish Red, 11.35 cts shield cut measuring

15.3x13.2x8.0 mm, eye clean, from Sri Lanka. A larger rhodolite of very fine color and clarity.

Prices for larger rhodolite garnets have increased substantially during the past year.



18629 Spessartite Garnet

Md Dk Orangish Red, 10.31 cts oval cut measuring 13.0x10.9x7.9 mm, eye clean, from Mozambique. An exceptional, flame red spessartite in a very large size and top clarity as well.





How to identify and make Stone Tools January 10, 2020 - Golden Diggers Meeting: 6:30 PM

At our upcoming, January 2020 Golden Diggers meeting we will continue to learn about Stone Age Tools & Art. (Section 14 AFMS Future Rockhounds of America Handbook) We learn how to make stone tools. (14.2)

Specimens of modern arrow heads and flake chips will be given away for your collection.

14. Stone Age Tools & Art

Section 14.2 Making Stone tools By AFMS Rockhounds of America Handbook Rocks have different properties and textures. For instance, obsidian is smooth and makes flakes with razor-sharp edges, kaolin (clay) is soft and moist and easily shaped when first dug from the ground, and granite is coarse and heavy. Early humans and stone-age cultures have taken advantage of the properties of different rocks to make tools and art from them.

Types of Stone tools

- a) Tomahawks & Grinding Stones. For tomahawks and grinding stones, seek heavy rocks that have been rounded and smoothed in a river bed, along an ocean beach, or in a deposit of glacial till. Tomahawks can be made by cutting a foot-long section of a tree branch, notching one end, inserting an oval or oblong stone, and securing it in place by wrapping and tying a length of thick leather string. For a grinding stone, seek a well rounded, coarse-grained rock (granite, basalt, etc.) that will fit comfortably in the palm of your hand. Match this with a large, flat slab of rough rock (perhaps a foot in diameter), and work grinding hard kernels of corn.
- b) **Arrowheads & Spear Points.** Stone-age peoples craft arrowheads and spear points from rocks such as flint, agate, jasper, and obsidian. There are various techniques for crafting a point, from hard- and soft-hammer percussion to pressure flaking. Percussion involves striking flint or obsidian with antler, bone, or another rock. Pressure flaking involves poking at the flint or obsidian with the pointed end of an antler segment or other tools to chip off small flakes along the edges of an arrowhead or spear point.



Wiggins family arrowhead collection made during the 1920s

WARNING!! We will not do a knapping exercise! Knapping produces razor sharp edges (sharper than scalpels) and can send sharp shards flying through the air. Eye protection is a must, as are thick leather gloves. Even then, one guarantee is that knapping will lead to cuts—and sometimes very nasty ones!

(con't next page)

Resolve or Plan—December 31, 2019

By Marj Becker

Here we are

At the end of a year.

And the end

Of another decade.

Some folks make

New Year resolutions

Only to break them

In the first day

Or week

Or month.

Making New Year resolutions

Is not for me.

I make plans

Instead.

To break a resolution

Seems like failure to me.

I don't take kindly

To failing.

Not accomplishing a goal Simply means a chance To regroup, to re-imagine And try again. Even though one day
Leads into the next,
The end of a year

The end of a decade

Feels as though

A newer kind of day

Will be there for us

Tomorrow.

Make your plans

And know that

If you don't reach

Most of your goals

According to your

Timeline,

You can always

Regroup and re-imagine

And go forward.







DGMG PARTIED! It became a BENCHMARK AFFAIR!

But no photos from the popcorn party! Linda Burns took photos at the holiday party



DGMG VP Sarah Reece

Dave Sanchez and Cindy Breithaupt





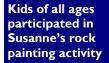




DGMG Grab Bag Chairman Joe Walkowich (the hat lit up!)



Elf Pete awarding the prizes for the mineral quiz! Wrapped in topographic maps were unused BENCH MARKS! (It was SO USGS!) THANK YOU PETE!



Elf Pete Modreski grading mineral quizzes





Winning GOLD Benchmark went to Susanne Peach!



The Gore Mountain Garnet (January birthstone) Mine, NY

By Beth Simmons and Pete Modreski

The one garnet specimen Pete exhibited in the mineral quiz at the holiday party attracted much interest. It didn't have a garnet shape; but had flat parallel sides that looked like cleavage planes. But they weren't.

The garnet came from Gore Mountain, NY, a world famous geology site that yields the hardest garnet in the world, making this garnet extremely rare. The garnet-bearing rock is a metamorphosed gabbro;

gabbro being an intrusive igneous rock of the same composition as basalt. But now being metamorphosed, it is composed mostly of hornblende, a black iron-rich amphibole mineral. The rock can be described as a garnet amphibolite, with garnet megacrysts. The **garnet** is almandine (iron-rich **garnet**) with a hardness up to 7.5. Other minerals present in the rock besides hornblende and garnet include plagioclase feldspar and hypersthene (a pyroxene mineral). The age of the gabbro is said to be about 1150 million (1.15 billion) years old, and the garnet crystals themselves developed slightly later, and are about 1050 million years old, about the same age range as that of the Pikes Peak batholith in Colorado.

The garnet crystals, with some gemmy portions, are as much as 35 cm (14 inches) in size; the largest **garnet** found to date was over a meter in diameter! The Barton **garnet** has an unusual and beautiful ruby red color that flashes in the sun. In 1969, the Governor of New York, Nelson Rockefeller, made the Barton garnet the New York State Gem Stone. Though large and pretty much inclusion-free, they are not of much gem value, because they are highly fractured, and crack apart into thin (few mm) slices readily along almost perpendicular fracture planes. That gives the appearance of being a mineral with perfect cleavage, but, garnet has no true cleavage.

However, the pervasive fracture planes make this garnet a particularly good abrasive, as it fractures into smaller pieces with sharp edges and corners, which is what one would like in an abrasive (such as, for example, in use for garnet paper). Even though the garnet is slightly harder than the silica in glass, the fracturing allows garnet powder to be used to clean glass— even at Corning Glass Works and for telescope lenses!

Henry Hudson Barton began mining garnet on Gore Mountain for abrasives in 1878 (that's almost 150 years ago!), about the time Coloradoans were still in the gold phase! The Barton Mine still supplies most of the world's supply of garnet for abrasives, now working a deposit near the original quarry (see postcard).

Tours of the Garnet mine started in 1933, making that phase of the operation historical, also. The trained staff take groups of any size into the garnet mine site and lecture on the geology, mining history and present day operations. Time is given following the brief lecture for individuals to collect garnet rocks for rock gardens or "garnet gems that can be faceted" or tumbled for jewelry.

Here in Colorado, you can visit a very nice boulder of this garnet amphibolite from Gore Mountain along the sidewalk outside the national headquarters of the Geological Society of America, in Boulder; the address is 3300 Penrose Place (just south of the Diagonal Highway 119, between 28th St. and Foothills Parkway). Here is a picture of it!

Interested in visiting the mine? The address is 1126 Barton Mines Road P.O. Box 30, North River, NY 12856. Check out their online webpages: https://garnetminetours.com https://www.barton.com/history-barton-mines-corporation



Pictures from Garnet Mine Tours site, MinDat, Susanne Peach, John Betts, Pete Modreski











Barton Mine on Gore Mountain. Adirondacks, NY postcard, Mine-Main 1970, " source of world's supply of abrasive **Barton Mines** Corporation. North Creek, New York"







Henry Hudson Barton

Calendar of Coming Events by Pete Modreski

Mon., Jan. 6, 7:00 p.m., monthly meeting of the Western Interior Paleontological Society (WIPS), "The Cartographic Roots of Colorado", by Wes Brown.. At *(new meeting place for WIPS!)* in Petroleum Hall, at the Green Center, 924 16th St., Colorado School of Mines campus, Golden. All are welcome; come at 6:15 for social time & refreshments. See https://www.westernpaleo.org/ for more info and an abstract of the presentation.

Thurs., Jan. 9, 7:30 p.m., bimonthly meeting of the Friends of Mineralogy, Colorado Chapter: "**The Pala Gem Pegmatite District, San Diego County, California**", by Ryan Bowling. All are welcome; Berthoud Hall, Room 241, Colorado School of Mines campus, Golden.

Mon., Jan. 13, 7:00 p.m. (social time at 6:00), DREGS (Denver Region Exploration Geologists Society) monthly meeting, "DREGS GOES TO IRELAND - The Irish Zn Pb Orefield", by Drs. Paul Bartos and John Dreier. Berthoud Hall room 241, CSM campus, Golden; all are welcome. See see http://www.dregs.org/index.html.

Thurs., Jan. 16, 4:00 p.m., Van Tuyl Lecture series at CSM, Diverse Environments of Advanced Argillic Alteration (Mineral Stabilities; Hypogene, Steam-heated, and Supergene Formation; Exploration Implications), by Antonio Arribas, University of Texas at El Paso. Berthoud Hall room 241; all are welcome.

Thurs., Jan. 16, 7:00 p.m., Deciphering the timing and causes of Great Unconformity erosion: An example from Pikes Peak, Colorado, by Rebecca Flowers, Univ. of Colorado. At the monthly meeting of the Colorado Scientific Society, Berthoud Hall (new meeting place for CSS!) Room 241, Colorado School of Mines campus, Golden; all are welcome; come for social time & refreshments at 6:30, meeting at 7:00. See abstract & more info at https://coloscisoc.org/.

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.

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, 27, 28, 29, or earlier.

<u>Thurs., Feb. 20</u>, 7:00 p.m., Petrologic evolution of Platoro magmatic system after the eruption of the Chiquito Peak Tuff, San Juan Volcanic Locus, 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.

* * * * * * * * * * * * *

For more lecture series during the year see:

Colorado Café Scientifique in Denver, monthly lectures on science topics held either at Blake Street Station or Brooklyn's, Denver; open to the public, no charge other than refreshments you may choose to purchase; see http://cafescicolorado.org/.

Calendar of Coming Events (con't)

Colorado Scientific Society (3rd Thursday, 7 p.m.), see http://coloscisoc.org/. Meets at Berthoud Hall Room 241, CSM campus, Golden, except when noted otherwise.

CU Geological Science Colloquium (Wednesdays, 4 p.m.)

see http://www.colorado.edu/geologicalsciences/colloquium

CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.),

see https://warnercnr.colostate.edu/geosciences/geosciences-seminar-series/

Van Tuyl Lecture Series, Colorado School of Mines, (Thursdays, 4 p.m.): https://geology.mines.edu/events-calendar/lectures/

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

Denver Museum of Nature and Science, Earth Science Colloquium series, 3:00-4:00 p.m., VIP Room unless noted, meeting dates and day of the week vary. Museum admission is not required; see http://www.dmns.org/science/research/earth-sciences/

<u>Denver Region Exploration Geologists Society</u> (DREGS); usually 1st Monday, 7 p.m., Room 241 Berthoud Hall, CSM campus, Golden; http://www.dregs.org/index.html

Florissant Scientific Society (FSS); meets monthly in various Front Range locations for a lecture or field trip; meeting locations vary, normally on Sundays at noon; all interested persons are welcome to attend the meetings and trips; see http://www.fss-co.org/ for details and schedules.

Friends of Mineralogy, Colorado Chapter, usually meets on the 2nd Thursday of odd-numbered months, 7:30 p.m., Berthoud Hall Room 241, CSM campus, Golden; see https://friendsofmineralogycolorado.org/.

Golden Beer Talks (2nd Tuesday, 6-8 p.m.), at the Buffalo Rose, 1119 Washington Ave., Golden. Doors open at 6; Talk begins at 6:35; Intermission – 7-7:15; Q&A/clean up 7:15-8. "Golden's grassroots version of TED talks, Expand your mind with a beer in your hand", http://goldenbeertalks.org/

Nerd Night Denver is a theater-style evening featuring usually 3 short (20-minute) TED-style talks on science or related topics; held more-or-less monthly at the Oriental Theater, 4335 W. 44th Ave., Denver; drinks are available; for ages 18+. Admission is \$6 online in advance, \$10 at the door. See https://www.nerdnitedenver.com/.

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

Western Interior Paleontological Society (WIPS); beginning January 2020, WIPS will meet on the $1^{\rm st}$ Monday of the month, 7 p.m., in Petroleum Hall, Green Center, 924 $16^{\rm th}$ St., Colorado School of Mines campus, Golden See http://westernpaleo.org/.

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

DISPLAYING AT THE DGMG SHOW - FEBRUARY

JEFFERSON COUNTY FAIRGROUNDS

THEME: "The Best of the DGMG"

Beth Simmons, exhibit chair, cloverknoll@comcast.net or 303-986-9693

Once again, we are returning to the Fairgrounds after our very successful shows there! And hope it doesn't snow all weekend The exhibit building is huge, well lit, and gives us great opportunity to impress and sell our hobby. Let's make this the greatest show ever for exhibits, demonstrations, and information!

CALLING ALL GUILD MEMBERS!

Put in a case full of your most beautiful items! Or demonstrate your talents! Golden Diggers will have their own exhibit space and demo space on the stage. Also we will have one table of the the "Minerals that Do Things" exhibit, manned by college geology students.

DISPLAYS

Cut this liner plan off before turning in your form!

(Unless your liners are already done, wrapped in

plastic, and good to go!)

We need to have at least 25 cases to fill the hall. The theme, "The Best of the DGMG," allows a lot of leeway in choice of items but we'll accept displays from anywhere, collected anytime, and displays that don't adhere to the theme. We expect lots of fossils (which usually aren't pretty), some historical mining paraphernalia (which definitely is not pretty), and lots of beautiful faceted and cut stones that ARE pretty and may have been self-collected on a DGMG field trip in years past. Lots of silver work, jewelry, beading, maybe even meteorites.

Attached is a small, short form. Please fill it out and give it or email it to Beth Simmons prior to February 10. We can then plan where to put your CASE(s). Instructions will be forthcoming to all exhibitors about setup and takedown times.

Our customary fluorescent

Typically, cardboard or plastic sign material 1/8" or 1/4" thick is used. The back liner fits in first, then the two sides (they will hold the back in place), and finally the bottom, which holds the bottom edges of the sides and

back. Allow for the thickness of your liner and fabric.

DISPLAYER:		exhibit will be in the back		
NAME ADDRESS		hall, manned by Jim Dennis and other DGMG members (volunteer!).		
PHONE EMAIL TYPE OF DISPLAY(S)- (Circle all that apply)		— specimens	ny fluorescent you wish to add to e exhibit.	
Lapidary, Jewelry, Fossils, Minerals, Educational, Min (List details below)	ing history, Ores, Other	lights will	GMG fluorescent be sure to bring best colors!	
HOW MANY DISPLAYS?JUNIO	R?	out the	best colors:	
DO YOU NEED A COUNCIL CASE(S)? Yes NO				
DEMONSTRATORS				
NAME ADDRESS				
PHONE EMAIL				
TALENT TO BE DEMONSTRATED: (Circle all	43 3/8"	13"	13"	
that apply)	BACK	LEFT SIDE	RIGHT 5	
Lapidary, Carving, Faceting, Wire wrapping, Beading, Mineral identification,	7	,		
Fossil identification, Fluorescent minerals	43 3/8"	22 1/2"	22 1/2"	
Amount of table space needed – 4 feet 8 feet Other (open floor space)	8,2 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0		available at the ! Many colors!	

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: O Individual=\$15.00 O Family=\$25.00 (Family is one or two adults)	, living at th	ne address, and	d your children,	under 18)	
Primary memberName Phone number Email Spouse/PartnerName Phone number Email	l address Birthday	Month	Year	_	
Anniversary Month					
Junior MemberName	_ Birthday _		Year		
Junior MemberName Junior Member			Year		
Name	. Diffiday_	Month	Year		
Address		-			
City State	Zip Code _		6.		
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) o Fossils o Lapidary o Faceting o Jewelry	O M	ineral collector:	(list favorites)		
 Have a collection Display at shows Attend mineral shows Willing to volunteer at shows Field trips 	• w	filling to share sp	pecial skills with	others:	
Signed:	Da	ate:			
	Consequence of the consequence				

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	N MUST READ AND SIGN BELOW
	the above RELEASE. I hereby consent to the terms of the REto to the participation of the above-named minor in all activities
Signature:	Date: