



**Denver Gem & Mineral Guild
Founded March 1964**

1420 S. Reed Street
Lakewood, Colorado, 80232

AFMS Silver Medal Club 2016



April 2022

TIPS & CHIPS

President - Joe Walkowich
720-272-8806

Vice President - Pete Modreski
(#286)
720-205-2553

Secretary - Pro-tem
Marj Becker

Treasurer - Debbie Baldwin (#243)
303-377-4211

Hospitality - SERVE YOURSELF!

Editor - Beth Simmons (#276)
303-986-9693; 303-902-1708

Grab Bags-Kathy Honda
720-272-8806
Susanne Peach
720-890-2849

Field Trips - Committee

Show Chairman - Beth Simmons
303-902-1708
Dealer Chairman
Linda Burns (#354)
303-263-0391

Membership - Joe Walkowich
joewcai@yahoo.com
720-272-8806

Ways & Means - Dave Sanchez
Gideon Breithaupt (#357),
Sandra Lucero
303-238-8344; 720-989-7202
Dave Sanchez
303-423-5206
Sandra Lucero
303-726-3829

Historian - Kathy Honda (#364)

Web Master - Bob Johnson (#274)
303-985-8167

Claims Manager - Fred Ceconi
(#357)
303-404-5967



**HTTP://WWW.DENVERGEM.ORG OR
HTTP://DENVERGEM.ORG AND FACEBOOK!!!
EMAIL = MINERALGUILD@GMAIL.COM**

April 8, 2022 7:00 PM IN PERSON!

**At the Wheat Ridge U. Methodist Church
38th & Wadsworth (actually Vance)**

BRIAN WALKO—Fluorescent Minerals!

Be prepared to GLOW!!!

Bring your light and specimens, too!

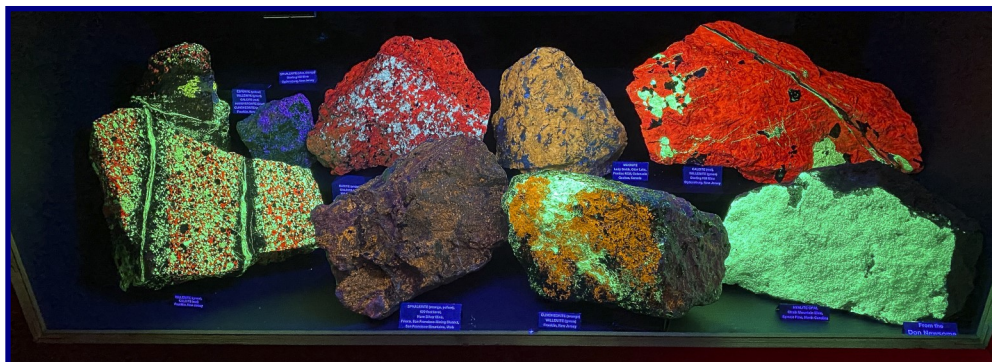
(Photo by Bob Johnson)



Brian Walko is president of the Flatirons Club in Boulder. You may have seen his exhibit at their show in December. Come to hear about the exhibits in Tucson and what causes fluorescence.

Board meeting!
Time: April 8, 2022 06:00 PM

(Photos by Brian Walko)



In This April 2022 ISSUE

Program	.....1	Mary's Rock Garden by Marj Becker	.....10
DGMG News	.....2	Mineral Illustrations' Longevity	.....11
Calendar of events	.....3		
President's Message	.....3	REPEAT:	
Pete's Mineralogy class	.....4	Web Corner DGMG on FACEBOOK!	.....12-16
Martian Flower rocks	.....4	Repeat: WEB PAGE LOGIN	.....12-15
Diamonds—synthetic gems!	.....5-7	Wayback Machine	.....16
Minutes from March	.....8		
DGMS notes	.....9	DGMG Renewal application	.....17
		DGMG Waiver form	.....18

59 years of DGMG Kudos, Celebrations, & Events

2022 DGMG Officers & Chairmen

President:: Joe Walkowich
Vice President: Pete Modreski
Secretary: **OPEN PRO-TEM:** Marj Becker
Treasurer: Deb Baldwin;
Treasurer Ass'ts: Joe Walkowich, Beth Simmons
Hospitality: **EVERYONE!**
Ways & Means:
 Dave Sanchez, Gideon Breithaupt, Sandra Lucero
Membership: Joe Walkowich **Ass't:**
Claims Manager: Fred Ceconi
Editor: Beth Simmons: **Ass't:** Marj Becker
Historian/Librarian: Kathy Honda
Webmaster: Bob Johnson; **Ass't..** Joe Walkowich
Show Chairman: Beth Simmons
Dealer Chairman: Linda Burns
Field Trips: Committee
Grab Bags: Kathy Honda, Susanne Peach
Merchandise: Sandra Lucero
Council Rep: Sandra Lucero; **Alt.** Linda Burns
Denver Show Rep: Kathy Honda
Sunshine: Sandra Lucero
Party planning: Deb Baldwin, Marj Becker
RMFMS Rep: Kathy Honda
Outreach: Susanne Peach; Bob Johnson
Inventory manager: Linda Burns

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:

There were a lot more rocks
 on the surface
 when we were growing up!

Dr. Pete Modreski

February Sunshine Spotlight

CONTACT **SANDRA LUCERO** 303-726-3829
[gardengal001\(@\)yahoo.com](mailto:gardengal001(@)yahoo.com)

TO
 INFORM HER OF SUNSHINE REQUESTS



Fossils from the Western Interior Seaway—
 presented by the Western Interior
 Paleontological Society at our show—photo too
 late for DGMG show special.

WELCOME NEW MEMBERS!!!

Nicole (Nikki) Lucero

David K. Olds & Lori A. Boyd and Juliette Boyd

Josh Shale and Kelly Duffy and Micah Shale
 ("Mica Shale"! - destined to be a geologist!),
 & **Nerlah and Karess Cordova**

Ron Wolf

THE DENVER GEM AND MINERAL GUILD—59 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 7:00 pm at the Wheat Ridge United Methodist Church, 38th & Wadsworth, Wheat Ridge, 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 mineralguild@gmail.com. Exchange with other newsletters is invited, and reprinting of material from this newsletter with proper attribution is encouraged.

2022 DGMG CALENDAR OF EXCITING EVENTS

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

Dear Friends of Eldon Hunewell -

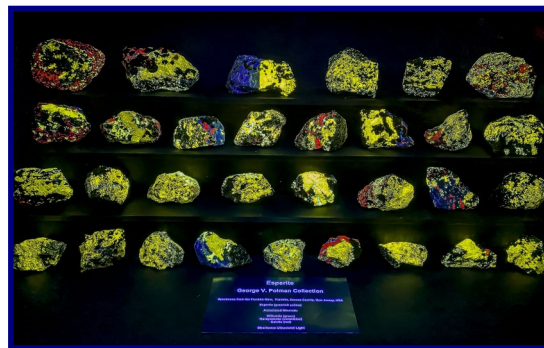
There will be a Remembrance gathering for Eldon on Saturday, April 2, at 1pm at Wheat Ridge United Methodist Church, 7530 W 38th Ave., Wheat Ridge, CO. Eldon would have been 79 years young on this day, so we thought it would appropriate to celebrate his life on his day of birth. This will be a simple gathering of friends to share stories about their time with Eldon, special memories, and hopefully a gentle laugh or two, as Eldon loved a good chuckle. For those of you who wish to write down a story to share with Eldon's family, that would be greatly appreciated, as no family members will be attending this gathering. The family will be burying Eldon's ashes in Oklahoma, next to his deceased family members, the end of April.

Feel free to forward stories to be shared to lori.baer@gmail.com. Someone else will read them if you are not comfortable doing so. Also, there will be light refreshments served. Anyone wanting to help with refreshments, please contact Lori. Thank you. The gathering will be in the church gym; enter from the parking lot, located behind the church on the south side.

We will be asking for a minimal donation to help cover the cost of this gathering, including a donation to the church, refreshments, a hearing impaired interpreter, etc. All monies left over will be given to one of Eldon's favorite charities, probably the Wild Animal Sanctuary, or a cat rescue facility. Any contribution is very much appreciated. Thank you.

April 8th Meeting—FACE-TO-FACE
Brian Walko, FLUORESCENCE
Wheat Ridge U.M. Church 7:00 pm

And then we'll turn out the lights and GLOW
like the Esperite in this exhibit in Tucson!
 (Photo by Brian Walko)



Apologies to Gary Clay who also helped set up the show—here he is with his monster bolo tie and Dave Sanchez and Ty Dawley. Thanks! Gary!



PRESIDENTIAL MESSAGE

Spring is in the air and we are blooming out of our isolation and meeting in person again! Our next face-to-face meeting will be Friday, April 8th, when Brian Walko will be speaking on Fluorescence at the Wheat Ridge United Methodist Church (more details in this newsletter).

I look forward to seeing all your smiling faces.



Joe Walkowich (Ed. Note—the hardest working bee at the DGMG show!)
DGMG 2022 President

Pete's Mineralogy Class

Monday evenings, 7:00 pm, ZOOM & Live

The class are online, via Zoom. Every week for as long as seems necessary or as long as interest lasts. Here is an outline of what I expect we'll cover in the first half dozen classes:

DGMG Mineral Class outline

1. What minerals are—COVERED
2. How we recognize minerals—COVERED
3. Crystal systems— COVERED
4. Chemistry of minerals—Covering
5. Testing minerals by physical properties—COVERED
6. Environments where minerals occur
7. North Table Mountain—minerals to learn before we go there—COVERED.

Following these, we can study some of the major groups of minerals. As you can imagine, this could be pretty open-ended, so we'll see how the class progresses and how much interest there is!

Pete Modreski

See you on April 4 & 11, 2022 at 6:00 pm on ZOOM or at the church (TBD).

Donation to DGMG from the descendants of **Orville** and **Ginger Dunn #57 & #58**

The **Dunns** were early members of the Guild, having joined in 1967. **Orville** served as vice president in 1968, president-elect in 1969, and as president in 1970. **Ginger**, his wife, was treasurer in 1969, 1970, 1971 and Secretary in 1973. **Orville** took faceting lessons from **Gerry Hess** and his faceting machines were purchased by **Ron Snelling (#237)**. His cabbing material, slabs, and sets of drawers with assorted contents came to the Guild. We will have a "sorting and labeling day" sometime this spring.



Left: Martian "mineral flower bouquet" taken by Curiosity

Curiosity rover snaps close-up of tiny 'mineral flower' on Mars by Harry Baker 03/02/22

[Curiosity rover snaps close-up of tiny 'mineral flower' on Mars \(microsoftnewskids.com\)](https://www.microsoftnewskids.com/curiosity-rover-snaps-close-up-of-tiny-mineral-flower-on-mars)

NASA's Curiosity rover recently got up close and personal with a tiny, flower-like mineral deposit on the surface of Mars. The beautiful branching rock, which is just 0.4 inch (1 centimeter) wide, looks a bit like a coral or a sponge. Despite its likeness to a living organism, however, the deposit is not alive and is a fairly common sight across the Martian landscape.

Curiosity snapped a picture of the tiny mineral flower on Feb. 25 near Aeolis Mons, also known as Mount Sharp, at the heart of the 96-mile-wide (154 kilometers) Gale crater, which the rover has been studying since its arrival on the Red Planet in 2012. The image is a composite of multiple shots taken by Curiosity's Mars Hand Lens Imager, which takes close-ups using a magnifying lens. This type of composite photo allows the rover to produce much more detailed images, according to NASA. The flower-like rock, which has been named the **Blackthorn Salt**, is a diagenetic feature, made from minerals that precipitated from ancient water that had previously been mixed with Martian rock, Abigail Fraeman, a planetary scientist and deputy project scientist for the Curiosity rover, told Live Science. Diagenetic features found on Mars are similar in size but can have either a branched shape, also known as dendritic form, like the **Blackthorn Salt**, or be more rounded or even spherical, like other rocks in the same photo, she added. "We've seen diagenetic features with similar shapes before," Fraeman said, "but this dendritic shape is particularly beautiful."

Curiosity has uncovered several other diagenetic features since its arrival in Gale crater. That's not surprising given that the crater could once have been a lake that would have provided the water from which such features precipitate. In 2015, several other flower-like deposits were discovered in the Pahrump Hills area, and in 2019, other diagenetic features were found at the Murray formation. And in 2004, Curiosity's older sibling, the Opportunity rover, found a number of spherical features on Meridiani Planum — a plain-like area near the Martian equator — with a bluish-silver hue, earning them the nickname "**Martian blueberries**." These rocks were blue because they were composed of hematite, a type of iron oxide, Fraeman said. The **Blackthorn Salt** and other features photographed by Curiosity have a composition and color almost identical to those of the surrounding bedrock, she added. Continuing to document new diagenetic features like the **Blackthorn Salt** is important because it could help researchers figure out when liquid water disappeared from Mars.

"We can learn more about the complex and long-lived history of water at Mount Sharp," Fraeman said. This could reveal more information about how long the environment could have been potentially habitable to life, she added.

Artificial Gem Quality Diamonds—who would have thought it possible?

Lab-Grown Diamond Company Mining Carbon From Air Receives Sustainability's Highest Mark

Aether Diamonds, a lab-grown stone company that claims to produce the world's first diamonds from air, has received one of sustainability's highest marks of approval.

The direct-to-consumer company, which launched in 2020, announced it has received B Corp certification. Co-founder and chief executive officer Ryan Shearman said the distinction will help the company gain shoppers' trust, as it's "fantastic third-party validation, but it's not just validation — it comes with a certain gravitas." Shearman said this B Corp certification helps further distinguish Aether from other lab-grown diamond companies, alleging that most of them buy their carbon seeds from the fossil fuel industry. Aether works with a company in the Swiss Alps that filters carbon material from the air. The filtering company is one of the environmental start-ups eagerly searching for attractive commercial applications that meet its objectives. Diamonds — with carbon being their main, if only, component — was a "perfect fit," said Shearman.

He called Aether "the first luxury lab-grown stone," for its environmental offset. For every carat of diamond produced, Aether says it removes 20 metric tons of carbon dioxide from the air, which is more than a year's worth of emissions for the average American. The company produces a wide range of diamond sizes, offering everything from melee to 2.5-carat stones and custom cuts that can be ordered on request, with an approximate three-month lead time.

Aether was launched with a bridal collection of quirky ring designs, incorporating their proprietary stones as well as responsibly mined metals. The price points swing higher than the average lab-grown diamond [jewelry](#), which Shearman said ties back to Aether's goal of sustainable luxury. The company's first line of everyday [jewelry](#), designed by its in-house creative lead Jenna Houseby, formerly of Pandora and Stephen Webster, will launch this spring.

"[Our price point] feels right considering the work that goes into it and what comes out of it. They are more expensive than a fossil fuel-based lab diamond and more close to the price of a mined diamond," Shearman said of Aether's products, which cost around \$6,500 for a one-carat solitaire ring.

While the company mines CO₂ from the air in Switzerland, it has its corporate headquarters in New York City's Diamond District. For security reasons, Shearman declined to reveal the location of Aether's diamond-producing machines beyond that they are based in the U.S.

The company, which launched with preorders, was a self-funded venture. Shearman, in particular said "my background suited me well [to this kind of work]." He previously held court as the lead engineer for David Yurman's men's line and has worked as a mechanical engineer and in material science. "I'm now at the intersection of jewelry and material science," he said.

In its first year of business, Aether sold around \$3 million of product and announced a \$2.7 million seed round. Co-founder and chief marketing officer Robert Hagemann said Aether is working on a Series A round that is set to close soon. The brand is also exploring the possibility of wholesale partnerships in the coming year.

Source: [Lab-Grown Diamond Company Mining Carbon From Air Receives Sustainability's Highest Mark \(msn.com\)](#)

Other companies are producing lab-grown diamonds—read on....



CLEAN ORIGIN

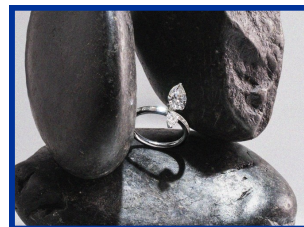
Diamonds Without Compromise

Clean Origin is on a mission to change the way couples experience diamonds. For years, the dark secrets of the diamond industry have been hidden behind the sparkle and glamour of these gorgeous gemstones. With an environmentally conscious approach, we can say that 100% of our diamonds are 100% ethical - giving our customers peace of mind and a diamond with a beautiful, pure beginning.

There are a lot of misconceptions about lab-grown diamonds. The #1 question we're asked is, "Are lab-grown diamonds real?" The answer is 100% yes! The singular difference between lab-created diamonds and mined diamonds is their origin. All of the beloved aspects of a diamond - how it looks, its chemical composition, and its physical properties - remain, while all of the bad parts - destructive mining and muddled ethics - are removed.

Our team of diamond experts has hand-picked the selection of diamonds available on our site. At any one moment, you'll only be looking at stones that meet our minimum standards of quality in terms of cut, color, clarity, and carat. Although you still have plenty of options, we've narrowed down our selection to only include stones that are flawless to the naked eye. Every member of our renowned customer service team has a minimum of 5 years of experience in the diamond industry. They understand that every love story is different, just like every diamond. Take advantage of their expertise via chat, phone, or email to help find the diamond engagement ring you'll both love for a lifetime.

(con't.)



Round Lab Created Diamond | Clean Origin

Clean Origin was founded in 2017 by a team of industry veterans with over 100 years of combined experience. We know the industry to its core and on a mission to improve the diamond shopping experience. We're putting quality and ethics first, so you can feel good about your diamond now and forever.

"Lab-created diamonds are not fakes. They're not cubic zirconias. They have all the same physical and chemical properties of a mined diamond." Stephen -Morisseau, a spokesman for the Gemological Institute of America, a nonprofit organization that oversees the international diamond grading system.

Sometimes, lab-created diamonds are referred to as synthetic diamonds. While not technically inaccurate, term "synthetic" may be the reason people believe lab-created diamonds are "fake." If we compare them to other popular diamond simulants, it's obvious that manufactured diamonds, are, in fact, the real deal.

Before we talk about how lab-created diamonds are made, it's important to understand how mined diamonds are formed. The processes are extremely similar - only one happens naturally while the other occurs in a lab

Mined Diamonds: Geologists believe that diamonds formed deep within the Earth between 1 billion to 3 billion years ago. While they don't know exactly how those diamonds came to be, they believe the process starts with carbon dioxide that is buried roughly 100 miles beneath the Earth's surface. The carbon dioxide is exposed to heat in excess of 2,200 degrees Fahrenheit and put under extreme pressure of roughly 727,000 pounds per square inch. The diamonds are then transported from deep within the Earth's core to the surface by way of deep volcanic explosions.

Lab-created Diamonds: There are two processes labs use to grow diamonds - High Pressure-High Temperature (HPHT) and Chemical Vapor Deposition (CVD). HPHT diamonds are made using one of three manufacturing process: a belt press, the cubic press, and the split-sphere (BARS) press. All of these processes create an environment of extremely high pressure and temperature conducive to diamond growth.

An HPHT diamond begins as a small diamond seed that is placed into carbon. Using one of the manufacturing processes above, the seed is exposed to temperatures of about 1500 degrees Celsius and pressurized to approximately 1.5 million pounds per square inch. The pure carbon melts and starts to form a diamond around the starter seed. It is then carefully cooled to form a pure carbon diamond.

A CVD diamond begins as a thin slice of diamond seed, which is often an HPHT produced diamond. The diamond seed is placed in a sealed chamber and heated to around 800 degrees Celsius. The chamber is filled with a carbon rich-gas, like methane, and other gases. The gases are ionized into plasma using technology similar to that of microwaves or lasers. The ionization breaks the molecular bonds in the gases, and the pure carbon adheres to the diamond seed and slowly crystallizes.

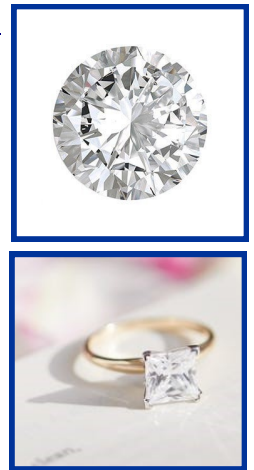
Lab-created diamonds are graded and certified using the same process as mined diamonds. Diamonds are sent to a gem lab that specializes in grading diamonds. The majority of these labs grade using the 4c's (cut, clarity, and color — more on those later), however, a select few use their own criteria.

The most popular diamond certification labs are: [Gemological Institute of America \(GIA\)](#), [Antwerp World Diamond Center \(AWDC\)](#), [American Gem Society \(AGS\)](#), [International Gemological Institute \(IGI\)](#), [Gemological Science International \(GSI\)](#). The diamond grading process is roughly the same for all of the diamond certification labs. Each diamond is graded independently by several gemologists at the lab. The individual grades are compiled and analyzed to determine the final grade. This process is designed to provide each diamond with an unbiased grade. However, it's not uncommon for a diamond to get a different grade, not only from a different lab but from the same lab if sent back for a second grading. For this reason, there are a lot of differing opinions amongst consumers and diamond retailers as to which lab is the "best." But, it's important to keep in mind that those opinions are completely subjective. Each lab, much like anything in life, has its pros and cons.

A diamond retailer chooses which lab they use because they trust that lab to grade diamonds fairly. If diamond certification is an important factor in your purchase, you should have a candid conversation with your jeweler about which lab they use and why. More than anything, jewelers want you to be confident in your purchase, so don't be afraid to ask questions in order to find the best lab-created diamonds for your engagement ring or jewelry.

A diamond is evaluated using the 4c's - cut, clarity, color, and carat. Basically, they judge the diamond on how well it has been cut down from its raw form into a jewel, how flawless and clear it is, and its size.

Source: [Lab Grown Diamonds | Clean Origin](#)



(con't.)

And diamonds of many colors! Blue! Black! Green!

Blue surrounds us in the natural world. It is the color of the sky, the sea, the pure arctic ice. In western culture blue color evokes rich imagery and is commonly associated with harmony and faithfulness. At Jewelry Point we are masters working with colored diamonds. We design and manufacture custom fancy-blue diamond rings, antique-style and traditional wedding bands, matching engagement sets, and stunning cocktail rings. Most rings are available in a multitude of metals, and colors.



A Denver Diamond Company.
There was organized in this city yesterday, the Denver Diamond company, and the articles of incorporation filed. The incorporators of this company are William S. Walker, William N. Byers, Benjamin F. Woodward, A. Cameron Hunt, Isaac N. Dawley, James H. Jones, Levin C. Charles, Samuel H. Elbert and Henry Crow. The object of the company is to carry on the business of mining and exploring for diamonds, gold, silver and other precious minerals in Colorado, New Mexico, Arizona and Utah. The capital stock is fixed at \$5,000,000, and is divided into fifty thousand shares. The principal place of business is to be in Denver. The board of trustees consists of the following named gentlemen: W. S. Walker, W. N. Byers, B. F. Woodward, A. C. Hunt, I. N. Dawley, L. C. Charles, S. H. Elbert, Henry Crow and J. H. Jones.

1872 Denver Diamond Company

The 1872 diamond "rush" turned out to be a hoax, both in Arizona and in western Colorado. But diamonds were later discovered and mined in Larimer County, Colorado!



[Blue Diamond Engagement Rings | Wedding Bands \(jewelrypoint.com\)](http://jewelrypoint.com)

Pink!!

Passion red, bright pink and serene purple diamonds are featured in this collection. Our unique rings are made with hard-to-find fancy colored diamonds. Here you will find intricate cocktail rings featuring floral and vintage designs, purple diamond wedding rings, promise rings, and an array of royal colored diamonds. Stand out with our chic and unique rings.



Yellow Diamond Engagement and Wedding Rings

Effervescent yellow diamonds will illuminate and brighten your day and night. Choose from our unique collection of fancy canary yellow diamond engagement rings and wedding bands. Jewelry Point creates pieces with fine dazzling diamonds set in solid gold or platinum mounts. Bring some sunshine into your life with our gorgeous yellow diamonds.



Yellow!!

DENVER GEM AND MINERAL GUILD

Marj Becker—Acting Secretary

Board Meeting: Attendance: Seven members attended; a quorum was present.

Call to Order at 6:00 p.m. by President **Joe Walkowich**.

Minutes: Date of February minutes should read February 11. The minutes were approved as printed in the T&C.

Treasurer's Report: **Deb Baldwin:** Checking account: \$17,430.13; Regular savings: \$5,991.02; Time deposit: \$4,097.29 This report was accepted.



Report of 2022 Show and Sale:

The meteorite was an important addition to the show. There was a fee paid - \$972 - the cost of the insurance to have the meteorite at the show. Motion made, second, and approved to forward a request for this amount to be paid to **Beth Simmons** (who paid for the insurance) to the membership for approval. (An expenditure of this amount must be approved by the membership at large.)

Deb recommends that there is an increase of the amount of scholarship we offer. This topic will be discussed at a future date. Question: Do we need to pay council for the grab bags that we took from their stock? **Deb** has talked with people at council who have indicated that we do not need to pay for the bags just as long as we give recognition to them for their donation of the bags. **Deb** recommends that we try not to need to take these bags from council, again; rather, that enough be created at the summer gathering. **Joe** will investigate and problem solve this issue. The plan is that before next month's meeting, we will have this issue resolved.

Life Memberships: **Jim Klein; David Sanchez** Long time members who have done a great deal for the club have been recommended as Life Members. **Jim** is our oldest member. Motion was made, seconded, and approved to accept both men as Life Members.

There being no further business, the board meeting was adjourned at 6:45 p.m.

Marj Becker, Acting Secretary

Regular Meeting Attendance: 40 members attended; The meeting was called to order by President Joe Walkowich at 7:00 PM.

Minutes from the February 11, 2022; motion made, seconded, and approved to accept the minutes.

Treasurer's Report: Please refer to the Board meeting minutes for this report.

Business Meeting.

1. Show status: Review of the show is that it was very successful. One of the best exhibits was a piece of the Bear Creek Meteorite. The museum agreed to lend us the piece. It had to be insured because of its value. Cost of insurance was \$972; **Beth Simmons** paid for the insurance. The Board voted to send a motion to the general membership to reimburse **Beth**. The motion was made, seconded, and approved to reimburse **Beth** the amount of the cost of the insurance. The general membership approved the motion.

More than 3,000 people attended the show. Thanks were given to the volunteers for their work. **Bob** photographed the show activities.

2. Conflict with September show and DGMG meeting. Because the September show falls on the date of the DGMS September show, a motion was made, seconded, and approved to move the September meeting to September 23.

3. Life memberships: **Jim Klein; David Sanchez:** They are long-time members who have done a great deal for the club have been recommended as Life Members. **Jim** is our oldest member. The Board approved (by motion) to approve their Life Memberships for DGMG.

Chair reports: Only one Chair report RE: Club Claims; September 24 - clean up for the claim is planned for this date.

Presentation: **Pete Modreski's Tour of Tucson; "The Show that Glows"**

There being no further business, the Member meeting was adjourned at 8:45 p.m..

Marj Becker --Acting Secretary

2022 Denver Gem & Mineral Show

Information for Exhibitors, Clubs, Competitors



Time to start the wheels rolling on the 2022 Denver Show:

Dates - **September 8, 9, 10 and 11, 2022**

Location – The Colorado Convention Center, 700 14th Street, Denver.

This year's Theme – **COLLECTING COLORADO**

Granted, the theme language is somewhat general, and even ambiguous, but we are not looking for exhibits such as “one bottle of beer from each of Colorado's breweries.”

Within our earth science context, we are looking for exhibits that feature Colorado minerals, fossils, agates, meteorites, and even ephemera like mining memorabilia, equipment, documents, etc.

Exhibited material *need NOT* be self-collected.

The corona virus pandemic curtailed many of our normal social activities, but, hopefully, our determined field collectors escaped to their favorite collecting grounds so self-collected exhibits would be especially welcome.

This year we are asking for the usual **non-competitive exhibits** from individual collectors and museums.

In addition, we are offering the following **competitive exhibit** options:

Both Adult and Junior Prospector Competitions. Because of the pandemic, the collecting period for eligible specimens will extend from the end of the 2019 show to the beginning of the 2022 show.

The Species Competition. See entry form for the 8 categories & instructions.

The Best of Fossil Competition. See entry form for instructions.

Entry forms and information are posted on our DGMG webpage.

Hoping you are able to join us,

Larry Havens, Exhibit Chair

**Nick Kimber—Winner from the last show at the Mart
(2019)—Fossil competition**



Mary-Mary's Garden

By **Marj Becker**

Mary-Mary, How does
Your garden grow?

What is that
In your garden?

I see blossoms
Of green
And purple
And red.

But, I look again
And there are
No flowers.
But hard blues

And reds
And orange,
Blacks
And spots.

There are rocks.
No. No. It is lithops.
It's a living
Rock!

The rose nestled
Next to the fence
Is really
The barite desert rose

There are the mums
Little buttons of
Yellow and orange
White and purple on stems.



Or are they
Purple clover?
Rather, I think
They're chrysanthemum stones.



Mary, Mary...

When are your flowers
Not a flower?
When it's
A Rock!



Iron Rose, hematite w/ titanite,
France, Mindat.org, Jean-Marc
Johannet



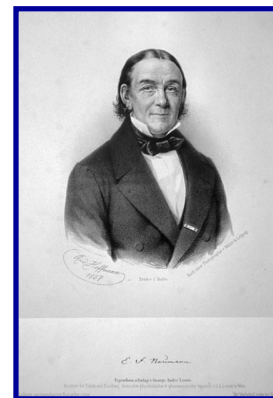
Rose-like calcite on fluorite;
Yaogangxian, China, Tim Bauer,
Lapdiarian



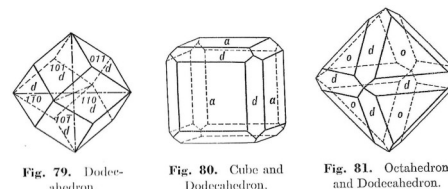
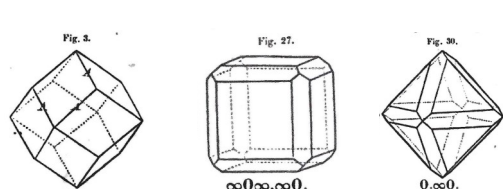
Mineral Illustrations' Longevity by Beth Simmons

In the February *Tips & Chips*, the quote of the month, citing Dr. Bill Cordua at U. Wisconsin at River Falls, stated "Once mineralogists describe something, they hate to let go of it." That goes for their mineral illustrations, too!

In 1859 (163 years ago), Carl Friedrich Naumann published a mineralogy textbook, "Elemente der Mineralogie," in Germany, available now online (in German) at [Elemente der Mineralogie \(archive.org\)](http://Elemente%20der%20Mineralogie%20(archive.org)), scanned from a copy at the University of California, donated by Louis Gavin in 1897, 125 years ago. It wasn't Naumann's first!



In it, for each example of crystal form, Naumann usually posted a simple illustration.



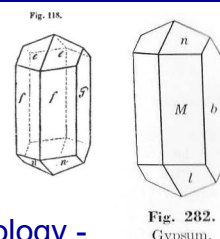
Some of Naumann's illustrations of isometric crystals from 1859.

At the same time, Edward Dana, was making strides in mineralogy in Germany and then came to America. He published mineralogy books, one of which, "Dana's Manual of Mineralogy," those of us in my generation cut our eye teeth on. Guess what? The illustrations, some of which are shown here, match!!!
Dana plagiarized Naumann!

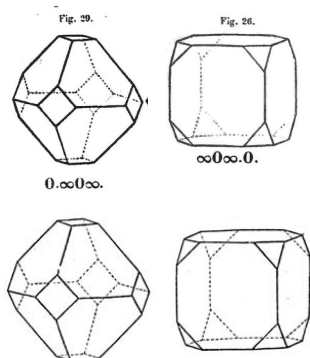
A group of isometric crystal illustrations from Dana's standard Manual of Mineralogy, 17th edition, 2nd Printing 1961. Adapted from the original 1912 text.

Sketch of a gypsum crystal, (monoclinic) on left from Naumann, 1859

On right from Dana, 1961



So along comes the modern technology with all its information available at our finger tips. Look up Crystal Morphology ([Crystal morphology - zxc.wiki](http://Crystal%20morphology%20-%20zxc.wiki)) and Hexagonal Crystal System ([Hexagonal crystal system - zxc.wiki](http://Hexagonal%20crystal%20system%20-%20zxc.wiki)) on Wikipedia.

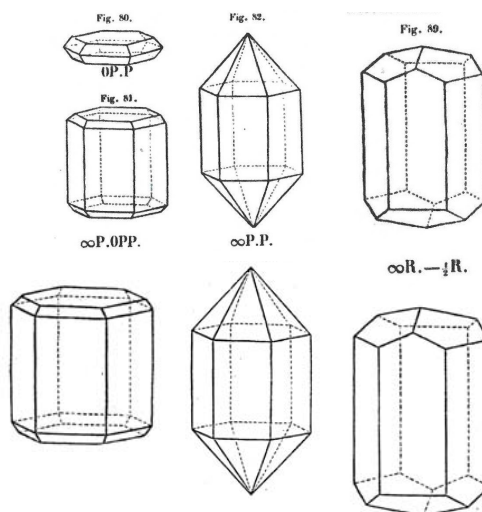


Isometric (cubic) forms from Naumann, (1859)

Isometric (cubic) forms from WIKIPEDIA (02/13/22)!!!

Hexagonal crystal forms from Naumann (1859) above.

Hexagonal crystal forms from WIKIPEDIA (02/13/22) below!!!



Even though copyright dates have long passed, there is no question that Wikipedia is STILL using the same illustrations as the famed mineralogist put forth over a century and a half ago!

It's said that "Old Rockhounds never die. They just slowly petrify."

That obviously goes for their terminology and illustrations, too!!!



Web and Computer Resources for Rockhounds by **Bob Johnson**

Call me if you have trouble getting logged in—720-514-0266

DGMG on Facebook – by Bob Johnson

The DGMG has two Facebook pages. The first is a “private” group that was first established by former DGMG President Brenda Smith, who has since moved to Florida - but she still checks in on us regularly.
<https://www.facebook.com/groups/712900222148230/>



DENVER GEM AND MINERAL GUILD

Private group · 229 members



Joined

+ Invite

About Discussion Topics Members Events Media

This group is for members and “prospective members” of the DGMG. Only those who have requested to join, and have been approved by the group moderator (me) can see the content of the page or make posts there. In accepting members of that Group, I look for existing membership in the DGMG, or friends of members, or “prospective members” who obviously have an interest in rocks and live in the area. I specifically exclude mineral dealers from other countries who are unlikely to ever be active participants in our club and are only looking for places to advertise. The group rules (which they must agree to when they apply to join) state that only dues paid members of the DGMG (and our Show dealers) are allowed to post things for sale in our Facebook group. One local dealer has recently had their ads removed from the page because they did not meet either of those requirements. Our Facebook group has been growing and now has over 220 members.

I advertise our club meetings there and hopefully someday we will see visitors/new members to our club from that group.



(con't. next page)



Web and Computer Resources for Rockhounds by **Bob Johnson**

Call me if you have trouble getting logged in—720-514-0266

The second (public) group is specifically to advertise our show - but I also advertise our meetings there.
<https://www.facebook.com/DGMG.Gem.Show/>

This page had a “reach” of over 2500 viewers in the month of February 2022. You are encouraged to visit and participate in these DGMG FB groups regularly!

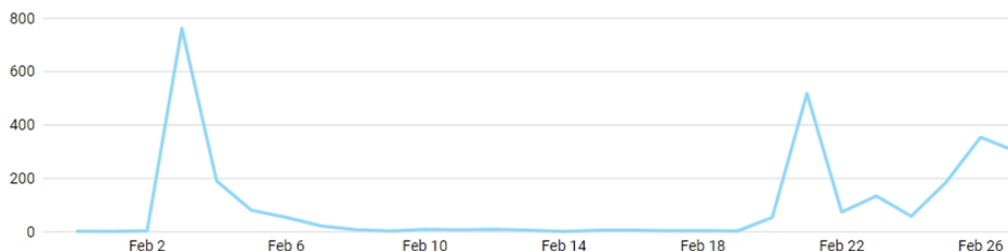


NOTE! – Because the Private group is “Private” you can not share posts from that group to your own FB page, but you CAN share posts from the Show FB page – and most of (my) posts are on *both* pages.



Facebook Page Reach ⓘ

2,528 ↑ 1.4K%



Web Corner addendum

On a totally unrelated but very important topic – with the war in Ukraine, there is a concern of increased cyber-attacks worldwide. See: <https://www.cnbc.com/2022/02/25/will-the-russia-ukraine-crisis-lead-to-a-global-cyber-war.html> and <https://www.govtech.com/blogs/lohrmann-on-cybersecurity/will-the-ukraine-conflict-lead-to-more-global-cyber-attacks>.

Now would be a good time to check your computer's security. Re- read the Web Corner from the September, 2020 Tips and Chips. https://13220728-3f49-4056-5901-c454033c3b54.filesusr.com/ugd/bad138_c41d0efab0504694b45336870ef7d67f.pdf

And, according to a recent notification from AVG.com, there is a rising threat of Emotet in the US.

Emotet spreads primarily as an email scam, using a method called thread hijacking where it replies to stolen email thread conversations and includes malware attachments. Emotet aims to extort money from its victims, steal credentials, or sell access to your computer to other cybercriminals. In the US, you are 20% more likely to become a victim of an Emotet attack compared to the rest of the world. It uses infected attachments, usually word or Excel documents. Once opened, these infected attachments install Emotet malware on your device which then infiltrates your email conversations with messages to all of your friends, containing malware. See: <https://blog.avast.com/why-emotet-remains-an-active-threat-avast>



Web Corner – Web and Computer Resources for Rockhounds –repeat for all our new members!

The New DGMG Website – by DGMG Webmaster **Bob Johnson**

The 10-year-old DGMG website is back to its old address: **DENVERGEM.org** but the address denvergem.co.education will redirect you there.

Many additional pages will be added to the site in the coming months.

A powerpoint about the rock chimney and pillars at Addenbrooke Park has been posted to the new Members Only page for "Special Programs." <https://denvergem.org/special-programs/>

Here are the procedures for logging into the new Members Only area.

On the top menu, click on Login.

Enter your email address as your username.

Be sure to use the same email address that is listed in the club roster – the email address used to send you the Tips & Chips.

If you have forgotten your password, or if this is your first time logging into the new site, click on "Forgot password" and the system, after asking for your email address again, will automatically send you an email with a link to create your new password.

Please keep our members area secure for everyone by using a strong password.

See these recommendations: <https://blog.avast.com/strong-password-ideas>.

The system will suggest a password. You can use that one, or enter your own.

The *Members Only* area currently contains the most recent members directory in both excel and PDF format, and the DGMG photo albums. There are nearly 200 different albums which contain pictures that go all the way back to 1964 – our founding year.

Clicking on an album name will open that album in Google Photos. The initial album view will show all the pictures in the album (you may need to scroll down to see them all). Clicking on any picture will open a larger view of that one picture and from that view you can scroll left or right to see the individual pictures. To save any picture to your computer, just right click on it and select "save image as". From the Album view, you can click on the 3 dots (in the top menu) to download the whole album.

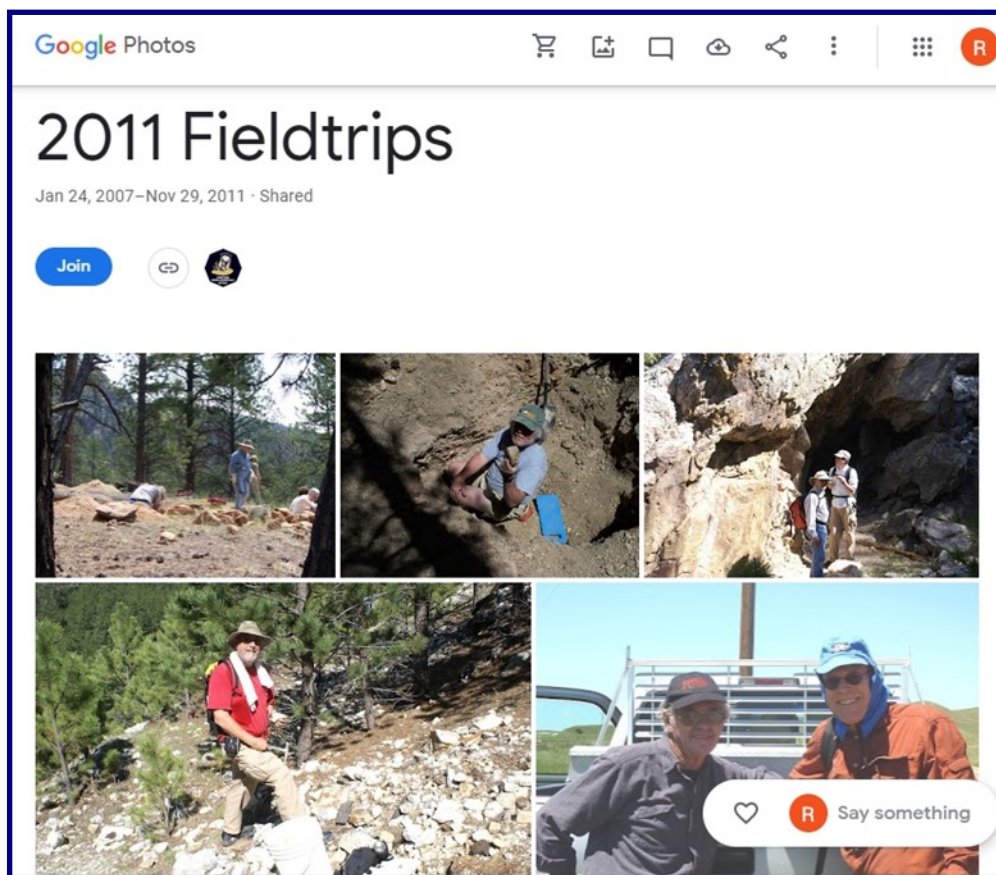
Con't next page



Web Corner – Web and Computer Resources for Rockhounds (con't.)

At the bottom of the screen, you will see a button that says “Say something” Click on that button to leave a comment (about the whole album - from the album view or about an individual picture - from the picture view). You are encouraged to leave your comments and share your stories about these pictures!

The menu at the top of the picture view gives you additional options. The circled “i” will display additional information about that image, and the 3 dots will allow you to order prints, download, or view the pictures as a slideshow.



For more, see *The Ultimate Guide to Google Photos* -<https://techpp.com/2015/12/23/google-photos-guide/>

If you have additional pictures that you would like to add to our collection please contact the webmaster!

Below the Photo Albums are the Videos. Listed there are over 100 videos produced by DGMG Historian Marjorie Payne. They are selectable by categories (All, Fieldtrips, Programs, etc.) Note you will need to hit the “Load More” button at the bottom to be sure that all the videos of any category are actually displayed.

If you have questions, comments, suggestions or any problems logging in to the new site, please contact me, the DGMG webmaster. (The most capable computer guy on the planet –ed.!))

Contact details are at the bottom of the site.

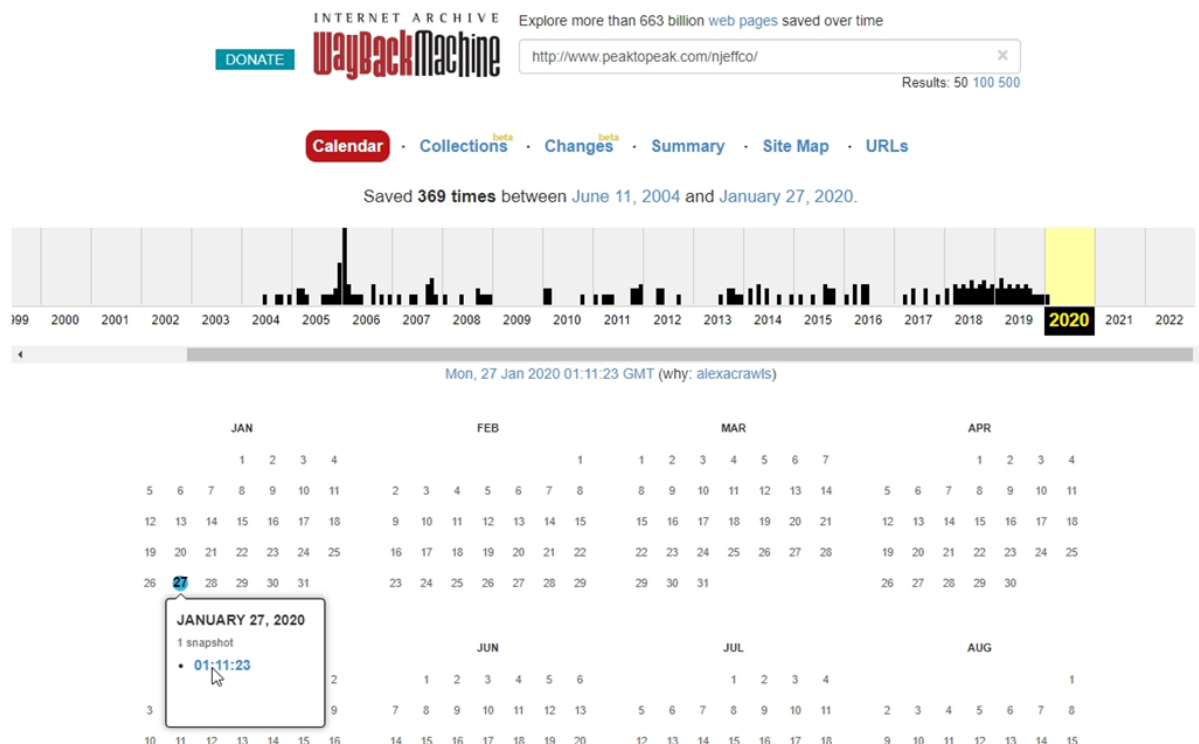




Web Corner – Web and Computer Resources for Rockhounds (con't.)

The WayBackMachine – by Bob Johnson

Websites come, go, and update constantly. If you are ever frustrated that the information you found on a website is gone – or the whole website is gone, then you need to know about the *Internet Archive Way-BackMachine* where you can explore more than 663 billion web pages that have been saved over time. Who can forget such long gone internet pages like the amazing magic card trick - <https://web.archive.org/web/20001109063200/http://www.magiccardtrick.com/> or the Magic Web Cam (an April Fools favorite) - <https://web.archive.org/web/20001109105500/http://www.magicwebcam.com/> What were the top stories on the ABC news website on April 27, 1999 ?- <https://web.archive.org/web/19990427171722/http://www.abcnews.go.com:80/> find them all on the Way-BackMachine.



To use it, go to - <https://web.archive.org/> then type in the URL of the old website you are looking for. It will then show you all of the “snapshots” it took of that site over the years. Click on a year to show the calendar for that year. Click on a highlighted day to show the time(s) for the snap shot(s) on that day. Then click on that time to call up that snapshot.

The image above shows all the snapshots for the old North Jeffco Gem & Mineral Club website. Those snapshots stretch from mid-2004 to early 2020. The image on the right is of one of those snapshots. You could also search for snapshots of DenverGem.org over time or any other website you may be interested in.

Note that the direct links to both club’s websites on the Internet Archive have been posted on the bottom of <https://denvergem.org/archives/>.

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 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 of 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 well being 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: _____

