

Denver Gem & Mineral Guild
Founded March 1964

AFMS Silver Medal Club 2016

May 2024

TIPS & CHIPS SUPPLEMENT

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FIRST PLACE AFMS!!!!!!

DGMG's HERITAGE—Part B—Our authors!

Richard Pearl set the pace....this list illustrates the scope of DGMG members' expertise.

Many of the authors wanted to decline the opportunity to be in the list, but I forced the issue, because I think it's important that new folks to the organization understand the heritage of the members through the years. Some of the authors have gone to the great quarry, but they paved the path for the rest of us.

You might call this the Guild's ultimate reading list! Guild members' names are highlighted in red or bolded in the black & white copies. Keep your eyes peeled at auctions for these historic issues! We'll start with the earliest and work to the present-day authors. The font is at least as large as on a microwave meal box; you can enlarge the pages on your computer or phone. Many of the articles are available online but in saving space, the urls were omitted.

We'll start with the Belshers...

THE BELSHER'S, Don (DGMG member #78; died 2004) and **Dee** (DGMG member #79)

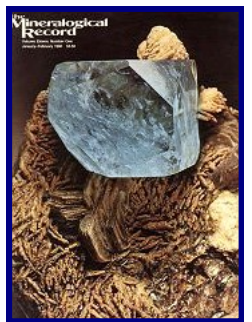
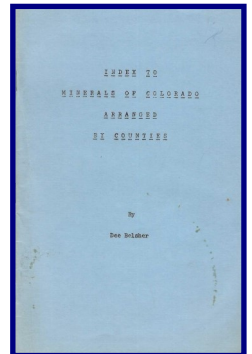
In 1964, the year the Guild started, future Guild member **Dee Belsher** authored an important list—"An Index to Minerals of Colorado Arranged by Counties" which referenced Ed Eckel's USGS Bulletin 1114, "Minerals of Colorado, A 100-year Record." This index, two copies found in the Guild archives, was simply mimeographed, but highly useful to the future authors and organizers of the BIG BOOK. Their sons, Dennis and Dan (died 2003), were the original owners of the Denver Box Company and Blue Sky Minerals, which Dave Bunk and **Fred Olsen** purchased, and then, **Fred** bought out Dave's share, and after **Fred** died, **Deb** sold to DGMG former members **Dan** and **Shawn Tomkus**. Motto? Keep it in the club! And now the company is owned by Graham Sutton and has been moved to Tucson, AZ.

1979. **Belsher, Don** and **Dee**. The mineral phenakite. *Friends of Mineralogy Colorado Chapter Newsletter*: v. 2.1.

1979. **Belsher, Don** and **Dee**. Recent find at Mt. Antero. *Friends of Mineralogy Colorado Chapter Newsletter* v. 2.1 about a find of 2 small crystals of light lavender "apatite" with attached muscovite.

1980. **D (Don).R. Belsher** w/ C.E. Baldwin, An Occurrence of Barite at Hartsel, CO. *Mineralogical Record*, v. 11.1, p. 23-25.

In that 1979 *FM newsletter* there was also an article by **Gene Foord** that is not listed on his bibliography on the next page. "X-ray, chemical and morphological studies on amazonite from the Pike's Peak region, Colorado." *Friends of Mineralogy Colorado Chapter Newsletter* v. 2.1



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Gene Foord, 1946-1998 (DGMG member #168)



Gene Foord's Bibliography

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Foordite, Sn²⁺Nb₂O₆, Kubitaka, Punia Territory, Maniema, DR Congo, Mindat.org

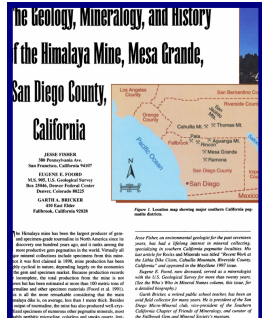
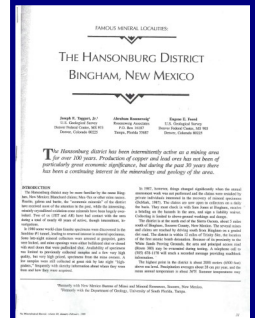
Gene Foord was an mineralogist who worked for the USGS his entire career and maintained membership in numerous local scientific clubs, including the Guild. The mineral Foordite, a tin-niobium oxide from Rwanda, was named for him. This partial list of his writings by William Simmons and Karen Weber came from his memorial in the *American Mineralogist*, 1999, v. 84, p. 790-793.

Note that many of Gene's mineral descriptions came from his studies of the San Diego Tourmaline Mine in San Diego County, California where his ashes were scattered. He was a major contributor to the BIG BOOK of Colorado Minerals (1997), and listed as one of the primary authors. The 25 new minerals that Gene described or redefined make a list of lengthy names: corderoite, rynersonite, hashemite, minasgeraisite, planerite, aheylite (named for Al Heyl), zimbabweite, chestermanite, scrutinyite, grandreefite, pseudograndreefite, laurelite, aravaipaite, boromuscovite, maxwellite, squawcreekite, ferrisurite, parafansoletite, kosnarite (named for Richard Kosnar), hogtuvaite, mccrillite, sewynite, artoeicite, calcioaravaipaite, and meurigitite.



In the same 1980 issue of *Mineralogical Record* that the Belsher article appeared about Hartsel, Gene Foord and Joe Taggart had an article about conichalcite, Cuprian austinite, and plumbian conichalcite from La Plata Cty., CO.

Our own Pete Modreski, one of Gene's colleagues at the USGS, penned a memorial to Gene for the *Canadian Mineralogist*.



Ed Raines

Everyone knows **Ed Raines (C. E Raines)** from the CSM Geology Museum. But he also has a history of mineral-related publications and was a member of the Guild during the late 1990s.

1985 w/ Leland Fritz and Arthur E. Smith. Great Pockets: The Cresson Vug, Cripple Creek, CO. *Mineralogical Record*. V. 16.3 p. 231-238.

1987 w/ Smith, A. E., Famous mineral localities: Breckenridge, CO, *Mineralogical Record*, v. 18.1, p. 51-61.

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1997 Colorado Gold: Part 1: The Discovery, Mining History, Geology, and Specimen Mineralogy of Selected Occurrences in the Front Range: Featured Mineral at the 1997 Denver Show. *Rocks & Minerals* v. 72.4, p. 218-280.

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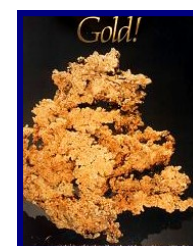
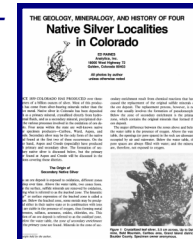
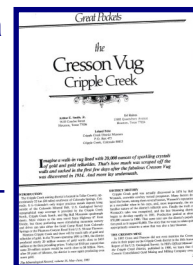
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2006 The Leadville silver deposit. 27th Annual New Mexico Mineral Symposium

2011 Frontier mining methods. 32nd Annual New Mexico Mineral Symposium and 3rd Annual Mining Artifact Collectors Association Symposium

2012 Copper-bearing Minerals of Colorado. *Rocks & Minerals* v. 87.4, p. 304-337

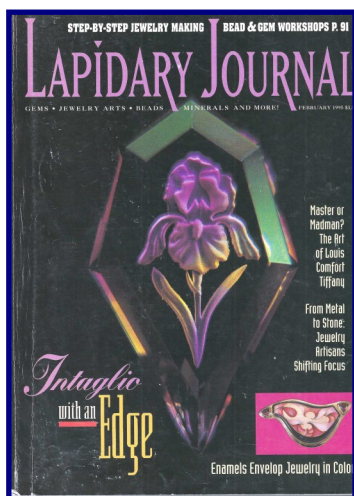
2022 The most infamous frauds, scams, and poor business practices in the history of Colorado mining. 42nd New Mexico Mineral Symposium



DGMG members often have been featured in articles

Tom Ames

Tom was a Guild member in the 1990s-2000s who had a unique technique of precision sand-blasting images in gemstones. His work was featured in *Lapidary Journal*, February 1995, p. 24-30, "Precision Personified" by Si and Ann Frazier. Tom died a number of years ago.



Linda Burns

Lapidary of the month—May 2017
Rock & Gem Magazine
[Video](#) | [Facebook](#) In this video filmed by Bob Johnson in 2020, Linda talks about creating her "butterfly" in stone!



Sue Simonds

This article appeared in *Rocky Mountain News*, Oct. 26, 1995 about a Guild member with a unique hobby—bead making! Both she and her husband, Jim, have passed away.



Dan (DGMG member #139; President Elect, 1978; President 1979; Field Trip Chairman 1970s) & **Dianne Kile** (DGMG member #140; DGMG Secretary 1978 & Queen 1980)

In addition to their fantastic mineral collection, this pair of authors dominated the mineralogical magazines for years, co-authoring with many other DGMG members.

1984 Amethyst deposits of the Thunder Bay area, Ontario, Canada. *Rocks & Minerals*, v. 59, p. 262-271.

1987 Amethyst deposits of the Thunder Bay area, Ontario, Canada (abs). In *Quartz and Associated Species*, Tucson, AZ, p. 30-36.

1988 w/ **Modreski, P.J.** Zeolites and related minerals from the Table Mountain lava flows near Golden, Colorado, *Mineralogical Record*, v. 19, 153-184.

1988 w/ **Modreski, P.J.** Mineralogy of the Patch mine, Gilpin County, and the Alice mine, Clear Creek County, Colorado. In *Mineralogy of Precious Metal Deposits*, Denver, CO, p. 106-111.

1989 w/ Muntyan, John. September/October, *Rocks & Minerals*, v. 64.5, Cover, and the Denver Show poster: Barite from the Book Cliffs (Collected by **Dan Kile**). Same specimen by **Dan Kile** appeared in *American Mineral Treasures* book.

1991 w/ **Modreski, P.J.**, and **Kile, Dianne L.** (DGMG member #140) Colorado quartz: Occurrence and discovery, *Rocks & Minerals*, v. 66, p. 374-406.

1994 w/ **E.G. Kile**, and **Kile, Dianne L.** Minerals from the Indiana and Topeka-Kentucky Giant veins, Ouray Cty., CO. *Mineralogical Record*, v. 25.5, p. 371-376.

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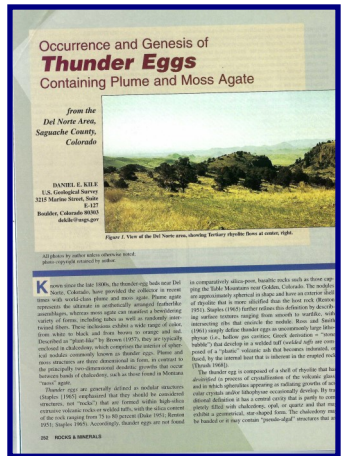
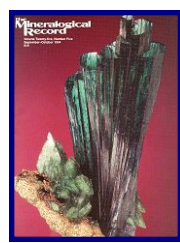
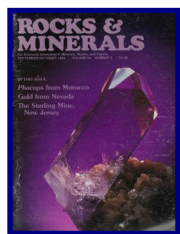
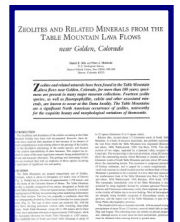
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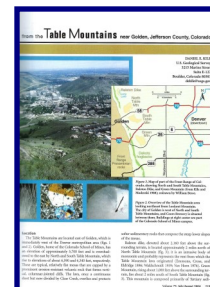
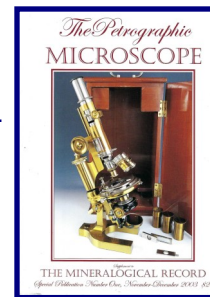
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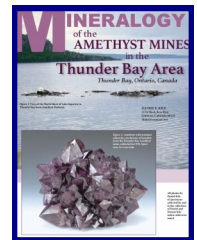
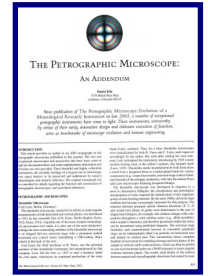
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DAN & DIANNE KILE

Topaz, crystal 1.9 cm, from Ruby Mountain, Nathrop, Chaffee County, Colorado. Dan Kile photo.

Pyrite, siderite, and quartz, 3 cm, from the Alice mine, Clear Creek County, Colorado. Dan Kile photo.

Amethyst, 12.5 cm, from the Thunder Bay Amethyst mine, Thunder Bay, Ontario, Canada. Tom Sparr photo.

Thomsonite with analcime and chabazite, 9.5 cm, from North Table Mountain, Jefferson County, Colorado. Tom Sparr photo.

Supplement to *The Mineralogical Record*, November-December 2014

2015, *Rocks & Minerals*

Celestine-Bearing Geodes

From Wayne and Emery Counties Southeastern Utah: Genesis and Mineralogy

Geodes containing celestine with associated quartz, calcite, chlorite and other minerals occur in the ancient Carrizozo Formation of Emery and Wayne counties of the east and south flanks of the San Rafael Swell in southeastern Utah. The two mines discussed in this article produce geodes to 25 cm wide containing inclusions of tabular celestine crystals that are as much as 4.5 cm in length. An evaporative mineral system resulting in the precipitation of celestine nodules is proposed as the most parsimonious explanation for the origin. Subsequent dissolution of the nodules and its removal, the formation of hollow spaces within the nodules, provided a space structure for the eventual precipitation of celestine and associated minerals.

EUREKA!
Self-Collected Minerals

2024, Min Record supplement

A Supplement to *The Mineralogical Record*, May-June 2022



Mark Jacobson

Mark is our resident mineral collecting historian. Along with his books, he gives talks to the Denver show and to collecting clubs in the region. Plus he serves as President of the Friends of Mineralogy (FM), Colorado Chapter and the National organization. We hope he will continue to play these important roles in our rockhound community!



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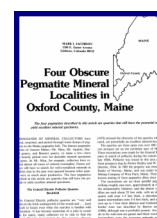
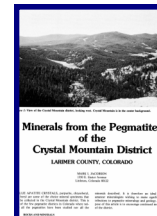
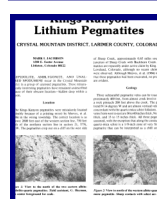
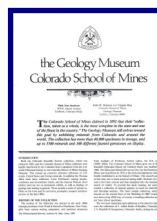
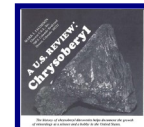
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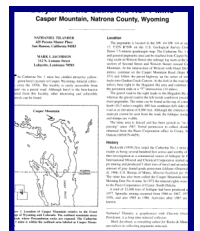
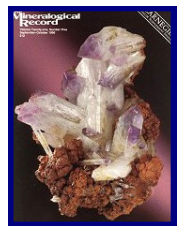
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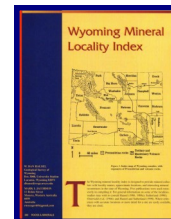
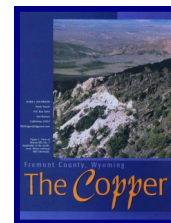
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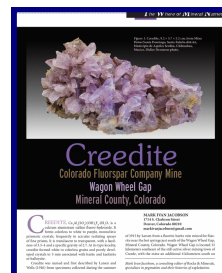
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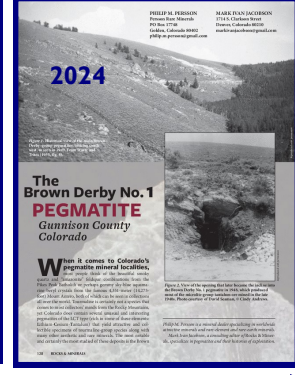
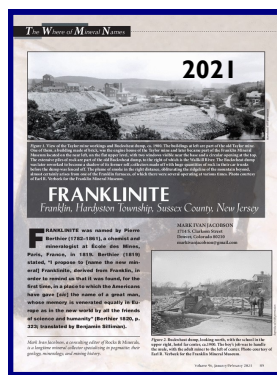
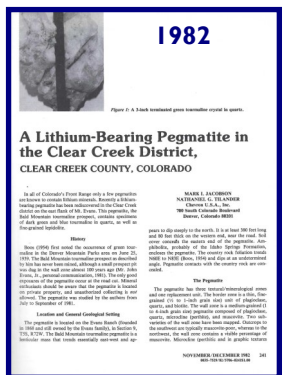
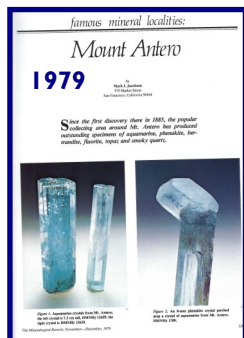
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Mark's books and articles are full of information, designed for Colorado rockhounds.

To try to go to Mt. Antero without reading his tome is asking for trouble.


The Denver show history book is a great compendium that includes many pictures of Guild members and tells their important roles in putting on the nation's second great mineral show.

Mark is a welcome member of the Guild. We hope you get to hear his talks!




Mark Jacobson's books

2007 Guidebook to the
**Pegmatites of
Western Australia**



Mark Ivan Jacobson
Mark Andrew Calderwood
Benjamin Alexander Grguric


Pioneer Colorado Minerals
The Colorado Mineral Catalogues of the Hayden Survey
Frederic Miller Endlich: 1873-1878,
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Mark Ivan Jacobson and Jack A. Murphy
2014

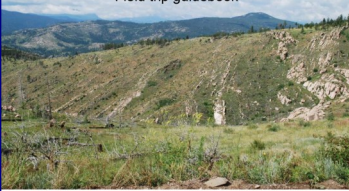
Antero Aquamarines
Minerals from the Mount Antero - White Mountain region,
Chaffee County, Colorado

1993



Mark I. Jacobson

Second Eugene E. Foord Pegmatite Symposium
Field trip guidebook



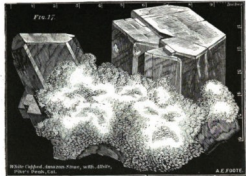
View of pegmatites in Proterozoic schists south of the Hyatt pegmatite, Larimer County

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Studies in the Material Cultures of Southeast Asia No. 2
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Ruth Marie Yeager & Mark Ivan Jacobson



2001  White Lotus


**The Gems of Hiddenite,
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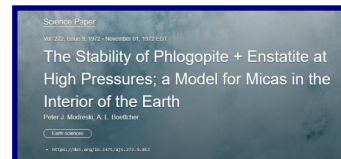
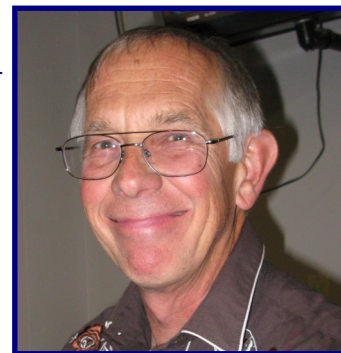


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2014



"Pegmatite Pete" Modreski (DGMG member #286)

Our vice-president, **Pete Modreski**, is an internationally renowned mineralogist and geologist. He can't open his mouth without teaching you something. Having been a member of the Guild since the 1990s, we are grateful that Pete takes his leadership role seriously and continues to educate and inspire us. Pete is the editor for at least two other club's newsletters, and produces a lengthy list of scientific events almost weekly. He holds a weekly mineral quiz contest via the internet, with obscure hints and a photo (sometimes two) of the mystery specimens.



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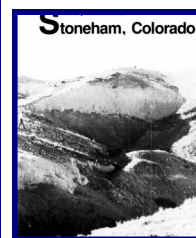
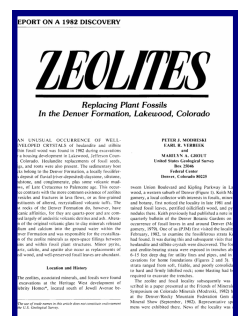
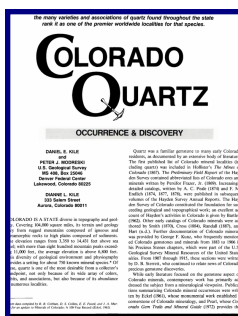
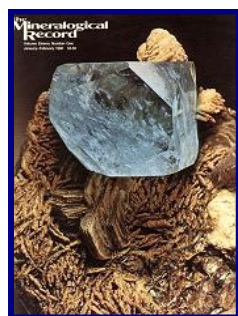
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Stoneham, Colorado.

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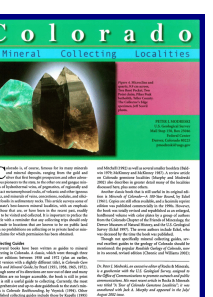
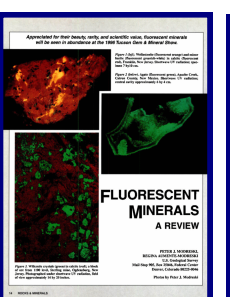
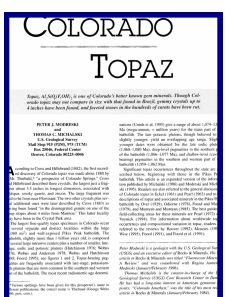
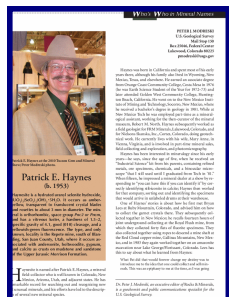
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Regina Aumente-Modreski was Pete’s wife and Karen Wenrich’s assistant at the USGS at the time of the publications when she also served as editor of the *Tips & Chips* during the 1990s. She is currently living in Albuquerque, NM and is editor of the Albuquerque Gem and Mineral Club’s newsletter.

Dr. Pete Modreski is a longtime mineral collector, since college days at least. He has a B.A. in chemistry (Rutgers, 1968) and an M.S. and Ph.D. in geochemistry from Penn State (1971, 1972). After some years in the USAF and at Sandia National Laboratory in New Mexico, he worked for the U.S. Geological Survey from 1979 onward, doing research on mineral deposits and later becoming responsible for public and educational outreach, retiring after 41 years in 2020. For a number of years he was the USGS resource specialist on the geological occurrence of gemstones as well as quartz, beryllium, and cesium. Pete has held volunteer positions with the Denver Museum of Nature and Science, CSM Museum, *Rocks & Minerals* magazine, and *Mineral Almanac*. He is a member of the Geological Society of America (GSA) and Mineralogical Society of America and belongs to quite a few local and other mineral clubs, including the being a member of DGMG since 1996. Pete was a coauthor of *Minerals of Colorado* (1997). If asked to name his favorite mineral, he might choose tourmaline. Pete was a founding member of the Friends of Dinosaur Ridge, the group that “saved the tracks” and has served as president of the Friends of Mineralogy Colorado Chapter and the Friends of the CSM Geology Museum. Plus Pete leads hikes for the Colorado Scientific Society, in addition to being the newsletter editor for FM and for CSS. Pete also is the kingpin of our connection with the Wheat Ridge United Methodist Church. Attendance has soared since our “move” to the church—with its handicapped accessibility and well-lit parking lot.



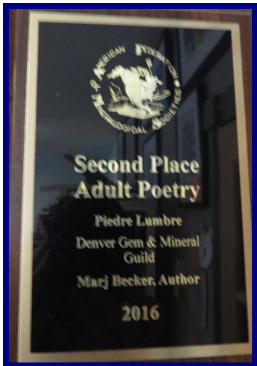
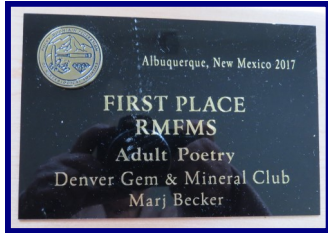
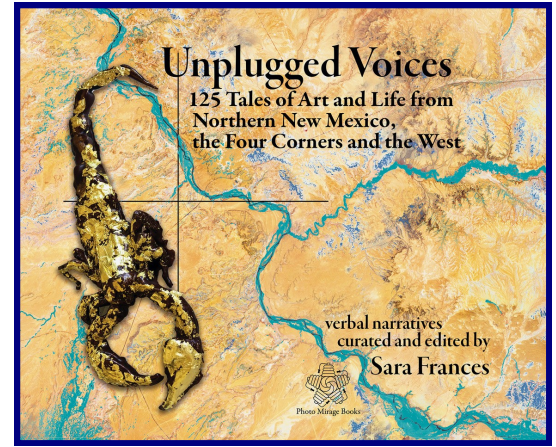
What would DGMG do without PETE????

Marj Becker—DGGM's long-time secretary & resident poet (DGGM Member #408)

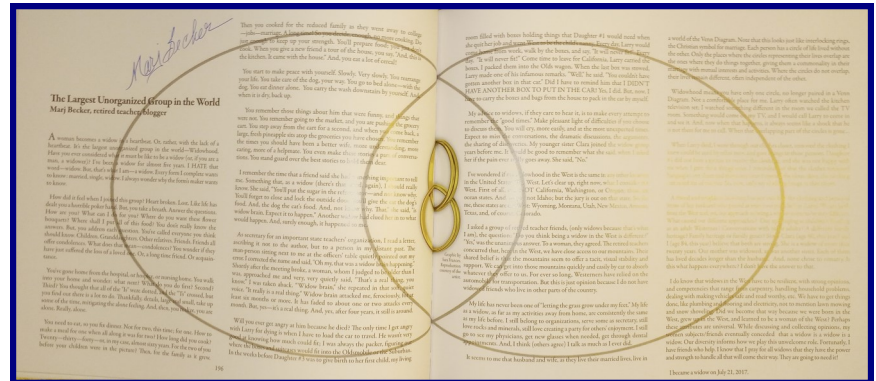
Marj's poems have garnered awards from the Federation. The book she contributed to, "Unplugged Voices," published in 2022, has also won numerous awards.

Marj's first submission to the "Unplugged Voices" book was a many paged thesis about the time she spent at the Ghost Ranch in New Mexico taking art classes from Pomona Hallenbeck. She vividly described the scenery plus the way of life at the famous "artist's summer camp."

Her second submission describes her married life and afterwards as a widow. Most DGGM members knew **Larry** (#407), her wonderful husband, so share her woes. **Marj** also served as one of the editors of the book.

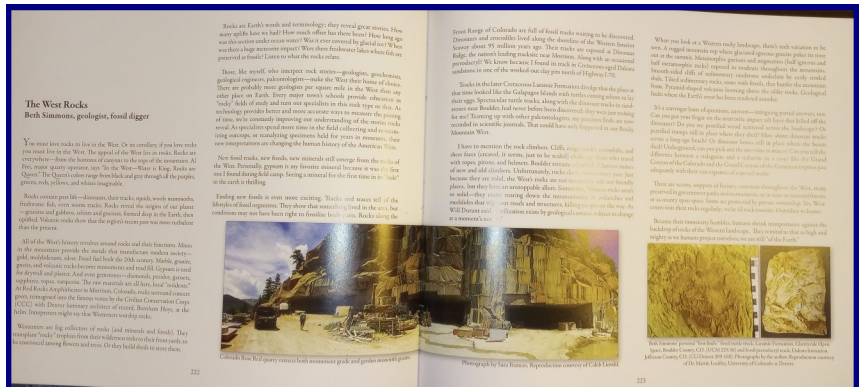


Two trophy plaques awarded to Marj Becker by the Rocky Mountain Federation and American Federation of Mineralogical Societies for her poems.



Unplugged Voices 125 Tales of Art and Life from Northern New Mexico, the Four Corners and the West. Verbal narratives curated and edited by Sara Frances. Regional Award Winner. Celebrate our 5th award for book design! On to the Nationals! photomirage.com/store or Amazon

The "Unplugged Voices" tome also includes a piece by **Beth Simmons** that follows her passion—rocks. And the West. So "The West Rocks" shows the fossil pterodactyl and turtle tracks she discovered.





Karen Wenrich (DGMG member #313)

Most of you know Karen as a mineral dealer at our show and at Tucson, but she has a Ph.D. in mineralogy from Penn State and worked for years at the USGS. Here we present a list of her many publications, with emphasis on Colorado and Arizona. Titles prior to 1982 were listed under the name Karen (K.J.) Wenrich-Verbeek. In addition to this list there are 74 abstracts that date from the 1970s.

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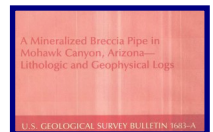
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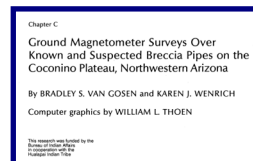
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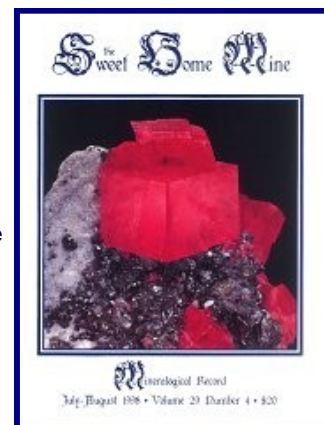
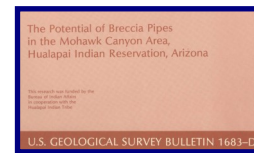
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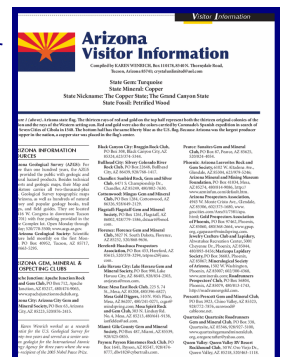
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AND STILL GOING STRONG!

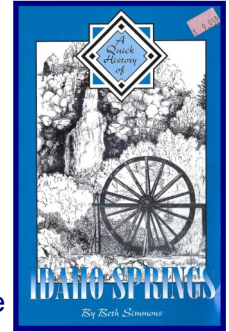


Beth Simmons (DGMG Member #276) et al.

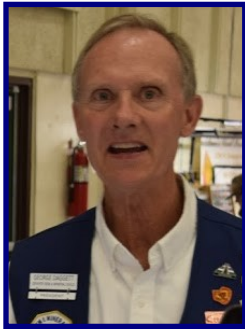
Prior to moving to Colorado, in addition to having her Master's Thesis published by the Pennsylvania Geological Survey (under her previous married name, Schooler), Beth authored articles in Morgan Horse Magazine and the local Tri-Community News, plus historical articles for the Erie County and township historical journals. Colorado provided many more opportunities for authoring—for the Fence Post magazine, local historical journals and books, in addition to biographies of local historical characters. Eventually, she took over the editorship of the Guild's newsletter, the Tips and Chips, and won numerous awards from the Federations.



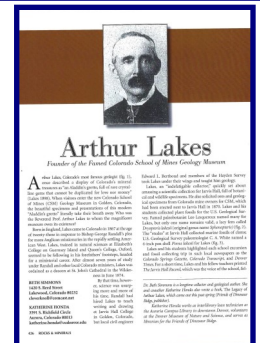
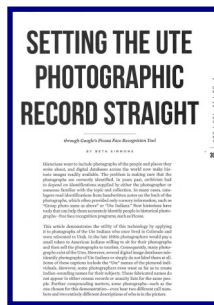
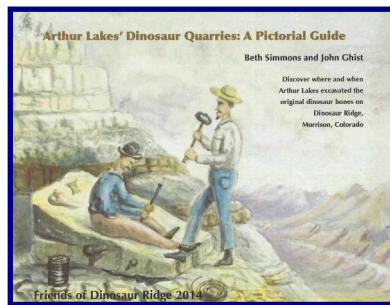
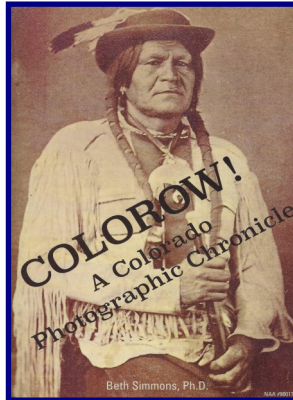
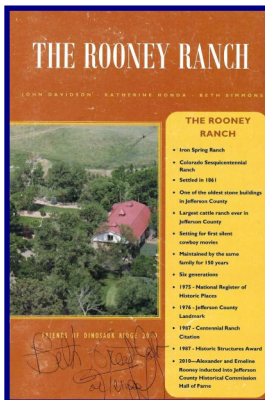
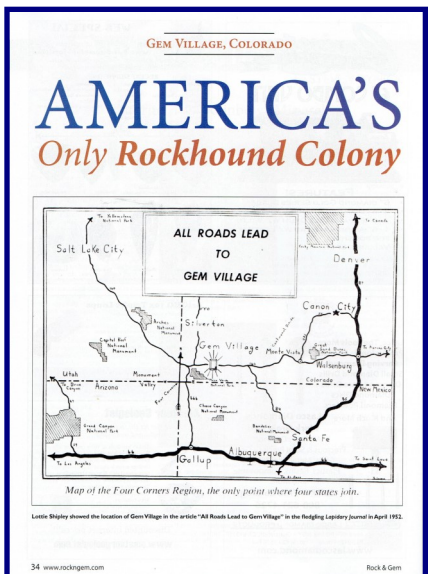
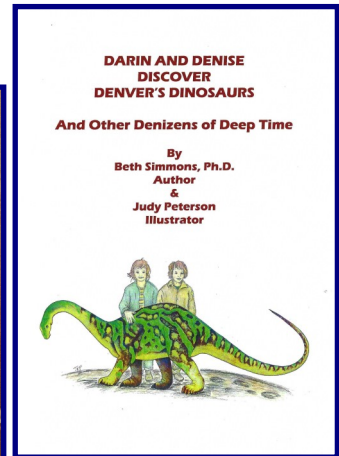
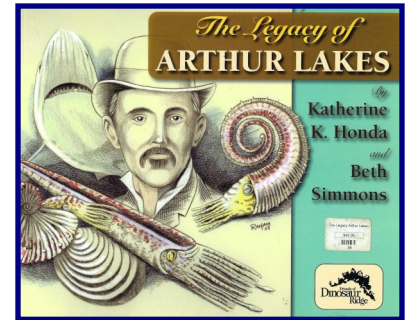
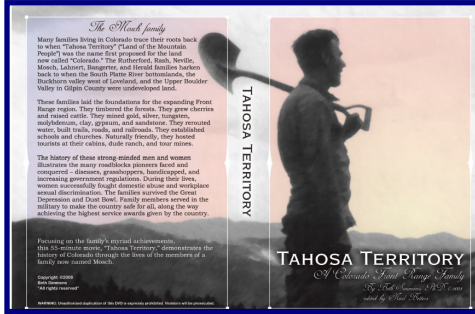
The town of Idaho Springs was the topic of her first book; then came the history of the Rooney Ranch (Alex Rooney was an early DGMG member), and a book about Ute Chief Colorow. In collaboration with other Guild members she also published a major biography of Arthur Lakes with Kathy Honda (DGMG member #364), plus an article in Rocks & Minerals (Sept/Oct. 2009, p. 426-430), a coloring book about Dinosaur Ridge with Judy Peterson and with the late John Ghist, a book about the original dinosaur quarries along Dinosaur Ridge which were opened in 1877. Her Ph.D. work on mining history of Colorado and the Mosch family (DGMG members #388 & 389) caused numerous articles and she even made a movie about Colorado mining—Tahosa Territory, which you can view on the Guild webpage.



Her article about Gem Village in Rocks & Gem Magazine piqued a new member's interest in the club - Phil Ivers' grandparents lived in the small community in southwestern Colorado and he visited there every summer!



Above: George Daggett
Left: Kathy Honda



Beth Simmons, et al. (con't)

Beth's research on Dinosaur Ridge history culminated with the production of the award-winning movie "Arthur Lakes: Discovering Dinosaurs" created by Guild photographer Marjie Payne (DGMG member #301), which starred many Guild members. You can view it on the Guild's webpage where you will see future DGMG president George Daggett (DGMG member #441) in the star role of Arthur Lakes, Pete Modreski, Fred Olsen (#219), Jane Dianich, Linda Barton, Tyler Rockley (#358), David Long (#366), Beth Simmons, and others reenacting scenes from 1877 of what was happening along Dinosaur Ridge.

Kathy Honda, Beth Simmons, and Martin Lockley rediscovered a dinosaur track site on Fort Carson which was first reported by Arthur Lakes, then re-reported it in the 2014 Bulletin of the New Mexico Museum of Natural History along with a new track site near the old quarry town called Stone City. A few pages later, Lockley, Simmons, and George Daggett described George's discovery of a new dinosaur tracksite, called the Hawks' Nest site, high along the Ridge on the north side of I-70 which also yielded the first terosaur track from the Dakota Group that Beth found later.

Discovery of a new dinosaur and turtle track site on Boulder County Cherryvale Open Space near Marshall, mapped by DGMG members, led to a scientific article in collaboration with Martin Lockley and Sue Ellen Hirschfeld in the 2018 New Mexico Museum of Natural History Bulletin.

Right: Marjie Payne



NEW DINOSAUR TRACK SITE IN THE DAKOTA GROUP (CRETACEOUS) OF THE GOLDEN AREA, COLORADO. MARTIN G. LOCKLEY, BETH SIMMONS, AND GEORGE DAGGETT. Abstract—A newly discovered fossil footprint site, located at the north end of Dinosaur Ridge, in the Golden area of Jefferson County, Colorado, has yielded tracks of large ornithomimid (Ceratoholms, Ceratoholms) and prosauropod (Megalosaurus) and prosauropod from the Dakota Sandstone. This is a typical Dakota Group track assemblage, although the prosauropod track is only the third reported from about 80 known Dakota Group localities east of the Rocky Mountains, and the first reported from the Colorado Front Range.

Arthur Lakes: Discovering Dinosaurs. A small town preacher, naturalist, and drawing teacher in Colorado named Arthur Lakes made a discovery that would alter the course of western paleontology. This site would come to be known as Dinosaur Ridge. His discovery would propel Lakes on a lifelong journey, taking him from obscurity into the limelight of scientific journals and newspapers around the world. Join Arthur Lakes as he and his friends uncover the mysteries of Dinosaur Ridge in Arthur Lakes: Discovering Dinosaurs!

THE REDISCOVERY OF ARTHUR LAKES' 1902 DINOSAUR TRACKS QUARRY: WHAT HE FOUND, HOW HE EXCAVATED IT, WHERE IT WENT AND WHAT IT MEANS. MARTIN G. LOCKLEY, BETH SIMMONS AND KATHERINE K. HONDA. Abstract—Until recently two tridactyl dinosaur tracks on sandstone slabs "discovered" in an outdoor location at Colorado College in Colorado Springs, provided minimal information as to their provenance, when they were collected or by whom. They were initially reported to be from a locality known as Lake Canyon (20 ± 2 miles south of Colorado Springs) and inferred to have originated from the Dakota Group. In 2007, the discovery of two additional newspaper articles established that a sequence of five tracks had been collected by Arthur Lakes in 1902 and delivered to Colorado College. At this time the precise location from which the tracks were excavated was still unknown, as Lake Canyon was not mentioned. Nevertheless, the site is of great historical importance, not just due to Arthur Lakes' pioneer role in North American paleontology, but also because these are the first dinosaur tracks discovered in Colorado and in the Dakota Group. In 2011, we learned that an excavation site had been located in Lake Canyon, and on visiting the site we discovered the unequivocal evidence of Lakes' excavation, including 35 ash holes and an excavated area with a geometry comparable with the removal of a 5-track trackway. Details of Lakes' quarry are given along with a description of another in situ trackway. Given that only two tracks are still located at Colorado College, the only pieces of the puzzle still missing are the whereabouts of the three other tracks Lakes collected. It appears that a plan to reconstruct the 5-track trackway as an exhibit was never realized.

NEW DINOSAUR TRACKSITE IN THE DAKOTA GROUP (CRETACEOUS) OF THE HISTORIC STONE CITY AREA, COLORADO. MARTIN G. LOCKLEY, KATHERINE K. HONDA, AND BETH SIMMONS. Abstract—A single, well-preserved trackway of a bipedal ornithomimid is reported from a difficult-to-access site near the old Stone City, an historic quarrying district in eastern Colorado. The tracks that are assigned to Ichthyosaurus carolinensis, represent a medium-sized trackway with relatively change, gracile feet and strong mesaxony. It is inferred that necessary may be present in smaller ornithomids. (Wright, 1961), which had been mined since the 1890s (Pueblo County Historical Society, 2005). Known to mining historians as the Turkey Creek district (Dunn, 2005), the quarry area was connected to Pueblo by the Colorado-Kansas Railroad, known under variations of that name, which operated over 50 years. This allowed contractors to haul out stone and clay for major building projects around Colorado and for the steel industry in Pueblo. The beautiful gray-colored Turkey Creek sandstone was used for the Dapers Carnegie Library (built 1907-1910), the Voorhis Memorial and Greek Amphitheater (Murphy, 1995), St. John's Cathedral in Denver (Lopez Daily Times, 4/21/1988), and the Pueblo County Courthouse (Hansen, 1970).

NEW DINOSAUR TRACK LOCALITY IN THE LATE CRETACEOUS (MAASTRICHTIAN) LARAMIE FORMATION OF COLORADO. MARTIN LOCKLEY, BETH SIMMONS, AND SUE HIRSCHFELD. Abstract—A newly discovered Upper Cretaceous (Maastrichtian) dinosaur tracksite in the Laramie Formation near Marshall, Boulder County, Colorado, has yielded several dozen dinosaur tracks of theropods and ornithomids. Among the most abundant and distinctive are the slender-toothed theropod Saurolophus sp. indet., which dominates the assemblage. Tracks of other track-bearing beds are given below. We herein describe the site, including a large ornithomimid, well-represented ungulate and fibrolagus (Figs. 2A, 3C). The track has a distinctive quadrifurcate morphology and is significantly wider (34 cm) than

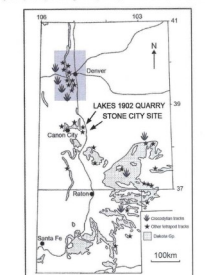


FIGURE 1. Location of the Arthur Lakes 1902 dinosaur tracks quarry (modified after Lockley et al., 2010).

FIGURE 1. Locality map showing location of Stone City and Arthur Lakes 1902 Quarry site. Note high density of tracksites around the Denver area, compared with other regions.

FIGURE 1. Locality map showing location of the Hawks' Nest tracksite, situated north of Dinosaur Ridge and south of Lena Gulch.

FIGURE 1. Locality map showing location of the Hawks' Nest tracksite, situated north of Dinosaur Ridge and south of Lena Gulch.

Mary Ellen Bensen

You might have heard **Mary Ellen's** talk last fall about the fossil diatoms at Florissant. But she's had other major research projects, too, as a field exploration geologist in the minerals and oil and gas industries. She worked at the USGS as a research geologist for mineral resource assessment projects before retiring and joining the Guild!

1980 Under the name Motzer, M.E. Paleoenvironments of the Lower Lakeview Limestone (Middle Cambrian), Bonner County, ID. [MSc. thesis]: Dept. Geology, U. ID, Moscow, ID. 174 p.

1980 Under the name Motzer, M.E. Middle Cambrian faunas from northern Idaho: oral presentation, Northwest Science Program and Abstracts, p. 33, n. 85, 53rd Annual Meeting of the Northwest Scientific Association, March 27-29, U. ID, Moscow, ID.

2006 w/ Smith, D.M., and Spaulding, S.A. Exceptional diversity in late Eocene freshwater diatoms from the Florissant Formation, Teller Cty., CO: an oral presentation, Abs w/ Programs, p. 38, n. 7, GSA Annual Meeting, October 22-25, Philadelphia, PA.

2009 First occurrences in a highly diverse late Eocene freshwater diatom flora from the Florissant Formation, central CO, USA: a poster presentation, 20th North American Diatom Symposium, September 23-27, Iowa Lakeside Laboratory, Milford, IA.

2011 Freshwater diatom paleontology and paleolimnology of the late Eocene Florissant Formation, Teller Cty., CO, [PhD dissertation]: Department of Geological Sciences, University of Colorado, Boulder, CO 434 p.

2011 w/ Spaulding, S.A., Kocielek, J.P., and Smith, D.M. Exceptional genus-richness and modernity in the late Eocene freshwater diatom flora from the Florissant paleolake deposits of CO, USA: an oral presentation, Abstracts with Programs, p. 13-14, 21st North American Diatom Symposium, September 14-18, Flathead Lake Biological Station, Polson, MT.

2012 w/ Kocielek, J.P., Spaulding, S.A., and Smith, D.M. Pre-Neogene non-marine diatom biochronology with new data from the late Eocene Florissant Formation of CO, USA: Stratigraphy, v. 9, no. 2, p. 131-152.

2012 w/ Kocielek, J.P. Freshwater diatom floristics of the late Eocene Florissant Formation, Clare's Quarry site, central CO, USA, *Bibliotheca Diatomologica*, v. 58: Stuttgart, J. Cramer in der Gebrüder Borntraeger Verlagsbuchhandlung, 136 p.

2013 A geologic overview of Cenozoic freshwater diatomites of western North America: an oral presentation, Freshwater Diatomite Clinic, June 17-21, Iowa Lakeside Laboratory, Polson, IA.

2014 w/ Wilson, A.B. A geological overview of frac sand in the United States: an oral presentation, Frac Sand Insider 2014 Conference and Exhibition, November 16-18, Pittsburgh, PA.

2014 w/ Wilson, A.B. Where in the United States is the naturally occurring frac sand?: an oral presentation, Frac Sand Insider 2014 Conference and Exhibition, November 16-18, Pittsburgh, PA.

2015 w/ Wilson, A.B. Frac sand sources in the United States: Frac Sand Insider Resource Guide, a supplement to *Rock Products*, v. 118.5, May, p. 34-56.

2015 w/ Wilson, A.B. Producing and potential frac sand and resin-coated sand source units in the conterminous United States: Frac Sand Insider Resource Guide, a supplement to *Rock Products*, v.118.5, May, p. 58-59.

2015 w/ Wilson, A.B. A geological overview of frac sand in the United States: an oral presentation, Abs. and Program, p. 43, Society for Mining, Metallurgy, and Exploration Annual Conference and Expo Technical Program, February 16-18, Denver, CO.

2015 w/ Wilson, A.B. Where in the United States is the naturally occurring frac sand?: an oral presentation, Abs. and Program, p. 43-44, Society for Mining, Metallurgy, and Exploration Annual Conference and Expo Technical Program, February 16-18, Denver, CO.

2015 w/ Wilson, A.B., 2015, Frac sand in the United States---A geological and industry overview. USGS Open-File Report 2015-1107, 78 p.

2015 w/ Grauch, V.J.S., Skipp, G.L., Thomas, J.V., and Davis, J.K. Sample descriptions and geophysical logs for cored well BP-3-USGS, Great Sand Dunes National Park and Preserve, Alamosa Cty., CO. USGS Data Series 918, 53 p.

2016 w/ Vikre, P.G., Bleiwas, D.I., and others. Geology and mineral resources of the Sheldon-Hart Mountain National Wildlife Refuge Complex (Oregon and Nevada), the southeastern Oregon and north-central NV, and the southern Idaho and northern Nevada (and Utah) sagebrush focal areas. USGS Scientific Investigations Report 2016-5089-B, 224 p.

2016 w/ Lund, K., Zürcher, L., Hofstra, A.H., Van Gosen, B.S., Box, S.E., and others. Geology and mineral resources of the north-central ID sagebrush focal area. USGS Scientific Investigations Report 2016-5089-C, 147 p.

2016 w/ Mauk, J.L., Zientek, M.L., Hearn, B.C., Jr., Parks, H.L., Jenkins, M.C., Anderson, E.D., Bleiwas, D.I., and others. Geology and mineral resources of the north-central MT sagebrush focal area: USGS Scientific Investigations Report 2016-5089-D, 104 p.

2016 w/ Wilson, A.B., Hayes, T.S., Yager, D.B., Anderson, E.D., Bleiwas, D.I., DeAngelo, J., Dicken, C.L., Drake, R.M., II, and others. Geology and mineral resources of the southwestern and south-central WY sagebrush focal area, WY and the Bear River Watershed sagebrush focal area, WY and UT. USGS Scientific Investigations Report 2016-5089-E, 128 p.

2018 w/ Smith, D.M., and Spaulding, S.A., 2018, Perspectives on the paleolimnology of the late Eocene Florissant lake from diatom and sedimentary evidence at Clare's Quarry, Teller Cty., CO, USA, in Starratt, S.W., and Rosen, M.R., eds., From Saline to Freshwater: The Diversity of Western Lakes in Space and Time. *GSA Special Paper* 536, p. 157-181.



Lesley Sebol

Lesley is active in many mineralogical organizations in the Denver area and often helps **Bill Jones** at his Sidewinder's Minerals booth at the DGMG show. She is a hydrogeologist working for the Colorado Geological Survey (CGS) in Golden.



2000. Determination of Shallow Groundwater Age Using CFCs in Three Shallow Aquifers in Southern Ontario. Master of Science, U. Waterloo.

2001 w/ W. D. Robertson, S. L. Schiff, and D. Rudolph. Determination of Groundwater Age Using CFCs at the Thornton Well Field, Woodstock, Ontario. In *Proceedings in the 54th Canadian Geotechnical and 2nd Joint IAH-CNC and CGS Groundwater Specialty Conferences*, 1093–1100. Calgary, Alberta, Canada.

2002 w/ W. D. Robertson, and S. L. Schiff. Determination of the Age of Groundwater Contamination Using CFCs in Waterloo, Ontario. In *Proceedings in the 55th Canadian Geotechnical and 3rd Joint IAH-CNC and CGS Groundwater Specialty Conferences*, p. 1093–1100. Niagara Falls, Ontario, Canada.

2005. Evaluating Shallow Groundwater Age Tracers: Br, CFCs, 3H/3He, SF6 and HCFCs/HFCs. Ph.D. Dissertation, U. Waterloo.

2007 w/ W. D. Robertson, E. Busenberg, L. N. Plummer, M. C. Ryan, and S. L. Schiff. Evidence of CFC Degradation in Groundwater under Pyrite-Oxidizing Conditions. *Journal of Hydrology* v. 347.1–2 (December 15, 2007), p. 1–12.

2015. w/ Barkmann, P. E., F. Scot Fitzgerald, W. Curtiss, J. Pike, Annette Moore, and B. Taylor. Geology and Groundwater Resources of Douglas County. Geology and Groundwater. Open File Report OF-15-10. Golden, CO. CGS.

2016 w/ Barkmann, Peter E., Erinn Johnson, and F. Scot Fitzgerald. Mapping Colorado's Geology and Groundwater Resources on a County-Wide Scale. Denver, CO. GSA, v. 48.7.

2016 w/ Barkmann, Peter E., Erinn Johnson, F. Scot Fitzgerald, and William Curtiss. Geology, Groundwater Resources, and Water Quality of Park County, Colorado. Denver, CO: GSA, v. 48.7.

2017 w/ Barkmann, P. E., Erinn P. Johnson, F. S. Fitzgerald, and William Curtiss. Geology and Groundwater Resources of Park County. Geology and Groundwater. Open File Report OF-15-11. Golden, CO. CGS.

2017 w/ Barkmann, Peter E., Erinn P. Johnson, and F. Scot Fitzgerald. OF-16-04 Geology and Groundwater Resources of Chaffee County, Colorado. Geology and Groundwater. Open File Report OF-16-04. Golden, CO. CGS.

2017 w/ Katheryne H. McGee, Erinn P. Johnson, and P. E. Barkmann. Geology and Groundwater Resources of Mesa Cty., CO. Geology and Groundwater. Open File Report OF-17-01. Golden, CO. CGS.

2019 w/ Palkovic, Martin J., Peter E. Barkmann, and Lauren D. Broes. Cretaceous Sedimentary Bedrock and Its Impact on Uranium Concentrations in Irrigation Return-Flows to the Arkansas River, Southeastern CO. In *Abs. w/ Programs*. Phoenix, AZ: GSA.

2020 w/ Barkmann, Peter E., Lauren D. Broes, Martin J. Palkovic, John C. Hopkins, Kenneth Swift Bird, and F. Scot Fitzgerald. ON-010 Colorado Groundwater Atlas. Geoscience. ON-010 Colorado Groundwater Atlas, January 8.

2020 w/ Barkmann, Peter E., Lauren D. Broes, Martin J. Palkovic, John C. Hopkins, Kenneth Swift Bird, and F. Scot Fitzgerald. ON-010D Colorado Groundwater Atlas (Data) – v 20200520. Groundwater, Variable. Golden, CO. CGS, May 20, 2020.

2021 w/ Barkmann, Peter E., Lauren D. Broes, Martin J. Palkovic, John C. Hopkins, Kenneth Swift Bird, and F. Scot Fitzgerald. ON-010D Colorado Groundwater Atlas (Data) – v. 20210304. Groundwater, Variable. Golden, CO. CGS, March 4, 2021.

2021 w/ Barkmann, Peter E., Lauren D. Broes, Martin J. Palkovic, John C. Hopkins, Kenneth Swift Bird, and F. Scot Fitzgerald. ON-010M Colorado Groundwater Atlas (Map) – v. 20210304. Groundwater, Variable. Golden, CO. CGS, March 4, 2021.

2021 w/ Barkmann, Peter E., Lauren D. Broes, and Katheryne H. McGee. OF-18-12 Geology and Groundwater Resources of Elbert Cty., CO. Geology and Groundwater. Open File Report. Golden, CO. CGS.

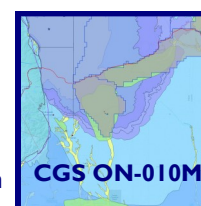
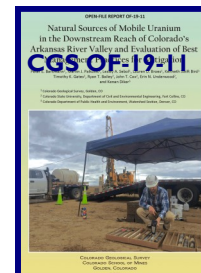
2021 w/ Lindsey, Kassandra O. and Peter E. Barkmann. ON-010-02D Colorado Statewide Alluvial Aquifer (Data). Aquifers, Variable. Golden, CO: CGS, March 4, 2021 w/ Lindsey, Kassandra O. and Peter E. Barkmann. ON-010-02M Colorado Statewide Alluvial Aquifer (Map). Aquifers, Variable. Golden, CO. CGS, n.d.

2022 w/ Barkmann, Peter E., Martin J. Palkovic, Lauren D. Broes, Kenneth Swift Bird, Timothy K. Gates, Ryan T. Bailey, John T. Cox, Erin N. Underwood, and Kenan Diker. OF-19-11 Natural Sources of Mobile Uranium in the Downstream Reach of Colorado's Arkansas River Valley and Evaluation of Best Management Practices for Mitigation. Hydrogeologic. Open File Report. Golden, CO. CGS, January 2022.

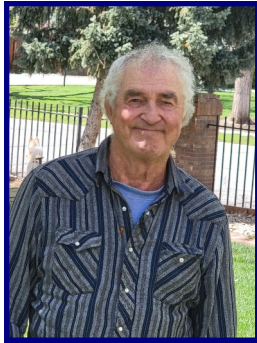
2022 w/ Palkovic, M.J., Broes, L.D., and Barkmann, P.E., 2022, Geology and Groundwater Resources of La Plata County, Colorado: CGS Open File Report 19-01.

2022 w/ Morgan, M. L., Broes, L. D. and Lindsey, K., 2022, Geologic Map Compilation at 1:100,000 Scale Within Colorado: Processes and Challenges for Creating Digital Geologic Data to Support a National Geologic Map by the End of This Decade: GSA Abs. w/ Programs, v. 54.5

2023 w/ Lindsey, K.O. OF-22-14D Digital Compilation of Surficial and Bedrock Geology of the Grand Junction 30x60 Minute Quadrangle, Delta, Garfield and Mesa Counties, Colorado (Data)." Geologic, Digital (variable). Open File Report. Golden, CO: CGS, August 2023.



Gary Curtiss

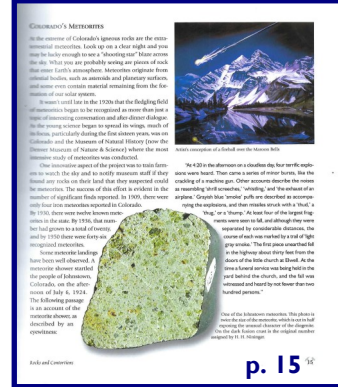
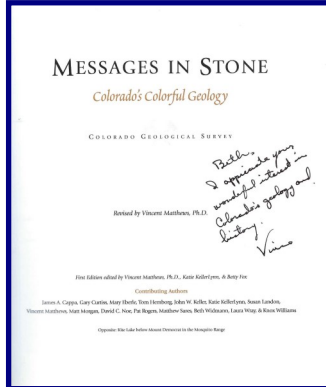
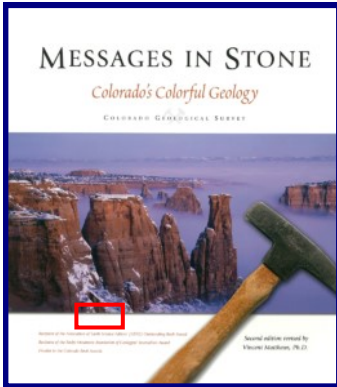


Gary is now the club's meteoriticist (that's your new vocabulary word for the day!), following in Fred Olsen's stead. You may have enjoyed his and Matt Morgan's display of Colorado meteorites at the DGMG show in February and his talk last year about meteorites. We hope for many more!

1976 w/ Edson, Gary M. Lithologic and geophysical logs of holes drilled in the High Point, Seaver-son Reservoir, and Fillmore Ranch quadrangles, Carbon Cty., WY, USGS Open-File Report 76-272, 1976

2003 Matthews, Vincent, Ph.D., contributing author, *Messages in Stone*, Colorado Geological Survey

This is the Bear Creek Meteorite which was on display from the DMNS at the DGMG show in 2003



James Cronoble

Dr. Cronoble came to the Guild after retirement from Metro State, where he served as chairman of the geology department. He has been active in Friends of Dinosaur Ridge.

1969 Geothermal gradients and their application to petroleum geology: *Mountain Geologist* v. 6, no. 1 (January), p. 27-39, 9 figs., 1 table.

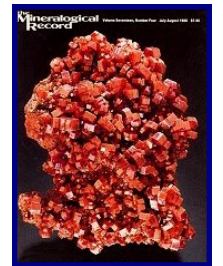
1974 Biotic constituents and origin of facies in Capitan Reef, New Mexico and Texas: *Mountain Geologist* v. 11, no. 3 (July), p. 95-108, 3 figs., 18 plates



Norm Bennett

Norm was the first of the famed Bennett family to join the Guild back in the 1970s. He served as show chairman and president and authored an article about the Stoneham barite site in 1986 that was published in the *Mineralogical Record*.

1986 The Stoneham barite locality, Colorado. *Mineralogical Record*, v. 17.4, p. 255-258.



Jim Dennis

In 2012, Jim Dennis dictated lessons in how to cut a cabochon, which editor Beth transformed into an article for the *Tips & Chips*. After winning the RMFMS first place award, the article won 3rd place in the AFMS adult article contest!



Professor Pearl would be PROUD of the plentiful publications of Guild members through the 60 years!!