

Lake George Gem & Mineral Club

Club News

March, 2019



Program for the Month: Saturday, March 9, 2019, 10:00 a.m.

Dinosaur Tracks presented by **Paul Combs**

For a long time, people looked at dinosaur tracks as nothing more than "curiosities". Even paleontologists used them as door stops and paper weights, or gave them away to friends. **No more.** About 30 years ago, the study of dinosaur tracks really took off, and the discoveries are nothing short of amazing. In that short time, we have discovered a lot about how fast different dinosaurs walked or ran, how they stood, what they ate, how they hunted, that they swam, how they courted their mates, how they raised their young, that they traveled in herds, and much more. And more track sites are being discovered in the USA and around the world every year. **Paul Combs** will explain the techniques that scientists are using and what all this work is teaching us. For instance, Steven Spielberg used this new information in the making of the "Jurassic Park" series of films. Some of these discoveries are happening right now, at sites here in Colorado!

Scheduled Programs at Club Meetings:

Robert Baker has been working to organize programs for 2019. Thus far, we have the following speakers/programs scheduled:

March - Paul Combs, Dinosaur Tracks-A footprint in the mud or the key to unlock answers to many of our questions about dinosaur behavior

April - John Rakowski, Rockhounding 101

May - Markus Raschke, Research on minerals of the Pikes Peak batholith

June - Conrad North, Fluorescent minerals (field-trip prep)

July - Bob Carnein, Basic geology of the Colorado Springs/Ute Pass area (field-trip prep)

August - Open

September - Open

October - Richard Walker, Meteorite find near Cotopaxi. Use of metal detectors

November - Doug White, Newmont CC&V geology of Cripple Creek gold mine

December - Towel show, no presentation

Reaching out to **Christine Siddoway** - Tava Sandstone Formation

Steve Gorman - History of Gold City claim

(Members and non-member guests are welcome to attend the programs at club meetings.)

Silent Auction: We need donations for the silent auction! If you have "extras", whether minerals, fossils, books, or other items, and if you have a label saying what the item is and where it came from, we can use it. If not, bring some cash and be prepared to help support Club activities, including scholarships, Pebble Pups, and other items.

Reminder: You must create or renew your membership by March 31st. to be able to attend any of the LCCM Club field trips. There are 3 ways to do this:

1) Online: Memberships can be renewed on-line at <https://lggmfieldtrips.com/> and are effective immediately. If you are already a member, just log in. If you are a new member you will need to create an account using your email address and establish a password. Then log-in to your new account and you will be presented with an option to become a member. Follow the prompts to sign up for either single or family membership. The fee is paid via credit card during this process. We apologize for any difficulties you may have had in starting or renewing your membership online. The procedure is very specific in order to make it very secure as well.

2) By Mail: Fill in the membership form at the end of this newsletter and mail it with a check to:

Lake George Gem & Mineral Club

PO Box 171

Lake George, CO 80827

3) In Person: Come to the March meeting, fill in the form and pay Cathy by cash or check.

Membership dues are still \$15 for an individual and \$25 for a family. You should receive your membership card by mail within 2-6 weeks after your application is received the processed.

LGGM Club Field Trips:



Club leaders are actively putting together an amazing list of collecting and non-collecting field trips for the 2019 season. To participate you must be a club member and membership registration ends March 31, 2019, so don't delay... see <https://lggmfieldtrips.com/>.

Our celebrated monthly lectures will be paired with associated field trips reinforcing the knowledge you gain at our meetings. The club's exciting collecting trips schedule will include both weekday and weekend trips for garnets, barite, amazonite, quartz, topaz, jasper, agate, fluorescent minerals, fossils, geodes, fluorite, and many other minerals.

This exciting schedule is only possible, however, with help from club members (that means you!). Being a field trip leader or assistant is simple and rewarding. Please contact your field trips coordinators Dave Alexander (dave@davealex.com) or Laura Canini (caninilaura@gmail.com), or any club leader to volunteer or to get more information about how easy it is to participate. Look forward to collecting with you this year!

--dave

Upcoming LGGM Club Events:

- **April ? (TBD): Mineral Physical Properties by Bob Carnein**
This 4-hour class will cover the physical properties of various minerals and ways that you can easily test these properties to help identify the minerals you have found.
- **(TBD): Basic Wire Wrapping by Jerrolynn Kawamoto**
Darlene Cotton will be assisting in the course.

ADDITIONAL COMING EVENTS OUTSIDE THE LGGM CLUB: (Nearby gem, mineral, fossil and geology events that you may enjoy.)

- **Cañon City Geology Club**, meets on the 2nd Monday of the month at 6PM in the United Methodist Church, Cañon City
- **Columbine Gem & Mineral Society**, meets on the 2nd Thursday of each month, 6:30PM in the meeting room, Mt. Shavano Manor, 525 W. 16th (at J St.), Salida
- **Colorado Springs Mineralogical Society**, meets on the 3rd Thursday of each month at 7PM in the Mt. Carmel Veteran's Service Center, 530 Communication Circle, Colorado Springs;
- **Pueblo Rockhounds**, meets on the 3rd Thursday of each month at 6:30PM in the Westminster Presbyterian Church, 10 University Circle, Pueblo.
- **Pete Modreski suggests the following upcoming events:**

Now through March 31: The Conifer Historical Society hosts a special exhibit on "**Mining in Jefferson County**" at Conifer's "Little White School House" meeting place, at 26951 Barkley Road, Conifer. The exhibit will be open (no admission charge; donations accepted) just one day a week, every Sunday from 11 a.m. to 3 p.m.

Sun. Mar. 10, 1:00 p.m., A special program **Frontier mining methods**, by Ed Raines will be presented in conjunction with the exhibit; admission will be \$8/\$10 for members/nonmembers:

For more information about the Historical Society and the exhibit, or to make reservations to attend the lectures, see <https://www.coniferhistoricalsociety.org/events/>.

Fri., Mar. 1, 3:00-4:00 p.m., **The origins of C₄ photosynthesis: A fossil dilemma, an evolutionary hypothesis, and (possible) isotopic tests**, by Boz Wing (CU Boulder). Denver Museum of Nature & Science, Earth Science Colloquium Series; VIP Room, DMNS, all are welcome, no charge, museum admission not required. Seminars in this series are given once or twice a month; always at 3 p.m., date and day of the week vary.

Sat., Mar. 2, 10 a.m. – 6:00 p.m., **Mineral and Book Sale** at the Colorado School of Mines Geology Museum, 1310 Maple St., Golden. Public sale opens at 10 a.m.; advance sale for Friends of the Museum members only, 8 to 10 a.m. (“Drop by and become a member!”).

Tues., Mar. 12, 7:00 p.m., **WMMI Speakers' Bureau Lecture: Ben Elick, "Repeat Photography of the Pikes Peak Region"**. Admission \$5, free to WMMI members.

Sat., Mar. 16, 10 a.m.-3 p.m., **Family Science Day** at Western Museum of Mining & Industry, Colorado Springs. Regular admission rates apply; see www.wmmi.org.

Thurs., Mar. 21, 7:00 p.m., **“A Cook's Tour of Colorado's Glacial Landscape”** by Dr. Vince Matthews. Monthly meeting of the Colorado Scientific Society, Shepherd of the Hills Church, 11500 W. 20th Ave., Lakewood; all are welcome.

Fri.-Sat.-Sun., Mar. 22-24, Fort Collins Gem & Mineral Show; at Thomas M. McKee Building, at The Ranch/Larimer County Fairgrounds, 5280 Arena Circle, Loveland, CO (I-25 exit 259); hours 4-8 Fri., 9-6 Sat., 10-5 Sun. Sponsored by the Fort Collins Rockhounds Club.

Sat.-Sun., Mar. 23-24, WIPS (Western Interior Paleontological Society) semi-annual Founders Symposium, **“Lagerstätten: Exceptional Preservation, Extraordinary Fossils”**. To be held at Lowry Conference Center, 1061 Akron Way, Denver. Two days of lectures, educational exhibits, displays of fossils, paleo art show and sale with over a dozen artists. (There is a registration fee to attend the symposium—none to just see the exhibit hall and/or to help staff the CSS table. Please contact one of the CSS officers, if you are interested in helping!) For full information on the Symposium, see https://www.westernpaleo.org/symposiums/2019_pages/about-2019.php.

Apr. 2-11, geologist Lew Kleinhans is leading a 9-Day Grand Canyon Geology float trip from April 2-11, which has between 5 and 10 spaces remaining. This is scheduled at a time few get to float the river and generally is more attractive to the more adventurous adventurers, owing to variable temperatures (generally between 55 and 85); i.e., great hiking, fishing, sleeping, and occasional swimming weather and lots of wildflowers. For more info, please contact Lew, lewis.oysterclub@gmail.com, or write to me (pmodreski@gmail.com) and I'll forward you a flier about the trip.

Fri.-Sat.-Sun., Apr. 12-14, Colorado Mineral and Fossil Spring Show, Crown Plaza Hotel /Convention Center, 15500 E 40th Ave., Denver, Colorado, 10-6 Fri. & Sat., 10-5 Sun., free parking & admission.

Sun., May 19, Friends of Mineralogy, Colorado Chapter, Silent (+Vocal) Auction. Noon to 4 p.m., Clements Community Center, 1580 Yarrow St., Lakewood CO. All are welcome to attend.

Fri.-Sat.-Sun., May 31-June 2, Pikes Peak Gem & Mineral Show, Norris-Penrose Event Center, 1045 Lower Gold Camp Road, Colorado Springs, CO 80905. Sponsored by the Colorado Springs Mineralogical Society.

For more lecture series during the year see:

Colorado Beer Talks (2nd Tuesday, 6-8 p.m.), Windy Saddle Café, 1110 Washington Avenue, Golden, “Golden’s grassroots version of TED talks, Expand your mind with a beer in your hand”, <http://goldenbeertalks.org/>

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

Colorado Scientific Society (3rd Thursday, 7 p.m.), see <http://coloscisoc.org/>. Meets at Shepherd of the Hills Church, 11500 W. 20th Ave., Lakewood CO, except when noted.

CU Geological Science Colloquium (Wednesdays, 4 p.m.)
see <http://www.colorado.edu/geologicalsciences/colloquium>

CSU Dept. of Geoscience Seminars (Fridays, 4 p.m.),
see <https://warnercnr.colostate.edu/geosciences/geosciences-seminar-series/>

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

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

Denver Museum of Nature and Science, Earth Science Colloquium series, 3:00-4:00 p.m., VIP Room unless noted, day of the week varies. Museum admission is not required;

see <http://www.dmns.org/science/research/earth-sciences/>

Denver Region Exploration Geologists Society (DREGS; 1st Monday, 7 p.m.), <http://www.dregs.org/index.html>

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

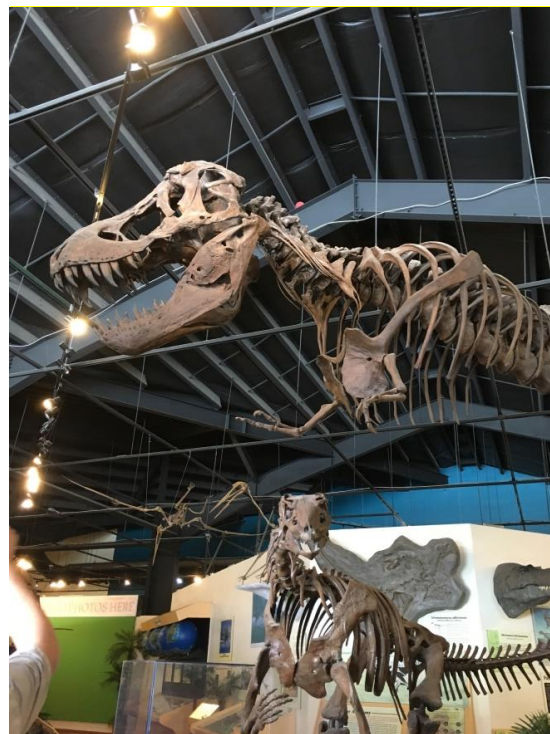
Nerd Night Denver is a theater-style evening featuring usually 3 short (20-minute) TED-style talks on science or related topics; held more-or-less monthly at the Oriental Theater, 4335 W. 44th Ave., Denver; drinks are available; for ages 18+. Admission is \$6 online in advance, \$10 at the door. See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

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

Western Interior Paleontological Society (WIPS); beginning January 2019, WIPS will meet on the 1st Monday of the month, 7 p.m., at Lowry Conference Center, 1061 Akron Way, Denver. See <http://westernpaleo.org/>.

LGGM Club News:

The first 2019 LGGM Club field trip got the Paleo Group off to a good start with a tour of the Dinosaur Resource Center in Woodland Park. **Laura Canini** submitted the following photographs from the trip:



Here is the latest installment of

“Bench Tips” by Brad Smith: (www.BradSmithJewelry.com)

MAKE A TEXTURE HAMMER

An inexpensive hammer can be easily turned into a great texturing tool by grinding a pattern of narrow lines into its face.

The tool I like to use to grind the pattern is a thin separating disc in a Foredom or Dremel. Be sure to hold the hammer and separating disc steady as you carve, and wear those safety glasses to protect your eyes.

For the pattern to work well, a major part of the face needs to be ground away leaving only small areas of high points. That way the high points will have enough force to emboss the pattern into your sheet metal.

My preference is to use small ball peen or cross peen hammers. They are quite inexpensive from tool dealers at swap meets and rock & mineral shows. There is no reason to buy an expensive hammer to experiment with creating your own textures.

And BTW, if you don't like the first pattern you create, simply file or grind it off and try again.

This is just one of the many tips in the new book, "More Bench Tips for Jewelry Making" See a sample chapter at <https://amzn.to/2KCygh4>



Be More Productive With Brad's "How To" Books

www.Amazon.com/author/bradfordsmith

Happy hammering,

- Brad

Notes from the Editor

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Editor's Note: A.E. Foote was a famous American mineral collector and dealer in the second half of the 19th Century. As a part of an ongoing investigation of the history of Colorado mineral collecting, LGGMC member Mark Jacobson wrote this article about Foote and what are probably the earliest illustrations of minerals from the Crystal Peak district. The following article appeared, in somewhat different form, in the January, 2019 issue of "Mineral News".

Albert Edward Foote (1846-1895)
and his Crystal Peak, Colorado Lithographic Pictures

Mark Ivan Jacobson
markivanjacobon@gmail.com

Once the Chair of Chemistry at Iowa Agricultural College, Professor Albert Edward Foote was a vigorous mineral collector for many years before losing his job in November, 1873 (Shaffer, 1872; Dubuque Daily Times, 1873; Marshall, 1873). Isaac J. Mitchell, an attorney on the school's Board of Trustees, stated that "He [A.E. Foote] had a splendid collection there that I considered of great benefit to the institution, and I attempted to harmonize matters so as to keep Professor Foote [employed] there" (Kephart, *et al.*, 1874, p. 382). After Foote's departure in 1874, he stayed in Story, Iowa and competed at the party convention to become a candidate for the United States Congress, representing the Anti-Monopoly Party (Sioux County Herald, 1874). Luckily for the history of mineral collecting, Foote's bid was unsuccessful. With some resulting spare time, he exhibited his collection at the St. Louis Fair in October, 1874, receiving \$200 in prize premiums (Shaffer and Smith, 1875, p. 273).

By August 1875, Foote was traveling around Colorado as an agent for the Kansas Pacific Railway Company, obtaining specimens to exhibit at the upcoming Centennial Exhibition in Philadelphia (Boulder County News, 1875). As a result, he learned about and took advantage of the smoky quartz and amazonite "digging frenzy" that had begun north of Florissant in the area that became known as the Crystal Beds. "A correspondent [in July, 1874], writing from Florissant, says there has been quite an excitement in that locality over some Crystal Deposits lately discovered about seven miles north of Judge [James] Castello's place. A number of fortune-seekers have been camping out there for the last three weeks, and they have met with great success in their searches. Some very large and valuable specimens of Topaz [aka smoky quartz] have been discovered" (Colorado Springs Gazette, 1874).

In October, 1875, before the Centennial Exhibition, Foote added a new mineral exhibit at the St. Louis Fair. “The geological display made by Prof. Foote was a grand one—his collection of quartz crystals from the Hot Sulphur Springs, Ark., throwing far into the shade any that ever came under observation” (Patterson, 1875).

On January 17, 1876, shortly before the Centennial Exhibition began, Foote opened the Naturalist Agency storeroom-showroom at 3725 Lancaster Avenue, Philadelphia (Foote, 1876b). As a result, his huge collection of superior minerals became widely known. His first known advertisement for his store appeared in March, 1876 (Foote, 1876a). On March 27, 1876, C. Chamberlain, at a meeting of the New York Academy of Sciences in New York City, exhibited amazonites from Crystal Peak that he had borrowed from A.E. Foote. These were specimens that were to be exhibited at the soon-to-open Centennial Exhibition (Scientific American, 1876, p. 264).

The U.S. Centennial Exhibition of 1876, in Fairmont Park, Philadelphia, officially opened May 10, 1876 (Ingram, 1876, p. 73). The judging for all exhibits had to be completed and delivered to the commission by July 31, 1876 (Walker, 1878, p. iv). A.E. Foote won an award in group 1, class 100. This award, as noted by Walker (1878, p. 409) in report 38, was cited as “An interesting exhibition of American minerals, together with elementary collections for the study of mineralogy.”

Foote issued his first “minerals for sale” catalog circa August, 1876. In the catalog, Foote (1876c, p. 46) noted that “As this Catalogue is going to press, I learn that I have received the highest award made to anyone, and the only award and medal given to any American, for a ‘Collection of Minerals.’” The Centennial Exhibition closed November 10, 1876 (Ingram, 1876, p. 18). By January, 1877, Foote had moved his store to 1223 Belmont Avenue, at the corner with Toledo Street, in Philadelphia.

Foote’s first mineral catalog listed “Amazon stone” from Colorado (Figure 1). He never explicitly named the locality, but his comments made it clear to local collectors that his specimens came from Crystal Peak, north of Florissant. “I desire to call attention to the fact that I am selling crystallized Amazon Stone, for about one one-hundredth the price that it was ever sold, before 1875, when this locality was discovered. I visited the locality before any except surface specimens had been removed, and have since that time, made six trips to it [reputedly between 1875 and the middle of 1876], and paid out over \$4000.00 to the men who have taken out the specimens.

“The deposit is about forty miles from any village, seven miles from any traveled road, and for this distance, the road has been built through the highest peaks of the Rocky Mountains, just to bring the Amazon Stone out” (Foote 1876c, p. 9).” This verbiage was repeated many times in his later catalogues. In fact, the locality is only 27 miles from Colorado Springs (hardly a mere village even in 1876). The closest well-traveled road was the Ute Pass road which passes through Florissant only 3.4 miles from Crystal Peak. Pikes Peak and the other “highest peaks of the Rocky Mountains” are over 14,000 feet high, while the Crystal Peak region is about 9,000 to 10,000 feet high.



Fig. 1. A typical A. E. Foote label of a Crystal Peak amazonite, circa 1877-1895. Courtesy of John Betts, New York.

For his first catalog, Foote (1876c, p. 48-50) hired Benjamin B. Chamberlin, an avid mineral collector and engraver in New York City, to prepare 24 black and white lithographic pictures of the best specimens he had for sale (Figures 2-6). These pictures showed specimens obtained from Crystal Peak but were labeled as coming from "Pike's Peak", Colorado (Figure 1).

In the catalog, amazonite specimens were illustrated in Figures 9, 15, 16, 17, and 18, (see Figures 2, 3, 4, 5 and 7 in this article). and one smoky quartz crystal was illustrated in Figure 12 (see Figures 8 in this article). With the exception of the smoky quartz, specimen, dimensions in inches were drafted into the pictures. About the amazonites, Foote (1876c, p. 9) states that "The plates given are all copies of actual specimens, and are drawn to scale." The amazonite in Figure 17 (Figure 6 in this article) was so attractive that Chamberlin utilized it as part of his engraver's logo (Figure 6).

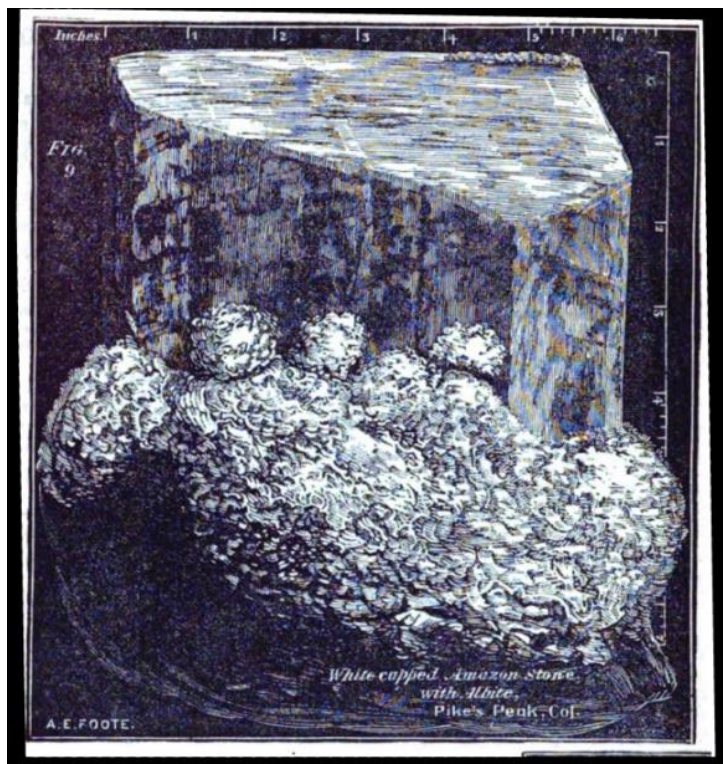
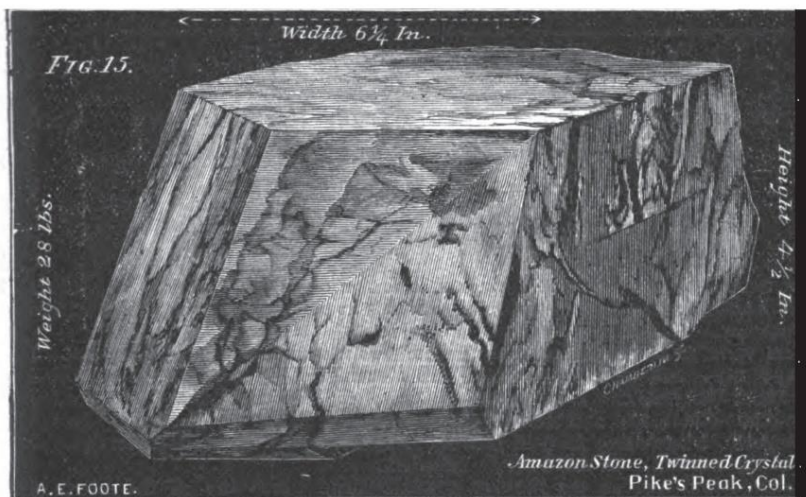


Fig. 2 (Figure 9 of Foote). The specimen was purchased from Foote by Frederick A. Canfield. His collection was donated to the Smithsonian upon his death in 1926. The specimen is in the Smithsonian collection with specimen number NMNH C40.

Fig. 3 (Figure 15 of Foote). Specimen is 4.5 inches high, 6.25 inches wide and possibly 8.0 inches long with a weight of 28 pounds. Theoretical weight with those dimensions is 21.3 lbs (at 2.62 gm/cc). The specimen is stated by Foote (1892) to be in the C. S. Bement collection and the largest single crystal amazonite ever recovered from the locality. This crystal is possibly and not yet confirmed to be the American Museum of Natural History (NY) specimen 9349C, formerly the C. S. Bement collection, purchased in 1877 for \$20.



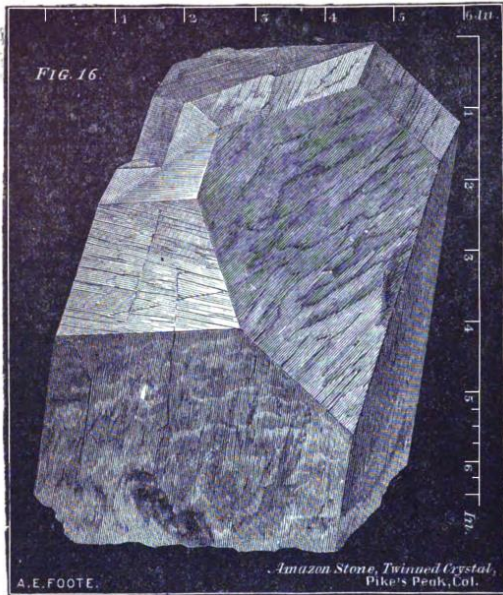


Figure 4 (Figure 16 of Foote). This specimen is 7 by 6 inches and is currently in the Smithsonian Institution, specimen no. 122534.

Fig. 5 (Figure 17 of Foote.) The specimen was purchased from Foote by G. F. Kunz, sold by him to the N. Y. State Museum in 1886 and then illustrated in Kunz (1890, plate 5). The specimen is still in the NY State Collection, no. 51.7.3.7-1.

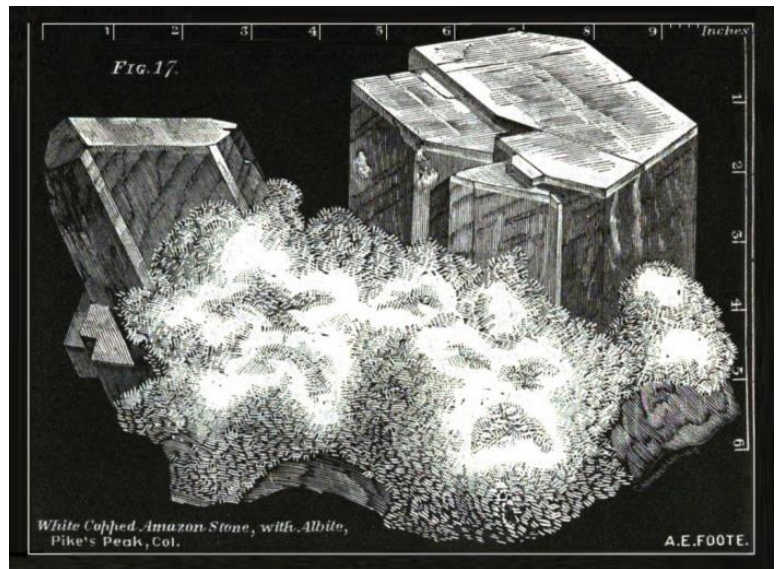


Fig. 6. The amazonite in Figure 17 was used by Benjamin B. Chamberlin, the engraver and New York City mineral collector as his part of his logo for the Foote mineral catalogues.

Fig. 7 (Figure 18 of Foote). Matrix specimen size 5.25 by 3.5 inches. Current location of this specimen is unknown.

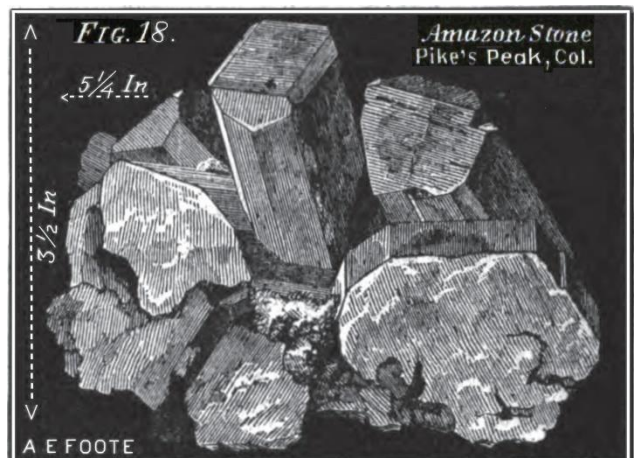




Fig. 8 (Figure 12 of Foote) Size not labeled on plate but this was suspected to be the 4-foot-long smoky quartz described in the Foote's catalog. It is clearly not the same four-foot-long crystal. The current location of this crystal is unknown.

Under quartz, Foote (1876c, p. 9) states that "At Pikes Peak, Colorado, are found smoky quartz that are not excelled even by those of the Alps. We sell them at the rate of ten cents per inch, when under six inches in length, and have those that are over two feet long, one being 4 feet ---- inches. For this one we ask \$150.00"

At the May 21, 1877 meeting of the New York Academy of Sciences, Benjamin B. Chamberlin gave a presentation showing off some of his engraving of choice minerals that were exhibited at the Centennial Exhibition. "Mr. Chamberlin also spoke of the amazon stone from Pikes's Peak, Col., and exhibited beautiful drawings of this green mineral, some specimens of which have sold for \$150" (Scientific American 1877, p. 360).

Foote's later catalogs morphed into his *The Naturalists' Leisure Hour and Monthly Bulletin*. In Volume 3, no. 7 of July 1879, on page 14, the amazonites of Figures 17 and 18 from Foote's (1876c) catalog were illustrated again, still labeled as 17 and 18. In Volume 4, no. 1 of January 1880, on page 13 was an article on quartz showing the Figure 12 smoky quartz from the Foote (1876c) catalog, also illustrated again. He stated that "I have at the Permanent Exhibition [in Philadelphia] a smoky quartz crystal over four feet long and one foot in diameter. It is worth \$75." The amazonite in Figure 9 of his first catalog (Figure 2) was attractive enough to become part of Foote's masthead logo in his *The Naturalists' Leisure Hour and Monthly Bulletin* (Figure 9).



Fig. 9 The crystal of Foote's Figure 9 as used in the Masthead of Foote's *The Naturalists' Leisure Hour and Monthly Bulletin*. This image was also engraved by Benjamin B. Chamberlin.

In 1887, the American Exhibition, in West Brompton, London, opened on May 9 and continued until October 31. A.E. Foote had a major display of minerals and books of "over 150 tons of material" that were offered for sale in his booth (Russell, *et al.*, 1887, p. 127). On October 22, 1887, Foote also gave a Saturday evening lecture on the Gems and Ornamental Stones in the United States, as part of the workingmen's course in the Trophy Hall of the American Exhibition. Accounts of his talk were published in several journals. He wrote that "Probably the most remarkable locality in the world for smoky quartz, or Cairngorm stone, is Pike's Peak [Crystal Peak], Colorado. Here it is found in a graphic granite, associated with Amazon stone, which also makes a very beautiful green ornamental stone. Over £1500 worth of this is annually sold. The largest crystal found—over four feet in length—

of good shape, and all suitable for cutting, was recently sold to the Marquis of Ailsa for £20 (Foote, 1887a, p. 9972; 1887b, c). Kunz (1890, p. 116) repeated the account of the four-foot-long crystal being sold.

In February, 1892, Foote (1892, p. 8-9) wrote in his monthly bulletin "The specimen shown in fig. 15 [same as Figure 15 from Foote's first mineral catalogue; Figure 4 in this article] is the largest [amazonite] one ever found, and is now in the collection of Mr. C.S. Bement. Figure 9 [same as Figure 9 in Foote's first mineral catalog; Figure 2 in this article] is in the collection of Mr. F.A. Canfield.

"*Smoky Quartz, Cairngorm Stone*. The great crystal four feet and ten inches long, exhibited at the Expositions in Philadelphia [1876], London [1887] and Paris [Exposition Universelle, 1889], was sold to the National Museum [Muséum National D'Histoire Naturelle] in the *Jardin des Plantes*, Paris." The above statement refutes the earlier statements that the Marquis of Ailsa had purchased the crystal. Unfortunately, the four-foot-long smoky quartz, which is still in the National Museum, has no resemblance to the crystal illustrated in Foote's Figure 12 (Figure 3 in this article). The acquisition record of the Paris specimen, catalog number 89.169 (meaning it was indexed into the collection in 1889), was kindly provided by Curator Cristiano Ferraris. The crystal was purchased from M. Dubois, who had bought it from Foote.

Conclusion

The current locations of two of the amazonite specimens (Foote's Figures 15 and 18) and the smoky quartz crystal (Foote's Figure 12) illustrated in Foote's first catalog are unknown. These specimens were collected in 1875 and illustrated and sold by A.E. Foote shortly thereafter. In 1876, these were considered to be among the finest specimens ever recovered from Crystal Peak. If any reader suspects where the unknown specimens are currently located, please communicate with the writer.

Acknowledgements

I was graciously helped in gathering this information by a lot of people. The search would not have been as successful without the help of Roy Starkey, Cristiano Ferraris (National Muséum D'Histoire Naturelle), Michael Wise and Paul Pohwat (Smithsonian Institution), Jamie Newman (American Museum of Natural History), John Betts of New York, and Marian Lupulescu (New York State Museum).

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Monthly Mineral Quiz



Insert photo here

Last Month's Mineral: Mineral ID

Text

What is it?

This Month's Mineral



Lake George Gem & Mineral Club

Box 171, Lake George, Colorado 80827

www.LGGMClub.org

MEMBERSHIP APPLICATION

Date: ____/____/20____

Name/s _____

Address _____ City _____ State _____ Zip _____

Telephone (____) _____ - _____ E-mail _____

(Email is required to receive Newsletter and field trip info.)

Names/ages of minor members (if family membership): _____

Dues for Jan. 1 through Dec. 31 each year are as follows:

____ Individual (18 and over) \$15.00

____ Family (includes dependents under age 18) \$25.00

Current year membership renewal and application occurs Jan. 1-March 31, after which membership is closed for the current year. Membership/email list will be purged April 1st for the current year.

MEMBERSHIP MUST BE CURRENT TO PARTICIPATE IN ANY FIELD TRIP OR CLUB CLAIM!

I agree to abide by Club constitution, by-laws, and rules regarding field trips and club claim visits.

Signed _____ Date: ____/____/____

*I am or have previously been a member of Lake George Gem & Mineral Club. Yes ___ No ___

*My interest areas include (check all that apply): Minerals ___ Fossils ___ Lapidary ___

Micromounts ___ Colorado geology ___ Pebble Pups (ages 7-17) ___ Mining history ___

Crystallography ___ Other _____

*I am willing to give a talk/presentation to [the Club] or [Pebble Pups] on _____

and/or lead a field trip to (list) _____

*I am willing to participate/help in the following ways (can choose more than one): Club Officer _____

Newsletter Editor/Writer _____ Local Show/Show Committee _____ Nominating Committee _____

Winter Programs Committee _____ Field Trips ___ Art (Badges) ___ Membership Coordinator _____

Website assistance _____ Pebble Pups _____ Other (be specific): _____

Questions about the Club or Activities? Visit the website or contact a Club Officer. [Updated 1/2018](#)

Lake George Gem & Mineral Club

PO Box 171

Lake George, CO 80827

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Lake George, CO 80827



The Lake George Gem and Mineral Club is a group of people interested in rocks and minerals, fossils, geography and history of the Pikes Peak/South Park area, Indian artifacts, and the great outdoors. The Club's informational programs and field trips provide opportunities to learn about Earth science, rocks and minerals, lapidary work and jewelry making, and to share information and experiences with other members. Guests are welcome to attend, to see what we are about!

The Club is geared primarily to amateur collectors and artisans, with programs of interest both to beginners and serious amateurs. The Club meets on the second Saturday of each month at the Lake George Community Center, located on the north side of US Highway 24 on the east edge of town, sharing a building with the county highway shops. **In the winter, we meet at 10:00AM. From April through October, we meet at 9:00AM, to allow more time for our field trips.**

Our organization is incorporated under Colorado law as a nonprofit educational organization, and is a member of the Colorado, Rocky Mountain, and American Federations of Mineralogical Societies. We also sponsor an annual Gem and Mineral Show at Lake George, where collectors and others may purchase or sell rocks, minerals, fossils, gems, or jewelry. Annual membership dues (Jan. 1 through Dec. 31) are \$15.00 for an individual (18 and over), and \$25.00 for a family (parents plus dependents under age 18).

Our Officers for 2019 are:

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