



FRIENDS OF MINERALOGY NATIONAL NEWSLETTER

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to promote, support, protect and expand the collection of mineral specimens and to further the recognition of the scientific, economic and aesthetic value of minerals and collecting mineral specimens.

Inside this issue:

President's Message	3
Tucson FM Meetings	3
Elections for Board of Directors	4
Museum Theft	6
Colorado Mining Class for Teachers	6
AGI News	7
Mineralogical Symposium	8
All That Glitters	9
Micro Mineral Collector	10
Affiliates	14



This issue will feature the upcoming Tucson show, FM general meeting and Board meeting, and the election of members to fill the four vacant Board of Director's positions. Local FM news will continue in the next issue.—The editor.



www.friendsofmineralogy.org

Friends of Mineralogy on facebook.com

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PRESIDENT'S MESSAGE

The Tucson Show is once again before us and like most of you, I am eagerly anticipating the prospect of spending my days going from one hotel room to the next searching out a specimen or two for my collection. With Minerals of Arizona as the theme, this year's show promises to be another great one. I encourage you to attend the 33rd Annual FM-TGMS-MSA Symposium held on Saturday, February 11 (see program included in this Newsletter).



On Tuesday, February 7, the Friends of Mineralogy will be holding its Annual Membership Meeting (see announcement in this Newsletter). Your participation in activities such as these is as necessary as it is welcome. We want to hear your ideas on how we can better serve our members and further the goals and objectives of the organization. I look forward to seeing you at the meeting. Finally, the Nominating Committee has recommended a slate of candidates for the four vacant directors' positions. A ballot is included with this newsletter, and I encourage you to please cast your vote.

Please have a safe trip and enjoy the show.

Allan Young, President

FRIENDS OF MINERALOGY'S ANNUAL MEMBERSHIP MEETING AND THE BOARD OF DIRECTORS MEETING SCHEDULED FOR TUCSON

The Friends of Mineralogy annual membership meeting will be held on Tuesday, February 7, at 4:00 pm, in the restaurant of the Hotel Tucson City Center (formerly Inn Suites). A social hour will follow the meeting. All Friends of Mineralogy members and prospective members are encouraged to attend.

The Board of Directors meeting will be held on Friday, February 10 at 7:30 am in the lounge of the Hotel Tucson City Center (formerly Inn Suites). Directors and chapter representatives who are planning to attend should RSVP to Regina Aumente (RAumente@aol.com) by February 3 so that we can get an accurate count for breakfast.

INFORMATION BOOTH VOLUNTEERS NEEDED

FM needs volunteers to help staff the FM Booth at the Tucson Show. If you are willing to spend an hour or two during the show to help out, contact Nelson Shaffer at shaffern@indiana.edu and let him know when you could be available.

NATIONAL BOARD OF DIRECTORS ELECTION

Friends of Mineralogy's National Board of Directors includes twelve members elected by the general membership to serve three year terms. Each year four Board positions open and are filled by vote of membership. A nominating committee chaired by Regina Aumente has placed four candidates on the ballot to fill this year's vacancies.

Nominated Candidates:

Jim Etzwiler is an aerospace engineer by training. He has been active in collecting and studying minerals for about the last 18 years. He started out in a local study group which introduced him to the Pacific Northwest Friends of Mineralogy. Participation at several levels increased and he later was elected as president of PNWFM. At the national level he has attended most of the membership and board meetings for the last eleven years representing PNWFM and for about the last seven years he has been maintaining the National FM web site. Jim also participates in the Pacific Northwest Micro-Mineral Study group and the Society of Mineral Museum Professionals.

Suzanne (Sue) Liebetrau has been collecting minerals since she was old enough to walk on gravelled driveways. With her husband Albert (Al), she has built a large collection of specimens from worldwide locations. Sue has taught (high schoolers to university graduates), and for 15 years worked as a technical editor for Battelle Memorial Institute. Now, (though supposedly in retirement) she edits for Lithographie, LLC. Since moving to the Pacific Northwest in 1981, Sue has participated in Pacific Northwest Friends of Mineralogy symposiums, been active in the Lakeside Gem and Mineral Club (a Federation society based in Kennewick, Washington), and helped launch a rock club in central Oregon. Other interests include Native American art, Siamese fighting fish (Bettas), and anything to do with horses. Sue's academic credentials include degrees from the University of Wisconsin (BA), Oregon State University (MS), and the University of Michigan (Ph.D., American Culture).

John Lindell has been a mineral hobbyist for over forty years. His interests began as a field collector, initially while mountain climbing. Later he expanded his interests and his collection through trades and purchases. He first joined the Pacific NW Chapter of Friends of Mineralogy thirty four years ago and has attended every PNWFM Symposium since. His service to that chapter was recognized in 2002 with the Noble Witt award, the group's highest honor. John serves on the National Friends of Mineralogy Board by presidential appointment and is the current Newsletter Editor.

Mark Mauthner's first home was a mining camp in the Yukon Territory (Calumet). His father, Hermann Mauthner, was a miner for United Keno Hill Mines at the time and also operated a gold claim on Steep Creek, Mayo Lake. Mark's first degree is a bachelor of arts in modern languages and political science from the University of Lethbridge in southern Alberta. He returned to university, this time the University of British Columbia, to complete a bachelor of science and a masters degree in geology specializing in mineralogy. During the seven years he spent at UBC, Mark worked for the geology museum as a curatorial assistant and collector shop manager. After college, Mark spent a year as an exploration geologist. He was a founding director of the Pacific Mineral Museum Society and then became its museum director/curator. Mark was enticed to Texas to join the Houston Museum of Natural Science as an associate curator of gems & minerals. He then moved to the GIA Museum as its assistant curator/data management specialist. Economic times saw the GIA's work force cut and Mark has since pursued his passion for photography professionally, already having been a published photographer, including several magazine covers. Mark continues to serve as a museum consultant, and as a part-time miner/sales manager for Oceanview Mines LLC in the Pala District of north San Diego County. He currently serves Friends of Mineralogy as its National Secretary.

Please take the time to support Friends of Mineralogy by voting. You may vote for up to four positions from the nominated candidates or by writing in candidates of your choice who would be willing to serve. Ballot votes may be sent by e-mail to Regina Aumente at raumente@aol.com or by post to Regina Aumente c/o Hotel Tucson City Center, 475 N. Granada, Tucson, AZ 85701. Ballots must be submitted before the Board meeting on February 10th.

Ballot for Friends of Mineralogy Board of Directors—term 2012 –2015

Vote for up to four positions

☐ Jim Etzwiler

☐ Suzanne Liebetrau

☐ John Lindell

☐ Mark Mauthner

☐ write in

☐ write in

☐ write in

☐ write in



Quartz, Green Ridge, King Co., Washington
Collected and photo by Joe George

MUSEUM THEFT AT SANTA BARBARA

On December 10, 2011, there was an early-morning break-in at the Santa Barbara Museum of Natural History. Six specimens were stolen from a display case in their Mineral Hall. These included a 2.9-carat faceted benitoite, a large specimen of benitoite and neptunite, two gold nuggets and two specimens of crystallized gold. Images and brief descriptions are posted on the SMMP website at: www.smmp.net/SBMNH-theft.pdf.

Anthony R. Kampf, Ph.D.
Curator Emeritus, Mineral Sciences
Natural History Museum of Los Angeles County

All About Mining - A Total Concept of the Mining Industry

"All About Mining - A Total Concept of the Mining Industry" is a unique, 4-week, 6-credit recertification class for teachers conducted through the Colorado School of Mines Continuing Education/Teacher Enhancement program. Now in its 44th year, the class is sponsored by the Colorado Mining Association Education Foundation. Its purpose is to show educators, via hands-on practical experience, the importance of mining and related mineral industries to Colorado, the U.S., and the world. Teachers from any grade level and any subject area, science or not, can take the course. It is a mixture of classroom sessions and field trips, including a three-day trip to western Colorado, with visits to such sites as underground and open pit coal mines, a power plant, the Cripple Creek & Victor gold mine, the Henderson molybdenum mine, a steel mill, a gypsum mine and sheetrock plant, and more. I myself help lead one of the field trips and give one or two of the lecture presentations for this class. Over the years I have met many teachers who have taken the course (over 1400 have done so), and everyone who has, counts it as one of the most unforgettable experiences of their lives. The tuition fee is \$250, which covers tuition-credit costs, but a greater amount in trip and class-related expenses is covered by the sponsoring organizations. Some scholarship assistance is available and can be applied for to defray expenses for participants who live beyond daily commuting distance to the CSM campus; teachers from any part of Colorado and from anywhere in the U.S. are encouraged to apply to attend the class (past attendees have come from all corners of the U.S., including Alaska). The CSM-Continuing Education registration page for the class is at, <http://te.csmspace.com/register.php?c=48> with more information posted at: <http://www.allaboutmining.org/Register.htm>.

The 2012 class will run from June 11 through July 6.

The photo is from a past session of the class (2007), participants with an ore-hauling truck at the Cripple Creek and Victor (Cresson) gold mine.



In the past few years, sign-ups for this course have been slow in coming, and the number of registrants has not filled the class to capacity. Please if you can, help us insure that the class continues into the future by spreading awareness of it by passing this information on to any teachers you may know. Thank you!

Sincerely, Pete Modreski, USGS

AGI NEWS

The **American Geosciences Institute (AGI)** welcomes the **Canadian Federation of Earth Sciences (CFES)** as the third member of the International Associates Program.

Established in 2010, AGI's International Associates (IA) Program provides professional geoscience organizations based outside of the United States with a way to develop a formal collaborative and informational relationship with the Institute. Previously, AGI had only accepted member societies that resided within the United States or that had a large number of their members within the U.S. The IA Program provides an avenue for continued geoscience cooperation abroad and emphasizes the importance of global collaboration in promoting Earth science. The Youth Earth Science Network (YES Network) and the Geological Society of Africa (GSAf) are also members of AGI's IA Program.

The Canadian Federation of Earth Sciences, founded in 2006, acts as the unified voice for Earth science in Canada, and strives to raise awareness of the importance of geoscience in Canadians' daily lives. The Federation consists of twelve Canadian member societies and two cooperative groups. Their members represent organizations from industry, government and academia, and CFES has a total membership of approximately 20,000 Canadian geoscientists.

This new partnership will greatly enhance both AGI and CFES' abilities to engage new audiences about the importance of geoscience. Currently, AGI and CFES are collaborating to promote CanGeoRef, a bibliographic geoscience database that covers the Canadian geoscience literature from the early 1800s to the present.

The **American Geosciences Institute (AGI)** and the **American Institute of Professional Geologists (AIPG)** have teamed up to launch the Geoscience Online Learning Initiative (GOLI). This joint effort seeks to build a portfolio of online learning opportunities to help support the professional development of prospective and early-career geoscientists as well as addressing topics of interest to the broader geosciences profession. GOLI courses will support both synchronous and asynchronous online learning, and count toward continuing education units (CEU's).

AGI and AIPG are pleased to announce the first three webinar events of GOLI. Details of the webinars are available at: <http://www.aipg.org/e-mail/GOLI.html>.

The topics, times, and presenters are:

Global Energy Resources: Current Trends and Short Term Predictions. January 18, 2012, 2:00 pm EST.
Presented by **Ronald J. Wallace**, President-Elect, AIPG

Critical and Strategic Minerals: Concepts and Status. February 1, 2012, 2:00 pm EST.
Presented by **Jim Burnell**, Colorado Geological Survey

Effective Power Point Presentations. February 22, 2012, 2:00 pm EST.
Presented by **Chris Mathewson**, Texas A&M University

The 33rd Tucson Mineralogical Symposium sponsored by the Friends of Mineralogy, the Tucson Gem and Mineral Society and the Mineralogical Society of America will be held on Saturday, February 11, 2012 at the Tucson Convention Center. Admission is free and everyone is welcome. *Minerals of Arizona* is the theme of the 2012 Tucson Show and the subject of the symposium. Arizona became a state in 1912 and statewide celebrations of the Centennial are planned in 2012. The Tucson Show theme and the symposium are a part of this anniversary celebration.

33rd Annual FM-TGMS-MSA Mineralogical Symposium **The Minerals of Arizona**

10 am to 4 PM Saturday February 11, 2012
Crystal Ballroom, Tucson Convention Center

Program

- | | |
|-----------------|--|
| 10:00 - 10:10 - | Welcoming Remarks and Introductions – Symposium co-chairs, Julian Gray and Raymond Grant |
| 10:10 – 10:30 – | The Mineralogy of Arizona: Past, Present, and Future - Marcus Origlieri and Raymond Grant |
| 10:30 – 11:00 - | History and Development of Mining in Arizona before Statehood (1912) – Jim McGlasson |
| 11:00 – 11:30 - | How Minerals from Bisbee helped Arizona gain Statehood – Richard Graeme |
| 11:30 – 12:00 - | Gemstones of Arizona – Wolfgang Mueller |
| 12:00 – 1:30 - | Lunch Break |
| 1:30 – 2:00 – | Mines and Minerals of the Amole District, Tucson Mountains, Pima County, Arizona – Anna Domitrovic |
| 2:00 – 2:30 – | Tombstone..The Town too Tough to Die...Shady Ladies, Shootouts and Tellurium Minerals – Peter Megaw |
| 2:30 – 3:00 – | 150 years of mining, 100 years of Statehood, 50 years collecting Arizona - Les Presmyk |
| 3:30 – 4:00 - | Arizona Gold – Erik Melchiorre |

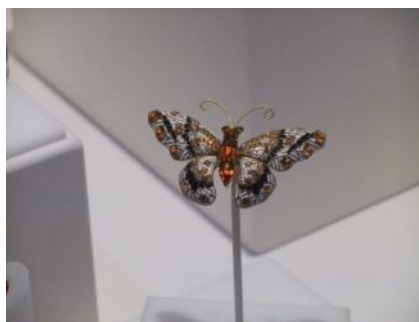
ALL THAT GLITTERS—Allan Young

I recently made a weekend trip to San Diego to take in an NFL game (Packers/Chargers), and having the better part of two days free, I was looking for interesting diversion of the mineralogical variety. Faced with this situation, I usually seek out collections, either public or private, that I can visit. It did not take long to discover “All That Glitters – The Splendor & Science of Gems & Minerals,” a special exhibit that has been on display since May of 2010 at the San Diego Natural History Museum in Balboa Park (<http://www.sdnhm.org/exhibits/allthatglitters/>). The exhibit features



spectacular mineral specimens alongside exquisite pieces of jewelry, with some of these objects on display for the first time ever. Featured were minerals of California, with a special emphasis on gemstones of San Diego County. The case of Tourmaline specimens and cut stones was outstanding, as were the benitoites and California golds. The jewelry on display was equally dazzling. Especially interesting was the collection of 13 butterfly brooches, each beautifully designed and set with sparkling gemstones. But most notable among the jewels was the “Red Wonder” cross, containing 11 extremely rare red diamonds. I could go on, but

suffice it to say that if you find yourself anywhere near San Diego in the next few months (the exhibit closes April 8, 2012), make time to see this. You will not be disappointed.



The Micro Mineral Collector

By Bob Meyer

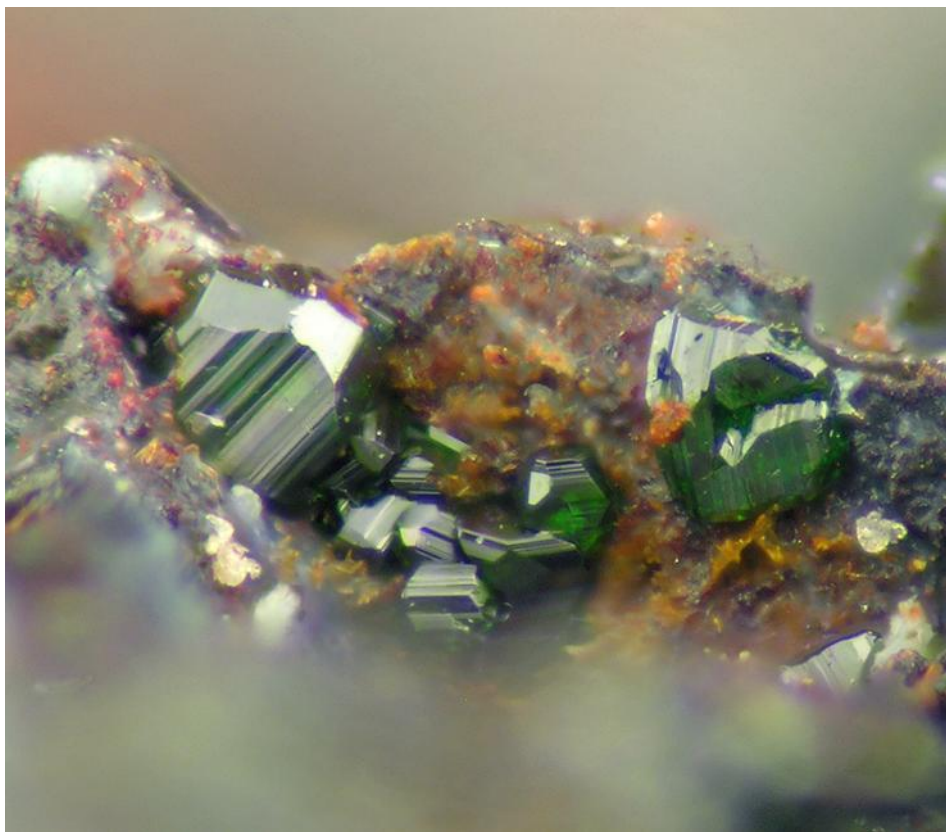


Bright blue crystals of Linarite, forming a cross-shaped group 4.5 mm across, from the Tranquility Mine, Contention-Grand Central Mine group, Tombstone District, Cochise Co., Arizona.

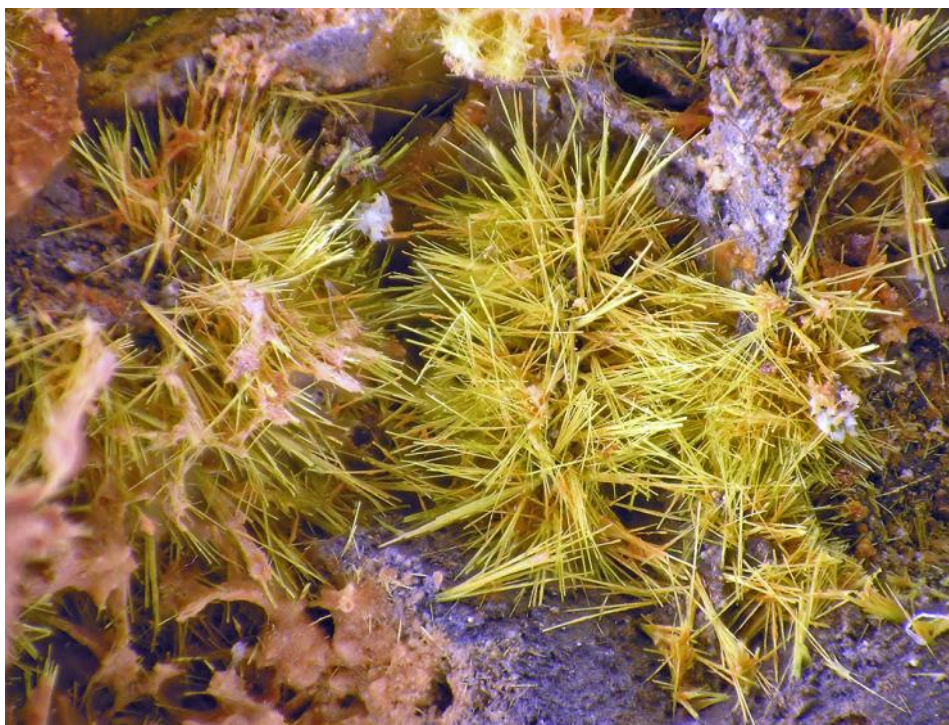
Buy and Use a Good Microscope—*adopted from Neal Yedlin*

A micro mineral collector is a collector who uses a microscope to study minerals, and who from this pursuit can gain a deeper level of understanding concerning mineralogy and mineral specimens. Micro mineral collectors do not necessarily and perhaps do not usually, collect micromounts or mount tiny specimens in boxes. Indeed, large specimens with large crystals are excellent candidates for micro exploration, as one observes inclusions, growth features, or previously undetected associated minerals.

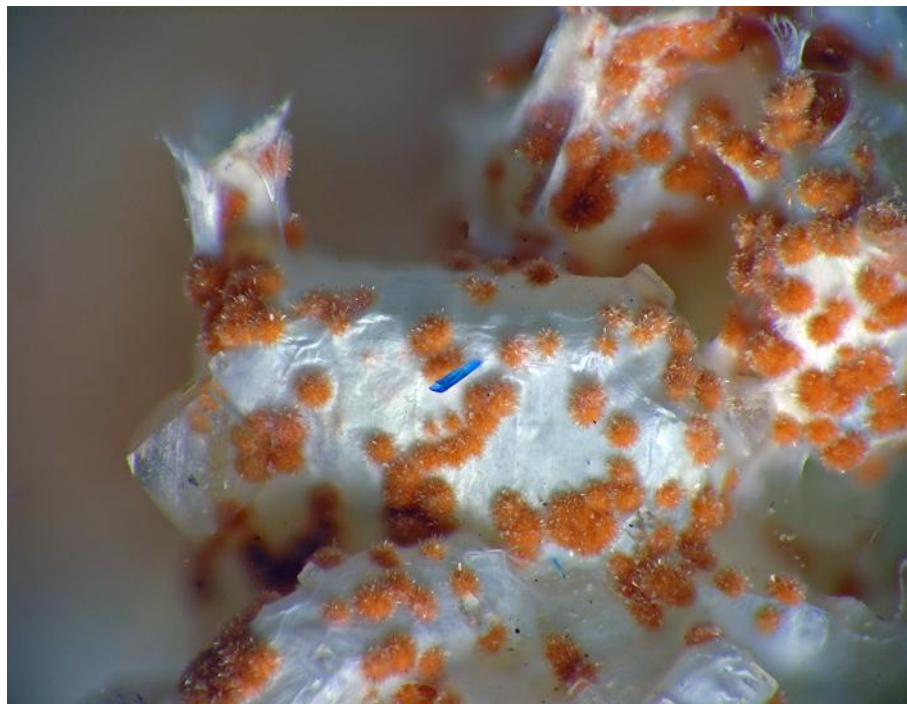
This year, the topic of the upcoming Tucson Gem and Mineral Show will be Minerals of Arizona, and to honor that theme, I have included below some of my favorite photographs of micro minerals from Arizona. I hope that you enjoy them.



Superb, brilliant complex green crystals of Namibite associated with Chrysocolla from Copperopolis, Yavapai Co., Arizona. Collected by Joe A. Ruiz. The field of view is 0.9 mm.



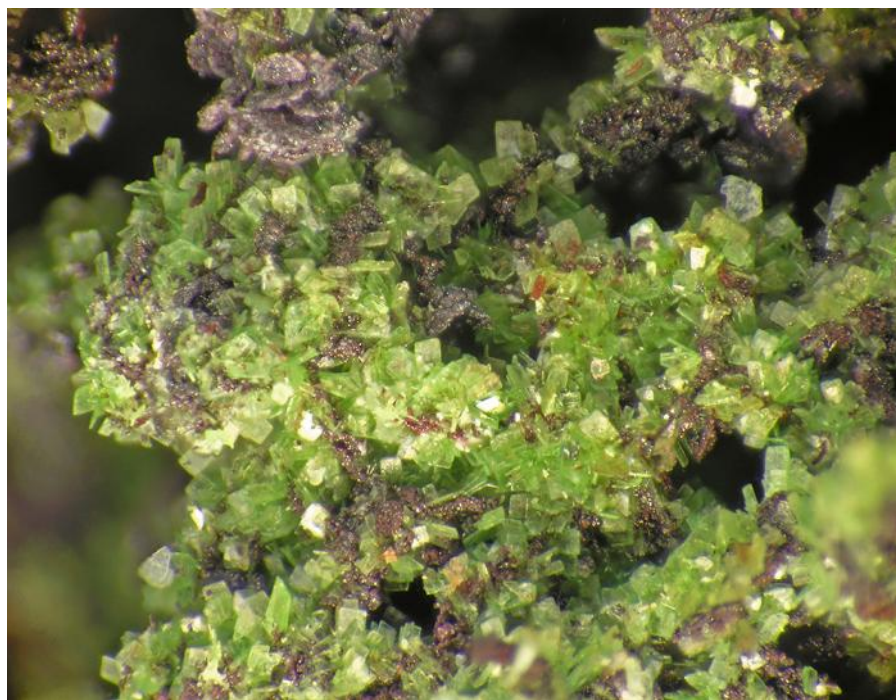
Mottramite variety Duhamelite as yellow acicular sprays from Copperopolis, Yavapai Co., Arizona. The field of view is 4 mm. Collected by Joe A. Ruiz.



Orange hemispherical sprays of Ruizite on white cottony Xonotlite with a bright blue crystal of Kinoite.

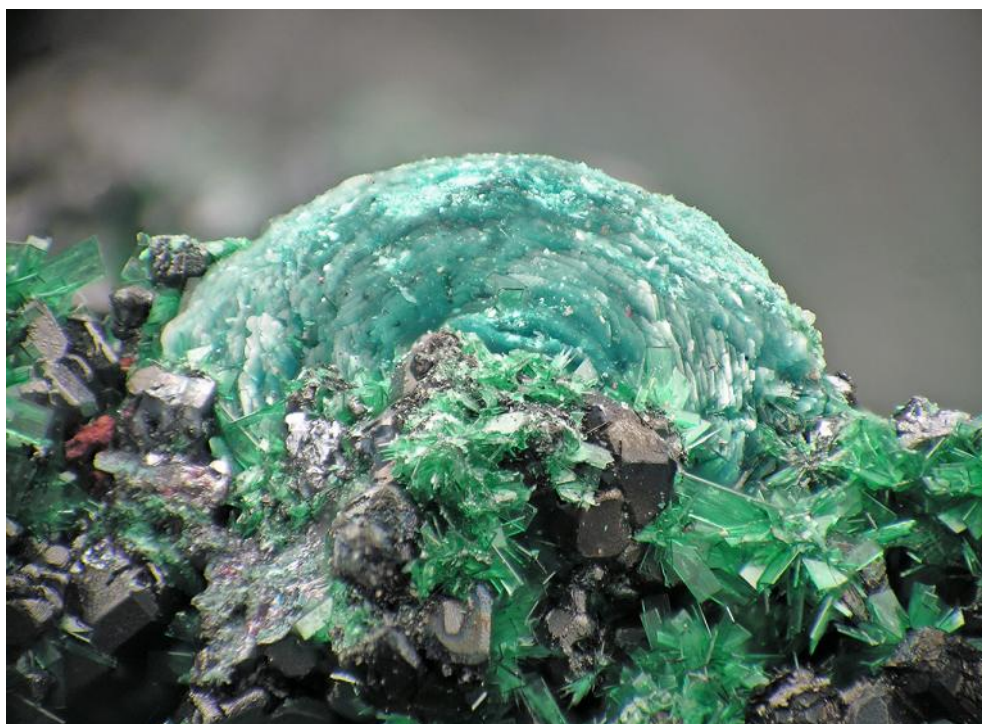
From the Christmas Mine, Dripping Spring Mts, Gila Co., Arizona.

Underlying the layer of Xonotlite are crystals of Apophyllite-(KF). The field of view is 3.0 mm.

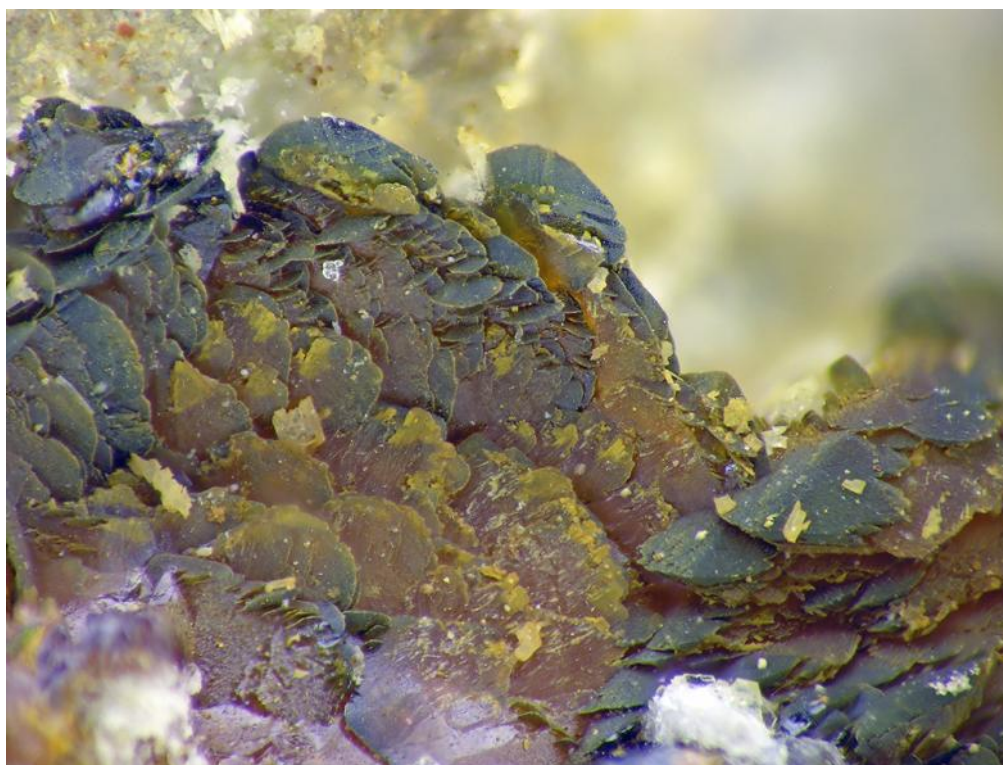


Superb green tabular crystals of Chenevixite on matrix from an Unnamed prospect, Humboldt Mine area, Harshaw District, Patagonia Mts, Santa Cruz Co., Arizona.

The field of view is 0.7 mm. Collected by Joe A. Ruiz on January 2, 2009.



A blue-colored rosette of Claringbullite from Bisbee, Arizona with green bladed Brochantite crystals on dark crystals of Cuprite. The field of view is 5 mm.



Orange Iranite replacing and pseudomorphous after Fornacite from the Evening Star Mine, Tiger Wash, Maricopa County, Arizona. Collected by Joe A. Ruiz. The field of view is 4.1 mm.

FM AFFILIATES



The Friends of Mineralogy is a long-time affiliate of *The Mineralogical Record* magazine. The magazine was founded in 1970 by John White, who was at that time a curator in the Mineral Sciences Department of the Smithsonian Institution. With the initial help of a financial backer, Arthur Montgomery, White succeeded in launching and bootstrapping the fledgling publication to the point where it was marginally self-sustaining. After seven years as editor and publisher, White stepped aside for a new Editor, Wendell Wilson. Since then the *Mineralogical Record* has grown steadily in size, quality and prominence, thanks to the contributions of over 700 authors, photographers, artists, advertisers and donors. It has become a collective labor of love on the part of the entire mineralogical community worldwide. It is the only journal to have a new mineral species named in its honor (minrecordite), and it is the only journal to have received the Carnegie Mineralogical Award. Subscriptions, back issues, books and a variety of free databases are available online at www.MineralogicalRecord.com.

The advertisement features a green background. On the left is a small image of the "Rocks & Minerals" magazine cover. To the right of the cover are four photographs of mineral specimens: a red crystalline mineral, a white mineral, a green translucent mineral, and a yellow-orange mineral. Below these images, the text "For Everyone Interested in Minerals, Rocks & Fossils" is written in white, followed by the website "www.rocksandminerals.org" in white.

Rocks & Minerals

For Everyone Interested in Minerals, Rocks & Fossils
www.rocksandminerals.org



MINERALOGICAL SOCIETY OF AMERICA

If you are interested in earth, planetary, industrial, or biologic minerals or mineral-like materials, you may want to learn about the Mineralogical Society of America



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