



PNWFM

President's Message Toby Seim

No report submitted

Inside this issue:

President's Message	1
Finding a Sense of Minerals	2
PNWFM Symposium News	3-4
PNWFM Symposium - Call for exhibits	5
Russian Minerals	6-10
A Plea and ads	11
Mineral Meeting Calendar	12



Blue-green Quetzalcoatlite on yellow Leisingite
from North Star Mine, Tintic District, Juab Co., UT
FOV: 1.8 mm
Specimen gift from Brent Thorne. Photo by Bruce Kelley

PNWFM Contacts

Toby Seim
President
Pnwgemcollectors@gmail.com

Gary Hinderman
Vice President
gkmhind@comcast.net

Karen Hinderman
Secretary
gkmhind@comcast.net

Bruce Kelley
Treasurer
bruce.kelley@gmail.com

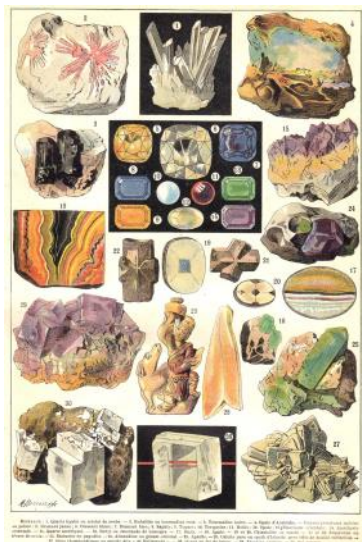
Jessica Robertson
Symposium Chairman
jar7709@hotmail.com

Bruce Kelley
Webmaster
bruce.kelley@gmail.com

Beth Heesacker
Newsletter Editor
heesacker@coho.net

Finding a Sense of Minerals- Thoughts of a PNW Field Collector

By Sal Noeldner



The world of mineralogy can seem daunting to a beginning field collector. Long words which don't make much sense and names of minerals which are unique and specific to attributes observed should confound anyone for at least a minute. This writer can only report the need to learn a sampling to begin to understand what you have found (and possibly where to find more).

Learning about geology, mineralogy, and crystallography outside of the realm of traditional schooling is possible and may be the only way geological explorers can teach themselves how to follow in footsteps of those who climbed such mountains before, although difficult at first. Scrapping for pretty rocks can sometimes change to a passion which takes the rare individual to places others do not go, perhaps risky to life and limb. A reasonable and consistent pattern of reaching this sense of persistent risk can actually help some people thrive back home where mundane reality of bill paying and surviving can be trying at times.

Finding a new deposit of crystalline minerals when many have tried before is extremely difficult in the lush undergrowth of the Cascade foothills, but very exciting. After (sometimes many) exploratory outings, eventually a person who perseveres (and survives) will discover a crystalline mineral outcrop not seen well by someone before; the only tools needed are the eyes of the beholder to soak it in.

These memories are the true value cherished by mineral collectors. The first sight of a find (whether an aesthetic specimen or new location) is something to take the breath away; you may gasp. Intrinsic value of extracted specimens is often not important. The taking of samples which are representative of the locality can both further mineral knowledge and widen the range of people who may begin to appreciate our local, PNW mineral diversity.

As minerals degrade with time once exposed to the elements and specimens are mainly discovered (and destroyed) in the quarrying or mining for needed materials, a miniscule amount might possibly survive. These specimen survivors are appreciated by some much like endangered animals or plants are appreciated by others. There can be a sense of honor in preserving them from destruction over time. However, knowing what you are looking at or holding allows for the discovery to mean more to others and may allow you to learn something additional for future discoveries. It can be hard not knowing how to describe what excites you greatly!

Discovery of new minerals in the PNW has happened before. There are many yet to be found, any one of which may hold a key to increasing our sustainability on this planet. The diversity of minerals and lifeforms in the rugged Cascades is outstanding! Some secondary minerals are actually created through organic pathways! Amateur appreciation is one of the most important routes for discovering something new; to do this we must look for recognizable patterns and apply what we have learned with a finder's intuition.

Good Luck!





PNWFM Symposium Update – October 16, 2021 *Minerals of Africa*

We know that everyone would love to get together in Kelso next month for a live symposium, but that is just not the world we live in right now. So, this year's symposium will be in the same Zoom format as last year. This worked to our benefit for this year's theme: ***Minerals of Africa!*** We will have six talks, all presented on Saturday, October 16. Five talks will be on our Africa theme, and one will be local to the

Pacific Northwest. Bryan Swoboda will be working with our speakers to record their talks and will apply his Blue Cap Productions magic to give them the professional polish that he is famous for. We will send a detailed schedule and Zoom instructions in advance, but we expect the start time to be 11 AM, Pacific Time.

The symposium will be presented via the Zoom platform so that all current members of PNWFM and guests will be able to join in. You will be able to ask questions of the speakers via a chat feature. There will be no registration fee for this virtual symposium.

Related: See Julian's article about this year's virtual display case on page 5!

The Minerals of South/Central Morocco

David Joyce (presenter) and Raymond McDougall (contributor). David Joyce has been a mineral collector since he was 12 years old, growing up in rock and mineral bereft Toronto, Ontario, Canada. He left Toronto at 19 years of age to attend the Haileybury School of Mines and upon graduation worked across Canada in the explosives and mining businesses. He later worked for mining and engineering contractors in the field of designing and building mining complexes his last real job was Vice President, Business Development for SNC-Lavalin Engineers and Constructors. David was an adjunct Professor at the University of Toronto for eight years, was past vice-president of the Canadian Institute of Mining and Metallurgy (CIM), past Chair of the Toronto Branch of CIM, Past President of the Walker Mineralogical Club and a founder of the Young Toronto Mineralogist Club (going 22 years now!). He has also served as director on the boards of several public and private companies.

David Joyce has had a mineral business either full or part time for over 35 years and that is now his occupation. He is also a song writer/musician and has released a compact Disc recording, "Nuggets and High Grade" of his mineral collecting and Mining-related songs. He recently released a popular music video entitled "*Diggin' in a Hole*".

DANGERS IN LONG GRASS: Mineral Collecting in the Republic of the Congo

Demetrius Pohl has been collecting minerals ever since, when, as a young boy on a camping trip with his family to the tungsten and moly mining areas of New England in New South Wales, Australia, he found a topaz crystal in Oban creek. He still has it. After a false start in architecture, he switched to geology earning a Ph.D. from Stanford in geochemistry. His career yo-yoed between industry and academia with a stint as associate curator at the

American Museum of Natural History, and teaching at Columbia, but most of his career was spent in mineral exploration in Australia, South America, and Africa. With college friends he started his own mineral exploration company focusing on Africa and South America. Fortunately, this venture was sold after more than 20 years and some successes, to some optimistic investors in London and he is now retired, restoring old houses, tending his mineral collection, and trying to travel with his wife, Chris.

The Kalahari Manganese Field: South Africa's most famous mineral locality

Bruce Cairncross obtained his Master degree from the University of Natal in 1979 and, after working for Rand Mines Ltd coal division, joined the University of the Witwatersrand obtaining his PhD in 1986. He then joined Rand Afrikaans University (RAU) Geology department, where he served as Head of Department for 14 years, from 2003 to 2016, during which time RAU merged with the Witwatersrand Technikon to form the University of Johannesburg (UJ) and he is currently Professor of Geology at UJ. Bruce has written 11 books on southern African minerals and gemstones and published over 150 articles on the same topics. He serves on the Editorial Board of *The Mineralogical Record* and *Rocks & Minerals* and many of his articles have featured in these two publications. He is an accomplished photographer and has won local and international awards for his mineral photos.

Minerals, Mines and Geology of Namibia **Bruce Cairncross**

The Evolution of Ruby Sources in East-Africa

Wim Vertriest graduated from the Catholic University of Leuven (KU Leuven) in Belgium. He obtained a masters in Geology in 2014, specializing in 'Geodynamics & Geofluids' and gained his FGA and GG diplomas. Since joining GIA in 2015, Wim has participated in GIA Field Expeditions to numerous gem mining areas around the world focusing on ruby, sapphire, and emerald. He has (co-)authored articles on new gemstone localities, updates on existing mining localities, in-depth gemological studies, and treatment experiments. In his role as manager, Wim is overseeing the field gemology department and is in charge of GIA's colored stone research collection in Bangkok.

Rocks, Minerals & Geology of the Pacific Northwest

Leslie Moclock (presenter) and Jacob Selander (co-author). PNWFM members know Leslie Moclock for her museum curatorship and displays and presentations at our last few symposia. She earned an MS in geology from the University of California–Davis, where she taught field and laboratory geology. She held the position of curator at the Rice Northwest Museum of Rocks and Minerals in Hillsboro, Oregon, for five years, where she enjoyed many opportunities to bring science to the public. Many of you know that she was working on a new book, and it has arrived! In *"Rocks, Minerals, and Geology of the Pacific Northwest"* she and co-author Jacob Selander present the minerals and geology of our little corner of the planet in a fresh and geologically interesting way:

<https://www.amazon.com/Minerals-Geology-Pacific-Northwest-Timber/dp/1604699159>

2021 PNWFM Fall Symposium – CALL FOR EXHIBITS

As with last year, the PNWFM Symposium exhibits will once again be in a virtual format. Members wishing to have a mineral case for the 2021 PNWFM fall symposium can submit photos for virtual exhibit case. These photos will be made into a virtual exhibit case: a looping slide show on our website and social media. This will give exhibitors a chance to showcase their collection and draw attention to our upcoming symposium.

Please consider submitting a virtual exhibit case and send individual specimen images to Julian Gray, juliangrocks@gmail.com no later than September 30, 2021. Please try to keep the number of photos to fewer than twenty and include the mineral name(s), location, dimensions, and photographer. If any specimens are loaned to you, please also indicate this. Photos can be any format, but must be of high resolution. Send a sample photo to Julian if you want to verify the resolution is sufficient. If your virtual case has a theme, please include a title and a short paragraph describing the case. While our symposium theme is African Minerals, you do not have to stick with that theme. Since this is entirely based on photographs, this is a great opportunity to show off micro-minerals which are normally not suitable for an exhibit case at a show.



Wes Gannaway collecting Cuprian Adamite and Arseniosiderite at Gold Hill Mine in Tooele Co, UT - June 2021.



Bruce Kelley, John Meek and Wes Gannaway in "our happy place:" Lovelock Mine, Churchill Co., NV - June 2021.



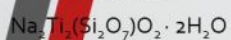
Micro Minerals from Russia

Beth Heesacker collection

Ex Allen and Barbara Lundgren collection

Purchased from Michael Shannon in Tucson, 2020

Murmanite



Astrophyllite Creek, Khibiny Massif, Kola Peninsula, Russia



RU A 07a fov 4.5 mm

Ilmenite



Marchenko Peak, Khibiny Massif, Kola Peninsula, Russia



RU B 04 fov 3 mm

Aegerine

Marchenko Peak, Khibiny Massif,
Kola Peninsula, Russia



RU B 06 fov 3 mm

Labuntsovite

Khibiny Massif, Kola Peninsula,
Russia



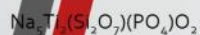
RU D 02 fov 3 mm

Natrolite

Kirovsky Mine, Khibiny Massif,
Kola Peninsula, Russia



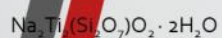
RU X 17 fov 4.5 mm

Lomonosovite

Koashva Open Pit (Vostochnyi Mine), Koashva Mt, Khibiny Massif, Murmansk Oblast, Russia



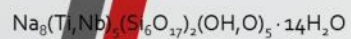
RU X 25 fov 4.5 mm

Murmanite

Mt Flora, Lovozero Massif, Kola Peninsula, Russia



RU E 09 fov 4.5 mm

Zorite**Raite**

Yubileinaya pegmatite, Karnasurt Mountain, Lovozero Massif, Kola Peninsula, Russia



RU E 11 fov 3.75 mm

Phlogopite

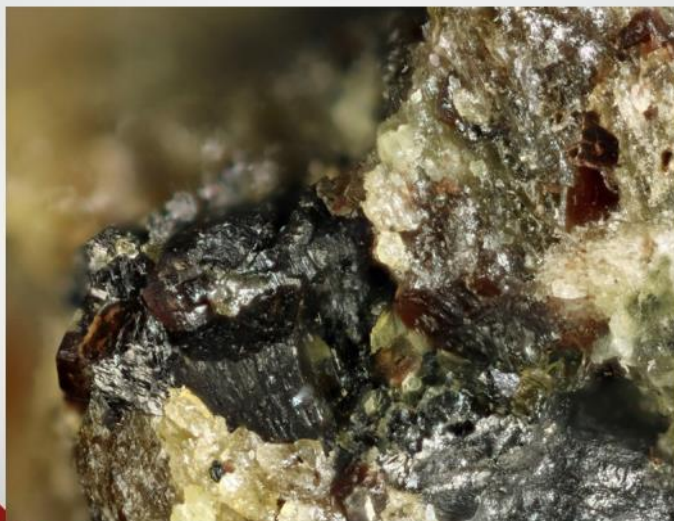
$\text{KMg}_3(\text{AlSi}_3\text{O}_{10})(\text{OH})_2$
Kovdor Massif, Murmansk
Oblast, Russia



RU F 06 fov 2 mm

Tetraferrophlogopite

$\text{KMg}_3(\text{Fe}^{3+}\text{Si}_3\text{O}_{10})(\text{OH},\text{F})_2$
Kovdor Massif, Murmansk
Oblast, Russia (TL)



RU F 07 fov 4 mm

Clintonite

$\text{Ca}(\text{Mg},\text{Al})_3(\text{Al}_3\text{Si}_3\text{O}_{10})(\text{OH})_2$
Kovdor Massif, Murmansk
Oblast, Russia



RU X 13 fov 4 mm

Stilbite-Ca

Bazhenovsk Deposit, Asbest,
Sverdlovsk Oblast, Russia



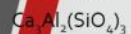
RU G 03 fov 4.5 mm

Vesuvianite

Bazhenovsk Deposit, Asbest,
Sverdlovsk Oblast, Russia



RU G 06 fov 4 mm

Grossular

Cava Ahkmatov, Miass,
Chelyabinsk Oblast, Russia



RU I 01 fov 3.75 mm

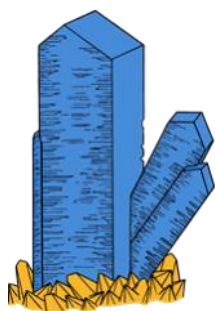


Editor's Plea

Please, we need your articles and mineral photos to make this the newsletter what it should be.

**Please email articles and photos to
heesacker@coho.net**

**The next deadline will be
December 1st**




**Interested in a
wonderful resource for
teaching
children about
minerals?**

**Check out the books and
other resources at
Diamond Dan Publications.**

<http://www.diamonddanpublications.net/>

Swarf Systems

Makers of tools for mineral collectors,
including:

- Rock splitters/trimmers in two sizes
- Microscope lights
- Photography lights 
- Spare parts of all kinds and repairs
- Custom equipment – inquire
- Affordable prices, quality products and service

On the web at:

www.SwarfSystems.com



PACIFIC NORTHWEST
CHAPTER
FRIENDS OF
MINERALOGY

www.PNWFM.org

Editor, Beth Heesacker

4145 NW Heesacker Rd.

Forest Grove, OR 97116

heesacker@coho.net

MINERAL MEETING CALENDAR

2021:

NCMA Symposium - **Cancelled**

PNWFM Symposium - **October 16th - Zoom**

NW Micro Mineral Study Group - November , **Cancelled**

2022:

Seattle Mineral Market - **TBD**

The Hangar 30 building at Magnuson Park
Seattle, WA

MSSC Conference - **TBD**

NW Micro Mineral Study Group - May, **TBD**

Stay Safe and Healthy!