

HUI PŌHAKU 'Ō HAWAII

Rock & Mineral Society of Hawai'i, Inc.



Meeting Times

MEETING

Wednesday
June 27, 2018

6:15-8:00 pm

Makiki District Park
Admin Building

NEXT MONTH

Red, White and Blue
Minerals

LAPIDARY

Every Thursday

6:00-8:30pm

Makiki District Park
2nd floor Arts and
Crafts Bldg

MEMBERSHIP

DUE COSTS 2018

Single: \$10.00

Family: \$15.00

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Hawai'i, Inc.
P.O. Box 23020
Honolulu, HI
96823-3020

Metallic By Dean Sakabe

In previous months we had Lead based Minerals and Iron Based Minerals. For June, we are just going with Metals in Minerals. So what are we talking about? Well this is sort of a broad category. It includes the previous Lead and Iron months, and includes all of the other metals which were not included.

We are talking about minerals as simple as Titanium Dioxide, otherwise known as **Rutile**. This really skinny mineral is responsible for nice Rutiled Quartz. Small needles oriented in particular ways are also responsible for the asteriated gems, such as Star Sapphires and Star Rubies. Another nice lapidary type occurrence, although it is not always Rutile, but sometimes contains rutile is Sagenite Agate.



Benitoite; Dallas Gem Mine, San Benito Co., California

Another mineral with Titanium in it is that lovely blue gem **Benitoite**. This Barium Titanium Silicate is the official gemstone of California. It was named for the occurrence where it was first found. Near the San Benito River in San Benito County. It is possible to still find small specimens of Benitoite at the Benitoite Mine, however these are getting harder and harder to find.



Rutile protruding from Quartz; Brazil

Wulfenite is a Lead Molybdate, which normally occurs in thin tabular crystals of yellow, orange, and red. Wulfenite was first described in 1845 for an occurrence in Bad Bleiberg, Austria. A notable

Metallic Minerals

occurrence is the Red Cloud Mine in Arizona. The Los Lamentos Area in Mexico has produced thick orange tablets.



Photo from U. S. Geological Survey
 © DakotaMatrix Etta Mine. Large Spodumene Crystals

South Dakota. The largest reported as being 47 feet long.

Zincite, this simple but relatively rare zinc oxide is found primarily in the smelter smokestacks in Poland. However Zincite combines with silicon, iron and oxygen to form the minerals Franklinite (Zinc Iron Oxide) and Willemite (Zinc Silicate). These two are found along with calcite at the florescent minerals mecca of the world, Franklin and Ogdensburg, NJ.

Covellite, is a simple Copper Sulfide that has a unique iridescent display. It has a



Zincite, China

Lepidolite has a very long formula, with Lithium, Aluminum and Silicon in it. Let us just say that it is the most abundant Lithium bearing Mineral which happens to be found in the Pala area famous for its Tourmalines.

Spodumene is an Lithium, Aluminum, Inosilicate also found in the Pala Region. In particular the varieties of Kunzite, with its Purplish sort of color. There is also the greenish variety called Hiddenite. Massive single crystals of Spodumene have been found in the Black Hills of



Wulfenite; Mibladen, Morocco

strong metallic blue and purplish color, when from the Butte, Montana area is a lapidaries dream. The odd name of Covellite can from the Italian mineralogist, Niccolò Covelli, who discovered this mineral. Now this mineral should not be confused with Chalcopyrite (peacock ore, Copper Iron Sulfide) or Bornite (peacock ore, Copper Iron Sulfide), which are both harder, but without the iridescence of Covellite.

Officers

President

Matthew Martin

Info@naturalhistorylab.com

Vice President/ Admin.

Jon Bly

BLYJ1966@gmail.com

Vice President/ Lapidary

Dean Sakabe

Dean.d.sakabe@verizon.com

(808) 282-6681

Treasurer

Debbie Iijima

Secretary

Blair Isitani

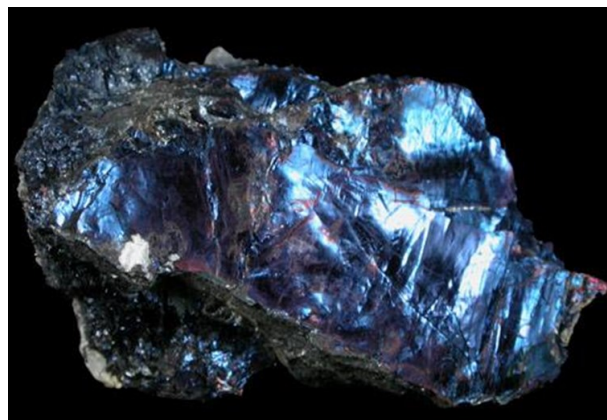
Newsletter Editor

The Rock & Mineral Society meets on the 4th Wednesday of each month (except for adjusted dates in November and December) at the Makiki District Park, 6:15-8 pm. Enter from Keeaumoku Street. Parking is free but limited.

The Newsletter is published monthly, some days prior to the meetings and is distributed in electronic format by email (Adobe Acrobat PDF file attachment). Printed copies are "snail" mailed to those who do not have email. The electronic format usually contains full-color images; the print version may be limited to B&W due to reproduction costs.

DOOR PRIZES

Please note that we have instituted door prize drawings at our monthly meetings. Because of Hawaii's gambling laws, these drawings cannot be conducted in the common "raffle" format where tickets are sold. Rather, each *paid* member attending the meeting will receive a drawing ticket upon request. A voluntary donation of \$1.00 is requested and encouraged. Drawings will be conducted at the end of the meeting with available prizes awarded in random order. You must be present to win. Please remember: if you win a prize, please bring one to the next meeting. This helps to keep our drawings going. Thank you.



Covellite, Butte, Montana

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