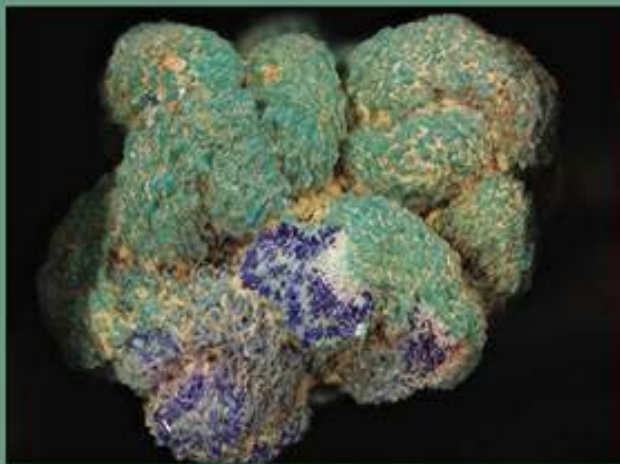


2018 MINING & MINERAL SYMPOSIUM



MONTANA BUREAU OF MINES AND GEOLOGY
BUTTE, MONTANA
OCTOBER 10-13, 2018



Get more information from: Stanley Korzeb, Economic Geologist, MBMG
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406-496-4171
mbmg.mtech.edu/2018symposium.asp

FEES

Symposium registration:

Standard: \$75

Students (with ID): \$40

Barbeque: \$15 Field Trip: \$25

Cancellations/Changes and Refunds: Fees for late arrivals and early departures will not be refunded. Fees will be refunded if requests to cancel or change a registration are received in writing no later than October 1. After that date, fees are nonrefundable. The MBMG will process all refunds after the Symposium's conclusion. Substitutions may be made at no charge.

TRANSPORTATION & PARKING

Visitor parking passes will be issued to all attendees who request them when they register. Free shuttle service will be provided between all Symposium venues.



The Highland Centennial Gold Nugget, focus of this year's field trip.



SYMPOSIUM

Montana Bureau of Mines and Geology, Butte, Montana
October 10-13, 2018

The Montana Bureau of Mines and Geology is pleased to host the 4th Annual Montana Mining and Mineral Symposium on October 10-13 at Montana Tech, located in historic uptown Butte, Montana. Join professional and amateur mineralogists, geologists, and miners as they share their knowledge of mineral deposits and stimulate interest in pursuing new studies and discoveries.

FEATURED EVENTS

Wednesday, Oct. 10th, 9:00 am to 7:30 pm

Mineral Show and Book Sale: Join fellow mineral enthusiasts as they display their collections in the MBMG Mineral Museum. Buy, sell, or swap minerals to round out your personal collections! Contact Peggy Delaney, 406-496-4381 (mdelaney@mtech.edu), for more information.

Used Book Sale: Browse through our used book inventory and find that publication you always wanted. Reference books, U.S. Bureau of Mines, and USGS publications will be available for a price you can't beat.

Meet and Greet: Following the Mineral Show, a catered reception will let you meet other Symposium attendees. A no-host bar will be available.

Thursday, Oct. 11th, 9:00 am to 8:00 pm

Oral presentations (including lunch) will be followed by an evening Map Chat at the Butte Brewery. Sample great beers from the Butte Brewing Company, meet our MBMG geologists, and learn about their current mapping projects. Bring your mineral samples and try to stump our geologists!

Friday, Oct. 12th, 9:00 am to 8:00 pm

Enjoy oral presentations, a poster session/competition, and a no-host bar followed by an evening barbeque and presentation of the Best Poster award.

Saturday, Oct. 13th

Highlands Field Trip: Travel to the Highlands Mining District south of Butte to the discovery site of the Highland Centennial Gold Nugget, weighing a whopping 27.5 troy oz. Learn the area's unique history, geology, and hydrology. Ample time will be available to collect samples. Bring your gold pans and sample bags! **Limit: 25 people; pre-**

TALKS

- OCT. 11**
- 9:00 AM *Annual Update on Mining in Montana*, Garrett Smith
 10:00 *Mineral Potential of Montana*, John Metesh and Paul Thale
 10:30 *Coffee Break*
 11:00 *Small Mines and Mineral Exploration in Montana: Regulatory Overview and Examples from the Field*, Whitney Bausch and Jake Mohrmann
 11:30 *Revelations by Cathodoluminescent Quartz Textures of Recrystallization in Veins Formed in the Butte Porphyry Cu-Mo Deposit*, Marisa Acosta
12:00 PM *Lunch*
 1:30 *Three Mines: J.T. Pardee's Early Career as a Miner*, Anne Millbrooke
 2:00 *History and Geology of Henderson Gulch, Montana's First Gold Discovery*, Ted Antonioli
 2:30 *Minerals from the PC Mine, Jefferson County*, Pete Knudsen
 3:00 *Berkeley Pit Water Chemistry Changes*, Ted Duaine and Gary Icopini
 3:30 *Mineral Display at the 1893 World's Fair: How MT Became Known as the Treasure State*, Michael Gobla
- OCT. 12**
- 9:00 AM *Magmatic Processes that Produce Porphyry-Copper Deposits: From Batholith Formation to Anhydrite, Apatite, and Zircon Mineralogy*, John Dilles
 10:00 *An Overview of Mesozoic Magmatism in Montana*, Kaleb Scarberry
 10:30 *Coffee Break*
 11:00 *Late Cretaceous Crustal Shortening and Coeval Magmatism within the Bannack Volcanic Field, Southwest Montana*, Jesse Mosolf
 11:30 *Clementine Porphyry: An Update*, George Brimhall
12:00 PM *Lunch on your Own*
 1:30 *Assessing the Potential for New and Economic Polymetallic Deposit Types within the Stillwater Complex, Montana*, Justin Modroo
 2:00 *Mineralogy and Stable Isotope Investigation of the Easton-Pacific Lode-Gold Mine, Virginia City District*, Chris Gammons
 2:30 *New Investigations of the Historic Elkhorn District, Jefferson County, MT*, Alex Brown
 3:00 *General Update to the Madison Project*, Phil Mulholland
 3:30 *Mineralogy and Fluid Inclusions at the Crystal Mountain Fluorite Deposit*, Francis Grondin
 4:00 *Pogo Mine Geology, Pogo, Alaska*, Ethan Coppage

LODGING

- America's Best Value Inn Butte
 122001 West Browns Gulch Rd
 406-723-5464
- Best Western Plaza Inn
 2900 Harrison Avenue
 4949-3500
- Butte Hampton Inn
 3499 Harrison Avenue
 406-494-2250
- Comfort Inn Butte
 2777 Harrison Avenue
 406-494-8850
- Copper King Hotel & Convention Center (Clarion Inn)
 4655 Harrison Avenue
 406-565-5001
- Finlen Hotel
 100 East Broadway
 406-723-5461
- Holiday Inn Express Hotel & Suites
 2609 Harrison Avenue
 406-782-2000
- La Quinta Inn & Suites
 1 Holiday Park Drive
 406-494-6999
- Motel 6
 220 N Wyoming St
 406-723-4391
- Quality Inn & Suites and Conference Hotel
 2100 Cornell Avenue
 406-494-7800
- Super 8 of Butte
 2929 Harrison Avenue
 406-494-6000

REGISTRATION FORM

Online Registration and Payment is available at mbmg.mtech.edu/2018symposium-registration.asp

Full Name _____
 First name (for badge) _____
 University/Organization: _____
 Speaker: Yes No
 Mailing Address: _____
 City: _____ State/Province _____
 Zip/Postal Code _____ Country: _____
 Phone: () _____ Email: _____

Please check appropriate registration fee.

General \$75.00
 Student \$40.00

SPECIAL ACTIVITIES:		No. Attending
Friday Barbecue	\$15.00	_____
Saturday Field Trip*	\$25.00	_____

*Limit 25 people per field trip; pre-registration required.

Total cost, including activities: \$ _____

Special accommodations needed (please specify):

PAYMENT: Visa, MC, Check or Money Order in U.S. funds payable to Montana Tech Foundation. There will be a \$25 fee charged on checks returned due to insufficient funds. Please check box: Check Money Order VISA MasterCard Exp Date: _____
 Card No. _____
 Print Cardholder Name: _____

Please mail completed registration form with payment to:
 2018 Montana Mineral and Mining Symposium
 Peggy Delaney
 MBMG, NRB 217, 1300 West Park Street, Butte MT 59701
 Phone: (406) 496-4381
 Email: mdelaney@mtech.edu
 Please mail credit card information; do not email.