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-registration required.**

**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.

**Montana Bureau of Mines and Geology**

**Butte, Montana**

**October 10-13, 2018**

Get more information from: Stanley Korzgeb, Economic Geologist, MBMG
skorzeb@mtech.edu
406-496-4171
mbmg.mtech.edu/2018symposium.asp
**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  *The Mineral Display at the 1893 World’s Fair—How Montana Became Known as the Treasure State*, Michael Gobla

**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  *The Orphan Boy Underground Mine Education Center, Larry Hoffman*

**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 Modrro
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
  406-494-1250
- **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:** Check or Money Order in U.S. funds payable to Montana Bureau of Mines and Geology. There will be a $25 fee charged on checks returned due to insufficient funds.

Please check box:

□ Check  □ Money Order

To pay by credit card, please call Peggy Delaney at 406-496-4381.

**Please mail completed registration form with payment to:**

2018 Montana Mineral and Mining Symposium
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