

Geology of the Ouray/Silverton Area

68th Annual Field Conference

September 27th to 30th 2017

New Mexico Geological Society

<http://nmgs.nmt.edu>

Registration information at:

<https://nmgs.nmt.edu/ffc/registration>



The Geology of the Ouray-Silverton Area

New Mexico Geological Society
2017



Conference Organizers

Karl Karlstrom – University of New Mexico
David Gonzales – Fort Lewis College
Matthew Zimmerer – NM Bureau of Geology
Matthew Heizler – NM Bureau of Geology

Registration Form

Deadline: Monday, September 4, 2017

Conference is limited to first 150 registrants.

Name _____
 Last First Initial
 Affiliation _____
 Address* _____

 City _____ State _____ ZIP _____
 Phone () _____ Fax _____
 Spouse's name (if attending) _____
 Email _____

- *please check if home address
- I prefer vegetarian food
- My spouse prefers vegetarian food
- I can bring a high capacity (6 or more) vehicle.

Field Trip Registration

- Member \$350
- Member + Spouse (1 guidebook) \$635
- Please reserve _____ pre-meeting spots (\$25 each) for Molas Pass hike and train ride

Day 3 options (choose one):

- A:** to Ridgway/Rico –or– **B:** to Silverton

Donation

- Sponsor a student FFC registration \$350
- Other donation to support the FFC _____
- Other donation to the NMGS _____

NMGS Annual Dues (choose one)

- 2017 Active member Dues \$25
 - 2017 Associate dues \$20
 - 2017 Student (Requires copy of ID) Free
 - Lifetime membership \$350
- TOTAL \$ _____

T-SHIRT ORDER

PAYMENT FOR T-SHIRTS IS DUE AT THE CONFERENCE

Colors: pale green, pale brown, or gray

Sizes: S, M, L, XL, XXL, XXXL

Short Sleeve (\$20)

Quantity _____; Size _____; Color _____

Long Sleeve (\$25)

Quantity _____; Size _____; Color _____

Payment must accompany this form. Make check payable to *New Mexico Geological Society*. No refunds unless request is received in writing by September 4, 2017.

You can register for the field conference online or mail form and payment to:

NMGS Registration Chair
New Mexico Bureau of Geology & Mineral Resources
 801 Leroy Place, Socorro, NM, 87801
 (575) 835-5302 FAX (575) 835-6333
 Email: Connie.Apache@nmt.edu

Credit Card (MasterCard, VISA, or American Express)
 Number _____
 Expiration Date _____
 Signature _____

Publication sales will occur on the first night at the Ice Breaker social and during the banquet on the third night.



Geology of the Ouray-Silverton Area

The 68th NMGS Fall Field Conference will examine the geologic history of the Ouray-Silverton area of southwestern Colorado. The area provides excellent opportunities to explore the complex Precambrian basement structures, Phanerozoic stratigraphy, the San Juan volcanic field, mineral deposits, hot springs and environmental issues related to ore deposits and the recent Gold King mine spill.

Pre-meeting Trip – Molas Pass hike

Participants will hike the Colorado Trail at Molas Pass down to the Animas River and then ride the Durango-Silverton historic railroad back to Silverton. With spectacular views and geology we will explore the Animas River geomorphology, Paleozoic strata, the Great Unconformity, and the Paleoproterozoic history recorded in the Irving Formation, Twilight Gneiss, and Uncompahgre Formation. *A sack lunch and beverage will be provided.*

Day 1 will be somewhat unique as we hike the 4.2-mile Ouray Perimeter Trail that loops through excellent exposures of Uncompahgre Formation, Paleozoic and Mesozoic stratigraphy, Ancestral Rockies and Laramide faults, hot springs, and ore deposits. The hike will allow participants to explore the fantastic geology exposed at Box Canyon Falls. 19 GPS located stops are described in the road log. Shuttles will be provided for those not interested in hiking the entire perimeter trail and we will end with plenty of time to enjoy the Ouray Hot Springs.

Day 2 focuses on volcanism and ore deposits near Silverton and Red Mountain. We will recap the Precambrian and Paleozoic history and get an overview of the volcanic and plutonic history of the western San Juan caldera complex and related mineralization. Outcrops include postcaldera intrusions and caldera margin megabreccia, breccia pipes and related high-sulfidation ore systems.

Day 3a. Departs Ouray and heads north to Ridgway ending in Rico. This trip visits hot spring locations and discusses the glacial history as well as many other geologic features.

Day 3b. Departs Ouray and heads south to Silverton to see and discuss hydrologic and environmental issues related to ore deposits and mining activities.

2017 Fall Field Conference Schedule

Wednesday, September 27, 2017 – Pre-Meeting Field Trip - Molas Pass hike and train ride

8:15am: Assemble in Silverton where train unloads near Cement and 12th St.

3:30pm: Back at Silverton

Registration and Ice Breaker – Ouray Elks Club

6:00pm – 9:00pm: Registration and Ice Breaker at the Ouray Elks Club. Light food with a complementary drink provided. Cash bar will also be available.

Thursday, Sept. 28, 2017 – Day 1: Perimeter Trail

8:00am: Assemble at Twin Peaks Lodge

8:30pm: Hike begins at Baby Bathtubs Trailhead.

12:30pm: Lunch at Box Canyon Parking area.

2:00pm: Cascade Falls to begin afternoon hike.

4:00pm: Hot springs soak

6:00pm: BBQ at Fellin Park

Friday, Sept. 29, 2017 – Day 2: Silverton Caldera

8:00am: Assemble at Twin Peaks Lodge

12:00pm: Lunch near Animas Forks

1:30pm: Red Mountain

6:00pm: Banquet at Ouray Community Center

Saturday, Sept. 30, 2017 – Day 3a: Rico. 3b Silverton

8:00 am: Groups depart Twin Peaks Lodge.

12:00 pm: Lunch in either Rico or Silverton.

1:00 pm: Conference ends.

Guidebook

The guidebook for the conference covers many aspects of the San Juan Mountains region and includes 5 road/hiking logs and 16 research papers.

A full version of the 2017 Guidebook is included with registration. A spiral bound Guidebook containing roadlogs only along with 16 color plates will be available for separate purchase.

Registration

The Ice Breaker and registration will be at the Ouray Elks Club, and will feature hors d'oeuvres and a cash bar beginning at 6:00 pm.

Accommodations

IMPORTANT

Participants are responsible for making their own lodging reservations. For complete details, please see attached sheet or: <http://nmgs.nmt.edu/ffc>

Lodging is limited in Ouray as this is peak season to visit the area. The Society has booked 52 rooms at the Twin Peaks Lodge for 3 nights beginning Sept. 27. We have a special rate of \$125/night that includes taxes and fees and participants staying here will need to contact Connie Apache (575-835-5302) to book a room at the lodge and make payment directly to the Society. There are some additional rooms at the following locations.

- Comfort Inn (970-325-7203): 9 each, Double-queen rooms blocked for NMGS. \$150.00+fees. Call hotel directly and book by Sept. 1.

Several rooms have been reserved on Expedia under the name Matt Heizler. You can call the locations below to reserve a room and transfer the reservation to your name.

- Abram Inn & Suites (888-950-5062): 6 each, single king rooms (\$130.00+fees and taxes). 2 each, 1 king + 2 queen (sleeps 6), \$180+fees and taxes.
- Timber Ridge Lodge (970-325-7310); 1 each, single king (\$116) and 2 each, double queen (\$133).
- Box Canyon Lodge (970-325-4981); 3 single king rooms (\$172 average, per night).
- Ouray Inn (970-325-9855): 3 single king rooms (\$160).

Travel will be mostly in high capacity vehicles and personal vehicles as needed. The trip will start each day at the Twin Peaks Lodge. Registration fees cover 3 lunches, the ice breaker, BBQ and banquet.