

# C N T C T

Publication of the  
**Wyoming Geological Association**  
*Established 1943*

## *President's Message*

This upcoming month we will have our annual BBQ at Bear Trap Meadows on August 10<sup>th</sup>. Noon to 4:00 there will be a field trip and from 4:00 pm to 7:00 pm there will be a BBQ. We will be honoring this year's recipients of WGA awards at the picnic. We are looking forward to it. Sign up on the events page on our website or e-mail Bri at [wygeology@gmail.com](mailto:wygeology@gmail.com). To go on the field trip, simply meet in the Beartrap parking lot at 12:00 pm. For the picnic, we will be in the shelter and will have outdoor games set up for those that wish to participate. I hope to see you all there!

*Melanie D. Peterson—President*

### **UPCOMING WGA LUNCHEONS\* AND OTHER EVENTS**

Unless otherwise noted, lunch is served at 11:15 AM, with presentations at 12 noon.

Silver Fox Steakhouse, 3422 Energy Lane, Casper, WY, (307) 235-3000.

Meeting dates, speakers, topics, and venues are subject to change. Check <http://www.wyogeo.org/>

**\*RESERVATIONS ARE MANDATORY:** [info@wyogeo.org](mailto:info@wyogeo.org) or (307) 237-0027

*RSVP required by the prior Wednesday.*

Please have your email added to the courtesy luncheon reminder list.

**WGA Office hours: Thursdays 9:30-11:30.**

# WGA SCHEDULE OF EVENTS FOR 2019

## **1/2 day Field Trip**

Friday July 12th

## **Pioneer Awards BBQ**

Scheduled for August 10th

**60 Years**

William E. Miller

**50 Years**

Roger J. Barton

Robert B. Ferguson

Tim T. Schowalter

## **AAPG/RMS Section Meeting**

Scheduled for September 15th through the 18th

(Field trip information TBA)

## **2019 API Spring Meeting**

Thursday, May 16th

# 2019 BARBECUE



## *WGA Pioneer Picnic & Free Field Trip*

SATURDAY | AUGUST 10 | FIELD TRIP 12 PM | PICNIC 4 PM


### *Beartrap North Shelter*

join us for a free guided field trip at noon - more info to follow -  
followed by the picnic and pioneer awards ceremony at 4 pm

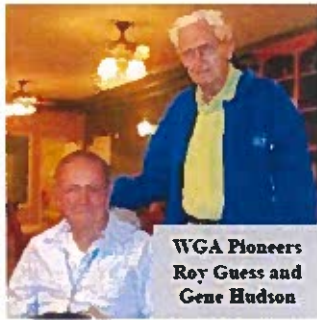
BRISKET, PULLED PORK, CHICKEN & SIDES FROM HQ BBQ!

\$15 per person, kids under 12 are free!

pay in advance at <https://wyogeo.org/events/>  
or by cash or check the day of the event



RSVP to Brianna by 8/2/2019  
call or text 307.237.0027  
or email [wygeology@gmail.com](mailto:wygeology@gmail.com)



## Wyoming Geological Association Annual Pioneers Recognition Field Visit and BBQ

August 10, 2019

Meet at Beartrap Meadow, 12 noon

Field tour 12-4 PM, BBQ 4-7 PM

Cost is \$15 ea., under 12 free

RSVP by August 6: <https://wyogeo.org/events/> or at WGA



### Mineral potential on Casper Mountain: *Great promise that soon faded like a Crimson Dawn*

In the fall of 1890, Charles W. Eads filed a 20 acre mining claim on Casper Mountain for the site of a stamp mill to process copper ore. Early in 1891 a mining camp was established known as Eadsville. At a location 4.000 ft SE of Eadsville, copper was discovered in February 1891. The ore was associated with the hanging wall of a 6 ft wide fault zone. The foot wall equivalent of the zone was not present. Ore assayed at 33% silver and 42% copper. A mining camp was established and named Copperopolis. The claims, known as Blue Cap and Cross Fox, were located in what is now the Natrona County Archery Range. Two carloads of copper ore were shipped in 1906, and none after that. In 1992, local archeologist Art Crandall surveyed Copperopolis and prepared an unpublished archeology report, the only known modern day reference to Copperopolis.

#### A few mineral occurrences on Casper Mountain\*:

**Asbestos:** A serpentine body, several thousand feet wide, trends east-west in the N2 Secs. 16 and 17, T39N, R79W. Little or no production has been reported since 1910.

**Beryl:** Two tons were reportedly hauled from the Catherine #1 mine in 1956. Unknown location.

**Chromite:** Chromite lenses, pods, and disseminated grains are scattered through a Precambrian talc-schist in Secs. 16, 17, and 20, T32N, R79W. The main lens is 2500 ft long and 350 ft wide. Trenching and drilling by the Bureau of Mines suggests inferred reserves of 575,000 tons of chromite averaging 8.7% Cr<sub>2</sub>O<sub>3</sub>. The deposit is noncommercial due to the low grade.

**Copper:** See discussion above on Copperopolis.

**Feldspar:** A large pegmatite dike, up to 50 ft wide, trends N-S for about a mile in Secs. 17, 18, and 20, T32N, R79W. The "Koch" quarry, now closed, has good quality microcline, muscovite, and quartz.

**Gold:** In an area near the Koch quarry, a seam of black material (diabase?) carrying gold and silver cuts through granite. Gold and silver values have been found in a dolerite dike in the granite. Pyrite was also noted.

**Magnetite:** Areas of fibrous magnetite are associated with deposits of serpentine and asbestos.

**Hematite:** In an area near the Koch quarry, a quartz-specularite vein cutting granite trends north for over one mile. Vein material yields assays of 30-32% Fe. Three pits show hematite replacing chert.

**Manganese:** Pits in E2 Sec. 30, T32N, R79W revealed pyrolusite in patches and pockets in the Casper Fm.

\*Reference: Osterwald, F. W. et al, 1966, Mineral Resources of Wyoming: Wyoming Geological Survey Bulletin 50, 287 p.  
Prepared by Mark Milliken, July 2019

# JULY FIELD TRIP

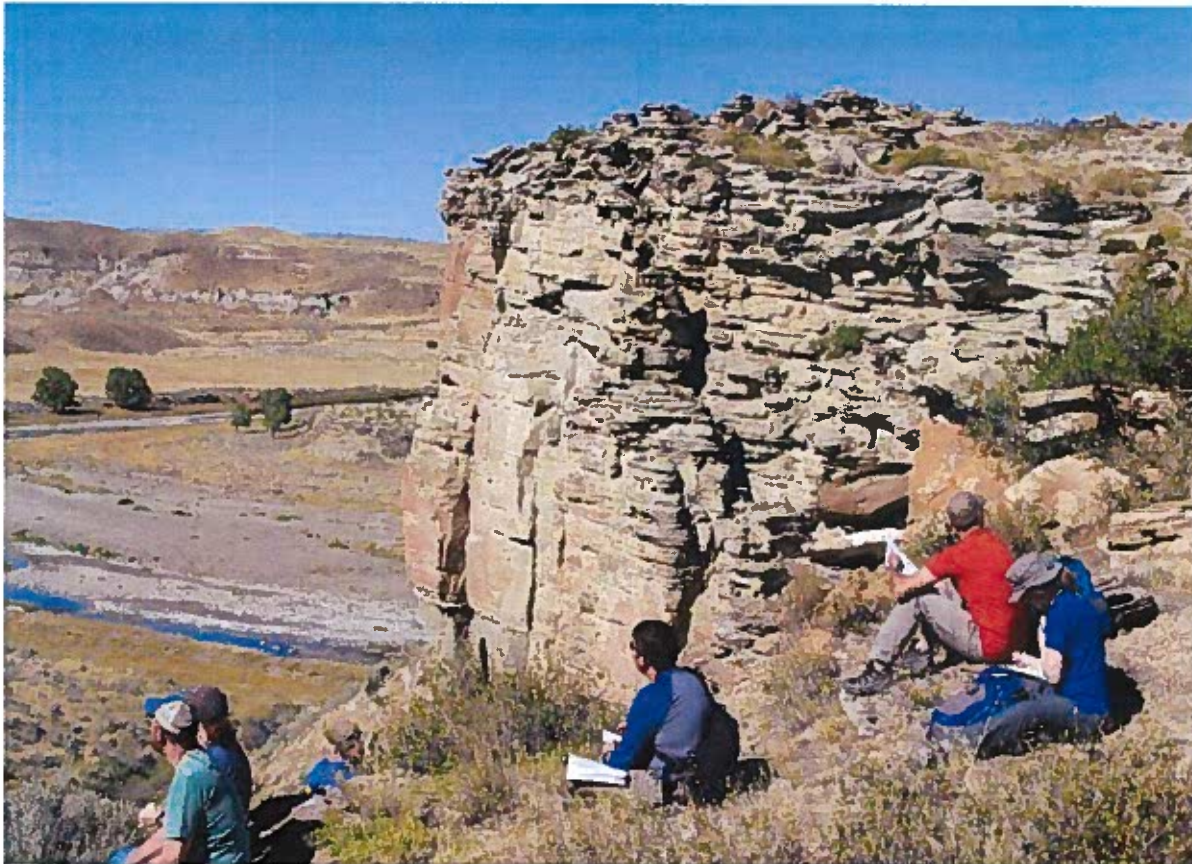
## 1/2 Day Field Trip & Social Hour – Frontier Outcrops West of Casper

This will be an informal 1/2 field trip that will explore several Frontier outcrops west of Casper, WY. We will be examining the stratigraphic architecture of several Frontier benches and postulate on the possibility that some Frontier parasequences involve localized estuaries rather than being restricted to only deltaic environments. Vary often estuarine sequences are misinterpreted or unrecognized and as a result lumped with deltaic sequences.

Attendees will meet at noon on July 12th at a specified location in Casper, WY for the field trip. Attendees must be prepared and dressed for hiking within uneven terrain and potentially hot summer weather conditions. We will kick off the field trip with a brief overview and safety discussion at the meeting location and then attendees will load into provided transportation vehicles and be driven to outcrops for viewing and continued discussion of Frontier packages.

At the end of the day attendees will be transported back to the Grunner Brother's parking lot and are welcome to engage in a social hour that involves drinks and appetizers.

Register online at <https://wyogeo.org/events/>. Make sure to fill out the waiver and emergency contact form and send it to [wygeology@gmail.com](mailto:wygeology@gmail.com) prior to the event.



# SEPTEMBER FIELD TRIP

## PHOSPHORIA ROCK COMPLEX - BIG HORN BASIN & BEYOND

Field Trip - September 18-22, 2019

- Explore the depositional profile from basin to supratidal - source rock, reservoir, & seal
- Discuss tectonic controls on sedimentation & hydrocarbon entrapment
- Explore facies relationships, diagenesis, & reservoir characteristics
- Discuss paleoenvironments, biotic responses, & their significance to the End-Permian Mass Extinction



### FOR MORE INFORMATION, CONTACT

Edward Coalson: [edcoalson@earthlink.net](mailto:edcoalson@earthlink.net) 720-352-5359

Richard Inden: [richard.inden@comcast.net](mailto:richard.inden@comcast.net) 720-308-3997

Maxwell Pommer: [pommerpetrographics@gmail.com](mailto:pommerpetrographics@gmail.com) 303-229-3007



**AAPG ROCKY MOUNTAIN SECTION  
ANNUAL MEETING  
SEPTEMBER 15-18, 2019, CHEYENNE, WYOMING**

**CALL FOR PAPERS  
DEADLINE MAY 31, 2019**

The AAPG Rocky Mountain Section with the Wyoming Geological Association invite abstract submissions for the 2019 meeting in Cheyenne.

All Rocky Mountain petroleum and geology related topics are welcome.



 **Technical Co-Chairs** 

Mike Bingle-Davis  
mikeb@kirkwoodcompanies.com

Stephen Whitaker  
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Instructions for Authors - Submit abstracts via email with subject line "AAPG RMS Abstract Submission" to [aapgrms2019@gmail.com](mailto:aapgrms2019@gmail.com). Indicate whether it is oral or poster. Please submit as .doc file. Abstract text is limited to 2,000 characters (not including spaces).

For more information check out the conference website - <https://rmsaapg2019.com/>

**AAPG—September Rocky Mountain Section Meeting Field Trips**

**Field Trip 1.**

**Evidence for a large Paleozoic Impact Crater Strewn Field in the Rocky Mountains**

**By Kent Sundell**

**Field Trip 2.**

**Sequence Stratigraphy and Reservoir Architecture of Upper Cretaceous Sandstone Reservoirs in the Powder River Basin**

**By Michael Hofmann and Nate La Fontaine**

**Field Trip 3.**

**Facies, sequence stratigraphy and reservoir characteristics of the Codell Sandstone, Wall Creek Sandstone, Sage Breaks Shale and Niobrara Formations, Denver, Powder River, Shirley and Laramie basins**

**By Marshall Deacon and Edmund “Gus” Gustason**

**Field Trip 4.**

**Sedimentology, Stratigraphy and Fracture Characteristics of Tight Oil Sandstones in the Powder River Basin**

**By Ali Jaffri and Brandy Butler**

**For more information, submit a paper, become a sponsor, and register visit the webpage at <https://rmsaapg2019.com/>**





**Photographer—Nick Jones, Pennsylvanian—Permian Eolian Sandstones, Glendo Reservoir, Wyoming.**

## OF INTEREST TO MEMBERS

### **WGA on Public and Social Media**

The WGA is actively seeking your photos showcasing aspects of geology and interests to WGA members and participants—your photos may be showcased in the newsletter, luncheons, events and even on the WGA Public and Social Media. Photos submitted should include the photographer's name and a brief description of the photo. To submit a photo please email them to [njones@uwyo.edu](mailto:njones@uwyo.edu).

**<https://wyogeo.org/>**

**Or check out the WGA on-  
Facebook and LinkedIn**

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Various Sizes	\$3.50 per column inch, per month (\$10 minimum)	

Advertising space is also available in the membership directory and the annual field conference guidebook. Discounts are available for advertising in all three publications.