



# The Colorado Professional Geologist



American Institute of Professional Geologists—Colorado Section  
*Colorado Section email: [Colorado-aipg@outlook.com](mailto:Colorado-aipg@outlook.com)*



(Boy Scout Day 2019)

## Boy Scout Day at Dinosaur Ridge May 9, 2020

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## 2020 SECTION OFFICERS

*The Board usually meets the first Tuesday of each month at 7:00 AM; all members are invited to attend. Please contact a Board Member to confirm time and location.*

### **President Thomas A. Harp**

Remediation Risk Reduction, LLC  
138 Rudi Lane  
Golden, Colorado 80403  
303.903.4858  
taharp55@gmail.com

### **President-Elect Jessica Davey**

4585 Zuni, Street  
Denver, CO  
720.394.4270  
jdavey@mhausa.com

### **Secretary Rick Allison**

303.246.2117  
geobrewer@yahoo.com

### **Treasurer Gary D. Davis**

303. 818-2257  
4fossilfuel@comcast.net

### **Leg. & Reg. Chair Ronald W. Pritchett**

Independent Geologist  
9522 Brook Hill Drive, Lone Tree, CO 80124  
303.919.6848  
pritchett61@msn.com

### **CPG Editor James Russell**

Summit Data Services, LLC  
1909 Sage Circle  
Golden, Co 80401  
303.815.3901  
summitdatasvcs@msn.com

### **Advisors**

#### **Louis Bull**

Waste Management Inc.  
2400 W. Union Ave. Englewood, CO 80111  
303.914.1400  
lbull1@wm.com

#### **Tom Van Arsdales**

901.268.3323  
tomgvanarsdale@gmail.com

#### **Mark B. Mathisen**

Roscoe Postle Associates  
143 Union Blvd., Ste. 505, Lakewood, CO 80228  
303.204.2464  
mbmathisen@msn.com

#### **Doug Peters**

Peters Geosciences Golden, CO 80403  
303.278.1540  
dcpeters@tuveraexploration.com

## Call for Articles

*The Colorado Section of AIPG newsletter welcomes submission of technical or informational articles for publication. Articles may be submitted via e-mail to the editor at:*

*summitdatasvcs@msn.com  
(Microsoft Word format is preferred.)*

*James Russell  
1909 Sage Circle, Golden, CO 80401*

Contact James at 303-278-4456  
for additional information.

### **Change of email:**

Change of email notices and other contact information changes for the CPG should be sent directly to:

AIPG National Headquarters  
1333 West 120<sup>th</sup> Ave, Suite 211  
Westminster, CO 80234  
303-412-6205  
Email: aipg@aipg.org

(The National Office maintains the address list for all.)

Letters, articles, announcements, ads, etc. must be received by the Editor by the **end of the fourth full week of the month preceding publication**. Letters, articles, ads, announcements, etc. accepted on a space available basis. Submission of articles, etc. via e-mail is the preferred method. Copy can be accepted in most PC formats, but DOC or DOCX are preferred. Call or e-mail James Russell for details on submission of copy or advertising at 303-815-3901, summitdatasvcs@msn.com.

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## President's Message

Greetings everyone and I hope all are well! I'm sure I don't need to say this has been a turbulent month...a month of concern, worry, and yes, even fear about the global pandemic of Covid-19 (Coronavirus)...but also a time of hope, faith, and love of our family and friends in knowing that the United States of America and the rest of the world WILL get past this unexpected and devastating disease. Potentially a life-changing event, our experiences during this trying time will help us grow – and be better for it!

With virtually everything shut down, as we responsibly practice “social distancing”, it is challenging to forecast what activities AIPG members have to look forward to – many events have been cancelled, and others will likely be so, until we have Covid-19 behind us. Not to be daunted or deterred and forever hopeful, the AIPG Executive Board will continue to function, as we meet online to serve our membership to the very best of our abilities!

Though the Colorado General Assembly has not convened recently and will not do so at least through April, in observance of the nationwide restriction that “no more than 10 people can gather”, many bills have been laid over until the House and Senate can reconvene. Some of the bills pertinent to our members are detailed below. As always, I encourage you to track those which are of interest to you and reach out to your local representatives to “voice your opinion”. There are also many organizations listed below for you to consider. I invite you to “get involved” in those Societies of interest as a way to participate in your professional discipline. Though some planned Society events may be cancelled in the near future, there will be many, many more activities “down the road” in which you can partake!

My parting message to our members is this – be vigilant, be responsible, and be in good health. Continue to enjoy your work, even if conducted from home, as all of us geoscientists contribute to communities around the globe! Good luck to all!

## **Editor's Remarks**

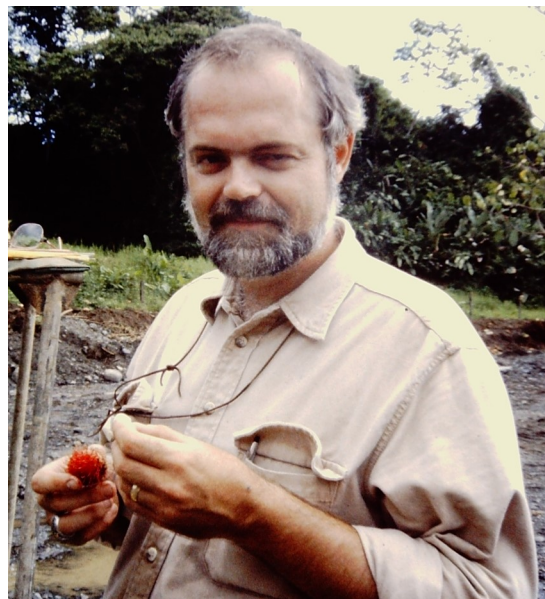
### **James Russell**

We are in the midst of difficult times. There is a great deal of economic and social uncertainty that has an effect on the way we work. Many of us now work in a virtual world out of our home. How do you do field work in states or counties that restrict outsiders?

Compounding the health and economic effects of the COVID-19 virus has been an outbreak of an economic oil and gas war between Russia and Saudi Arabia. With the massive oversupply of oil and resulting drop in oil prices, many companies are struggling to keep businesses afloat.

Many professional associations are canceling meetings or other activities that would conflict with social distancing. Field trips and conferences will most likely be canceled or postponed. Let's hope things will get better this fall so we can once again hit hammer to rock.

There are many working from home because of COVID-19 stay at home requirements. As time goes on these conditions wear on many. Teleconferencing is a necessary evil. One alternative that can make life easier is online training. To some this is a necessary torture inflicted upon us by human resources departments, but geologists today must develop skills in new technology and management methods. In this issue I have listed a few resources that may be of interest.



## **Call for Articles**

If you have any articles that you would like to share, please let your editor know.

## Colorado Section – AIPG Looking for Volunteers

Unless postponed, the Colorado Section - AIPG will host a booth at the 2020 Boy Scout Day held at Dinosaur Ridge on Saturday, May 9<sup>th</sup>. The event will be from 9 am – 3 pm at the Visitors Center, which is located at 16831 W. Alameda Pkwy in Morrison, just east of the Hogback. Volunteers are needed to “man” the booth, and we are asking for two (2) volunteers for two-hour intervals (9-11 am, 11-1, and 1-3 pm). This event is an excellent opportunity for our Section to “show our stuff” (knowledge; mineral, rock, and fossil specimens; and geological enjoyment). If you are interested in volunteering, please contact Tom Van Arsdales at [tomgvanarsdale@gmail.com](mailto:tomgvanarsdale@gmail.com).

## State Legislative Actions as of 3/19/2020

**The House and Senate are temporarily adjourned as precautions against the Covid-19 virus.**

**HB20-1327:** Water Diversions from the Rio Grand Basin-State Eng. Check.

**HB20-1344:** Artificial Recharge Study to Maximize Beneficial Use

**SB20-189:** Local Pesticide No Preemption

**SJR20-003:** Water Projects Eligibility List: Governor signed 3/4/2020

**HB20-1338:** Severance Tax Transfer to Agriculture.  
...grants money to agriculture for “energy-related projects” which are undefined.

**SB20-168:** Sustainable Severance & Property Tax Policies  
...extends property tax subsidy to solar gardens. Only projects with Cost/Benefit ratios greater than 1 require a subsidy.

**SB20-190:** Boost Renewable Energy Transmission Investment  
...supports studies of renewable sources that may be in-line with the State Energy no-carbon energy goals.

**SB20-204:** Additional Resources to Protect Air Quality.  
...adds fees to existing fees if pollutants are released; creates a new “air quality “enterprise.”



## RMAG Field Trip

### RMAG Go and No-go Events

We at RMAG are continuing to work (remotely, of course) to maintain connections in our geo-community and to plan events for when we can gather face to face again. Stay tuned for an opportunity to attend a virtual lecture that we hope to offer in April.

As a reminder, the following events are either cancelled or postponed:

#### **CANCELLED:**

May 6th Luncheon

#### **POSTPONED (not yet rescheduled):**

On the Rocks Field Trip:

“Golden Rocks! The Geology and Mining History of Golden, Colorado”

May 16, 2020; 9:00 am - 3:30 pm

We currently anticipate running this field trip, but stay tuned for updates. Golden lies in a confined valley between mountainous geologic features that mark the transition from the Great Plains to the Rocky Mountains. No other setting is like it along the Front Range of northeastern Colorado.

Iconic North and South Table Mountains first meet the eye in Golden’s unique landscape. Rising 600 feet above the Golden Valley, they form the sentinels that separate Golden from the metropolitan area to the east. Castle Rock, the prominent peak on South Table Mountain that forms part of Golden’s city logo, rises steeply up 650 feet above the Golden Valley floor, commanding city views. The dramatic 1500-ft rise of the Rocky Mountain Front Range dominates the west side of Golden.

Apart from the dramatic landscape, what’s so special about Golden’s geology? Hidden in its rocks, Golden has one of the best-preserved stories of how the Front Range of the Rocky Mountains evolved over the last 300+ million years. The rocks in Golden tell the story of two mountain-building episodes; two mass extinctions of life on Earth; dinosaurs and woolly mammoths walking across the land at different times; lava flows running along the land surface; long periods of being under oceans; tropical to subtropical climates; and massive erosion and glacial flooding. Not only that, 19th century settlers exploited Golden’s rocks to start industries, some of which have fallen away, whereas others flourish today. To a geologist, then, this is why Golden rocks.

The trip will begin and end in Golden with the option of after-trip refreshment at the Golden City Brewery, a geologist-owned and run brewpub. Two hiking stops will cover approximately 2 and 1 miles, respectively, with a lunch and overview stop in-between. Hiking will be on dirt and paved trails: the afternoon hike is very steep but short. In case of bad weather, the trip will be run a week later, on Saturday May 23. Members: \$40; Non-members: \$50. To register, go to <https://www.rmag.org/events/2020/05/16/field-trips/golden-rocks-the-geology-and-mining-history-of-golden-co/>

## Online Articles Worthy of Review

### Oil/Gas Production and COVID-19

Your editor has found several online articles that deal with the current oil crisis that may interest our readers. Both are a bit technical from an economic marketing/forecasting point of view but are interesting none the less. Both address COVID-19 impacts on oil and gas:

- 1) 'The Dark Side of the Boom, A Preview FundamentalEdge Report' April 2020 by ENVERUS, a leading oil & gas SaaS and data analytics company.  
<https://www.enverus.com/newsroom/enverus-welcome-to-the-dark-side-of-the-boom/>
- 2) 'Oil price wars in a time of COVID-19', Arezki, R., R.Y. Fan, 3/10/2020, The Centre for Economic Policy Research, <https://voxeu.org/article/oil-price-wars-time-covid-19>

### CSM-SEG Presentations Cancelled for Semester

The school has been taking extreme precautions toward the COVID-19 virus. In light of this we have canceled all of the remaining Lunch and Learns. We will also not be looking to run any additional field trips and/or short courses for the remainder of the semester. Sorry for these developments, but thank you for your support throughout the year. In a university-wide effort to reduce the impact of COVID-19 to Mines, campus departments have been asked to postpone or put online all campus events involving guests. Guests are determined to be anyone who isn't a Mines student or employee.

## Useful Online Resources for the Home-Bound Geologist

### National Groundwater Association

NGWA is a community of groundwater professionals working together to advance groundwater knowledge and the success of our members through education and outreach; advocacy; cooperation and information exchange; and enhancement of professional practices. <https://www.ngwa.org/events-and-education/ngwa's-event-calendar>

### Society for Mining, Metallurgy, and Exploration

The Society for Mining, Metallurgy, and Exploration (SME) is a professional society (nonprofit 501(c)(3) corporation) whose nearly 15,000 membership represents all professionals serving the minerals industry in more than 85 countries. SME members are engineers, geologists, metallurgists, educators, students and researchers. <https://www.smenet.org/full-calendar>

### SME Webinar: Managing Mineral Resource Risk

April 22, 2020; 10 -11 AM Mountain Time

Mineral resources form the foundation of exploration and mining company valuation, with risk management serving as a critical function of business decision making. Mineral resources are converted to reserves, reserves are the basis for the mine plan, and the mine plan is the centerpiece of the business plan. A central responsibility of mining company Boards and executive

management teams is managing the inherent risky nature of mineral resources. This presentation addresses common risks associated with mineral resources and provides recommended assurance and mitigation strategies to evaluate, understand, and manage mineral resource risks.

To register or get more info, go to <https://smemi.personifycloud.com/PersonifyEbusiness/Events/SME-Events-Calendar/Meeting-Details/productId/4651771>

### **SME Webinar: Evolving Regulation of Waters of the U.S.**

April 30, 2020; 2- 3 PM Mountain Time

Proposed changes under the Clean Water Act include a proposal from the U.S. Environmental Protection Agency regarding the Waters of the US (WOTUS) rule that would alter the definition of protected water bodies and wetlands and will have implications for industry and development nationwide. This presentation will provide an update of regulations affecting streams, wetlands and groundwater, and will discuss the implications of pending changes for industry.

To register or get more info, go to <https://smemi.personifycloud.com/PersonifyEbusiness/Events/SME-Events-Calendar/Meeting-Details/productId/4884456>

### **2020 RMAG/DWLS Fall Symposium**

October 27, 2020

American Mountaineering Center, Golden, CO

Abstract Deadline May 1, 2020!

Call for Papers

The RMAG and the Denver Well Logging Society are teaming up again to present the 2020 Fall Symposium. We are very hopeful that the coronavirus situation will be resolved or mitigated by October, so are moving ahead with planning the symposium. The theme this year is "Maximizing Value of Core and Fluid Analysis." Submit your papers now for consideration!

To get more info, go to [http://www.rmag.org/clientuploads/events/Fall%20Symposium/2020%20Fall%20Symposium/Fall-symposium\\_flyer.pdf](http://www.rmag.org/clientuploads/events/Fall%20Symposium/2020%20Fall%20Symposium/Fall-symposium_flyer.pdf)

### **The Petroleum User Group (PUG)**

The PUG is a professional geospatial Petroleum User Group community that works to improve and expand the use of geospatial technologies in the petroleum industry. PUG's focus is on community, both local and global, with the goal of sharing ideas and meeting likeminded people. There are many conference proceedings archived on their site. <https://home-pugonline.hub.arcgis.com/>

### **The Mining User Group (MUG)**

The new Mining GeoNet space can be utilized as a resource to expand your GIS knowledge, discover user success stories, ask questions and get answers, share your work, and connect with other Esri customers and partners in the Mining industry. The Overview page includes information on webinars and other useful information. <https://community.esri.com/community/esri-mining>

### **Next to Free Training**

ESRI, the premier geographic information systems company offers next to free use of their software as long as it is used for professional development and not for commercial purposes. The cost is \$100/ per year on a subscription basis. This personal use subscription also includes unlimited access to Esri's large collection of self-paced e-learning.

<https://www.esri.com/en-us/arcgis/products/arcgis-for-personal-use/overview>





**David M. Abbott, Jr.**  
**Consulting Geologist LLC**

AIPG CPG, FAusIMM, EurGeol, PG-TX, UT, WY

evaluating natural resources, disclosures about them,  
5055 Tamarac Street Tel: 303-394-0321

[dimageol@msn.com](mailto:dimageol@msn.com)



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**Douglas C. Peters**

AIPG-CPG #8274  
L.P.G. PA #2365, TX #5972  
UT#2250, WA#396, WY#367

825 Raptor Point Road  
Golden, CO 80403-8881

Voice: 303-278-1540

Fax: 303-463-0573

[dcpeters@arnevutresources.com](mailto:dcpeters@arnevutresources.com)

Are you interested in learning more about  
oil and gas development? Contact us to request  
an informational presentation:

[ambassador@anadarko.com](mailto:ambassador@anadarko.com)



**Colorado Section email:**  
**[colorado-aipg@outlook.com](mailto:colorado-aipg@outlook.com)**

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**USA**

**2201 Kipling Street, Suite 150  
Lakewood CO, 80215 303-423-8475**

**Canada**

**1030 West Georgia Street, Suite 1112  
Vancouver BC, V6E 2Y3 604-830-8334**