Boy and Girl Scout Days at Dinosaur Ridge Canceled for 2020 Due to COVID-19

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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.

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**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.

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**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 120th Ave, Suite 211  
Westminster, CO 80234  
303-412-6205  
Email: aipg@aipg.org

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

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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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The opinions expressed are those of the authors and not the Colorado Section officers unless clearly stated otherwise.
I hope everyone is having a good summer (as good as can be that is…) and getting out to enjoy the beauty of Colorado’s geology! Obviously, however, COVID-19 continues to impact our daily lives.

Governor Jared Polis signed Executive Order D 2020 138, which is a mandatory statewide mask order that went into effect on July 16, 2020 for 30 days. People in Colorado who are 11 years and older are required to wear a covering over their noses and mouths when entering or moving within any public indoor space. Widespread mask use is considered a low cost and highly effective way to reduce the spread of COVID-19 infections by as much as 65%. Broad adoption of mask wearing in Colorado may have significant economic benefits by allowing the State to prevent re-closures of businesses and schools and, ultimately, return to our normal lives more quickly.

As the State reopens for business, some counties are still under “Stay at Home” and “Safer at Home” orders whereas other counties have qualified for the next phase of reopening, “Protect Our Neighbors”. Protect Our Neighbors means that communities that meet certain health-care criteria have less stringent restrictions regarding social distancing and other mitigation measures. Strong local public-health and health-care systems are the key to reopening our economy.

With all the welcomed re-openings of businesses throughout the State, I wish I could announce that AIPG-Colorado Section activities are resuming, but I can’t…yet.

The Colorado Legislature has been active, however, as the Second Regular Session of the 72nd General Assembly adjourned on June 15, 2020. The First Regular Session of the 73rd will convene on January 13, 2021. A legislative summary for the 2020 Session is presented below. As always, I encourage you to get/stay involved. Also below are many worthy weblinks regarding: Home School and Online Courses; Water News; Mining News; Petroleum News; and Environmental Remediation News along with other topics pertinent to Geoscientists.

Continued good luck to all as we get through this pandemic together!
Editor’s Remarks
James Russell

This has been an unusual summer. COVID-19 is still active, social distancing is practiced by many, and most meetings are virtual. But the Colorado economy is slowly coming back to life. We read or hear of promising new vaccines by years end. Let’s hope we are over the worst of it. Professional conferences and training classes are now virtual and while virtual sessions an acceptable form of knowledge transfer, extroverts miss the personal interactions at these events. I do miss grilling other professionals who man booths at conferences and shaking hands with old friends who I haven’t seen in a while.

Many thanks to Ron Pritchett. This issue includes many resources that the membership can access covering areas such as water, mining, environmental remediation, professional geology, petroleum, and nuclear energy. There is plenty here to keep engaged with industry and our profession.

Call for Articles
If you have any articles that you would like to share, please let your editor know. Sorry no rewards!
AIPG Purposes

The purposes of the Institute shall include:

• advance the geological sciences and the profession of geology;
• establish qualifications for professional geologists;
• certify the qualifications of specific individual Member geologists to the public;
• promote high standards of ethical conduct among its Members and Adjuncts, and within the profession of geology; and represent, and advocate for, the geological profession before government and the general public.

What AIPG does . . .

• Professional Certification - Certifies geologists based on their Competence, Integrity, and Ethics.
• Categories of Membership - Certified Professional Geologist, Professional, Young Professional, Associate, and Student.

Ombudsman - Intervenes with regulatory boards and agencies on behalf of individual geologists, at the geologist's request. Information also is disseminated in cooperation with the Association of State Boards of Geologists.

Geo Events and Other Useful Links

For Sheltering: Homeschool and Online Courses

  Khan Academy
  Robinson Home School Curriculum
  Study.com
  Regis University Online
  University of Northern Colorado Online
  Metro State Online
  Coursera University Boulder
  Colorado School of Mines online
  MIT Open Learning Library
  Arizona State U. Virtual Field Trips

Water News

  FERC approves Gross Reservoir Expansion
  Denver Water Quality Report 2020
  Water and Increasing Costs
  Trade Wilderness for Water: Aurora
  Permian Water Creates Problems and Solutions
  Colorado Water Congress 2020 Convention
  Roster of Water User Organizations
  Water Project Funding Opportunities
  Citizen's Guide to Colorado Water Law
Geo Events and Other Useful Links (Continued)

Mining News
Colorado has a New Rare Earth Processing Plant
Clean Coal Technologies
Baseload Retirement Problems
Wyoming and Coal Retirement Plans
Battery Testing and Renewables
The Future is Mining
Critical Minerals List USGS
Map: Uranium Tailings Sites in Colorado
World Metals and Minerals in One Visual
Where Mining is Thriving
Future Global Mineral Resources
SME Technical Briefing Papers
Mining Timeline in Colorado
Industrial Minerals in Colorado-USGS

Environmental Remediation News
Removing Toxic Chemicals from Water
New TENORM Rulemakings Comment Period
Low Dose Radiation
Enviroclass Webinars
Envirosummit Sept.1-3, Charlotte NC
Environmental Restoration Jobs
Sites – Covenants and Use Restrictions
Environmental Career Jobs by State
Remediation Government Bids & RFPs
Brownfields-Remediation-CERCLA JOBS

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Professional Geology
Tennessee Pass Train?
Net Zero Carbon by 2050 Proposal
National Legislative Trends
Spencer: Midwest Warming - Model vs. Reality
Colorado Geographic Naming Board
Harvard Business Analytics Program
The Case for Hiring Older Workers
Good Read: How Innovation Works - Matt Ridley
Critical Minerals and Clean Energy
Central Colorado Geology Road Log (See Page 12)
Building ArcGIS Story Maps
Tell your Story with StoryMaps
Geo Events and Other Useful Links (Continued)

Starting Salaries: Colorado Masters Programs
Virtual Reality and Outcrops

Petroleum News

COGCC Rulemaking: Public Comments accepted to 8/14/2020 & 9/18/20
Submit your written comments to DNR_COGCC.Rulemaking@state.co.us Comments on the 200-600 Series Rules are due 8/14/20 at 5pm. Comments on the 800/900/1200 Series Rules are due 9/18/20 at 5pm. The Subject line must include which rulemaking the comment is concerning.

The proposed rules can be VIEWED HERE

Dan Haley: Why Colorado O&G Production Makes Sense
COGCC Proposes higher mill levy on producers
Hickenlooper vs. Gardner
DOE - Export Approval to Jordan Cove
Occidental to sell 190,000 acres of mineral rights-railroad strip
AAPG Toolkit for Continuing Education
The Way Ahead: Effective Remote Work
Python Basics for the Oilfield
Virtual Energy Summit August 17-19
Networking with COGA's ENGEN Program

Nuclear Energy for the 21st Century

AIPG Colorado Position Statement on Nuclear Energy and Survey Results
Nuclear Energy is Climate Justice
Low-Dose Ionizing Radiation
Interactive Map of America’s Nuclear Projects
Is Hydrogen the New Wonder Fuel?
Advantages and Challenges of Nuclear Energy
National Security Requires a Stronger Nuclear Energy Industry
Energy Secretary: Restore American Nuclear Leadership
Building a Uranium Reserve
Uranium Sources for Nuclear Power
Industrial Applications of Nuclear Energy
Three Reactor Types to Watch - 2030
Testing on Molten Salt Reactors
NEW COLORADO LAWS on NATURAL RESOURCES
Legislative/Regulatory Report
Colorado Section: American Institute of Professional Geologists
August 2020
Chair: Ron Pritchett

See a Spreadsheet Summary of Proposed New Laws as of: 7/17/2020, color-coded as to natural resources and commerce related to water, oil & gas, mining, environmental remediation, professional practice, and modular nuclear energy, plus a Website Link for Bills.

In the past month, the Governor signed the following Bills to law:
* Regulation of Perfluoroalkyl and Polyfluoralkyl substances-HB20-1119
* Environmental Justice - increased fines-HB20-1143
* Sunset Coal Mine Board of Examiners - Continued-HB20-1208
* Sunset Water Wastewater Facility Operators Certification Board - Continued-HB20-1215
* Increase Public Protection Air Toxics Emissions-HB20-1265
* Hazardous Materials Transportation Permit Issuance-SB20-118
* Keep Presumption Noninjury Water Rights on Divided Land-SB20-155
* Increase Fees to Protect Air Quality-SB20-204

For details, please: visit this Bill Summary Website link, type-in a Bill number, click on the Bill Title, and read the Fiscal Notes associated with these Bills to see costs and details. Of 53 Bills that affect geologic professions identified at the start of the year, 17 were signed to law, 29 were killed, and 7 were laid-over to year-end.

Ballot initiatives
See this Ballotpedia link to see initiatives that are on the ballot November 3rd. See also potential measures dependent on signature gathering, measures with Titles set, and a summary of contributions to measures. For example, see signature-gathering for: #174, forces a 2,500 ft. setback for O&G operations from occupied buildings (takes mineral rights); #284, allows natural gas for domestic use (counters bans on use of hydrocarbon fuel); #295, requires voter approval for government enterprises that are exempt from the TABOR amendment; and #306, which lowers the Colorado income tax rate (countering fees not called taxes.)

Recommendation: - Citizen Action
AIPG professionals will have opportunities to serve on Boards, such as:
1) Air Quality Enterprise Board (SB20-204)
2) Geographic Naming Board (Executive Order B 2020-004)

Geologists can be concerned with plans to change Colorado’s historic names, which could erase names and places important in geologic reference literature.
Legislative/Regulatory Report (Continued)
Thanks to all who have contacted Senators and Representatives to lobby for or against Bills that are constructive or destructive toward prosperity potential derived from geologic professions. Please take a look at the Ballot Initiatives and act to protect your rights and responsibilities. Prepare for voting November 3rd, and vote like a professional geologist.* * *

See:
 Citizens' Guide to Lawmaking & Lobbying
Live and Archived video
 Colorado Law Debate and Vote Process:

AIPG Members please consider Colorado State committee and board positions. See all Boards and Commissions populated by a Governor nomination and State Senate confirmation may be required; include your personal note with reference to the Board Position. Thank you for your Professional Geology! If you do not apply and serve, the Governor will appoint someone who may not have qualifications appropriate for wise use of natural resources.
Meanwhile - lend your expert opinion on legislation: please contact your Legislators

TENORM (Technically Enhanced Naturally Occurring Radioactive Materials)
(stems from Law SB18-245)
...link to Colorado Dept. of Public Health & Environment.
...link to reference documents:
...link to Colorado TENORM Stakeholder Input Files:

Add improved presentation and leadership skills in a Toastmasters program; for example, visit Cherry Creek Toastmasters any Thursday from 7:00-8:30am.

Allied Professional Societies
Colorado Allied Professional Societies - look in "Events" on these websites for: meetings, lunch speakers & topics, trend articles, courses and on-line courses, field trips, publications, opportunities to speak, and opportunities to publish. Expand your interdisciplinary skills!

The Rocky Mountain Association of Geologists (RMAG)
Society of Petroleum Engineers Denver Section (DenverSPE)
Society of Independent Professional Earth Scientists-Denver (SIPES)
Colorado Scientific Society (CSS)
Denver Area Petroleum Landmen (DAPL)
Denver Geophysical Society (DGS)
Legislative/Regulatory Report (Continued)

Denver Well Log Society (SPWLA)
Denver Region Exploration Geologists (DREGS)
Association of Women Geoscientists-Laramide Chapter (AWG Laramide)
Society for Sedimentary Geology-Denver (RMS-SEPM)
Society of Economic Geologists (SEG)
Colorado Environmental Management Society (CEMS)
Petroleum Technology Transfer Council (PTTC)
Rocky Mountain Mineral Law Foundation (RM-MLF)
Colorado Mining Association (CMA)
Minerals Education Coalition (MEC)
Mining and Metallurgical Society of America (MMSA)
Society for Mining Metallurgy and Exploration (SME)
National Mining Hall of Fame (NMHF)
Western Museum of Mining and Industry (WMMI)
Denver Mining Club Ltd (RAM)
Rocky Mountain Coal Mining Institute (RMCMI)
Colorado Foundation for Water Education (FWE)
Water Information Program (WIP)
Love Colorado Water (LCW)
LTE Environmental Newsletter (LTENV)
International Erosion Control Association (IECA)
Nuclear Science and Engineering CSM (NuclearMines)

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Important References!

Colorado Professional Geologist digital files all the way back to 1993 are posted to the CO AIPG dropbox site: Thank you David Abbott for creating and preserving this valuable record of AIPG Colorado ideas.

AND

Field Trip Files from 1974

Reference Articles on "Policy Science"
Foundation of policies that help or harm.

Stay on top of Resource News - visit these sites:
Complete Colorado
and
Denver Business Journal
See the Energy Section for Trends in Colorado
and
Western Wire
Legislative/Regulatory Report (Continued)

**The Visual Capitalist**
Graphic trends and conditions, including topics of Energy, Mining, and "Green" topics.

**Mining made visual** **Lobbying groups** which may have interests aligned with Colorado AIPG:
*COGA* (Colorado Oil and Gas Association): Public Affairs - Scott Prestridge
*CAMRO* (Colorado Alliance of Mineral Royalty Owners): President Neil Ray
*CPA* (Colorado Petroleum Association): Exec. Director Angie Binder
*CMA* (Colorado Mining Association): President Stan Dempsey
*Colorado Water Congress*: President: Erin Wilson
*Energy Strong*: President: Dustin Case
*WEA* (Western Energy Alliance) - Kathleen Sgamma
*WOGA* (Women in Oil and Gas Association) - Egle Metsaev, President
As Bills move through the legislature in 2019, AIPG Colorado may join the groups above in taking positions.

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**Colorado Environmental Management Society Newsletter**

**The Professional Geologist Newsletter**

**AIPG Colorado LinkedIn**

**AIPG Colorado Facebook Link:**

**The Regulation Razor** - (scroll down on web page) Compliance/Eng./Remediation and Jobs

**Metro State University &** **Applied Geology**

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**EnergyJobLine**

**Rig Zone Jobs**

**Lobbying groups** which may have interests aligned with Colorado AIPG:
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*WEA* (Western Energy Alliance) - Kathleen Sgamma
*WOGA* (Women in Oil and Gas Association) - Egle Metsaev, President
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**Colorado Environmental Management Society Newsletter**

**The Professional Geologist Newsletter**
Legislative/Regulatory Report (Continued)

Colorado Geological Road Log Update

Sometime in the next two months your editor will be rolling out a new and improved Central Colorado Geological Road Log. ESRI has updated their ArcGIS Story Map software which requires your editor to do an overhaul of the materials in the current version. It also requires a lot of cutting and pasting from the old to the new version. I am currently busy updating and bug proofing this new version. I will let everyone know when the next version is available. As always, this application is free for all to use. All that is needed is an Internet connection accessed by cell phone, tablet, or laptop.

The current version can be found here: https://www.arcgis.com/apps/Cascade/index.html?appid=e2547951e5cc4406a44d417d85606762