

FAULTED DIGEST

Vol. 4 Issue 4 July - September

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AIPG Colorado
Selection Publication

Brought to you by AIPG Colorado
Welcoming Summer in Colorado

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THE PRESIDENT

Jessica Cutter



AIPG COLORADO SECTION

Happy May to my fellow Colorado Section members! I can't believe we are already almost halfway through 2025 – time certainly flies when you're having fun!

The Section has planned several gatherings for the summer months, and I hope to see you at one (or all!), so mark your calendar:

- Saturday, May 17, 2:00 pm @ Golden City Brewery
- Saturday, June 21, noon. Summer Picnic (click the link to register!)
- Wednesday, July 16, 5:00-7:00 pm. Happy Hour at Twin Peaks
- Saturday, August 16, 2:00 pm @ Evergreen Brewery
- Thursday, August 28, Save The Date – CEMS Golf Tournament @ West Woods Golf Club
- Saturday, September 13, 2:00 pm, I-70 Roadcut walking field trip followed by Over Yonder Brewery
- October: Mini Golf, date TBD

More details can be found on the Section's website: <https://aipg-cosection.org/>

Plus, I'm finalizing the details for a field trip to the Hidee Mine in Central City on August 2nd, so save the date!

As the year progresses, the Executive Committee will announce open positions for 2026. If you would like to get involved, please reach out to me at davey.jessica7@gmail.com with any questions.

NEWSLETTER EDITOR'S

Vanessa
Magaña



Happy Summer!

We at the AIPG thank you for your support and as always, we welcome all of you to submit any articles, research papers, media, photos, new findings, etc., that you wish to have published in our quarterly newsletter. Please be sure to submit high quality content and of course you can email me directly if you have any questions.

Congratulations to State Representative Kyle Brown and State Senators Larry Liston and Cleave Simpson on winning Legislator of the Year. Please check out their bios!

You can advertise your business too while supporting the AIPG! Head to https://aipgcosection.org/form.php?form_id=21 for information on sponsorships and pricing. A special thank you to our sponsors!

Are you looking for a new job? Check out our job postings page for current job opportunities in Colorado and out-of-state.

Vanessa G. Magaña

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President

Jessica Cutter

davey.jessica7@gmail.com



President-Elect

Frank Sims

franksimsgeo@outlook.com



Treasurer

Kyle Reamer

reamerkyle14@gmail.com



Secretary

Nick Coscarella

nicolascoscarella@gmail.com



Leg/Reg Chair

Mike Bowers

mallenbowers@gmail.com



Newsletter Editor

Vanessa Magaña

vanessa.magana707@gmail.com



Advisor

Joe Brinton

joe.ridgerunnergeo.com



Advisor

Robin Swank

robin.swank@gmail.com



Advisor

Dalton Seymour

dseymour2222@gmail.com



Advisor

Tim Thompson

tandj_thompson@q.com

2025



Lobbyist

Brett Moore

brett@ontheballot.co

LEGISLATOR OF THE YEAR

Congratulations!



State Representative Kyle Brown
- House District 12
Boulder and Broomfield Counties

State Senator Larry Liston -
Senate District 10
El Paso County



State Senator Cleave Simpson -
Senate District 6
*Alamosa, Archuleta, Conejos, Costilla,
Dolores, La Plata, Mineral, Montezuma,
Montrose, Ouray, Rio Grande,
Saguache, San Juan, and San Miguel
Counties*



State Representative Kyle Brown - House District 12
Boulder and Broomfield Counties

Representative Kyle Brown's parents were drawn to Boulder County by the quality of life and the promise of new beginnings. He and his wife Kate, and attended high school together in the area, but only met after each moved to Boston years later. They married and returned to Louisville to raise their kids and be close to their families.

Since receiving his PhD in Genetics from Harvard, he has devoted his career to public service, serving as a senior advisor to senior U.S. Senators and two Governors. He has worked to create and implement policies that expand access to quality, affordable health care while serving as a Deputy Commissioner at the Colorado Division of Insurance.

He served as an advisor for both the Colorado Dept. of Public Safety and the Colorado Dept. of Public Health and Environment during the pandemic to expand COVID-19 testing and develop state testing strategy. Finally, He served as a City Council member for the City of Louisville from 2020 until taking office as a state Representative in 2023.



State Senator Larry Liston - Senate District 10
El Paso County

Senator Larry Liston has lived in his Senate District for over 50 years. He retired in 2008 after 33 years as vice-president for the Royal Bank of Canada. He has served twelve years in the Colorado General Assembly as a State Representative for House District 16 and was elected State Senator, District 10 in November 2020.

State Senator Liston has consistently been recognized over the years for his leadership and believes in limited government, strong national defense, and our men and women in law enforcement. He is a strong advocate for free-market businesses that create jobs and a future for the citizens of our communities.

He is a long-standing member of the Downtown Colorado Springs Rotary Club, active member of the First Presbyterian Church of Colorado Springs, enjoys golfing, hiking, and reading books on history.



State Senator Cleave Simpson - Senate District 6

Alamosa, Archuleta, Conejos, Costilla, Dolores, La Plata, Mineral, Montezuma, Montrose, Ouray, Rio Grande, Saguache, San Juan, and San Miguel Counties

Senator Cleave Simpson serves as the general manager of the Rio Grande Water Conservation District and past chairman of the on the Adams State University Board of Trustees. Simpson's primary focus in the senate is rural Colorado relevance, resilience and prosperity.

A fourth-generation San Luis Valley farmer and rancher, Simpson has a deep understanding of the water issues facing Colorado's agriculture and rural communities. He believes leadership through a thoughtful, collaborative approach is necessary to provide solutions to the pressing needs across Senate District 35 and the state of Colorado.

Simpson serves as a representative on the Rio Grande Basin Roundtable and is a Roundtable representative to the statewide Interbasin Compact Committee. He is active in the Colorado Water Congress, and has served on the Farm Service Agency County Committee, Alamosa County Planning Commission, Alamosa Mosquito Control District and Alamosa School District Accountability Committee. He is a member of Action Colorado, and the Colorado Farm Bureau.

NATIONAL EVENTS

For more info on all NATIONAL EVENTS, please visit: https://aipg.org/events/event_list.asp

May

20th: AIPG Texas Section Monthly Webinar — World Class Mississippi Valley-Type Oregon Deposits of the Lower Midwest: Genesis, Exploitation and Environmental Concerns.
12:00 Noon Central Time

23rd: AIPG Students/Early Career Professionals Webinar Series — Geoscience Software Demo
11am Mountain Time

June

6th: Anniversary of the Professional Geoscientist Act Toronto Marriott City Centre. 25th Anniversary.
Day Program: 1:30 p.m. to 5:00 p.m.
Evening Program: 5:00 p.m. to 8:30 p.m.

10th & 11th: AIPG MI Section 14th Annual Workshop

October

4th — 7th: AIPG National Annual Conference
Doubletree by Hilton Hotel St. Louis – Chesterfield 16625 Swingley Ridge Road
Chesterfield, Missouri 63017-1798 United States

November

5th — 7th: 5th International Professional Geology Conference (IPGC)

COLORADO EVENTS

For more info on all NATIONAL EVENTS, please visit: https://aipg.org/events/event_list.asp

June

12th – 15th: Friends of Mineralogy Colorado Chapter Symposium Specimen Mines of the United States. Colorado School of Mines, Mines Museum of Earth Science & Berthoud Hall, Golden, CO
To get more info as it becomes available or to register, go to <https://friendsofmineralogycolorado.org/symposium/>

21st: Summer Picnic (Must RSVP by midnight on June 18!) [AIPG Colorado Section - Meeting/Event Information](#).
Bear Valley Park - Picnic Site #1 6400 W. Dartmouth Avenue Denver, CO 80227. 12pm to 5pm.

July

16th: Happy Hour at Twin Peaks. 5pm to 7pm. [AIPG Colorado Section - Meeting/Event Information](#).

August

16th: Evergreen Brewery. 2pm. [AIPG Colorado Section - Meeting/Event Information](#)

28th: Save The Date – CEMS Golf Tournament at the West Woods Golf Club. Time TBD.

September

13th: I-70 Roadcut walking field trip followed by Over Yonder Brewery. 2pm.

October

14th & 15th: Rocky Mountain (CO, MT, NV, UT, WY) Groundwater Conference. Colorado Mesa University - University Center, 1100 North Ave., Grand Junction, CO

Variscite

Variscite was first described in 1837 from a deposit in the Vogtland region of Germany. Variscite was named after the Variscia, which is the historical term for the Vogtland. Variscite is a phosphate mineral that is typically mined on a small-scale, often using hand-tools. Today, many of the most beautiful specimens come from Utah, USA (Julie Abouzelof).

Formula: $\text{AlPO}_4 \cdot 2\text{H}_2\text{O}$

Luster: Vitreous, Waxy

Transparency: Transparent, translucent

Color: Pale to emerald green, blueish green, pale brown and grey.

Streak: White

Mohl's Hardness Scale: 3.5 – 4.5

Clearage: Distinct/good

Crystal System: Orthorhombic

Specific Gravity: 2.57 – 2.61

LAND FEATURE-ING *Igneous Dikes*

What is an Igneous Dike (Dyke)?

Dikes are tabular or sheet-like bodies of magma that cut through and across the layering of adjacent rocks.

How Do They Form?

Igneous dikes form when magma rises into an existing fracture or creates a new crack by forcing its way through existing rock and then solidifies.

The Great Dikes of Huerfano County, CO

The Great Dikes formed during the same period of volcanic activity as the Spanish Peaks, Mt. Mestas, and Silver Mountain, about 24 million years ago during the Miocene Epoch. Most of the dikes are granite. These vertical granite formations were formed by molten rock several thousands of feet underground, below younger sedimentary rock layers that were deposited later. Over time, the softer, younger rock eroded away exposing these igneous intrusions.

Information:

Spanish Peaks Country. (2024, January 11). *Geology and Mountains* | *Spanish Peaks country*. <https://spanishpeakscountry.com/mountains-geology/>

www.usgs.gov

FUTURE CAREERS

Tallgrass MLP Operations, LLC [Compliance Geologist, Sr.](#)
Lakewood, Colorado, United States (Full-time)

Moore Engineering Inc [Senior Water Rights Engineer](#)
Denver, Colorado, United States (Full-time)

Moore Engineering Inc [Groundwater Modeler](#)
Denver, Colorado, United States (Full-time)

[Endress+Hauser Inc.](#) Industry Marketing Manager - Mining,
Minerals & Metals (Remote)
Denver, CO 80219 (Full-time)

Woodard and Curran [Entry-level Environmental Engineer,
Geologist, or Scientist](#)
Lakewood, United States (Full-time)

[McKinsey & Company](#) Specialist – Mining, Mineral Processing
1800 Larimer Street, Denver, CO 80202

Newmont [Mining Global Category Manager - Contract Mining](#)
Denver, Colorado, United States (Contract)

For more information on job listings, visit the links below!

[Mining Industry Jobs, Employment | Indeed](#)

[Geology Jobs - American Institute of Professional Geologists
\(AIPG\)](#)

The April/May/June 2025 Issue of *The Professional Geologist* is available on the AIPG website! Featuring:

Page 6 - Chemical and Textural Degradation of the Kaibab Limestone's Helium Diffusion Resistance: A Comparative Analysis of the Fort Hays Limestone
Dalton R. Seymour, SA-11597 and Uwe Kackstaetter, PhD., MEM-2437

Page 10 - Thank you! University of North Dakota, School of Geology and Geological Engineering
Dawn H. Garcia, CPG-08313

Page 12 - Peer Reviewed: New Modeling and Estimation Methodology to Address Porphyry Drift Using Enclosed 3D Volumes
Justin N. Cardwell, CPG-12059

Page 19 - The Del Rio Clay of North-Central Texas; A Synopsis of its Geological Attributes and Geotechnical Properties
Robert G. Font, CPG-03953

Page 31- Call to Action!
John M. Nadeau, PG, CPG-11181

Page 40 - An AIPG GEO-Human-Interest Story: What are the Odds?
John L. Bogнар, CPG-8341

The Professional Geologist (TPG) April/May/June Issue

AIPG PURPOSE

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.

Image Credit: USGS



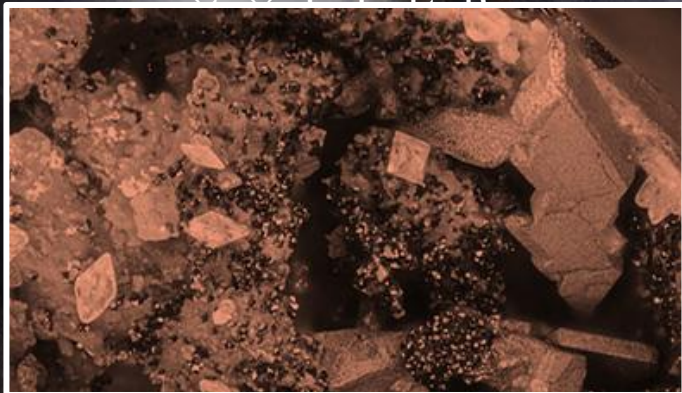
WHAT WE DO

Professional Certification - Certifies geologists based on their Competence, Integrity, and Ethics.

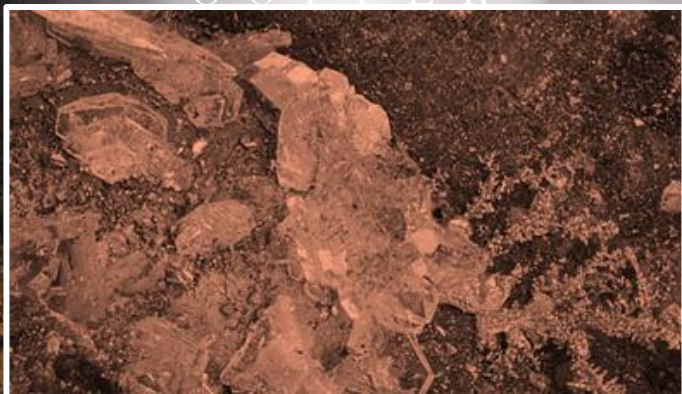
- Categories of Membership - Certified Professional Geologist, Professional, Early Career Professional, Associate, and Student.
- Ombudsman - Intervenes with regulatory boards and agencies on behalf of individual geologists, at the geologist's request. Information also is disseminated in cooperation with the Association of State Boards of Geologists.
- Lobbying - Presents testimony and position papers to Federal and State legislators and agencies on matters affecting geologists and geologists' employment opportunities. Exhibits at the National Conference of State Legislators.
- Liability Insurance - Provides access to insurance for errors and omissions, designed specifically for geologists.
- Continuing Education - Through online learning, publications, seminars, short courses, and field trips, provides educational opportunities for geologists, other scientists, engineers, and the general public.
- Supplemental, Life, and Accident Insurance - Provides access to a full line of supplemental, life, and accident insurance.
- International Comity - Through agreements with professional societies in other countries, provides access for its Members to professional registration, certification, or chartered status in those countries.
- State and Section Activities - State and regional sections work on local political issues and the professional status of geologists in their geographic areas. The Institute's sections around the country hold regular meetings, featuring educational programs covering important subjects of interest to professional geologists. One of the most worthwhile benefits of AIPG Membership is the opportunity to make personal contact at the local and State level; to meet fellow geologists; and to learn from them.

SPONCORS

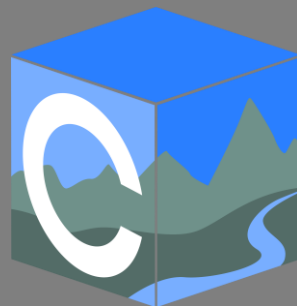
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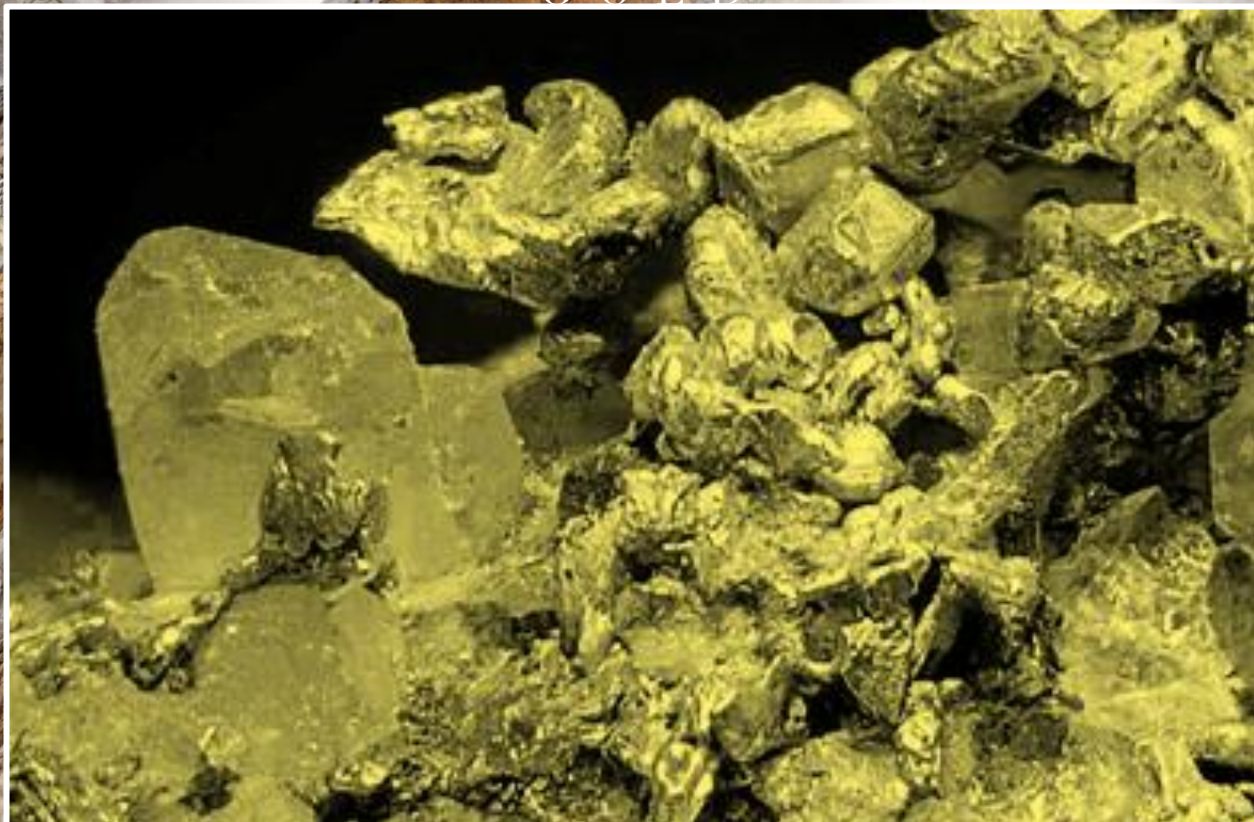
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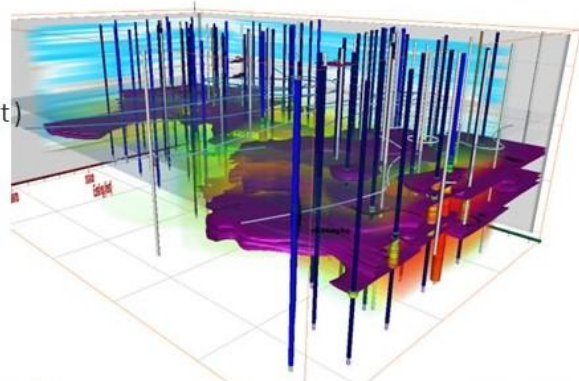
G O L D



D I A M O N D

SITE CHARACTERIZATION

Membrane Interface Probe (MIP, MiHpt)
Optical Image Profiler (OIP-UV, OIP-G, OiHpt)
Hydraulic Profile Tool (HPT)
3D Data Visualization & Modeling
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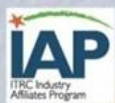


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COMPETENCE • INTEGRITY • ETHICS

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