

FAULTED DIGEST

Vol. 2 Issue 2 July – September
2024

AIPG Colorado
Selection Publication

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Welcoming Summer in Colorado

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COMPETENCE • INTEGRITY • ETHICS

THE PRESIDENT'S

Joe Brinton



Hello!

I hope you are all enjoying your summer. Family vacations, picnics, field work...it is a great time of year.

Foremost on my mind right now is the AIPG National Conference, right here is our own backyard- Durango, Colorado. It will be held from August 10 thru August 13 on the campus of Fort Lewis College. There will be posters, technical sessions, and sponsors/exhibitors. Not to mention, it is a spectacular time to be in the San Juan mountains.

I want to take a moment to thank, in advance, all those that have put in time and effort to help arrange this event. I am very much looking forward to it.

In the meantime, keep up the good work that you are doing, take care, and be safe.

Joe Brinton

NEWSLETTER EDITOR

Vanessa Magaña



Hello and Happy
Summer!

My name is Vanessa. I'm a geology student at MSU Denver with an interest in volcanology and igneous petrology. I currently work in the funeral industry by day and a painting instructor by evening.

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 reach out to me if you have any questions.

A special thank you to our current sponsors *Davey* and *Vista GeoScience*, for their continued support. You can advertise your business too while supporting the AIPG! Head to https://aipg-cosection.org/form.php?form_id=21 for information on sponsorships and pricing.

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

I hope everyone continues to have an amazing summer! Take care and stay hydrated.

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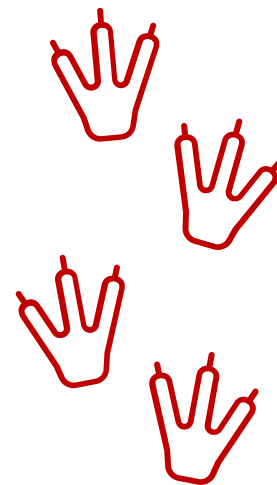
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2024

Beryl AQUAMARINE

The name aquamarine comes from the Latin word “aqua” meaning water and “marine” meaning “of the sea”. Like emerald, it belongs to the Beryl family. It is mostly mined in high elevations of about 15,000 ft (4572 m) in the Karakoram Mountains in Pakistan. Aquamarine is usually associated with granitic pegmatites.

Formula: $\text{Be}_3\text{Al}_2\text{Si}_6\text{O}_{18}$

Luster: Vitreous

Transparency: Transparent-Translucent

Color: Light blue to greenish-blue to clear

Streak: White

Mohl's Hardness Scale: 7.5-8.0

Clearance: Poor

Crystal System: Hexagonal

Specific Gravity: 2.72



NATIONAL EVENTS

Image Credit: Bing Stock Images

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

J U L

30th: AIPG Lunch & Earn – Florida Water Law and the Central Florida Water Initiative. 11:00 am Mountain Time.

A U G

10th: AIPG Executive Committee Meeting/Advisory Board Meeting. 8:00 am Mountain Time.

10th – 13th: 2024 AIPG National Conference

16th: AIPG National Executive Committee Monthly Virtual Check-In Meeting. 12:00 pm

S E P

17th: AIPG Texas Section Webinar Series-Potential Land & Mineral Resource Constraints on the Green Economy
12:00pm Noon Central Time

19th: AIPG Town Hall for Section Officers. 3:00 pm Mountain Time

20th : AIPG National Executive Committee Monthly Virtual Check-In Meeting
12:00 pm.

29th: UAS Geoscience 2024

NATIONAL EVENTS

Image Credit: Bing Stock Images

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

O C T

13th-19th: Earth Science Week 2024

18th: AIPG National Executive Committee Monthly
Virtual Check-In Meeting
12:00pm

N O V

15th: AIPG National Executive Committee
Monthly Virtual Check-In Meeting
12:00pm

20th-22nd: 5th IPGC

D E C

4th: AIPG Town Hall for Section Officers
3:00am

20th: AIPG National Executive Committee Monthly Virtual
Check-In Meeting

COLORADO EVENTS

Image courtesy: David Patterson

August

10th: 2024 AIPG National Conference

16th: AIPG National Executive Committee Monthly Virtual Check-In Meeting

September

6th-15th: Denver Gem & Mineral Show. 9:00am-6:00pm.

20th: AIPG National Executive Committee Monthly Virtual Check-In Meeting. 12:00pm

October

18th: AIPG National Executive Committee Monthly Virtual Check-In Meeting. 12:00pm

November

15th: AIPG National Executive Committee Monthly Virtual Check-In Meeting. 12:00pm

December

20th: AIPG National Executive Committee Monthly Virtual Check-In Meeting. 12:00pm.

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



Geology-themed Paint and Sip Event

Written by Jessica Davey, MEM-3242

On Saturday, June 8, the Colorado Section hosted a first-of-its-kind event—geology-themed paint and sip! Our newest member of the CO Section Executive Committee, Vanessa Magaña created a fun take on the Front Range cross section for our group to paint, and she led us all in creating our very own masterpieces.



Summer Field Trip and Picnic

Written by Jessica Davey, MEM-3242

This year, Mike Bowers (CO-Section Legislative and Regulatory Chair) had the fantastic idea of hosting our summer field trip and picnic on the same day. We have received several requests to hold events south of Denver, so Monument, CO, became the focus for our “day of fun.”

We met at the Western Museum of Mining and Industry for a private tour led by a volunteer geophysicist named Ken. Ken led our group through the museum, where we learned about the history of mining in Colorado and the technology that was implemented throughout time, driven by economy and environmental regulations. We all got to try our hand at panning for gold as well! We ended the tour in the members-only library filled with modern and historic books on everything mining-related. If you have yet to check out the museum, I can’t recommend it enough! The displays were very well done, complete with a full replica of a hard rock mine and even one of the rescue cages that was built for the 2010 Chilean mining accident. There are several acres of outdoor spaces to discover, as well, filled with historic equipment and machinery.

Following the museum tour, we convened at Mike Bowers’ home in Monument for our annual potluck picnic. Everyone had a wonderful time catching up and meeting new acquaintances.



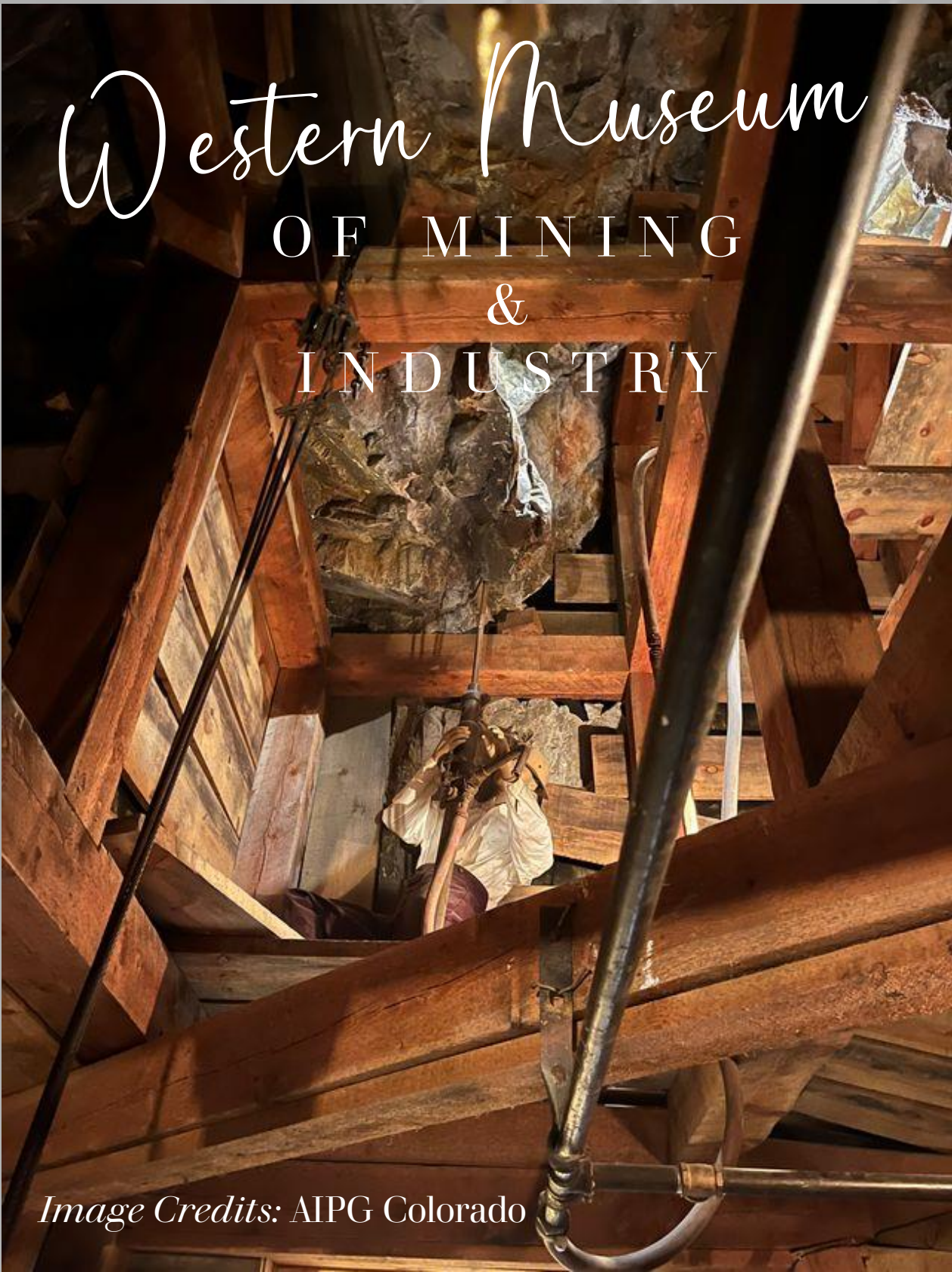


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Colorado Section Annual Dinner Recap

Christina Tiggemann, SA-11458

The Colorado Section hosted the 2024 Annual Dinner on April 12 at the SpringHill Suites by Marriott in Denver. We were delighted to see a diverse turnout, with members from all corners of Colorado, including undergraduate and graduate student members. The evening kicked off with a unique opportunity for mentoring and socializing, accompanied by delicious hors d'oeuvres and beverages generously provided by the Colorado Section.

The speaker for the evening was dear friend and fossil enthusiast Steve Jorgensen, who presented *When Bad Things Happen to Good Menuites: Evidence of Predation On Menuites oralensis*. Steve provided much insight into this fabulous fossil, including having it named after himself! The *Didymoceras jorgenseni* is found in the *Baculites scotti* biostratigraphic range zone of the Pierre Shale (~75.5 mya). Not only did he have one ammonite named after him, but he had another! The second was *Collignonoceras jorgenseni* from the *Collignonoceras praecox* biostratigraphic range zone of the Carlile Shale (~90 mya). What outstanding accomplishments Steve has attained, we thank him for sharing this with us!

Thank you to everyone who joined us that evening; you make this section what it is!

Image Credit: AIPG Colorado



AIPG

Colorado Section Annual Dinner Recap



Image Credit: AIPG Colorado



All three images are of *Didymoceras jorgenseni* found from the *Baculites scotti* biostratigraphic range zone of the Pierre Shale (75.5 mya). - Christina Tiggemann



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FUN & GAMES

THE SUNDANCE SEA

K	E	A	R	J	D	R	T	U	T	I	N	S	D	E
Y	G	L	E	S	Y	A	W	K	C	A	R	T	A	I
E	I	D	P	T	R	S	I	A	C	N	S	E	I	C
T	S	Y	E	T	H	I	K	I	C	S	T	G	D	H
C	K	R	R	S	T	E	R	C	U	A	A	R	R	T
A	C	E	N	Y	S	I	R	N	N	O	L	Y	E	H
S	C	T	N	C	E	Y	D	O	D	I	F	P	R	Y
S	T	O	Y	P	L	A	I	S	P	C	L	H	S	O
R	C	Y	E	C	N	T	C	P	R	O	A	A	J	S
Y	I	U	T	C	I	O	Y	M	M	R	D	E	E	A
L	I	M	E	Y	M	U	D	A	S	I	I	A	Y	U
C	A	E	E	P	E	T	A	O	A	T	T	C	H	R
A	M	M	O	N	I	T	E	S	O	Y	E	H	A	M
L	O	S	P	C	I	S	S	A	R	U	J	A	S	R
R	S	D	I	O	N	I	R	C	L	H	N	R	L	S

SUNDANCE
TRACKWAYS
AMMONITE

JURASSIC
EPEIRIC
TIDALFLATS

LIMEYMUD
GRYPHAEA
CRINOIDS

THEROPOD
SEA
ICHTHYOSAUR

FUN & GAMES

METAMORPHIC ROCKS

G	T	L	N	S	S	E	I	A	K	E	A	T	E	I
I	A	M	H	E	N	T	H	G	N	I	E	I	N	S
H	N	T	S	E	Y	A	P	O	O	C	S	T	L	K
S	I	E	A	E	S	L	T	S	L	E	L	S	E	T
Y	I	S	L	V	G	S	E	O	H	N	E	I	M	M
L	L	C	T	N	P	P	G	L	R	R	F	I	I	E
P	O	H	E	A	I	I	E	A	P	C	N	E	G	V
O	E	I	O	D	T	O	K	E	T	O	R	L	M	E
P	S	S	O	E	E	S	N	T	T	A	O	Y	A	A
S	I	T	V	T	E	T	I	L	L	Y	H	P	T	D
T	E	L	H	G	I	P	E	A	I	T	I	S	I	I
M	G	H	L	N	N	O	V	A	C	U	L	I	T	E
L	I	S	E	M	A	T	L	U	T	E	I	T	E	F
T	E	K	A	N	O	A	P	O	S	F	T	E	O	E
H	A	E	I	A	O	K	E	I	C	L	T	T	S	L

SLATE

SOAPSTONE

SCHIST

SERPENTINE

ECLOGITE

SKARN

NOVACULITE

EPIDOTE

GNEISS

MIGMATITE

PHYLLITE

HORNFELS

ATPG PURPOSE



Image courtesy: nicepng.com

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.

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

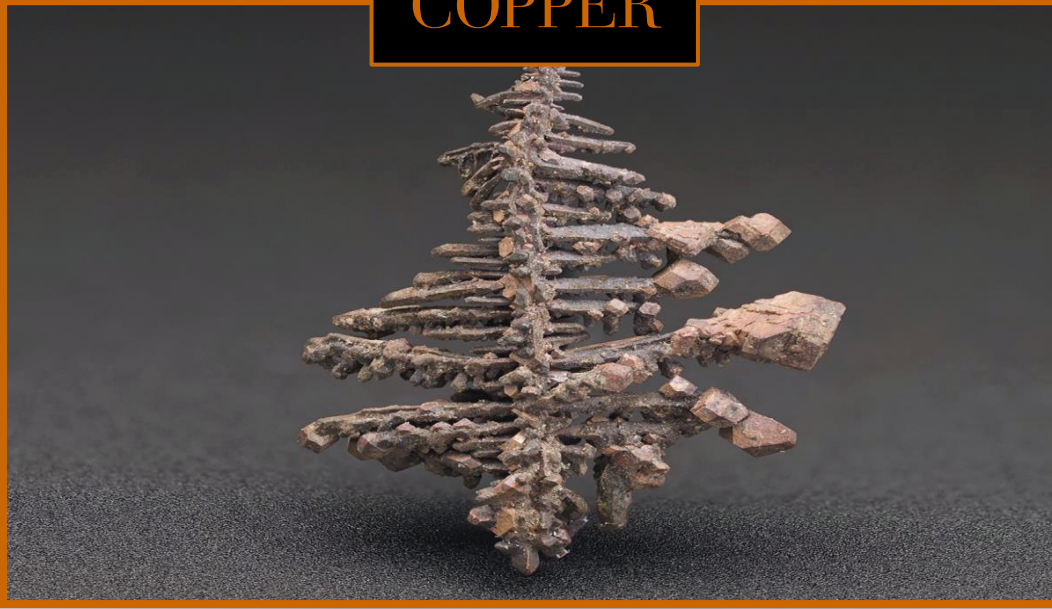
- Categories of Membership - Certified Professional Geologist, Professional, Early Career Professional, Associate, and Student.
- Ombudsman - Intervenes with regulatory boards and agencies on behalf of individual geologists, at the geologist's request. Information also is disseminated in cooperation 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.

WHAT WE DO

SPONSORS

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COPPER



SILVER

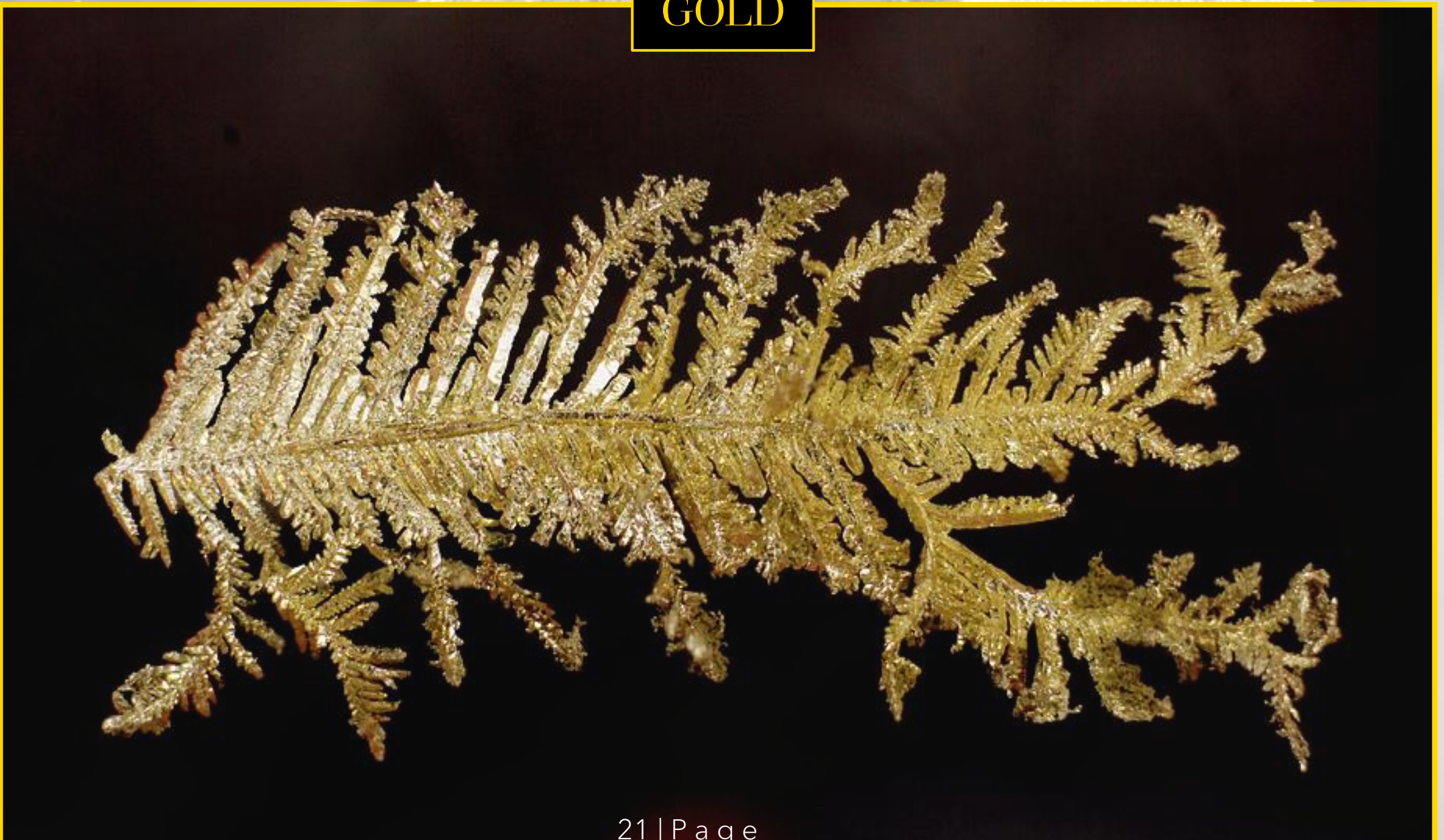


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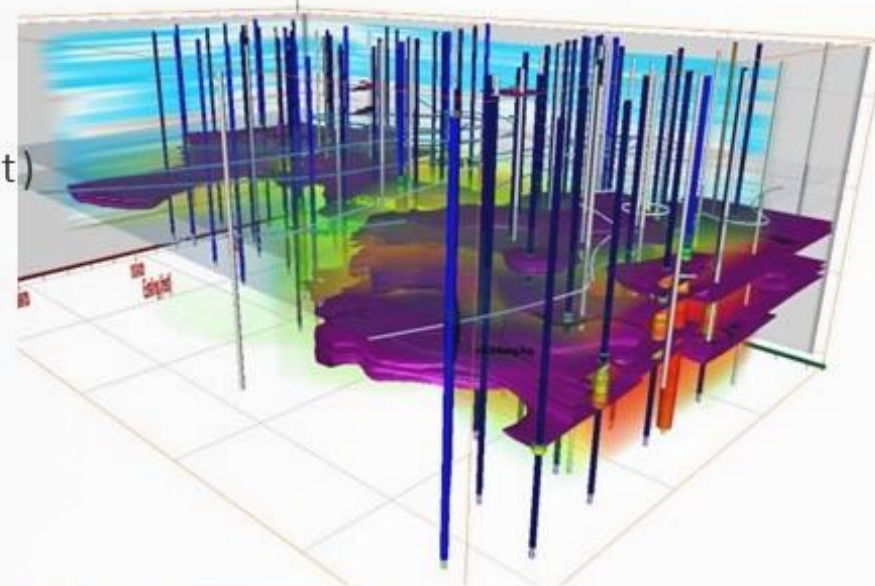
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GOLD



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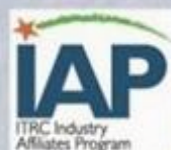
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