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Torridon Hills of Proterozoic Torridonian sandstones and conglomerates overlying Lewisian Gneiss; view west from summit of Slioch, Wester Ross, Scotland. K.H. Fryer, 2019
About E-News

AWG E-News is a monthly publication distributed the last week of each month.

How do I get my update included in the E-News?
Updates for E-News must be submitted to Enews@Awg.org by the 3rd Friday of the month.

How do I advertise in the E-News?
For information on advertising with AWG, please visit AWG.org/Advertise or email Ads@AWG.org.

How do I unsubscribe from the E-News?
Please email Office@AWG.org.

About AWG

The Association for Women Geoscientists (AWG) is devoted to enhancing the quality and level of participation of women in geosciences and introducing girls and young women to geoscience careers.

Our diverse interests and expertise cover the entire spectrum of geoscience disciplines and career paths, providing unexcelled networking and mentoring opportunities.

AWG members are brought together by a common love of earth science and the desire to ensure rewarding opportunities for women in the geosciences.

Visit AWG.org to join!

SUPPORT

Enclosed is my contribution of $___________

Please use my contribution for:

___ AWGF General Fund (supports greatest need)
___ Other: ________________________________

Name: _____________________________________

Address: ___________________________________

City/State/Zip: _______________________________

Phone or e-mail: ______________________________

Mail to: Kate Johnson, AWGF Treasurer, 652 Glimmergen Road

Cooperstown, NY 13326

Or donate online at www.awg.org

AWG Chapters

US Chapters

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DMV
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Great Lakes
Inland Empire
James Madison University
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Los Angeles/Orange County
Mid-Michigan
Minnesota
Montana
Nebraska Cornhuskers
North Dakota
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Oklahoma City
Osage
OSU Cowgirls
Ozark HAWGs
Pacific Northwest
Penn State
Ragin' Cajuns
Red Rock (Southern Utah University)
Salt Lake
San Diego State University
San Francisco Bay Area
Sierra
Southeastern Bluegrass
Southern Arizona
Sun City (El Paso)
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William and Mary
Williston Basin

International Chapters

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Dalhousie University
Ireland
Mongolia
Patagonia
South East Asia
Note from the Editor: Resources!

AWG has compiled a Webpage of Resources for education and action to communicate the challenges associated with intersectionality faced by women from underrepresented groups in the geosciences including members from underrepresented ethnicities, women of color, LGBTQ+, and visible and invisible disabilities. Link: http://awg.org/EDI_Resources

We envisage this to be an active webpage, and invite members to submit resources they have found useful. We ask that you write a short description of the value of the Resource in order that this page is more useful than a simple list. Email webmanager@awg.org to submit!

Thanks for your involvement!

What you can find on this site:

- **Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine:** Careers in science, engineering, and medicine offer opportunities to advance knowledge, contribute to the well-being of communities, and support the security, prosperity, and health of the United States. But many women do not pursue or persist in these careers, or advance to leadership positions - not because they lack the talent or aspirations, but because they face barriers, including: implicit and explicit bias; sexual harassment; unequal access to funding and resources; pay inequity; higher teaching and advising loads; and fewer speaking invitations, among others.

- **Check out the Urban Institute:** A nonprofit research organization that believes decisions shaped by facts, rather than ideology, have the power to improve public policy and practice, strengthen communities, and transform people’s lives for the better. For nearly 50 years, Urban has collaborated with philanthropists, social services providers, community advocates, businesses, and federal, state, and local leaders to discover, advise and solve challenges in communities nationwide.

- **Take the Project Implicit:** self test

- AND MUCH MORE!

**Recommended Reads**

- U.S. Rescinds Plan to Strip Visas From International Students in Online Classes: [LINK HERE]

- *Claire Parkinson, Climate Change Senior Scientist at NASA, discusses her work in sea ice research and the Aqua Satellite Mission at NASA:* [LINK HERE]
Memorial: Dr. William Crawford

We were sorry to learn of the passing of Dr. William Crawford, Professor Emeritus of Geology at Bryn Mawr College. Stacey Quarles, AWGF Secretary, recalls being fortunate to be indoctrinated to the wonders of mineralogy and crystallography while attending Bryn Mawr in the mid-eighties, with faculty members Drs. William and Maria Luisa Crawford, and notes that Bill and Weecha Crawford together have impacted the lives of many geoscientists and a particularly large proportion of those scientists being women.

For our members with connections to Dr. Crawford who wish to share memories with his family, we provide this link—https://www.chadwickmckinney.com/obituaries/William-Crawford-31#/TributeWall

Women in AEG/AWG Virtual Happy Hour, Sept. 16 at 4:45 pm CDT

Are you a member of both AWG and AEG (the Association of Environmental & Engineering Geologists)? If you’re planning to register for this year’s AEG virtual annual meeting (Sept. 16-18, 2020), please plan to attend their “Women in AEG/AWG Happy Hour” on Sept. 16 from 4:45 to 5:45 (Central Daylight Time). Being virtual, you’ll have to provide your own happiness-inducing appetizers and beverages. Unfortunately, the timing is in direct competition with their “Student/Professional Networking Happy Hour,” so you engineering geology students won’t be able to attend both. However, there’s another interesting sounding event for students earlier that same day (12:15 to 1:15 CDT) – the “Student & Young Professional Event: Get a Job and Make it Your Own.” Registration costs $100 for AEG members and $200 for non-members, but only $25 for students. For more information about the meeting and to register, go to www.aegannualmeeting.org. For more information about AEG or to join (student membership is FREE for full time students!), go to www.aegweb.org. The website’s Student page has a lot of helpful resources, so it’s worth visiting even if you’re not interested in AEG or the annual meeting.

On the Edge—New Insights into Ice-Marginal Conditions
Topical Session T-148

Convenors: Stephen Wolfe, Carolyn Olson, Roger Paulen

Invited speakers: Lev Terasov, Memorial University, NFLD;
Dorothy Merritts, Franklin & Marshall College, PA;
Shawn Marcott, University Wisconsin-Madison

This session examines ice-marginal conditions during full glacial and transitional stages of the Laurentide and other ice sheets through presentations on paleoenvironments, geomorphic processes, paleogeography, and ice-sheet dynamics among others.

https://gsa.confex.com/gsa/2020AM/cfp.cgi

Abstract submission by 04 August 2020
AWG has a new Instagram!

Our main goal for this new account is to highlight and feature our members and chapters. We will also be sharing and promoting stories from female BIPOC geoscientists and scientists.

We love how this platform allows for connections and interactions between AWG members all over the world.

We have a lot of exciting plans in the works including Instagram live videos where members will take us on a day in their life in the field, lab or at home!

There will also be fun weekly geology themed quizzes, snippets of advice, and much more on our stories.

Follow @awg_org

This account will mainly be run by your assistant editor, Emily Kam

Recommended Instagram Accounts to Follow:

(click on each picture to go to the page)
Do you know someone who forgot to renew their 2020 AWG membership? Or do you know someone who you think should join AWG now, but is concerned about the membership cost and the expense of signing up for a membership mid-year?

**Beginning July 1st, membership rates will be 50% off for 2020 memberships.**
**Go online to renew or join now! Click [HERE](#) to buy.**

If you have questions or prefer to call or send in a paper application, feel free to contact the AWG office (303) 412-6219.

Please note also that the AWG Board reviewed and revised the benefits associated with Institutional Membership. A highlight for student chapters is that their individual memberships will be [half-price](#) if their institution joins!

Please see the new form on Page 5.

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**Be Featured in E-News!**

**Photo Share**

Do you have an awesome picture from field work or a recent trip? We want to feature your photos on the cover of the next E-News!

**Please send your submissions to** [enews@awg.org](mailto:enews@awg.org)

Include your name and where the photo was taken.

**Advice of the Month**

Do you have some advice you’d like to share with our readers?

It could be about anything: career paths, being a woman in science, travel, life, etc.

**Please submit a short (~50 word) blurb to** [enews@awg.org](mailto:enews@awg.org)

(Your submissions can be anonymous)

Thank you for being a part of the AWG community!

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**AWG Foundation Webinar**

**22 July 12:00 Noon EDT AWG Foundation Webinar**

Zoom Call Invitees: Any and all who are interested in Foundation Projects

**Topic:** Join us as we discuss the process of proposing and reporting on projects with Foundation Funding.

- Ask questions of the Board Officers.
- Share Ideas with other project leads.

Drop a note to awgfsecretary@awg.org for more information and a link.

We will record the session for those who may not be able to join.
Institutional Membership Application

Membership year is from January 1st through December 31st

Institutional Members Receive:

- Recognition of your membership at our professional meetings or exhibits, and in AWG’s publications, to showcase your support of women geoscientists
- An electronic subscription to Gaea, the Association’s quarterly newsletter, bi-monthly E-mail News, and any available chapter newsletters with chapter affiliation
- Access to the Association’s membership directory
- One free ad in E-news, and 10% off future ads in Gaea and E-mail News.
- One professional membership for one employee of your institution.
- Fifty percent discounts to all students from your institution who apply for a student membership. A discount code will be sent to you upon completion of this application for you to share with your students.

Institution Name (required):

Mailing Address Line 1:

Mailing Address Line 2:

City:

State:

Zip:

Contact Person (required):

Primary Email Address (required):

Phone:

Fax:

Chapter Affiliation (If known, please specify):

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Donate to the AWG Foundation* (indicate the dollar amount of your choice):

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* The AWG Foundation (AWGF) is a 501(c)(3) charitable, not-for-profit organization that provides funding for projects to support AWG’s missions and goals. Current projects include scholarships, education and outreach activities, Chapter programs and other AWG events. Your donation provides essential support for these projects. All contributions will be designated for the AWGF General Fund, which funds all projects. The AWGF tax ID is 94-2938573. Additional information about AWGF is available from http://www.awg.org/awgfoundation/. Contributions made to the AWGF are tax-deductible to the fullest extent allowed by law. Membership dues may be deductible as an ordinary, necessary business expense. See the IRS website, or consult your tax advisor for further details.

** Card information is collected for use by AWG only. Information will be destroyed upon payment posting for membership and is not sold to third parties. You may also pay online at AWG’s web store!
Sand and Takken Student Research Awards

Sand Student Research Presentation Travel Award

The Sand Student Research Presentation Travel Award provides women geoscience students with support to present their research at the Annual Meeting of the Geological Society of America. This travel award is named for Virginia (Ginny) Sand (1928–2007), an award-winning geoscience teacher and world traveler. Ginny graduated from Northwestern University with a degree in geology, and she spent three decades teaching geoscience at Kent State University after obtaining her M.A. Her many activities supporting AWG included serving as editor of Gaea (1988–1991). Her travel destinations ranged from the Galapagos Islands to Iceland and, at the age of 76, included a journey to Antarctica.

The award is to be used to help defray travel, lodging, registration fee, and other expenses associated with the presentation of the awardee’s research at the Annual Meeting of the Geological Society of America. Visit http://awg.org/Awards for more information.

The application deadline is August 10, 2020.

This award has been temporarily modified as follows for the August 10, 2020 deadline. The $500 award to be used to help defray travel, lodging, and registration fee has been temporarily suspended due to meeting conversion to a virtual format. Instead, each applicant whose application ranks in the top ten will receive an award of $50 to be used for the registration fee for the meeting.

Takken Student Research Presentation Travel Award

The Takken Student Research Presentation Travel Award provides women geoscience students with support to present their research at a national or international professional geoscience meeting other than the Annual Meeting of the Geological Society of America. This travel award is named for Suzanne Takken (1925–1997), an avid traveler and strong supporter of women in geoscience. Suzanne spent a long career in Oklahoma City, Oklahoma, as a petroleum geologist for a major petroleum corporation and as a consulting geologist after her retirement. She served terms as president of AWG (1989–1990) and director of the AWG Foundation (1996–1997) and was awarded the AWG Distinguished Service Award in 1993. She especially enjoyed traveling to countries in Asia and the Pacific region.

The award is to be used to help defray travel, lodging, registration fee, and other expenses associated with the presentation of the awardee’s research at a national or international professional geoscience meeting other than the Annual Meeting of the Geological Society of America. Visit awg.org/Awards for more information.

The application deadline is August 10, 2020.

This award has been temporarily modified as follows for the August 10, 2020 deadline. The $500 award to be used to help defray travel, lodging, and registration fee has been temporarily suspended due to meeting conversions to a virtual format. Instead, each applicant whose application ranks in the top ten will receive award funds of up to $50 to be used for the registration fee for the meeting.
NEW Feature: Every month E-News will have a brand new crossword puzzle with different geoscience/earth science themes. These are made by Emily Kam, so if you have any suggestions for themes or see any mistakes, please email her at enews@awg.org. Enjoy!

July E-News Crossword - Test your mineral knowledge!

Across
3. An iron carbonate; occurs as rhombohedral crystals; when heated becomes magnetic; usually found in sedimentary beds
5. A dark mineral that commonly forms a pseudomorph after other minerals, especially Marcasite, Pyrite, Siderite, and Gypsum; an iron hydroxide; crystal system = orthorhombic
7. Commonly forms in blue bladed crystals; along with its two other polymorphs it is used to constrain pressure and temperature
9. A mineral with two end members; conchoidal fractures, crystal system = orthorhombic; found in mafic and ultramafic igneous rocks
10. The hydrated form of anhydrite
12. Commonly a name for a group of minerals; a green mineral with vitreous or pearly luster; has a light greasy feel, monoclinic
15. Common mineral that is an important constituent of skarn rocks; monoclinic crystal system
17. Common mineral known for its saddle-shaped curved crystal aggregates; effervesces in HCl acid
19. Name for a group of 6 isomorphous minerals; hardness = 6.5-8; silicate minerals
20. Best known for its distinctive, cross-shaped penetration twins

Down
1. Known for its elongated crystals and green color
2. A hard, tough, & stable mineral; its gem varieties are ruby and sapphire
4. A variety of this mineral contains a distinctive pattern within the cross-section of a crystal. The pattern is usually cross-shaped, and is caused by dark inclusions of carbon or clay
6. This mineral displays iridescence; belongs to the plagioclase feldspar group
8. Well known as a gemstone; a type of quartz; its purple color is caused by impurities of iron or manganese compounds
11. Mineral commonly used in dating
13. In its pure form, this mineral is colorless but can come in all colors; hardness = 4, crystal system = isometric; interesting features = perfect cleavage, many specimens strongly fluoresce
14. Common form of mica
16. The most common mineral containing lead; extreme heaviness
18. This is the softest mineral on earth; crystal system = monoclinic; has a greasy feel
Across
2. Rock fragments derived from, or lying at, the base of a cliff or steep rocky slope
4. A ridge or barrier of sand or shingle built above high tide level so as to link a former island to the mainland, or unite two islands. Sometimes this Italian term is taken to include the island as well as the depositional linking feature. Where the connecting deposit is submerged at high tide the terms tie-bar or tombolo are used
9. Freeze-thaw weathering
10. Post-depositional changes which have altered a sediment, particularly cementation and compaction
13. A sink hole or shaft in a glacier caused by melting and the flow of supraglacial water to the englacial drainage system
15. A vertical shaft in karstic (limestone) areas
16. The creation of mountains, especially by folding and uplift
17. The water from rain, after it has fallen on the surface of the ground and before it has concentrated into definite streams
18. The process by which sediment, moved by wind or water, bounces along the surface of the ground or a channel
19. Water-saturated clay which has insufficient cohesion to prevent heavy objects from sinking into its surface
20. An upland with a near-level summit, which is often bounded by a steep margin such as an escarpment
22. A Holocene phase of glacial advance. Multiple advances occurred of which the Little Ice Age is the latest example
23. The digging or undermining of soil or rock by throughflow

Down
1. The gradual lowering or sinking of a land area, with little or no horizontal component, as a result of such processes as solution of carbonate rocks, melting of permafrost, and as a response to removal of water or hydrocarbons
3. The breakdown of rocks by frost
5. A flat area of alluvium that lies adjacent to an estuary
6. A weathering pit
7. Derived from the Spanish word for ‘purse’, these are depressions with centripetal drainage that are surrounded by hills and mountains. At their centre there is normally a saline playa or pan
8. A gently sloping surface extending from the base of a mountain or mountain range
11. Permafrost mounds formed by ice segregation within mineral soils that occur within the zone of discontinuous permafrost
12. Adjacent soils that show differing profile characteristics reflecting the influence of local topography
14. The stripping or removal of rock or ice from a landscape and the resulting effects the release of pressure has on the exhumed landscape
21. A tabular mass of rock resulting from selective wind erosion in a desert
AGI Extends Free and Reduced-Price Resources for Geoscientists

ALEXANDRIA, Va. — To assist the geoscience community during the Covid-19 outbreak, the American Geosciences Institute (AGI) is extending recently announced free and discounted resource offerings including AGI's Glossary of Geology, Geoscience Handbook, The Geotimes Collection, professional development modules, and education resources.

AGI has been providing free individual access to its Glossary of Geology Online Service, and that access will now continue through August 31, 2020. The online service provides access to more than 39,000 glossary entries contained in the Fifth Edition of the print Glossary. Many entries contain a syllabification guide and background information. To get the free Glossary of Geology Online, go to https://www.americangeosciences.org/glossary/register.html and set up your password/login.

Also continuing through August 31 are reduced-price publications including the digital edition of AGI's bestselling The Geoscience Handbook, discounted by more than 50 percent to $19.60. The digital edition comes in a PDF that is readable on electronic devices (Android, iPhone, tablet, laptop, desktop). With over 470 pages of crisp, clear graphics, this quick reference tool offers key metrics and concepts, a guide to cornerstone papers and recent developments, and short tutorials on specialized topics. The discount, available for individual purchasers only, is available at https://store.americangeosciences.org/the-geoscience-handbook-digital-edition.html. Learn more at https://www.americangeosciences.org/handbook.

If you or your colleagues prefer the printed versions, AGI is offering a bundle of the Glossary of Geology and Geoscience Handbook for $80.00. To learn more, see https://store.americangeosciences.org/glossary-of-geology-and-geoscience-handbook.html.


For university faculty and students, there are dozens of modules in the free-to-take Geoscience Online Learning Initiative (GOLI) platform, a joint effort of AGI, the American Institute of Professional Geologists (AIPG), the Society for Sedimentary Geology (SEPM), and the National Association of State Boards of Geology (ASBOG). GOLI courses range from 1 to 10 hours in length, addressing geoscience topics and skills from geoscience writing to geoethics to advanced environmental geochemistry. Visit https://goli.americangeosciences.org or learn more at https://www.americangeosciences.org/workforce/goli.

For educators and students in grades K-12, AGI offers access to free resources through its Education GeoSource database, which provides access to find the widest possible collection of Earth science-related classroom activities, teacher professional development opportunities, science education standards documents, virtual field trips, teaching ancillaries, and much more. Find Education GeoSource online at https://www.americangeosciences.org/center-for-geo/education-geosource. The Earth Science Week website offers hundreds of learning activities, videos, contests, and other educational opportunities organized around this annual international public outreach campaign. Visit Earth Science Week online at http://www.earthsciweek.org.

For more information or assistance, please contact AGI's John Rasanen at jr@americangeosciences.org.

About AGI
The American Geosciences Institute (AGI) is a nonprofit federation of scientific and professional associations that represents over a quarter-million geoscientists. Founded in 1948, AGI provides geoscientists with access to scholarly information, serves as a voice of shared interests in the profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources, resiliency to natural hazards, and health of the environment.

AGI is a not-for-profit 501(c)(3) organization dedicated to serving the geoscience community and addressing the needs of society. AGI headquarters are in Alexandria, Virginia.

The American Geosciences Institute represents and serves the geoscience community by providing collaborative leadership and information to connect Earth, science, and people.
AGI and MSA Announce Minerals Day Coming Up October 12

ALEXANDRIA and CHANTILLY, Va. — The American Geosciences Institute (AGI) and the Mineralogical Society of America (MSA) are pleased to announce the first-ever global Minerals Day to take place on Monday, October 12, 2020, during this year's Earth Science Week celebration (www.earthsciweek.org).

Minerals Day is being organized to raise awareness of and appreciation for minerals among the general public as well as students and teachers of all ages and at all levels.

Earth Science Week 2020 — which celebrates the theme of "Earth Materials in Our Lives" with a host of educational resources and activities focusing on the role of raw materials in the lives of individuals and in society — provides an ideal opportunity to launch Minerals Day as part of this international celebration of the geosciences. Each year, Earth Science Week reaches millions of people worldwide with information, activities, and opportunities promoting geoscience understanding and responsible stewardship of the planet.

AGI and MSA currently are developing materials, organizing outreach, and collaborating with geoscience partners in government agencies, professional associations, private corporations, and other groups — such as museums, libraries, and rock and mineral clubs, to name just a few — to gear up for the October 12 premiere of Minerals Day.

"Minerals are essential to the world in which we live, as well as our understanding of geoscience," said AGI Interim Executive Director Sharon Tahirkheli. "By working together, AGI and MSA hope to reach a broad community of students, teachers, and partners and inspire interest in minerals and the role they play in our lives."

"Minerals Day activities will celebrate the beauty of minerals and highlight their uses in a wide range of products and technologies," added MSA President Carol Frost. "Minerals Day will also promote the many different careers that are available to experts in mineralogy."

At a time when families and educators alike are seeking new ways of providing young people with the education tools they need to succeed, AGI and MSA are proud to join forces through Minerals Day in rallying the minerals, mining, and mineralogical studies communities to help meet this challenge. In the coming weeks, look for a growing collection of Minerals Day information and resources on the Minerals Day website (http://www.earthsciweek.org/minerals-day).

About AGI
The American Geosciences Institute (AGI) is a nonprofit federation of more than 50 scientific and professional associations that represents over a quarter-million geoscientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in the profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources, resiliency to natural hazards, and interaction with the environment. Learn more at www.americangeosciences.org.

About MSA
The Mineralogical Society of America (MSA) was founded in 1919 for the advancement of mineralogy, crystallography, geochemistry, petrology, and promotion of their uses in other sciences, industry, and the arts. It encourages fundamental research about natural materials; supports the teaching of mineralogical concepts and procedures; and attempts to raise the scientific literacy of society with respect to issues involving mineralogy in the widest sense. The Society encourages the preservation of mineral collections, displays, mineral localities, type minerals and scientific data. MSA represents the United States internationally with regard to the science of mineralogy. Learn more at www.minsocam.org.

AGI Contact:
Geoff Camphire, Communications
gac@americangeosciences.org
Our editor, Karen Fryer, made a Pandemic Path!

Mindy Brugman: Working from home in Revelstoke I'm working from home from Environment and climate change Canada and it's fine however the internet is really slow.
Featuring Our Members!

From Dr. Margot Courtillat:
Two pictures of the Gola del Bottaccione (Gubbio, Italy) where you can see the K/T boundary! Dr. Courtillat visited here on a recent summer school.

Dr. Patricia Kelley:
I’m retired, but I am still professionally active, including doing research, lecture trips, and serving on the Board of the Association for Women Geoscientists and the Paleontological Society Council. I made it as far as Seattle on my way home from the AWG field trip to New Zealand. My daughter was glad that all my activities at home on the east coast got canceled. I’ve been helping with my grandsons here in the Seattle area while their parents work from home.

No makeup, hair getting shaggy, baby in arms, while working from (my daughter’s) home!
Note from the editors: Chapters were very active back before the world shut us up in our homes, but we now see plans being developed to open up various workplaces, schools, and institutions of higher learning. The Editors hope that any moves to open up our members’ lives proceed as safely as possible. We thought we would run news of the pre-pandemic 2019-20 year chapter events in hopes that it would inspire chapters as they start planning for live events. With so many active chapters (yay!) this reporting will continue in the August E-News.

Lonestar

Event during the pandemic! We just wanted to give an update on a very successful AWG Lonestar chapter quarantine zoom talk organized by Norelis Rodriguez and JoAnn Gage of the AWG board. The talk was by AAPG distinguished lecturer Irene Arango entitled, Expulsion Capacity and Organic Porosity in Unconventional Petroleum Systems on Apr 24, 2020. 78 people attended and there was a spirited discussion following the excellent talk.

Cornhuskers

University of Nebraska State Museum Morrill Hall Fossil Night Oct. 2019: Chapter members staffed three stations, including fossil dig boxes and impressions, and had a station for paleo-games, which included GoExtinct! as well as our AWG matching game, which has players try and match a scientist (either women or POC/minority) to their accomplishments. We also handed out a women in geosciences-centered word search with a full list of women and diversity scientists on the back. University of Nebraska State Museum Morrill Hall Dinosaurs and Disasters Feb. 2020: We hosted a booth about women in paleontology through time, focusing on field work and lab methods at the turn of the century.

Minnesota

The Minnesota chapter hosted a seminar at the University in February. Dr. Tina Nielsen spoke about managing a work life balance. We also co-hosted two happy hours with the local AIPG group, focused on connecting members with local students. AWG-MN board members hosted a booth at the Minnesota Association of Groundwater conference.

Sun City

We participated in a large freshman recruiting event on campus called Orange & Blue Day (Oct. 12, 2019) where over 300 prospective students get to interact with various offices and organizations on campus. A toiletry drive was hosted by us for the Center Against Sexual and Family Violence here in El Paso at the end of October. We participated in the Women’s Education Day basketball game where over 100 elementary students joined us in making elephant toothpaste (November 2, 2019). We held a valentine’s day sticker gram fundraiser, with custom stickers designed by Angela Trejo our social media manager. A club social was organized by us for all the geological clubs hosted in our department (Feb. 20, 2020). Lynn Acosta, our treasurer, participated in a career day outreach event at Desert Trail Elementary (Feb. 20, 2020). We had our first hike on leap year to Mammoth rock here in El Paso.
The Editors are thrilled to report that SEB is rejuvenating! They report on their methodology: Facing dissolution, a small group of individuals set out to revive the SEB Chapter. In December, four members of the newly established steering committee met with the Regional Delegates to discuss strategies and next steps for rebuilding the chapter. The steering committee maintains weekly communications as we work on planning upcoming events, meetings, updating our online presence, general housekeeping items, and more. In January, we gained the help of an enthusiastic graduate student who will maintain one of the Student Representative positions. At our March meeting, we had two students volunteer to help manage our social media platforms. Momentum and membership have been steadily increasing since the effort to revive the Chapter began.

Meetings: We had our first meeting on February 6th. We held a social and general interest meeting at West 6th Brewing Co., with approximately 20 in attendance including students, faculty, staff, and industry professionals. Our second Chapter meeting was held on March 11th. This time, we split the meeting into two parts: a business meeting during the day and a social in the evening, held at Blue Stallion Brewing Co. There were six in attendance for the business meeting and around ten who came out for the social. During the business meeting, we scheduled our meetings for the rest of the spring semester (April 8th and May 6th) following the same two-part structure.

Outreach: Members at Western Kentucky University in Bowling Green participated in herstory@WKU (https://www.wku.edu/kentuckymuseum/herstory.php), an event for 1-8 grade girls focused on empowerment activities. Women in the sciences were well represented.

So far, we have been fairly successful at generating interest and enthusiasm which provides a positive outlook on the Chapter’s revival.

**UT Martin**

Spring 2020 - We have completed a very successful service project for Free The Girls (freethegirls.org) this past spring. We hosted a bra drive for donation for victims of human trafficking. Due to our quarantine we have not yet prepared and shipped these items. During February we hosted a painted rock sale; this was very successful and everyone really enjoyed the break from school work to paint a rock. We hosted our first game night later in February, with a great turnout – several guests were not members of the department, which was helpful in getting our AWG chapter recognition on campus outside of our department. Until the time of isolation, we had planned several events for the spring that would get us out in the general campus community.

**William and Mary**

Career Skype sessions with W&M Geology women alumnae: a subcommittee was formed to focus on organizing monthly skype interviews with alumnae about careers in the geosciences. These are held after school hours so students can learn more about different professional options in Geology.

The Chapter also hosted a Q&A Career Panel in Geosciences at Homecoming 2019 for students to network with alumni and ask questions about various careers in the Geosciences.

In the department student lounge, they host monthly events called “Tea in the TC” where they enjoy refreshments and talk about various things related to diversity and inclusion in geosciences.
Chapter News

SDSU

The chapter was off to a great start in the spring semester, holding two organized meetings and a beach cleanup at Tourmaline Beach, CA followed by an ice cream fundraiser at Baked Bear in Pacific Beach. They also got out into the field just in time (March 7-8), going to Joshua Tree National Park (pictures below), as well as holding a round table discussion lunch-in with SDSU faculty to learn about their research interests.
OSU Cowgirls

The chapter continued with many activities after their strong start in September. This list is very impressive, and they report strong attendance (15-40 students) at all events. The officers meet at the beginning of the semester to plan all events.

Continued on next page
Chapter News

OSU Cowgirls

Women in Science Outreach at Science Museum Oklahoma on October 22, 2019

Continued on next page
Geo-gram sale event – February 10-14, 2020

Lunch & Trivia – January 30, 2020

Continued on next page
Chapter News

OSU Cowgirls

Posters from some of their events!

Boomer Lake Wellness Walk/ Run

Hosted by: AWG and GOSA
Association for Women Geoscientists
& Geology Graduate Student Association

Date: October 12, 2019
Location: Boomer Lake
Time: 6:00 pm

AWG Cowgirl Chapter and GOSA present
INTRODUCTION TO RESEARCH:
IMPACTFUL TIPS FOR CONDUCTING SUCCESSFUL RESEARCH

DR. RIEDINGER WILL PRESENT A SEMINAR ON CONDUCTING RESEARCH AT A UNIVERSITY LEVEL AND HOW TO FIND RESEARCH OPPORTUNITIES. UNDERGRADS ARE ENCOURAGED TO ATTEND.

October 23, 2019 at 1:00 PM
NRC 001
LIGHT REFRESHMENTS WILL BE PROVIDED

AWG Cowgirl Chapter Presents
VALENTINE'S DAY GEO-GRAMS

Send a sweet surprise to your professors, friends, or someone special with polished rocks and rock candy!

Rock-grams 1 for $1 5 for $4
Candy-grams 1 for $2 3 for $5

GEO-GRAMS WILL BE SOLD IN THE NRC ATRIUM ON FEBRUARY 10, 11, & 12
All purchased geo-grams will be delivered on February 13th and 14th

AWG Cowgirl Chapter Presents
AWG Distinguished Lecturer Seminar

Dr Jaime Barnes
The University of Texas at Austin

THE IN’S AND OUT’S OF SUDDUCTION ZONES:
A Stable Isotope Perspective of Geochemical Cycling Through Subduction Zones

NOV 20, 2019
4:30 - 5:30 PM
NRC 001
During the past academic year, DMV added 10 official members as well as numerous unofficial supporters. They report that their monthly events are their "bread and butter": They started off the year with an Autumn Picnic for families, dogs and friends at Kenilworth Park & Aquatic Gardens (Northeastern D.C.), followed by a Spooktober Event with fall treats and a Jill-O-Lantern carving, in SE D.C. Not your Daddy's Billy Goat Trail Hike in Potomac, MD, was led by Dr. Callan Bentley. This is a geology field hike that he runs for students from Northern Virginia Community College. Dr. Bentley wove together the geologic history that created the area. They also learned about the history of the Chesapeake and Ohio (C&O) canal that runs parallel to the Potomac River. After the winter holidays, they joined up with members of the Geological Society of Washington for dinner followed by the 1549th meeting of the GSW featuring three geoscience talks. In February they hosted Dinner with a Geoscience Champion! And in what appears to have been a prescient evening, “We celebrated diversity in our geoscience community by honoring Gari Mayberry at an intimate dinner with 8 guests. Chapter Members and Officers were able to learn about Gari’s unique career pathway in geoscience and her unique working situation, in which she works remotely from her employer and co-workers. We learned about how Gari transitioned from working on Volcanoes to becoming the expert in geo-hazards for USAID, which support relief efforts around the globe! We are honored to celebrate geoscience Champions in our community.” And that was the final of their inspiring in-person events for the year. However, they are currently inviting AWG members to join in a Zoom event Thursday, July 23. Please scroll down for the full details.

**Autumn Picnic, September 15th, 2019:**
Chapter News

DMV

Spooktober Event, October 16th, 2019:

Not your Daddy’s Billy Goat Trail Hike, November 23rd, 2019:

Continued on next page
Join the DC/Maryland/Virginia chapter in this networking event!

Open to ALL members!

To RSVP, email dmv.awg@gmail.com
Greetings!

We wanted to share that we are now accepting submissions for this year’s National Fossil Day Art Contest.

This year’s art contest theme is “Life of the Paleozoic Oceans!” and we are looking for artwork from around the country showcasing the marine life of the Paleozoic Era.

This theme is inspired by our 2020 National Fossil Day Logo which features the organisms of the Permian Reef of the Guadalupe Mountains of West Texas and New Mexico.

You can find more information about the 2020 National Fossil Day Logo Here: https://www.nps.gov/articles/fossils-of-the-2020-national-fossil-day-artwork.htm

**Deadline for the 2020 National Fossil Day Art Contest is Friday, October 2nd, 2020.**

You can find more information and the art contest entry form here: https://www.nps.gov/subjects/fossilday/art-contest-2020.htm

Thank you all for your continued support of National Fossil Day and we hope to see some amazing entries this year!
Job Posting: Senior Research Scientists, Bigelow Laboratory
East Boothbay, ME

Overview
Bigelow Laboratory for Ocean Sciences invites applications for Senior Research Scientists (SRSs). Bigelow Laboratory is a leading oceanographic institution that studies the foundation of global ocean health and uses its discoveries to improve the future for life on our planet. Bigelow Laboratory is an inclusive community of scientists from around the world that welcomes and supports diverse opinions and cultures, where SRSs play a major role in institutional governance. The Laboratory was established in 1974 and is located on the coast of East Boothbay, Maine, USA, in a modern, LEED-certified research and education campus.

Our new strategic plan calls for hiring six new SRSs over the next five years to lead transformative, interdisciplinary research that advances Bigelow Laboratory’s mission. We seek candidates in the following, broad research areas: (1) the ocean’s genetic potential, (2) ocean-climate interactions, and (3) the foundation of ocean food webs. Particularly encouraged are applicants who increase the breadth of the Laboratory’s scientific portfolio and approaches, including those on the periphery of marine sciences.

Bigelow Laboratory has unique resources and facilities for advanced research, including the National Center for Marine Algae and Microbiota, the Single Cell Genomics Center, the Center for Aquatic Cytometry, the Center for Seafood Solutions, the Bigelow Analytical Services Center, the new Center for Algal Innovation, a high-performance computing cluster, an indoor multi-tank mesocosm facility, facilities for microscopy, a coastal research vessel and dive program, and a research greenhouse for algal cultivation. We also have two emerging initiatives, Big Data Discovery and Water Health and Humans, and seek expertise in these broad areas as well.

Requirements
Minimum requirements include a Ph.D. degree in a relevant field. We will consider candidates at all levels of their career progression. Strong candidates will have demonstrated capability to acquire external funding and lead scientific programs appropriate to their career stage. We welcome applications from candidates who will bring to their research the perspective that comes from a nontraditional educational background or understanding of the experiences of those underrepresented in higher education. Dual-career applicants are welcome.

Bigelow Laboratory is a “soft money” institution where SRSs have the freedom to pursue their own funded research and entrepreneurial portfolio that advances the institutional mission. SRSs also have opportunities to participate in Bigelow Laboratory’s sponsored teaching and mentoring activities. SRSs receive institutional salary support to engage in governance and administrative activities associated with the Laboratory’s unique operational model. Salary and start-up packages are based upon current career level, but are negotiable. Bigelow Laboratory provides a generous benefits package including family medical plan, 403(b) retirement plan, and paid parental leave. Bigelow Laboratory is committed to supporting the work-life balance of its employees.
Applicants should submit the following as one assembled PDF to our online application portal (https://bigelow.freshteam.com/jobs/vWoZiZSrSzM2/senior-research-scientists-bigelow-laboratory):

1. A one-page cover letter describing interest in the position
2. ≤ 3-page statement that outlines the applicant’s research interests and connection to Bigelow Laboratory’s mission and target areas, including the institution’s commitment to mentoring and promoting diversity, equity, and inclusion
3. A detailed curriculum vitae
4. Contact information for three references

For full consideration, the application should be received by **15 September 2020.** Review of applicants for up to three positions will begin immediately thereafter. All applications will be acknowledged upon receipt. The search will continue until the positions are filled but the goal is to have several of these positions filled by summer 2021.

Individuals seeking more information about this position or needing to request an accommodation, please contact jobs@bigelow.org or (207) 315-0176, ext. 107.

Bigelow Laboratory for Ocean Sciences is an Equal Opportunity / Affirmative Action Employer.