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This edition of E-News was edited by Emily Kam.
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!

Donate to AWG’s Chrysalis Endowment

The Chrysalis Endowment provides scholarships to women geoscientists who’ve had an interruption in their graduate studies. These women are goal-oriented problem solvers, and the Chrysalis Scholarship helps them finish their degrees and bring their skills to the workplace.

Click here to donate to the AWG Chrysalis Endowment.
Your donation is greatly appreciated!
DON’T FORGET TO RENEW YOUR 2020 AWG MEMBERSHIP!

Click HERE to login and renew!

If you have any questions, need assistance or wish to renew by phone call the AWG office at 303-412-6219 or email to office@awg.org.

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
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
(You submissions can be anonymous)

Thank you for being a part of the AWG community!

A note from the editor:

Dear AWG readers,

I have been honored to come onboard the AWG Editorial team this year. I have loved putting together the monthly newsletters and hope that you have enjoyed the content.

If anyone has any ideas to improve E-News, please reach out to me at enews@awg.org. We would love to include our members as much as possible in this process. This publication is made for our readers!

I want to wish everyone a happy holiday season and the very best in 2020.

Emily
Recognizing our own implicit biases
Lynn Wingard

Like me, I imagine most of you believe you are relatively free of biases, particularly when it comes to women and what they can accomplish. However, this morning a hidden bias surfaced and made me realize I still have a long way to go. My realization game at my local car repair shop. I have one of those cars that alerts you to every little problem so last night it informed me the tires needed air. I tried to deal with it myself but could not figure out which number on the tire was the tire pressure, so I pulled into my repair shop to ask. As I walked up to the counter, there were two attendants waiting to help – a man, who has been there for quite a while, and a new employee, a woman. I walked up to the man and asked my question. Why did I choose the man? In the split second I made the decision who to ask, I told myself it was because I knew him. But as I was sitting outside in my car (they very nicely offered to just fill the tires for me), I contemplated that choice. Was it because I have an implicit bias that men are mechanics? Unfortunately, I think it was. And to add to my realization of my error, it was the woman who ultimately answered my question. What I really wanted to know was where could I find the tire pressure number so I could take care of it myself. She came outside in the rain and the cold and showed me where the information was. She had listened to my real question. Next time I go to the repair shop, I will seek her out and hopefully I will be more aware of my hidden biases in the future.
Recommended Reads

Suggested books, blogs, podcasts, and more from the AWG editorial team


- “Women from some under-represented minorities are given too few talks at world’s largest Earth-science conference” Researchers from racial and ethnic groups that are under-represented in US geoscience are the least likely to be offered opportunities to speak at the field’s biggest meeting. Go in depth into the data results that this article offers. [https://www.nature.com/articles/d41586-019-03688-w?utm_source=Nature+Briefing&utm_campaign=8e0b6c1153-briefing-dy-20191204&utm_medium=email&utm_term=0_c9dfd39373-8e0b6c1153-44573381](https://www.nature.com/articles/d41586-019-03688-w?utm_source=Nature+Briefing&utm_campaign=8e0b6c1153-briefing-dy-20191204&utm_medium=email&utm_term=0_c9dfd39373-8e0b6c1153-44573381)

- “Why sexual harassment needs tougher punishment” Recommendation from a panel of 21 US-based scientists is that funding agencies should cut off grant money to researchers who have been found guilty of sexual misconduct. [https://www.natureindex.com/news-blog/we-need-to-treat-sexual-harassment-the-same-as-research-misconduct?utm_source=Nature+Briefing&amp;utm_campaign=d8471fbf99-briefing-dy-20191209&amp;utm_medium=email&amp;utm_term=0_c9dfd39373-d8471fbf99-44573381](https://www.natureindex.com/news-blog/we-need-to-treat-sexual-harassment-the-same-as-research-misconduct?utm_source=Nature+Briefing&amp;utm_campaign=d8471fbf99-briefing-dy-20191209&amp;utm_medium=email&amp;utm_term=0_c9dfd39373-d8471fbf99-44573381)

Recommended Twitter pages to follow (NEW!)

- **Helen Robinson**
  @Geology_Helen

- **The FOSSIL Project**
  @projectFOSSIL

- **EGU**
  @EuroGeosciences

- **WeRepSTEM**
  @WeRepSTEM Follows you
The AWG Professional Excellence awards will go to women who, throughout their careers, have made distinguished contributions in each of the three following professional areas:

- Government/ Regulatory
- Private industry/ Consulting
- Academia/ Research

Nominations will be solicited from the AWG membership at large. Professional excellence is broadly defined, and may include accomplishments such as:

- Breadth and depth of professional accomplishments
- Mentoring of other geoscience professionals
- Outreach and service activities
- Membership in professional societies

Nominees need not be members of AWG and those without memberships will receive a one-year professional membership with their award. Recognition will be made at the GSA Annual Meeting and other appropriate annual meetings, in GAEA and online E-News. Nominations can be submitted using the following link, which can also be found on the AWG website at www.awg.org/awards. If you do not have a google account, please submit your nomination as one complete PDF package to proexcellence@awg.org.

1. A one to two-page letter summarizing the nominee's most important accomplishments in professional areas that demonstrates multidisciplinary geologic accomplishments within their realm of expertise;
2. The nominee's CV
3. Two letters of support, which can be from non-members of AWG, with a maximum of five letters.
4. Specify which of the three awards for which you are nominating.

Nomination deadline:
June 15th each year (please note new date!)
Past Professional Excellence Award Winners

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<td>Government/ Regulatory</td>
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<td>2019</td>
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<td>Lynn Wingard</td>
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<td>2018</td>
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<td>2018</td>
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<td>2018</td>
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<td>Diane Moore</td>
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<td>Jeanne Harris</td>
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<td>Academia/ Research</td>
<td>Ellen Thomas</td>
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<td>2011</td>
<td>Academia/ Research</td>
<td>Patricia Kelley</td>
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Announcing New GSA Division Award for Career Achievement in Petroleum Geology

Boulder, Colo., USA: The Curtis-Hedberg Petroleum Career Achievement Award has been established by the Energy Geology Division of The Geological Society of America (GSA) and will be awarded in 2020 at the GSA Annual Meeting in Montréal, Canada.

The award will go to a GSA member who has had a career in petroleum geology and has made contributions to the discovery of petroleum reserves or the development of a new idea(s) and/or technology that increased petroleum resources. Considerations will be given for nominees’ publications as well as contributions to geoscience societies and institutions.

Nominations are heartily encouraged and solicited from both GSA members and non-members. They are due by 1 March 2020 and should include the nominee’s CV and two letters of support. Submit nominations to Laura S. Ruhl, at lsruhl@ualr.edu.

Learn more at https://community.geosociety.org/energydivision/awards/curtishedberg.

Contributions to support the award can be made via the GSA Foundation at https://gsa-foundation.org.

Background: The award honors two former GSA presidents with outstanding contributions to petroleum geoscience, Dr. Doris Malkin Curtis and Dr. Hollis Hedberg.

Doris Malkin Curtis was a pioneer in the field of petroleum geology and coauthored the book *How to Try to Find an Oil Field* in 1981. Her career with Shell Oil Company began in 1941 and after nine years company marriage policies prevented her from continuing at Shell. She diverted to teaching at the University of Houston and Scripps Institution of Oceanography, and eventually to the University of Oklahoma. Her classes were always oversubscribed because of her popularity as a teacher. She returned to Shell after divorce in 1959 and retired from Shell in 1979. Not finished with her career, she formed a petroleum consulting partnership, Curtis and Echols, with long-time friend, Dorothy Echols. She consulted until her death in 1991. Her publications on petroleum geology included attempts to marry the Gulf Coast Tertiary geology with geochemistry to produce a realistic workable model for predicting the distribution of undiscovered oil and gas and provide an analogue in unexplored offshore basins with similar histories. She published more than 30 papers.

Curtis' advanced education began with her B.A. from Brooklyn College (1933) and her master's degree and Ph.D. from Columbia University in New York (1934, 1949). Curtis was the consummate devotee/contributor to geologic associations and her hard work resulted in many milestones, including being the first woman president of GSA (1991).
Announcing New GSA Division Award for Career Achievement in Petroleum Geology

Doris Malkin Curtis cont. She was also the first woman president of the American Geological Institute (1980–1981), the first woman president of the Society of Economic Paleontologists and Mineralogists (1978–1979), and the first woman Distinguished Lecturer for the American Association of Petroleum Geologists (1983–84) and their second woman Honorary Member (1983). Curtis took her work international with the International Union of Geological Sciences and many other international collaborations and efforts. She received many other awards and recognitions during her career.

Hollis Hedberg was not only an oil-finder, he was a consummate scientist and developed an international reputation both in the petroleum industry and academia. Hedberg began his career in 1926 working for Lago Petroleum, a Venezuelan subsidiary of Standard Oil. In 1929, he moved to the Venezuelan Gulf Oil Company, where he became head of their geological laboratory. He later joined Gulf Oil in their New York office where he rose to vice president in 1957. He retired from Gulf in 1968, after which he joined the geology faculty at Princeton University and taught there from 1959 to 1971.

Hedberg received his B.A. in geology from the University of Kansas (1925), master's degree from Cornell University (1926), and Ph.D. from Stanford University (1937). He was president of GSA (1960) and received its oldest and most prestigious award, the Penrose Medal (1980). He received the Sidney Powers Award from the American Association of Petroleum Geologists (1963), both the William Smith Lecture and Wollaston Medal from the Geological Society of London, the National Academy of Sciences Mary Clark Thompson Award, the University of Kansas Distinguished Service Award (1963), the Medalia de Honor de la Instruccion Publica from the Venezuelan government (1941), and many others. Hedberg published over 70 papers.

Curtis and Hedberg both shared an interest in the oceans. Curtis spent 1977–1978 on the Deep Sea Drilling Project on the Glomar Challenger, one leg in Japanese waters, the other off Panama. Hedberg was so interested in the oceans he convinced Gulf Oil to launch an ocean exploration ship (R/V Hollis Hedberg).

The Geological Society of America, founded in 1888, is a scientific society with members from academia, government, and industry in more than 100 countries. Through its meetings, publications, and programs, GSA enhances the professional growth of its members and promotes the geosciences in the service of humankind. Headquartered in Boulder, Colorado, USA, GSA encourages cooperative research among earth, life, planetary, and social scientists, fosters public dialogue on geoscience issues, and supports all levels of earth science education.

www.geosociety.org
Dear Association for Women Geoscientists,

I am very grateful for the AWG Minority Geoscience Scholarship, and for the AWG Student Membership for the 2018/2019 school year. You have helped me tremendously, in providing me with funds and resources that will expand my research and experience in geosciences.

I heartfully appreciate you all!

With love and appreciation.
Aquila Johnson

I am so thankful to receive the Geoscience Award Grades 1-12 Female at the MSU Billings & Billings Clinic Science Expo on March 23 and 24.

I am so happy I was able to go.

And with the award I received it makes me feel like I can be geologist or even go to college and learn more about rocks.

And yes, as I have said before in the recent year, I will always participate in the Science Fair at the MSU Billings Alterowitz Gymnasium.

I will keep my same topic on rocks, by just going into more about rocks.

Thank you for the award it makes me want to learn more about rocks.

- T.W.
**Chapter News**

**Ragin’ Cajuns Student Chapter:** Distinguished Lecturer Report

Dr. Lisa Ely came to the University of Louisiana at Lafayette and presented her seminar, “Following the Footsteps of Charles Darwin: Using Geological and Historical Evidence to Assess Earthquake and Tsunami Hazards”. The exploration that Darwin went on was made relatable to the students that attended the seminar by noting Darwin’s young age and background. Students were inspired by his travels and how his observations could still be used today, even if his interpretations have been disproven with the addition of new observations. Seeking to become the next Darwin was an inspiring message to end the seminar on. Science Day at the University of Louisiana at Lafayette, was that morning and high school students came to the science buildings on campus to learn about the importance of science and college as well as learning what they may be interested in pursuing in the future. Dr. Lisa Ely was taken to Science Day where she got to see the geology demonstrations and talk with high school students that were visiting. A group of students took Dr. Lisa Ely to a local Cajun restaurant for dinner. Students enjoyed spending time with Dr. Lisa Ely at dinner and learning more about her life and her work.

**William & Mary Student Chapter:** Student Award

Megan Gillen, the President of the AWG William & Mary Student Chapter won a Student Presentation Award in the Undergraduate Student Poster category at the Coastal and Estuarine Research Federation meeting in Mobile, November 3-7. Her poster was in the session "Tidal freshwater wetlands: Transitional ecosystems under climate change." The poster was titled "Influence of salinity and vegetation on tidal marsh soil shear strength," and the authors were Megan Gillen, Tyler Messerschmidt, Matthew Kirwan.

**Sun City Student Chapter:** Updates

Katalina Salas, President of the chapter, reported a busy 2018-19. The chapter's website was completely revamped, a logo was created, and all new marketing materials were created (pamphlets, flyers, stickers, and t-shirts). "We started the year with no funds for the chapter; since then we have had two successful fundraisers, and participated in outreach activities." We are also on board to help the UTEP Geological Science department host Earth Science Day in October.

**Hoppy Monk Fundraiser** - We partnered with the Geology department to host a lunch and dinner for the new students joining the department. We had over 25 supporters at this event! We received 15% of the total profits, making $183 at this event. We also held a shirt donation fundraiser at Hoppy Monk and via social media with T-shirts available for a $15 minimum donation; we procured $375.

**Miner welcome week** - this recruiting event is held at the beginning of the Fall semester, at Centennial Plaza, the largest green space on campus. Over 30 different student organizations, and UTEP offices set up information booths. We participated in two days of this event and had over 30 students sign up for our email list.

**Minepalooza** - this is the largest campus wide event. We partnered with the Association for Neuroscience Sun City Chapter to develop a slime making activity called "Mad Science Laboratory." Students who worked the booth dressed as scientists with lab coats and assisted 149 children, ages 3 to 15, in creating slime. We were interviewed by two local news channels, Univision and Channel 9.
Chapter News

Sun City Student Chapter

Hoppy Monk Fundraiser

Miner Welcome Week

Minerpalooza

First meeting
AWG Northern California San Andreas Fault Geology Field Trip September 10–17, 2020

Join us in a week-long field study of the remarkable geology along the North Coast of California from San Francisco to Mendocino. We will meet at Union Square in San Francisco on September 10th at 1:00 pm and end with a drop off at the San Francisco International Airport around 2:00pm on September 17th. We will stay four nights at the Marin Headlands Hostel Annex and three nights at the Mendocino College Coastal Field Station in Point Arena. Transportation is by coach and driver.

The San Francisco Bay Area, wave cut platforms, rocky headlands and sea stacks, uplifted terraces, crashing waves, and wide sandy beaches are your outdoor classroom as you discover how the collision of ocean and land has shaped the region. There are numerous field stops and short hikes in the San Francisco Bay Area, Point Reyes, and the Sonoma and Mendocino Coast. Topics for discussion include the San Andreas Fault, coastal processes, Franciscan and Gualala Block rocks, folds and faults, plate tectonics, and California geologic history.

The trip cost is $1,900 per person ($1,840 for Williams GeoAdventures services and a $60 AWG trip registration fee). Trip participants must be current AWG members and are required to register first with AWG and pay the AWG registration fee. The trip cost includes the geology field trip and guiding services and geologic field guide, transport by coach and driver, accommodations for seven nights at the Marin Headlands Hostel and the Mendocino College Coastal Field Station, and the welcoming dinner in Sausalito. Not included in the trip cost is transportation to and from San Francisco and your home, all of the other meals, travel insurance (HIGHLY RECOMMENDED), and coach driver tip. Meals will be prepared by the group at our lodgings. Discounts are available for attendees who are willing to help coordinate the food, with student participants getting preference.

After you’ve registered with AWG, trip registration with Williams GeoAdventures will open on Monday, January 6, 2020 at 9am Pacific Time by contacting me by phone (707) 953-6979 and submitting a $500 deposit within 10 days, payable to Williams GeoAdventures, 101 Ross Street, #4, Cotati, CA 94931. The balance payment of $1,340 per person is due to Williams GeoAdventures by July 15, 2020.

Trip availability is on a first come, first served basis. The minimum number of trip participants is 16 and the maximum number is 22. Williams GeoAdventures will provide an online application and liability waiver for the trip participants to fill out in July 2020. Trip fees are non-refundable unless you and I are able to fill your space.

We are excited about sharing the beauty of the Northern California San Andreas with you. Please contact me via email or phone with any questions about this trip. I am looking forward to seeing you all on the California North Coast in September 2020!

Email geoteachtw@earthlink.net
Telephone (707) 953-6979

Thomas R. Williams, Williams GeoAdventures

www.geology-adventures.com
Job Opportunity: IRIS President of the Consortium

The Incorporated Research Institutions for Seismology (IRIS) invites applications and nominations for the next President of the Consortium. The President is the public face of IRIS and represents the Consortium through leadership and management activities with the geosciences community, federal agencies, partners, and member institutions.

Founded in 1984 with support from the National Science Foundation (NSF), IRIS is a consortium of 125 U.S. universities dedicated to advancing research and education in seismology to understand our dynamic planet and to benefit society. IRIS programs contribute to new discoveries within our planet, natural hazard mitigation, national security, environmental monitoring, advances in geocomputation, networking and communications, and in building a scientifically and technologically proficient workforce. The IRIS membership comprises virtually all U.S. universities with research programs in seismology and includes a growing number of Educational Affiliates, U.S. Affiliates, and Foreign Affiliates. IRIS management is currently headquartered in Washington, DC, but IRIS facilities are distributed internationally and operated in cooperation with the U.S. Geological Survey and other partner organizations and institutions. IRIS has annual revenues of approximately $30 million, and the Consortium employs roughly 53 full-time professional staff.

Candidates for the President position will have significant management experience as well as a background in leading complex research or facilities programs in academia, related government agencies, or industry. Candidates should be able to collaborate and negotiate strategically with other scientific and educational facilities and organizations. This is particularly critical at this time given NSF’s 2019 decision to support a single seismic and geodetic facility starting in 2023. The ideal candidate will have a PhD in Earth Science, or equivalent professional expertise, along with experience in the administration of federal awards, a comprehensive understanding of federal funding structures and requirements, and an ability to identify and pursue new and diverse funding sources.

The President should be a dynamic leader who is able to communicate effectively with the IRIS community, federal agency leadership, and other sponsors and scientists. The ideal candidate will have a demonstrated record of successful scientific and administrative leadership and be able to proficiently engage with and build consensus across the geophysical community. The President will be capable of vision, planning, and executive management in partnership with the governing IRIS Board of Directors. Candidates must promote and embrace diversity and inclusion, global awareness, and ethical values.

A more in-depth position description may be found at [https://www.iris.edu/hq/employment/job/president1](https://www.iris.edu/hq/employment/job/president1)
Requests for additional information should be directed to Professor Charles J. Ammon, Chair, IRIS President Search Committee, hr@iris.edu. Applications should include a full vita; a statement describing the applicant’s vision for IRIS for the immediate term and for the period beyond the 2023 expiration of the current SAGE2 cooperative agreement; a statement addressing past and/or potential contributions to diversity, equity, and inclusion; and the names and contact information of three references. Applications and nominations will be accepted until a new President is selected. For optimal consideration, interested parties are encouraged to apply by 15 December 2019 at the address below.

**Presidential Search Committee c/o IRIS**

**1200 New York Avenue, NW**
**Suite 400**
**Washington, DC 20005**

The IRIS Consortium believes a diverse staff makes us a stronger organization. We are committed to hiring people of all ages, races, ethnicities, genders, sexual orientation or gender identities, marital status, veteran status, religions, and disabilities. All qualified candidates are encouraged to apply.
Job Opportunity:  
Three Positions in Sedimentary Geology

About the University: The University of Houston Department of Earth and Atmospheric Sciences invites applications for three tenure-track positions in the general field of sedimentary geology. Hiring will be at the assistant professor level with up to one hire at the associate professor level. Experience and qualifications will be used to determine the appropriate title of assistant or associate. This is a cluster hire that will focus on interpretation of records of changing environments on Earth’s surface.

We are particularly interested in researchers with a focus on the areas of paleoclimate, paleoceanography, paleogeography, biogeochemistry, carbon cycles and proxies, the role of tectonics in building the sedimentary record, source to sink processes, and coastal evolution. The research of successful applicants may concentrate on either chemical or clastic sedimentary rocks and may use data from outcrops, cores, modern environments, the subsurface, or experimental or modeling studies. Integration of geophysical data, petrographic observations, and facies analysis is particularly encouraged.

About the Position: The successful candidates will be expected to build active collaborations within and outside the university, to develop internationally recognized, externally funded research programs, to teach graduate and undergraduate level courses that bridge theory and practical applications in the geosciences, and to use their research to enhance experiential learning at UH.

The University of Houston is an equal opportunity/affirmative action employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

The University of Houston is responsive to the needs of dual career couples. Furthermore, we welcome candidates whose experience in teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. More information about the department can be found at [http://www.uh.edu/nsm/earth-atmospheric/](http://www.uh.edu/nsm/earth-atmospheric/). Candidates must have a Ph.D. or equivalent in earth science or a related field at the time of the appointment.

Application Information: Review of applications will begin on October 31st, 2019, and continue until the positions are filled. Candidates should submit: 1) a statement of teaching and research interests, 2) a curriculum vitae, 3) a list of at least three possible references and their contact information. Applications should be submitted online through [https://jobs.uh.edu/](https://jobs.uh.edu/). A background check is required prior to interviewing. Questions about these positions may be directed to search committee chair Julia Wellner ([jwellner@uh.edu](mailto:jwellner@uh.edu)).

Notes to Applicant: Official transcripts are required for a faculty appointment and will be requested upon selection of the final candidate. All positions at the University of Houston are security sensitive and will require a criminal history check.