This edition of E-News was edited by Jessica Bean.
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!
Recommended Reads
Suggested books, blogs, podcasts, and more from the AWG editorial team.

- **Women at the Helm.** Project Managers Helene Winters and Suzanne Dodd lead NASA’s New Horizons and Voyager – Humankind’s Two Most Distant Missions.

- **Russia Considering All-Women Space Mission.** The Russian space company, Roscosmos, is actively searching for female cosmonauts for future missions to the moon and the International Space Station (From AWIS).

- **Gender Specific Networking Required For Success.** Women jobseekers have better success when they network with other women for insider tips on company culture and attitudes (From AWIS).

DON’T FORGET TO RENEW YOUR 2019 AWG MEMBERSHIP!


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](mailto:office@awg.org).

AWG-PNW Breakfast at the GSA Cordilleran Section Meeting

Going to the Geological Society of America's Cordilleran Section meeting in Portland in May?

Don’t forget to sign up for the AWG Networking Breakfast on Friday May 17 from 7 to 8 am. The ticket prices are $15 for students (subsidized by the AWG Pacific NW Chapter and the Portland environmental consulting firm Anchor QEA) and $35 for everyone else. To register, go to [https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/cd/2019mtg/home.aspx](https://www.geosociety.org/GSA/Events/Section_Meetings/GSA/Sections/cd/2019mtg/home.aspx); the breakfast will be located under “Events.” When you register, you will have a choice of one of two substantial breakfasts: a “Farmhouse Breakfast” (consisting of scrambled eggs, potatoes, and ham, bacon, or sausage) and a vegetarian “Northwest Frittata” (with mushrooms, goat cheese, greens and potatoes). If you need a vegan breakfast, please sign up for the frittata, but contact Marcia Knadle at marciaawg@aol.com to request a “tofu scramble” instead.

We hope to see you there!

You may also wish to consider attending the pre-meeting field trip FT1: Flood Basalts, Rhyolites, and Pre- to Postdating Volcanism of the Columbia River Province in Eastern Oregon, which will be co-led by AWG-PNW member Emily Cahoon (PSU).
AWG Western Great Lakes Field Trip
August 16–25, 2019

Join us for a beautiful and fascinating geologic tour of the Upper Peninsula of Michigan and northeastern and eastern Wisconsin, with an emphasis on the geology of the northern portion of the Midcontinent Rift and the lower Paleozoic sedimentary cover in Wisconsin. This trip will be led by geologists Tom Fitz (Northland College) and Don Mikulic (Weis Earth Science Museum). The eastern Wisconsin portion of this trip is in memory of, and honors the work of, Joanne Kluesendorf, founding director of the Weis Earth Science Museum. Joanne was Gaea editor in the late 1990s and early 2000s, and many of you met her during her several years enthusiastically managing the AWG booth at GSA’s annual meetings. Trip highlights include:

- The scenic shore of Lake Superior, with its excellent rocky outcroppings of Midcontinent Rift rocks, one of the world’s best-preserved continental rifts and one of the largest igneous provinces in the world. We’ll also explore the area’s rich mining history.

- The Silurian cliffs of Door and Calumet Counties in Wisconsin representing the western end of the Niagara Escarpment, the longest bedrock feature in the region, defining the boundaries of three of the Great Lakes

- Schoonmaker Reef National Historic Landmark in the History of Science in Wauwatosa, WI. This is the first ancient reef described in North America and the birthplace of the National Association of Geology Teachers

- The Middle Devonian rocks of Milwaukee, foundation of the largest natural cement industry of the Midwest

- The Ice Age National Scenic Trail, Ice Age National Scientific Reserve, and Kettle Moraine State Forest -- illustrating why the latest North American glacial advance is called the Wisconsinan


Please email Marcia Knadle at marciaawg@aol.com if you would like to join this exciting adventure. The member price will be $1900* with a minimum of 8 and a maximum of 14 participants, so don’t delay! Registration forms and additional trip information will be available online on or about February 15 at www.awg.org/fieldtrips. A $500 deposit is due March 15, 2019 and full payment is due May 31, 2019.

* Price includes ten nights double-occupancy lodging. (A VERY limited number of single rooms will be available for an additional $800.) Price also includes transportation by minivan, most breakfasts, all lunches, and two dinners. It does not include airfare to and from Milwaukee, WI, or transportation within Milwaukee. A limited number of student member discounts are available.
Williams GeoAdventures

Association for Women Geoscientists

New Zealand Rocks!

February 26–March 12, 2020

The North and South Islands of New Zealand have everything you would expect for a fabulous GeoAdventure! The North Island has the active volcano at White Island; the geothermal areas and Maori culture around Rotorua; the second largest historic volcanic eruption and pyroclastic flow at Lake Taupo; hiking the volcanoes of Tongariro National Park, and viewing the Wellington fault scarp. The South Island has magnificent glacial scenery at Milford Sound in Fiordland National Park; the Alpine Fault; igneous, sedimentary, and metamorphic rocks dating back over 500 million years; gold mines and ghost towns from the 1860s; the charming small cities of Christchurch, Dunedin, and Queenstown; and the incredible scenery of the Southern Alps.

The AWG New Zealand Rocks! 2020 trip cost is $5,280 each ($5,180 for Williams GeoAdventures and a $100 AWG registration fee). This includes accommodations at holiday parks for 9 nights and at hotels for 6 nights, all land transportation, two flights in New Zealand from Wellington to Christchurch and from Dunedin to Auckland, expert guide services, all attractions, and three of the dinners, six of the breakfasts, and two of the lunches.

This does not include travel from the U.S. to Auckland, the remaining meals, and highly recommended trip insurance. Trip participants must be current AWG members and are required to register first with AWG and pay the $100 trip registration fee.

Trip registration will open on Monday, April 1, 2019 at 9 a.m. Pacific Time by contacting me by phone (707) 953-6979 and then submitting a $1,000 deposit within 10 days to Williams GeoAdventures. Trip availability is on a first come, first served basis. The maximum number of trip participants is 20. The balance payment of $4,180 is due to Williams GeoAdventures by December 1, 2019. The single supplement cost is $1,600. Williams GeoAdventures will provide an online application for the trip participants to fill out and sign in May 2019.

Shoot me an email or give me a call with any questions or more detailed information on this marvelous adventure!

Thomas R. Williams, Williams GeoAdventures

Contact Information:
Email: geoteachtw@earthlink.net  |  Cellphone: (707) 953-6979
Mail: Williams GeoAdventures, 101 Ross Street, #4, Cotati, CA 94931

www.geology-adventures.com
You're Invited To

Association for Women Geoscientists
Salt Lake Chapter

30th Anniversary Silent Auction & Scholarship Benefit

Saturday March 30th
7:00-9:00pm

Westminster On the Draw, 2120 S. 1300 E.

Entrance Donation $25 • Students $15 with ID
Evening Casual Attire • Best Plaid Outfit wins a prize!
PICTURE ID REQUIRED • Bidding closes @ 9pm

Raising funds for:

Lee Allison Professional Development Award- $800
Susan Ekdale Memorial Field Camp Scholarship- $3,000
Outstanding Female Graduate Award- $750
Outstanding Female Undergraduate Award- $750
Research Scholarship- $1,000

Cash or check preferred, cards accepted. Mail your tax deductible donation to AWGF © P.O. Box 58691, SLC, UT 84158. Email awg.slchapter@gmail.com to donate items & volunteer.
Pathways: Women in Earth Science Career Panel

Cleveland Park Library
Meeting Room 1
Thursday, February 28th
6:30 – 8:00pm

With panelists from academia, industry, policy, and governmental agencies

Summer of Applied Geophysical Experience (SAGE) 2019

SAGE is an award-winning geophysics field camp and research program for undergraduate and graduate students as well as working professionals. SAGE participants spend four weeks near Santa Fe, New Mexico learning and applying field-based geophysical research techniques to investigate complex geologic problems. The SAGE faculty draw on decades of professional experience in government research, academia, and private industry to provide hands-on training in modern geophysical exploration techniques as well as a one-of-a-kind research experience.

Application Deadline: March 31, 2019 at 8:00pm EDT

SAGE 2019 Program Dates: Monday, June 17 – Friday, July 12

What SAGE Offers

Modern Geophysical Exploration Techniques
Hands-on experience in seismic reflection and refraction, well logging, GPR, GPS, gravity, magnetotellurics, and more!

Multi-institutional Resources and Expertise
Classroom instruction and lecture on advanced topics in geophysics. Data processing and analysis using modern industry software.

Professional Networking
Meet and interact with fellow students, guest speakers, and faculty from industry, government, and academia. Present research at professional scientific meetings.

Application Requirements:
- SAGE welcomes applications from qualified undergraduates, graduate students, postdocs, international students, early career scientists, industry professionals and academic faculty.
- Prerequisite coursework: minimum one year of physics (through electricity & magnetism) and three semesters of calculus. Structural geology and introductory geophysics recommended but not required.
- Application materials: letter of intent, two references, and transcripts (unofficial transcripts accepted)

For more information and to apply, please visit the SAGE website: https://summerofappliedgeophysicalexperience.org
From the waste down

A Penn student analyzes the effects of global waste management on native soil

“Geology is not just local but global,” says Esther Arthur (MSAG ’19—expected), an engineering geology student in Penn’s Master of Science in Applied Geosciences. “One thing that happens on one side of the earth affects everything around it.” For Esther’s research, that principle applies to more than just the long-term effects of volcanic upheavals or climate change: her master’s thesis research takes her to one of the world’s largest dump sites for electronic waste, which is located in her native country of Ghana. When industrialized countries including the United States export their e-waste to Ghana, what cannot be salvaged is usually burned, which releases chemicals that leach into the ground and contaminate nearby water sources. Esther has been collecting and analyzing samples of soil and ash to compare with the Environmental Protection Agency’s recommended levels of toxicity, as well as researching steps to mitigate damage and clean up the site.

“Geoscience is about more than rocks,” says Esther. “It’s engineering, it’s a lot of math and statistics, it’s environmental science, it’s design, it’s all of these things coming together.”

Are you ready to earn a graduate degree and advance your career in environmental geosciences? Learn more about Penn’s MSAG at:

WWW.UPENN.EDU/MSAG
Job Opportunity

Visiting Assistant Professor in Geological Sciences
Department of Geological Sciences at the University of Missouri in Columbia

The Department of Geological Sciences at the University of Missouri in Columbia invites applications for a one-year position at the rank of Visiting Assistant Professor, for the 2019-2020 academic year. A Ph.D. in Geological Sciences or a related area is required. The successful candidate will teach 3 courses each semester, including at least one introductory Geology course, Mineralogy (Fall 2019), and Igneous and Metamorphic Petrology (Spring 2020). Applicants will be evaluated on their ability to effectively teach students across the curriculum.

Please apply on line at: http://hrs.missouri.edu/find-a-job/academic (Job Opening ID 29232). Use the online application to upload (a) a letter of application that describes your teaching experience; (b) a CV; (c) a statement describing teaching interests, and (d) an inclusion and diversity statement (professional skills, experience and/or willingness to engage in activities that would enhance campus diversity and equity efforts). Three reference letters are required and should be sent (electronically or hard copy) to the Chair of the Search Committee (WhittingtonA@missouri.edu). Applicants may contact the Chair of the Search Committee with any questions about the job duties. Contact Human Resource Services (muhrs@missouri.edu) for any questions about the application process. To request ADA accommodations, please contact the Office of Accessibility & ADA Education at 573-884-7278 or CheekA@missouri.edu.

Review of application materials will begin April 1, 2019. To ensure full consideration, applications should be complete (including reference letters) by this date. The position will remain open until filled.

The University of Missouri is fully committed to achieving the goal of a diverse and inclusive academic community of faculty, staff and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence. The University of Missouri is an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.
The U.S. Geological Survey (USGS) is seeking to fill one of its most critical leadership positions for carrying out our natural hazards mission. The Senior Science Advisor for Earthquake and Geologic Hazards is a Senior Level (SL) position reporting to the USGS Associate Director for Natural Hazards. The position serves as coordinator of the Earthquake Hazards Program (EHP), Geomagnetism Program, and the USGS portion of the Global Seismographic Network (GSN). These three programs collectively had an appropriated budget of about $92 million in fiscal year 2018, funding work at regionally managed USGS science centers as well as by university and state partners. The EHP and GSN represent the USGS contributions to the four-agency National Earthquake Hazards Reduction Program (NEHRP), which was recently reauthorized by Congress. The USGS Geomagnetism Program is the USGS contribution to the multi-agency National Space Weather Program.

This position also has broad responsibility within our Natural Hazards Mission Area to guide the breadth of USGS geologic hazards work, ensuring strong coordination with the activities supported by our volcano, landslide and coastal/marine programs along with the many other hazard-related activities supported throughout the Survey. In addition to internal program management responsibilities, the Senior Science Advisor is an ambassador for the USGS to our many partners and stakeholders in the US and around the world.

Applicants must apply via USAJOBS. Applications will be accepted until March 18. There are two separate announcements, one open to current and former Federal employees (SL-2019-0002 MP: https://www.usajobs.gov/GetJob/PrintPreview/523173600) and the other open to all U.S. citizens (SL-2019-0001 DE: https://www.usajobs.gov/GetJob/ViewDetails/523174300).

Please read the announcement carefully to learn more about the position, qualifications, and how to apply.
Job Opportunity

Michel T. Halbouty '30 Visiting Chair in Geology and Geophysics
Department of Geology and Geophysics at Texas A&M University

The Department of Geology and Geophysics at Texas A&M University is pleased to announce the Michel T. Halbouty '30 Visiting Chair in Geology and Geophysics. The purpose of Mr. Halbouty's generous gift is to "Promote excellence in the teaching and research of the Department of Geology and Geophysics."

We expect to appoint 4 to 5 distinguished scholars to the Visiting Chair over the next few years and provide them the opportunity to visit our campus and interact with department faculty and students for up to twelve months duration. The appointment provides partial salary support and additional funds to cover lodging and travel, as well as proposed engagement activities.

Applications should be submitted by March 19, 2018, to be considered for awards in 2018 and 2019. Interested persons are encouraged to contact faculty members in the Department of Geology and Geophysics (http://geoweb.tamu.edu/). Applications should identify potential faculty proponents, include a CV, a 2-page proposal identifying research, teaching and engagement activities as a Visiting Chair holder, availability for visiting the department in the upcoming academic year, and tabulation of desired funds needed for salary and other expenses.

Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to excellence through the recruitment and retention of a diverse faculty and student body and compliance with the Americans with Disabilities Act. The University is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment. We strongly encourage applications from women, underrepresented ethnic groups, veterans, and individuals with disabilities. Texas A&M University also has a policy of being responsive to the needs of dual-career partners (hr.tamu.edu/employment/dual-career.html).

Please send your application materials by going to the following link: https://tamus.wd1.myworkdayjobs.com/TAMU_External
Job Opportunity

Instructional Assistant Professor Position Advertisement
Department of Geology and Geophysics at Texas A&M University

The Department of Geology and Geophysics at Texas A&M University invites applications for a full-time non-tenure track Instructional Assistant Professor. This is a 9-month appointment for an initial three-year term, renewable contingent on performance and continued funding. We seek an energetic educator to lead efforts to develop cutting-edge fundamental Earth science courses and expand our catalog of online courses. The successful candidate will teach two courses per semester using effective pedagogical techniques in a combination of classroom and online settings, coordinate lab scheduling for undergraduate courses, and develop new online course materials. Teaching opportunities also include field, high impact learning, and study abroad courses.

The successful candidate may augment the 9-month appointment with research funding or by teaching undergraduate research and field courses and/or other courses in their area of expertise. In addition to teaching, the successful candidate is expected to make contributions to either research or departmental service and will have opportunities to explore cutting-edge teaching technologies or practice. This appointment includes the ability to seek extramural funding, conduct collaborative research with other members of the faculty, use department facilities, and publish research results. At the time of employment, candidates must have a Ph.D. in geology, geophysics, geological education or a related discipline in addition to higher education teaching experience with a minimum of 4 semesters as a Teaching Assistant or 2 semesters as instructor of record.

The College of Geosciences at Texas A&M University is a unique institution committed to fundamental Earth systems research across four Departments: Atmospheric Sciences, Geography, Oceanography, and Geology and Geophysics. The College hosts the Texas Sea Grant, the Geochemical and Environmental Research Group (GERG), and the International Ocean Discovery Program (IODP). The college has established a teaching/research facility in Costa Rica and a teaching facility near San Miguel de Allende, Mexico. This appointment includes the opportunity to work across departments and programs in the College and lead international coursework to maximize educational opportunities for our undergraduates.

The Texas A&M System is an Equal Opportunity/Affirmative Action/Veterans/Disability Employer committed to diversity. The University is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a multicultural environment. We strongly encourage applications from women, underrepresented ethnic groups, veterans, and individuals with disabilities. Texas A&M University also has a policy of being responsive to the needs of dual-career partners (http://dof.tamu.edu/Faculty-Resources/dual-career-partner-placement). The College of Geosciences is committed to creating a diverse and inclusive climate for faculty, graduate students and undergraduate students. We actively work to recruit and retain a diverse cohort of undergraduate students. We seek a colleague with a track record that will complement our education mission to train a diverse pool of students for future success in applied, academic, and government positions as geoscientists.

Interested candidates should submit electronic applications to: https://apply.interfolio.com/57482 and must include the following: curriculum vita, statement of teaching philosophy, statement of research interests, and the names and addresses of at least three references. Screening of applications will begin March 2019, and will continue until the position is filled. Questions regarding the position may be directed to the Chair of the Instructional Assistant Professor Search Committee by emailing: InstructionalAsstProfessorSearch@tamu.edu.