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E-NEWS

In This Issue:

- About AWG & E-News
- Recommended Reads
- Travel with AWG
- Award Opportunity
- Award Opportunity
- Job Opportunities

This edition of E-News was edited by Jessica Bean.
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!

AWG Chapters

US Chapters
- Baylor University
- Black Hills (SD Mines)
- CSU, Northridge
- DMV
- Florida
- Great Lakes
- James Madison
- Laramide
- Loma Linda
- Lone Star (Texas)
- Los Angeles/Orange County
- Minnesota
- Montana
- Nebraska Cornhuskers
- New England
- North Dakota
- Oklahoma City
- Osage
- OSU Cowgirls
- Ozark HAWGs
- Pacific Northwest
- Penn State
- Ragan’ Cajun
- Red Rock (Southern Utah University)
- Salt Lake City
- San Diego State University
- San Francisco Bay Area
- Sierra
- Southeastern Bluegrass
- Sun City (El Paso)
- University of Tennessee Martin
- Vanderbilt
- William and Mary

International Chapters
- Calgary
- Dalhousie University
- Ireland
- Mongolia
- Patagonia
- South East Asia
Recommended Reads
Suggested books, blogs, podcasts, and more from the AWG editorial team.

- **2018 Rosetta Stones Roundup: A Very Hot Year for Geology.** Let's look back on some of the notable themes of 2018, and at the end, you'll get a sneak peek at what's coming up for Rosetta Stones in the new year.

- **Women Who Win Science Prizes Earn Less Money, Prestige than Men.** Biomedical awards from the past 50 years reveal a gender imbalance, but it appears to be improving.

**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.

**Takken Student Research Presentation Travel Award**

**Application deadline is February 10, 2019**

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.

The application deadline is **February 10, 2019**. Visit [http://awg.org/Awards](http://awg.org/Awards) for more information.
Save the Date for AWG’s 2019 field trip to the Western Great Lakes — August 16-25!

Native copper! Iron ranges! Fossil reefs! Please join us for a full 10-day field trip to the western Great Lakes region. This will actually be two trips back-to-back, starting and ending in Milwaukee, Wisconsin. The first four days will be led by Tom Fitz of Northland College and will take us to Michigan’s scenic Upper Peninsula to see Proterozoic Midcontinent Rift rocks, some of the most interesting rocks in North America and a classic iron and copper mining region. The remainder of the trip will bring us back south to the area around Door County (the peninsula extending northeast into Lake Michigan from Green Bay) and the Milwaukee area. This second trip will focus mostly on lower Paleozoic sedimentary rocks, and will be led by paleontologist Don Mikulic. This portion of the trip honors the work of paleontologist Joanne Kluessendorf, who passed away last year and was Don’s wife. Joanne was very active in AWG, serving as Editor in the late 1990s and early 2000s and establishing AWG’s Winifred Goldring Award with the Paleontological Society. She was also founding Director of the Weis Earth Science Museum, which we will tour. The tentative price is now $1900 for double occupancy, which will cover van transportation, lodging, lunches, most breakfasts and a dinner or two. A discounted price will be available for up to two students. If you’re interested in participating, please contact Marcia Knadle (marciaawg@aol.com) and keep an eye on AWG E-News and the field trip page on the AWG website for more information as it becomes available. Registration will open in mid-February.

Save the Date for AWG’s 2020 field trip to New Zealand!

Join us for a two-week fieldtrip to New Zealand with Williams GeoAdventures in late winter of 2020! We have a tentative itinerary with six full days on the North Island, featuring tours of volcanic areas, and eight full days on the South Island, including tours of the New Zealand Alps and Milford Sound. We will have a geologic guide and our own bus and driver on each island, and the price will include air travel both ways between the North and South Islands. In an attempt to keep the price as reasonable as possible, lodgings will be split between 3-star hotels and Top 10 Holiday Parks (nice hostel/budget motel-like lodgings). Our slightly tentative dates (could still shift by a day or two) are February 26 through March 12, 2020, and the very tentative price is $5000 (generally double or triple occupancy). Space will be limited and we expect this trip to fill, so if you’re interested in going, please be ready to sign up when registration opens in the spring. For more information or to be put on the interest list for more timely updates, please email AWG Field Trip Committee Co-chair Marcia Knadle at marciaAWG@aol.com. Stay tuned for further information regarding the price. For more information about Williams GeoAdventures, visit their website at http://www.geology-adventures.com/.
The Nevada Bureau of Mines and Geology (NBMG) at the University of Nevada, Reno is seeking applications for a tenure-track faculty position focused on hydrothermal geochemistry and mineral deposits. NBMG is a research and public service unit of the University of Nevada, Reno (UNR) and is the state geological survey. Managed as part of the Mackay School of Earth Sciences and Engineering in the College of Science at UNR, NBMG functions as an academic unit, and its principal scientists are tenure-track faculty members. Nevada is one of the most exciting regions in the world to do research in the geosciences and the best in the U.S. for the study of hydrothermal mineral deposits. For further information about NBMG, please consult our website http://www.nbmg.unr.edu.

Interested applicants must have a doctorate in geology or a related geoscience field by the time of hire and a demonstrated record of research on topics related to hydrothermal mineral deposits as indicated by dissertation research or peer-reviewed publications. Excellent communication skills, as demonstrated in written application materials; commitment to public service; potential for, or established record of publications; and ability to attract funding are essential. Previous research must include economic geology or hydrothermal geochemistry with a focus on mineral deposits.

Preference will be given to candidates with: 1) academic experience in hydrothermal mineral deposits, particularly research that blends both quantitative analytical and field-based approaches; 2) demonstrated research productivity with publications in the peer-reviewed literature; and 3) achievable plans for funded research on Nevada-focused topics in economic geochemistry, as described in the applicant's letter of interest. Additional preferred fields of expertise include: 1) geochemistry of metal solubility and transport, 2) geochemical modeling, 3) fluid inclusions, 4) stable isotopes, and/or 5) geochemical microanalyses.

Position responsibilities and expectations include: 1) working independently as well as collaborating with NBMG faculty-staff, faculty in other geoscience units at UNR and UNLV, and others in industry and government in developing funded projects and conducting research; 2) focusing research on mineral deposits in Nevada, though some research can be conducted outside Nevada; and 3) supervising graduate students and teaching courses related to hydrothermal geochemistry. The position will be a tenure-track faculty appointment with an academic-year base salary (9 months) that is competitive with other research universities. Starting date will be July 1, 2019 or shortly thereafter, depending on availability of the successful candidate.

For more detailed information about the position, and to apply, please visit https://nshe.wd1.myworkdayjobs.com/UNR-external/job/University-of-Nevada-Reno---Main-Campus/Assistant-or-Associate-Professor---Economic-Geologist_R0113408-1. Applications will be accepted through February 21, 2019.

EEO/AA Women, under-represented groups, individuals with disabilities, and veterans are encouraged to apply.
Job Opportunity

ASSISTANT PROFESSOR  Field-Oriented Sedimentology, Structural Geology, or Volcanology

The Nevada Bureau of Mines and Geology (NBMG) at the University of Nevada, Reno, seeks applicants for a tenure-track academic faculty position in field-oriented research in structural geology, volcanology, or sedimentology. NBMG is a public service unit of UNR and serves as both the state geologic survey of Nevada and as a research department in the UNR College of Science. Faculty at NBMG have tenure-track academic appointments, with both research and teaching obligations.

Position Responsibilities: The primary responsibilities of this position will be to develop broad programs in research and education in Sedimentology, Structural Geology, or Volcanology. Research will focus on the geologic framework and tectonic evolution of Nevada, utilizing innovative approaches to detailed geologic mapping, sedimentologic analysis, structural analysis, geochronology (e.g. U/Pb, detrital zircons, or 40Ar/39Ar), and/or paleomagnetism. Position responsibilities and expectations include: 1) utilizing detailed geologic mapping to conduct basic and applied research; 2) working independently as well as collaboratively with NBMG faculty-staff, faculty in other geoscience units in the Nevada system of higher education, and others in industry and government in developing funded research projects; 3) contributing to the understanding of natural resources and geologic hazards in the region; 4) supervising graduate students and teaching courses in the successful candidate’s area of expertise.

Qualifications: Applicants must have a doctorate in geology or a related geoscience field by the time of hire and a demonstrated record of research on topics related to sedimentology, structural geology, tectonics, and/or volcanology as indicated by dissertation research, industry experience, or peer-reviewed publications. The successful candidate must also have experience in field-oriented research and a desire to conduct detailed geologic mapping on future projects in Nevada. Excellent communication skills, as demonstrated in written application materials; commitment to public service; potential for, or established record of publications; and ability to attract funding are essential. Doctoral research must include one or more of the following disciplines: structural geology, sedimentology, or volcanology. We encourage candidates to explain achievable plans for funded research on Nevada-focused topics in their area of expertise in the letters of interest. Salary and Date of Appointment: The position will be a tenure-track faculty appointment at the assistant professor level with an academic-year base salary that is competitive with other research universities. Starting date will be July 1, 2019 or shortly thereafter, depending on availability of the successful candidate.

For more detailed information about the position and to apply, please visit: https://is.gd/pgqdbK. Application deadline is March 1, 2019. For further information about NBMG, please consult our website http://www.nbmg.unr.edu.

The University of Nevada, Reno is committed to Equal Employment Opportunity/Affirmative Action in recruitment of its students and employees and does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, veteran status, physical or mental disability, and sexual orientation. The University of Nevada employs only United States citizens and aliens lawfully authorized to work in the United States.

EEO/AA Women and under-represented groups, individuals with disabilities, and veterans are encouraged to apply.
Job Opportunity

Computational Earth Science Postdoc
Los Alamos National Laboratory
Los Alamos, New Mexico

The Los Alamos National Laboratory is a multidisciplinary research institution engaged in science and engineering on behalf of national security. The Earth and Environmental Sciences (EES) division is seeking exceptional postdoctoral candidates in a range of disciplines and application areas. The group focuses on a broad array of energy, environmental and security areas in order to develop leading-edge methodologies and computational tools to address national and global challenges. The group’s research includes both fundamental and applied science, ranging from subsurface to atmospheric phenomena, including collaboration with experimentalists to measure unique subsurface, surface and atmospheric signatures.

Requirements:
• Ph.D. in an earth or atmospheric science, engineering, mathematics computer science, physics or related field within the last five years
• Demonstrated exceptional research through peer-reviewed publications
• Proven extensive computational or modeling skills
• Interest in energy, environmental and national security applications relevant to Computational Earth Science

Desired Skills:
• Proven experience giving presentations at leading academic conferences or symposiums
• Coding proficiency in languages such as C/C++, Fortran, Java, Julia, Python, MATLAB and R
• Demonstrated understanding of and ability to work in high-performance computing (HPC) environments
• Proven experience in big-data (>= terabyte scale) processing and analyses
• Demonstrated experience developing or supporting research projects and proposals

We Are Delivering Scientific Excellence
Los Alamos National Laboratory is more than a place to work. It is a catalyst for discovery, innovation and achievement. It’s one of the reasons we attract world-class talent who contribute greatly to our outstanding culture. Professional development, work/life balance and a diverse and inclusive team foster lasting career satisfaction. Our onsite cafeterias and medical, fitness and breastfeeding facilities, education assistance and generous compensation and benefits reflect our commitment to providing our people with all they need for personal and professional growth.

Apply now: lanl.jobs, search IRC69892: https://lanl.jobs/los-alamos-nm/computational-earth-science-postdoc/5A9A770F3F5F4E1DB9A38680C0E81490/job/

lanl.gov/careers

Los Alamos National Laboratory is an equal opportunity employer and supports a diverse and inclusive workforce. All employment practices are based on qualification and merit, without regard to race, color, national origin, ancestry, religion, age, sex, gender identity, sexual orientation or preference, marital status or spousal affiliation, physical or mental disability, medical conditions, pregnancy, status as a protected veteran, genetic information, or citizenship within the limits imposed by federal laws and regulations. The Laboratory is also committed to making our workplace accessible to individuals with disabilities and will provide reasonable accommodations, upon request, for individuals to participate in the application and hiring process. To request such an accommodation, please send an email to applyhelp@lanl.gov or call 1-505-665-4444 option 1.
Keeping current in the world of water

A Penn student becomes part of the movement toward equitable water distribution

Erica DePalma (Master of Science in Applied Geosciences' 20—expected) came to Penn to prepare for a career in environmental science, and found the field of hydrogeology to be inextricably tied to environmental justice. “I like being able to use my scientific understanding of source water systems to support equitable distribution of high quality water,” she explains.

Erica’s studies in the Master of Science in Applied Geosciences program led her to the Water Center at Penn, where she is excited to work with projects that bring water equity solutions to the Philadelphia area and beyond. Her team explores ways to connect high quality university research and water utilities, and to help students find water-related courses and research opportunities in the field. “Our primary role is to bring people together to find solutions to our shared water problems,” says Erica. “Whether you want to work for a water utility or become an engineer or a stream scientist, there is definitely a place for women to thrive in the water field.”

Are you ready to earn a graduate degree and advance your career in environmental geosciences? Register for a virtual information session on February 12 and learn more about Penn’s MSAG at:

WWW.UPENN.EDU/MSAG