



GAEA

PUBLISHED BY
THE ASSOCIATION FOR WOMEN GEOSCIENTISTS
As a global community, AWG will provide leadership,
inspiration, and encouragement to recognize and
support females in the geosciences.

SPRING QUARTERLY | 2023

www.awg.org

Vol. LXVIII

Brunton Awardees 2023

The **AWG Brunton Award Committee** is very proud to present our winners for the 2023 year. The work that young women are doing at colleges and universities around the world is just top notch, and some of the field experiences described are quite enviable! We are so grateful to [Brunton International](#) for supporting us again with the gift of Brunton compasses and field support to award to undergraduate and graduate students. Maya Yamei Bradford is a PhD Student at West Virginia University. Sadie M Durning is an undergraduate at California State University. Brooke Michele Burns is an undergraduate at Marshall University, and Erin E Donaghy is a PhD candidate at Purdue University. Congratulations to all our 2023 awardees.

Maya Yamei Bradford - Maya is a PhD student at West Virginia University, where she is mentored by Kathy Benison. She is a sedimentary geologist studying the Permo-Triassic depositional record of Wyoming. Within these rocks, she pays special attention to textures of the abundant bedded gypsums, which have been previously overlooked, and may yield details of climate, environment, and life. The AWG Brunton Award will allow her to conduct fieldwork in northcentral Wyoming this summer, as a part of the first chapter of her dissertation.

Continued Page 6



Inside this issue:

- | | |
|---------------------------|-----------------------------|
| President's Letter | AWGF Letter |
| OEA Awardee | Crawford Awardee |
| Sands and Takken Awardee | Geologist Interview |
| Field Trip Announcements | Sponsor Spotlight |
| Announcements/Ads | AWG Awards and Scholarships |



ETHICS STATEMENT

AWG members shall conduct themselves in an ethical and professional manner.

GAEA (pronounced Jee-ah) is named after the Greek goddess of Earth.

GAEA is published four times a year by the Association for Women Geoscientists. Subscription is included in annual dues. Non-members may subscribe for \$60/yr .

Editorial Information

Views expressed in GAEA do not necessarily reflect official AWG positions unless stated as such. Please submit manuscripts, news releases, and letters to
E-mail: editor@awg.org

Advertising

Classified and display advertising is available in GAEA, AWG E-mail News, and the AWG website. For more information, please contact Ad Coordinator, at: ads@awg.org

AWG News

To disseminate news about your professional accomplishments, contact the AWG the editorial team at editor@awg.org

Association Office

All other correspondence, such as change of address or chapter affiliation, should be directed to:

Association for Women Geoscientists
1333 W. 120th Ave, Ste 211
Westminster, CO 80234
Phone: 303-412-6219
Fax: 303-253-9220
E-mail: office@awg.org
Website: <https://awg.org>

© Association for Women Geoscientists

Materials in GAEA may be reprinted if appropriate credit is given.

From the AWG President

Hi all – In this letter I'd like to talk about AWG membership benefits. We have some benefits such as Gaea and E-News that all members are very familiar with and then several perks that many members may not know much about. These other benefits include a resume review service, a free online communications course, student opportunity listings, Pro-prep online STEM courses, and Mentoring365 services (see the Member Benefits information) Members can link to these benefits via our AWG Members Exclusive [website page](#).

I'll spend the rest of this letter talking about one of our membership benefits - Mentoring365. The Mentoring365 program is a year-round program that matches students and early career professionals with professionals in the earth and space sciences. Through Mentoring365, mentees can connect with more than 400 mentors, thus enabling the sharing of expertise and ideas, and enhancing network building.

The American Geophysical Union (AGU) began Mentoring365 in 2017 and is its lead partner. AGU staff run the operational components of the program with AWG as a partner in the Mentoring365 program along with twelve other U.S and international organizations. Mentoring365 has two completely different platforms: a one-to-one mentoring platform and a peer-to-peer mentoring program. As of January 2023, the Traditional 1:1 Mentoring365 program has 1674 participants total, with 1376 mentees and 476 mentors. Mentoring365's Circles platform is the peer-to-peer mentoring program. In this part of Mentoring365, people can propose a topic and begin discussion on that topic. Circle topic areas are diverse and can include discussions such as geoscience careers, science communication, professional licensure, science policy, work life balance, how to prevent burnout, the process of applying to graduate school – just to name a few ideas! To date, the Circles topic-based discussions have 4 public circles (2 active, 2 completed) with 445 participants.

Our AWG Mentoring365 committee chair is Lynn Wingard, with other committee members being Noelia Carmona and Elizabeth Pottorff. These committee members serve as liaisons between AGU and AWG. They also recruit AWG members for Mentoring365 (both mentors and mentees) and then approve AWG members for participation in the program by verifying that they are current AWG members. AWG currently has 19 active mentees, 5 active mentors, and 1 active dual mentor/mentee.

Continues Page 3

AWG President *Cont. from Page 2*

It is easy to sign up for Mentoring365 if you are an AWG member. Go to our AWG [Member Exclusives webpage](#) and click on the Mentoring365 link. On the next webpage, decide on either the Mentoring365 option (1:1 mentoring program) or the Mentoring365 Circles option (the peer-to-peer mentoring program) and click “Learn More”. On the next page click “Join Now” and you are on your way to become either a mentor or a mentee (or both). Our AWG Mentoring365 committee is continually looking for both more mentors and mentees and is also actively recruiting more AWG Mentoring365 committee members. Additionally, ideas for Circle topics are always welcome by the committee. Those interested in becoming AWG Mentoring365 committee members or submitting a topic for a Mentoring365 Circle discussion, please email the committee at mentoring@awg.org.

Regards,
Deb Hanneman, AWG President
2022-2023



Get quick career advice or long-term support and guidance.

SIGN UP TODAY

MENTORING 365

AWG OFFICERS

2022-2023

President

Deb Hanneman

Whitehall Geogroup, Inc
Whitehall MT

president@awg.org (past, current, elect)

President-Elect

Karen Fryer

Professor Emerita of Geology & Geography
Ohio Wesleyan University

Past-President

Michelle Sutherland

Idaho National Laboratory

Secretary

Katalina Salas

PhD Candidate
University of Texas El Paso

secretary@awg.org

Treasurer

Anastasia Piliouras
Assistant Professor

Department of Geosciences
Penn State University

treasurer@awg.org

Editor

Judith Hoyt

PhD Candidate
University of Texas at El Paso

editor@awg.org

GAEA Coordinator

Shawn Blaesing

gaea@awg.org

Communications Coordinator

Devra Hock

communications@awg.org

**AWG FOUNDATION
OFFICERS
2023- 2024**

President

Blair Schneider
Kansas Geological Survey
awgfpresident@awg.org

Vice-President

Leila M. Joyce Seals
Postdoctoral Scholar
Department of Geosciences, Penn State
awgfpresident@awg.org

Treasurer

Kate M. Johnson
652 Glimmerglen Road
Cooperstown, NY 13326
awgftreasurer@awg.org

Secretary

Karla Tucker
Geological Consultant,
Huntington Beach, California
awgfsecretary@awg.org

Past-President

Jennifer J. Thompson
1504 Sandman St.
Houston, TX 77007
awgfpresident@awg.org

Directors

David Watkins
Professor Emeritus
University of Nebraska
awgf@awg.org

Lisa Tranel
Associate Professor
Illinois State University

Mackenzie Cremeans
Shook, Hardy, and Bacon
Kansas City, Missouri



AWGF Foundation Letter *By Blair Schneider*

Greetings AWG!

It's a little surreal writing to you as the new president of the AWG Foundation Board – for those of you who know me I served as president of the AWG Board from 2014-2017 and served as a Director on the Foundation board the following year from 2017-2018. Since 2017, my major involvement with AWG has been as the co-PI of the ADVANCEGeo project that was first funded by NSF in 2017 and was recently funded for a second phase this past August. AWG has been a fundamental partner in this project, and I am so incredibly proud that our organization is a co-leader in this space.

So what have I been up to since serving in the president role? Back then, I was still a graduate student at the University of Kansas finishing my PhD in geophysics. From 2017-2019 I had a postdoc position at KU and in 2019 I accepted a position with the Kansas Geological Survey as an Associate Researcher and Science Outreach Manager. I am a proud momma to a spunky 6-year-old who looks a lot like her dad but boy she definitely has my personality! It's amazing getting to watch her take on the world.

As of April, the AWG Foundation now has four new faces on the board: Leila Joyce Seals is the new Vice-president of the board, Karla Tucker is the new secretary of the board, and Mackenzie Cremeans is a new director of the board. Kate Johnson remains our treasurer who rocks (pun intended), Jenny Thompson has moved into the past-president role and I am truly grateful that she will be providing us guidance for the next two years, and David Watkins and Lisa Tranel remain as directors. Our newest faces bring in many years of experience to their roles – Leila was a president of the Osage chapter in Kansas, Mackenzie is a past-president of the AWG Board, and Karla Tucker has served as a board delegate for several years. They will each be contributing to GAEA over the next year to introduce themselves to you all.

Continued Page 5

In this new position, I have three goals over the next two years. First off, I am hoping to propose some bylaw changes to reorganize the board executive committee that will include some additional positions such as treasurer elect and secretary elect. The work required by these two positions does require training and institutional knowledge about the organization, so these elect positions would provide ample opportunity to provide that training to ensure sustainability of the board in the future. I would also like to discuss whether there are any new board positions that we should consider as we think about the future. My second goal is to work with our directors to identify some new fundraising campaigns throughout the year so that we can maintain and hopefully increase our current level of funding. My third goal is to follow the example that the AWG Board is setting to increase the diversity of the foundation leadership and make sure that we are hearing from all voices in the geoscience communities. It is imperative that we have representation at the leadership levels that represent intersecting identities for women of color, women with disabilities, LGBTQIA+ women, transgender women, and more face when trying to be a geoscientist.

I am excited to have this opportunity to work with the AWG community once again. The AWGF Board will meet virtually once a month until our next in-person board meeting which will be on October 14th in Pittsburg in conjunction with the GSA Annual Meeting. Before wrapping up, I want to extend a sincere thank you to Emily Browning and Charlene Sundermann who are rotating off the board for their dedication to this organization over the years. The work of the foundation is no small task and we truly appreciate all that you have done to support us!



**SUPPORT
AWG PROGRAMS
DONATE TODAY!**

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 Glimmerglen Road
Cooperstown, NY 13326

Or donate online at <https://awg.org>

Sadie M. Durning - I will graduate with a Bachelor of Science in Geology from California State University, Fullerton, after a one-month field camp in the summer of 2023. Following field camp, I am starting a Masters Program at California State University, Fullerton, with Dr. Vali Memeti, researching batholith growth and evolution at the Tuolumne Intrusive Complex in Yosemite National Park. This will include backpacking fieldwork to collect samples in the High Sierra in late summer 2023. My undergraduate research combines field observations with geochemistry and geochronological analysis to understand the Jackass Lakes Pluton and its magma system. Samples collected via fieldwork and analyzed in the lab will continue to be a rich source of data, helping to reveal the histories and evolution of plutons and batholiths. This award supports me as a field geologist throughout my education and in my future career.



Brooke Michele Burns - I am graduating summa cum laude with my degree in Geology in April from Marshall University. After graduating, I am studying Spanish abroad at Universidad Nebrija in Madrid and then going to the University of Oxford for their English Literature Summer School. Right now, my plan for graduate school is to finish my athletic eligibility on the track and field team at Troy University. I will spend the next two years there getting my MBA and researching/applying for geology based graduate programs that I am interested in. If I decide to forego higher geology education, I plan to use my geology degree and MBA to get a job in environmental geology



Continued Page 8

AWG Treasurers Report

For 2022, we saw an unfortunate dip in our income from membership. The most significant declines in membership were in our professional and life members, but we saw exciting and encouraging increases in members in early career, low income country, corporate, and institutional categories. As you review the expenses, you'll see our largest expense is 'Contract Labor', which is staffing support for our office by the American Institute of Professional Geologists (AIPG), along with day to day logistics and technology for things to get done behind the scenes.

Our continued partnership and involvement with ADVANCEGeo will not only allow our organization to continue to support our mission, but it will also help to increase our revenue for the next two years.

If you have any questions, please reach out to Anastasia Piliouras, AWG Treasurer at treasurer@awg.org.

	Actual	Budget
Income		
<i>Dues</i>	\$26,095.00	\$22,000.00
<i>Advertising</i>	\$12,495.00	\$14,000.00
<i>Product sales</i>	\$869.31	\$0.00
<i>Misc</i>	\$0.00	\$23,000.00
<i>Program</i>	\$5,814.93	\$2,500.00
total income	\$45,274.24	\$61,500.00
cost of goods sold	\$1,182.03	
gross profit	\$44,092.21	\$61,500.00
Expenses		
<i>convention</i>	\$0.00	\$1,000.00
<i>recruitment</i>	\$949.26	\$1,000.00
<i>AIPG</i>	\$34,068.00	\$39,000.00
<i>AGI dues</i>	\$0.00	\$1,500.00
<i>postage</i>	\$402.05	\$250.00
<i>field trip</i>	\$0.00	\$23,000.00
<i>travel and official function</i>	\$3,109.33	\$3,000.00
<i>taxes</i>	\$10.00	\$10.00
<i>bank charges</i>	\$980.40	\$2,500.00
<i>supplies</i>	\$1,262.65	\$500.00
<i>professional services</i>	\$7,962.58	\$18,000.00
<i>chapter rebates</i>	\$3,629.00	\$4,000.00
Total expenses	\$52,373.27	\$93,760.00
Net income	-\$8,281.06	-\$32,260.00
overhead from NSF Aug 2022	\$7,528.29	
Net income	-\$752.77	

AWG Chapters

2022-2023

AWG has chapters throughout the world. To keep up to date with chapter activities, [select the link](#) for your chapter of interest:

Global Chapters: Patagonia, Ireland, FUYOE Nigeria

U.S. Chapters- Pacific region— Pacific Northwest, Sierra, San Francisco Bay Area, LA /Orange County, Southern AZ, San Diego State U*, UC Davis*, Inland Empire, UNLV*, Great Basin, Saguro

Rocky Mountain Region— Salt Lake, Laramide, North Dakota, Red Rock (SO Utah)*, Williston Basin

North Central— Minnesota, NE Cornhuskers, UW Madison*, Central Indiana, Zips (U of Akron), Miami University (of Ohio)

South Central— Baylor*, Osage, Lone Star, Ozark HAWGS, OSU Cowgirl*, Sun City (El Paso), Rice University

Northeastern— Penn State University*, DMV

Southeastern— Southeastern Bluegrass, Florida, William and Mary*, UT– Martin*, James Madison*, Vanderbilt*, Northern FL

* Student Chapters

Erin E. Donaghy- I am a sedimentologist and field geologist focused on studying the evolution of basins and how we can use the sedimentary record to constrain the timing of major tectonic events. I pursue large-scale basin analysis projects with emphasis on integrating both field and analytical datasets to solve complex tectonic problems. Currently, I am a PhD Candidate at Purdue University studying Paleogene sedimentary strata presently exposed on both the Olympic Peninsula (Olympic National Park in WA) and the Samovar Hills of Wrangell-St. Elias National Park and Preserve in southeastern Alaska. Both basins overlie fragments of thick oceanic crust, and the goal of this research is to use the sedimentary record to test if these now separated fragments once originated as the same oceanic plateau offshore the latitudes of the Pacific Northwest in the Eocene. To test this hypothesis, in both locations, I have collected robust detrital zircon datasets (CA-LA-ICPMS) and high-precision U-Pb zircon geochronology (CA-ID-TIMS), and integrated it with geologic mapping and sedimentologic data from field work. My final field season in Olympic National Park will be completed late this summer to make final revisions to mapping, and I plan to finish my dissertation and graduate in Spring 2024.



Janet Tanaka: In Memorium Forward By Shawn Blaesing

The following is a tribute to a Pacific Northwest (PNW) chapter co-founder and a pioneer in the field of volcanic hazards management. Before moving back to the Midwest I was a long time member of the PNW chapter. I lived in close proximity to Janet in the Olympia area and so enjoyed the pleasure of giving her rides to events in our chapter area. She was a funny, sharp witted, intelligent champion for women in the geosciences and I was blessed to know her. – **Shawn**

Janet passed away in November of last year at the age of 85 after a long battle with Alzheimer's. As we approach the anniversary of her passing, as well as the 38th anniversary of the AWG chapter she helped launch, some of us who knew and worked with her would like to honor her memory with some personal reflections on her life and contributions.

My memories of Janet are all happy ones – she was kind and inspiring, and I feel very fortunate to have known her. She was a great role model in that she stayed very active intellectually in retirement for as long as she could. She also helped me appreciate the value of creativity for geoscientists. It's easy to get focused on the data and the "scientific" elements of what we do, but we all have to use a lot of imagination and insight in our work, and feeding our creative side helps us do that. - **Marcia Knadle**

In the links below are her beautiful tributes and obituary, I encourage you to remember with us.

<https://awgpnw2021.wordpress.com/2023/03/30/awg-pnw-winter-2023-newsletter/>

https://woodlawnfcc.com/obituary-detail.php?obituary_id=62661&name=Janet-Marie-Cullen-Tanaka

Pacific NW Tanaka Scholarship

The AWG Pacific Northwest Chapter's Janet Cullen Tanaka Scholarship is awarded each winter in the amount of \$1500 to one undergraduate geoscience student identifying as (1) a woman (cisgender or transgender), gender fluid, and/or non-binary person. For more information, go to [The Janet Cullen Tanaka \\$1500 Geosciences Undergraduate Scholarship](#).

Applications are due December 30.

<https://awgpnw2021.wordpress.com/about/>



Janet traveling in Hawaii with geologist Jack Lockwood.

AWG Call For Volunteers and Photos

There is Still Time to Get Involved with AWG!

If you would like to support AWG's mission by joining the AWG Board of Directors, this is your chance. Each summer we hold elections for open positions, and this year, we are looking for nominations to fill in the following positions:

Secretary: The Secretary oversees and keeps detailed records for the Board of Directors including meeting minutes, review chapter documents such as bylaws and logos, assists with programmatic wide communication and supports AWG initiatives. Other duties may be assigned as needed, but there is always room to also work on various board and award committees. The term for this position is two years.

Regional Delegates and Alternate Regional Delegates oversee connecting the chapters and members at large in the different regions with the AWG Board of Directors. They also assist chapters with all their duties and assist with AWG initiatives. Terms for these positions are three years and may be re-elected for one additional 3-year term. This year, we are looking for volunteers to fill positions in the **North Central, Rocky Mountain, and South Central** regions.

Elections will be held during June-July, and the terms will begin on September 15th, 2023. You can send nominations to the Nominations Committee Chair, Past-President Michelle Sutherland at president@awg.org.

Thanks for your support!

Follow this link to our current officers and delegates: <https://www.awg.org/page/AWGOfficersandDelegates>

Photos needed: for the Pardee Session Spotlight on Positive, Diverse Female Role Models

GSA and AWG are looking for photos of women working in all aspects of the geosciences as part of their Pardee Keynote Symposium "P2. Spotlight on Positive and Diverse Female Role Models" which will be held at the GSA Connects 2023 Meeting in Pittsburgh, Pennsylvania, on Tuesday, 17 October, from 1:30 PM through 5:30 PM. Our goal is to demonstrate that there are diverse females working in the geosciences worldwide. The photos will be shown in the session (which will be live streamed), and in the Women in Geology Mentor Program Reception after the session, to illustrate to the next generation the depth and breadth of female geoscientists. To be a part of this endeavor, please email two .jpg photos (500px L x 500px W) cropped to a square to diverse.geos2023@gmail.com. We ask that you use the naming convention first_last.jpg (example abigail_burt.jpg) and include your name, occupation, employer and location in the email.

Needed:

- two .jpg photos of YOU at work or at play, cropped to a square and saved in the format first_last.jpg (example abigail.burt.jpg), and
- include your name, occupation, employer, and location in the email.

AWG Activities at SENEGSA 2023

AWG had a strong presence in Reston, VA, at the joint meeting of the Southeastern and Northeastern Sections of the Geological Society of America, March 16-19. All four Regional Delegates were present to work at the AWG booth (Southeast: Lynn Wingard and Tricia Kelley; Northeast: Shirley Jackson and Julie Fosdick). In addition, we had help from three volunteers from the DMV chapter (Carolyn Olson, Eleanour Snow, and Sara Thomasian) and William & Mary professor, Rowan Lockwood. Thanks to all who helped staff the booth! A very steady stream of students and professionals stopped by the booth to express interest in membership, forming chapters, and/or signing up for an institutional membership. A flurry of membership applications was received during and shortly after the meeting, and we are delighted to welcome these new members! The sign-up sheet for follow-up contacts had 139 names at the end of the meeting. We will be contacting all the visitors to the booth to follow up with their inquiries.

We also hosted a networking social, held jointly with the Paleontology Society, at Ted's Bulletin, on Friday evening. The event was such a big success that we greatly exceeded the capacity of the semi-private room we had reserved at the restaurant; more than 100 people signed in at the event, but we know we missed a few attendees. We highly recommend these types of events at regional GSAs and we appreciate the support we received for these activities from AWG and the AWG Foundation (as well as the Paleontological Society). We find these events to be an effective way to build community among those who support AWG's mission and to learn from each other regarding career-stage issues. Plus, we all had a great time!





AWG Newfoundland and Nova Scotia Field Trip

August 1 - 15, 2023

Join us for a beautiful and fascinating geologic tour of the western part of Newfoundland and coastal Nova Scotia. The Newfoundland portion will be led by **Dr. James Brennan** (Dalhousie Univ.) and **Dr. Neil Bennett** (University of Toronto). The focus will be on Newfoundland's Humber Zone, that records Cambrian to Ordovician passive margin sedimentation followed by deformation and ophiolite obduction during the closure of the Iapetus Ocean during the Taconic Orogeny. The Nova Scotia portion will be led by **Dr. Sandra Barr** (Acadia Univ.) and will explore coastal Cape Breton Island and southern Nova Scotia looking at the varied rocks of Laurentia and the accreted crustal blocks of Ganderia, Avalonia, and Meguma. Trip highlights include:

- Gros Morne National Park in western Newfoundland, including Laurentian lower Paleozoic shelf sediments, submarine volcanics, and the Tablelands that expose oceanic crust and upper mantle rocks of the Bay of Islands Ophiolite Complex (BOIOC).
- A traverse of Trout River Pond by boat to explore the heart of the BOIOC and observe outcrops of the Moho.
- L'Anse aux Meadows, a UNESCO World Heritage Site, which contains the remains of an early 11th century Viking settlement and evidence for the first European presence in North America.
- A visit to the global stratotype for the Cambrian-Ordovician boundary at Green Point.
- A tour of coastal Cape Breton Island, including Avalonian volcanic arc rocks in the south, Ganderian metamorphic and granitoid rocks around the famously scenic Cabot Trail, and glimpses of billion-year-old Laurentian Shield rocks in the far north.
- A stratigraphic overview of the 15-km-thick turbidites of the Meguma terrane, their spectacular metamorphic mineralogy, and the associated aluminum-rich granites, including the iconic South Mountain Batholith.

Please email Marcia Knadle at marciaawg@aol.com if you would like to be added to the interest list to receive trip updates. The tentative price is **\$3000*** with a minimum of 14 and a maximum of 16 participants, and you **MUST** be a 2023 member of AWG to join this trip. Registration materials and additional trip information will be available on or about January 2, 2023 at [AWG Field Trips](#). A \$500 deposit is due February 15, 2023 and full payment is due May 15, 2023.



Tablelands, Gros Morne NP, NL and Long Point and Port-au-Port Peninsula, NL. (photos N. Bennett) Green Cove Headland, NS. (photo S. Barr)

* Price includes 14 nights double-occupancy lodging and will be finalized by the time registration opens in January. (A VERY limited number of single rooms will be available for an additional price to be determined.) Price also includes transportation by minivan, most lunches, a few cooked group dinners, and some breakfasts. It does **not** include transport to and from Halifax, NS, or transportation within Halifax. At least one student member discount will be available, as well as discounts for van drivers and a food coordinator.

SUBSCRIBE

TO OUR CHANNEL



- Distinguished Lecturer Speaker Series
- Women in Geosciences Playlists
- Chapter Seminars & Workshops
- AWG Awardee Updates

SUBSCRIBE NOW

https://www.youtube.com/@awg_org

**SPACES
OPEN!!!**

**NOVA SCOTIA &
NEWFOUNDLAND**

August 1 - 15, 2023

AWG Online Store

AWG's Online Store

Our Online Store is gearing up with new items!

- We have AWG adult-size custom monogrammed baseball cap that comes with the AWG logo on the cap front and "Association for Women Geoscientists" on the cap back. It also includes a leather sizing strap on the cap's back and a mesh sweat insert on the cap's front underside. Baseball cap colors are distressed Khaki or distressed Dusk (charcoal). Caps are \$26 (Price includes shipping).
- AWG travel mugs are IN STOCK. The mug is a white 20 oz Polar Camel Ringneck Tumbler is designed to keep your drink ice cold. The stainless steel, double wall vacuum insulation features maximum temperature retention & insulates hands from the cold. It will keep ice for up to 24 hours. The Polar Camel Tumblers are a No Sweat Exterior, the outside stays dry and there is no need for a coaster. The AWG logo and our association name is on one side of the tumbler and a logo of "All are Welcome in Geoscience" is on the opposite tumbler side. These will sell for \$30 (price includes shipping).
- "Canadian Rockies Field Trip Guide" 200-page book from the 2014 AWG Canadian Rockies field trip; \$45 for members, \$55 for non-members (price includes shipping).



Purchasing organizational merchandise through the online store is easy! Go to <https://www.awg.org/store/> and you can:

- view and purchase items through secure credit card transactions.
- search the online store for a particular item. (If you don't find what you're looking for, please call to inquire.)
- select item attributes (like size and color, when applicable)

While you are there you can support the AWGF Foundation as well!

SUPPORT AWG PROGRAMS DONATE TODAY!

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 Glimmerglen Road
Cooperstown, NY 13326

Or donate online at <https://awg.org>

AWG Member Services

These include:

- AWG Members have FREE access to [Geologize's Practical Geocommunication](#) online course via AGI member societies.
- AWG Members have FREE access to [Proprep online STEM courses](#) for 6 months, with a small fee after that, but AWG members will get a 25% discount on that access fee.
- [AWG Newsletters](#): Gaea and E-News are our two news publications. Gaea is the official quarterly publication of the Association for Women Geoscientists. Gaea is published four times a year in issues designated as Winter, Spring, Summer, and Fall. E-News is a monthly e-newsletter that highlights news of the Association, its programs, activities, awards announcements, and advertisements. This is a great way to advertise current job openings or events to our AWG members!
- [AWG Webinars](#): As a benefit to our members, AWG will provide free webinars that focus on a variety of topics encompassing professional development, technical skills, and soft skills. These webinars will be hosted once a quarter or more, depending on speakers' availability. Webinar sessions will be recorded, so that any members who were unable to attend the webinar but would like to review it afterwards can request to do so!
- [Mentoring365](#): "Mentoring365 is a virtual mentoring program developed among Earth and space science organizations to facilitate an exchange of professional knowledge, expertise, skills, insights, and experiences through dialogue and collaborative learning. The program provides mentors and mentees with structured, relationship-building tools to develop and accomplish focused career goals." - Mentoring365 Website
- [AWG Resume Review](#): AWG offers a FREE resume review committee available to AWG members. This committee is composed of several professionals from across industry and academia who have valuable experience in what employers are looking for in a resume today.
- [Student Opportunities](#): AWG provides listings for students, including internships, funded graduate school positions, and research experience.

Members must be logged into the AWG website to access the above listed online courses and pages.

PROPREP – AN EDUCATION TECHNOLOGY COMPANY THAT IS NOW PARTNERING WITH AWG

Proprep, an educational technology company, concentrates on customized e-learning resources. Proprep is a subsidiary of Kvasir Education in Tel Aviv, Israel, but operates under the Proprep brand in the UK (proprep.uk) and the US (proprep.com).

STEM subjects are the focus of Proprep, with the company using award-winning artificial intelligence and a team of seasoned professors, each having over a decade of experience to create these online resources. Proprep has built a vast library of more than 50,000 online STEM video tutorials, all between five and seven minutes long. This STEM video library is continually added to on a weekly basis. Proprep currently has 35 leading pedagogical staff, 9,000+ STEM exercises with comprehensive video solutions, 1,100+ hours of original video content, and 2,400+ courses customized for various universities.

As part of the Association for Women Geoscientists' collaboration with ProPrep, AWG members can benefit from complimentary access to numerous bite-sized video tutorials and practice questions that are specifically aligned with STEM modules studied at various institutions. The Proprep educational platform also provides materials on the practical application of mathematics and science to all engineering fields, aiming to address the essential foundations of these engineering domains. Proprep's learning resources are tailored to facilitate easy access to self-paced supplemental learning and have aided more than 500,000 students in succeeding in STEM thus far.

ProPrep believes that the best way to learn STEM is to get yourself covered for the finals and jumpstart succeeding in the next semester with their bite-sized video tutorials, practice questions and study guides customized to your major! AWG members can access the Proprep STEM modules by linking to our AWG website Members Exclusive page: <https://www.awg.org/page/AWGMemberExclusives>

AWG Nova Scotia & Newfoundland Field Trip 2023

There is now space! August 1 - 15, 2023

Space has opened up on AWG's two-week field trip to Newfoundland and Nova Scotia. The first week will be in western Newfoundland, where our leaders will be Dr. James Brenan (Dalhousie University) and Dr. Neil Bennett (University of Toronto). The second week will explore various terranes in Nova Scotia and will be led by Dr. Sandra Barr (Acadia University), co-author of *Geology of Nova Scotia - Touring through Time at 48 Scenic Sites*. The tentative price is at least \$3000; registration is open. For more information, contact Marcia Knadle at marciaawg@aol.com and to find out how to register.



ADVENTURE GEOLOGY TOURS COSTA RICA

Active Exploration with Enthusiastic Geologists
www.costaricageologytours.com



Experience the Gold Coast with Geologist Dr. Tamie Jovanelly

Geological Society of America Fellow (2021)

May 20-27, 2024

This mostly inclusive 8-day excursion will take you around the country in resort-style accommodations with local Costa Rican geologists providing interpretations along the way. This \$3,700* trip includes the following:

- 7-night resort-style accommodations with private bathrooms
- Daily breakfasts
- 5 traditional Costa Rican-style lunches
- All in-country transportation
- Geology interpretation at field-sites
- 3 lectures by Costa Rican professional geologists
- Color printed field guide
- T-shirt, fancy water bottle, and sticker swag from Adventure Geology Tours
- A donation to AWG Foundation

Also includes paid admission to:

- Poás Volcano National Park
- Arenal National Park
- La Fortuna Waterfall
- Arenal Hanging Bridges
- Lake Arenal Boat Cruise
- Cavernas de Venado & Guided Tour
- Monte Verde Biological Reserve & Guided Tour
- Manuel Antonio National Park & Guided Tour
- Irazú Volcano National Park



*Price does not include air fare; based on double occupancy. Minimum number of 10 participants are required to run the trip with a maximum of 16 participants for a close-knit experience.

Why travel with AGT? Dr. Jovanelly was a Fulbright Research Scholar at Nacional Universidad in Costa Rica where she researched the hydrology of the country's National Parks. Additionally, Dr. Jovanelly is currently writing her second book relating to the advanced geologic concepts of Costa Rica.



Deposit deadline DECEMBER 15, 2023 to hold slot.

www.costaricageologytours.com

**For more information please contact Dr. Tamie Jovanelly
info@adventuregeologytours.com or 330-283-9194**

AWG PNW Chapter Field Trip—Mount St. Helens: Then to Now

July 2-7, 2023

Geologic leaders Dr. Mindy Brugman and Carolyn Driedger

\$625 for AWG non-student members; **\$325** for AWG student members

Join us for a 5-day field trip to Mount St. Helens (MSH) led by people who were there doing research when it blew 43 years ago! Mindy went on to work for Environment and Climate Change Canada (ECCC), and Carolyn worked for the USGS David A. Johnston Cascades Volcano Observatory (CVO) for over 30 years. We're inviting other eruption witnesses and experts to join us, including Dr. Cathie Hickson (retired from NRCan Volcanology) and Keith Ronnholm (retired from NOAA).

Our itinerary will include explorations on the south and north sides of the mountain, with activities looping around the mountain via the east side as weather and road conditions permit. The official field trip group activities will start late in the afternoon of Sunday July 2 and continue into the afternoon of Friday July 7. They will include evening presentations and geologic/nature hikes, including a trip into Ape Cave and a visit to Ape Canyon. We'll spend the nights of July 2, 3 and 4 at the Hilltop House at Anderson Lodge near Yale, WA and the nights of July 5 and 6 at the MSH Institute's Science and Learning Center on Coldwater Ridge, the accommodations closest to wildflower-carpeted Johnston Ridge, the Visitor Center, and the crater itself. Both accommodations have enough beds (some are bunks) for everyone, as well as big kitchens, so we'll be providing food to prepare breakfasts, dinners, and packed lunches from breakfast on July 3 through lunch on July 7. \$100 rebates will be available for 2 food coordinators; student members of AWG will have priority. The price includes accommodations (you'll need to bring bedding/towels) and food, but not transportation, so we'll help organize carpools.

This trip is open to all AWG members, and registration will be through the AWG Online Store starting on February 23 at <https://www.awg.org/store/>. Contact Marcia Knadle at pastpresident@awgpnw.org to get on the interest list and get updated itineraries and trip logistics. If you don't want to register through the online store, you can request a registration form. All payments will be **non-refundable after April 4** unless we can fill your spot.



AWG Geoscience IDEA (Inclusivity, Diversity, Equality, & Accessibility) Scholarship: Update and Call for Applications

Scholarship Update:

First and foremost, the Geoscience IDEA Scholarship Committee would like to thank our generous donors and the AWG Foundation for their increased support as we continue to work toward a more inclusive, diverse, equitable and accessible (IDEA) geoscience workforce. From the bottom of our hearts, thank you to all who have contributed to support this important Scholarship!

With the increased donations and support, the Scholarship Committee is excited to announce that each existing Scholarship will increase to \$3000 for two recipients, a third award of \$500 will be added, and all applicants will receive a sponsored Student membership for one-year (up to the first 50 applicants).

Undergraduate Students: The 2023 application cycle for the Geoscience IDEA Scholarship is underway! Please visit the [AWG Awards & Scholarships page](#) to learn more about the [Geoscience IDEA Scholarship](#), the eligibility criteria, to submit your application, or contact the Scholarship Committee with any questions you have. The application deadline is **June 30, 2023**. Only complete applications will be reviewed for consideration of this Scholarship.



PROFESSIONAL EXCELLENCE AWARD

**APPLY TODAY!
DEADLINE: JUNE 15TH**



The AWG Professional Excellence Awards go to women who, throughout their careers, made distinguished contributions in the following three areas:

government/regulatory,
industry/consulting, and
academia/research.

**[HTTPS://WWW.AWG.ORG/PAGE/
SCHOLARSHIPSANDAWARDS](https://www.awg.org/page/scholarshipsandawards)**



AWG Awards and Scholarships—Funded by Members Like You

Professional Excellence Awards

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 and
- Academia/research.

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

1. Breadth and depth of professional accomplishments
2. Mentoring of other geoscience professionals
3. Outreach and service activities
4. 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](#). If you do not have a google account, please submit your nomination as one complete pdf package to pro-excellence@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 applying

Nomination deadline: June 15th each year

The AWG Professional Excellence Awards are graciously supported by a donation from Other Orb. You can learn more about Other Orb by clicking on the logo!



AWG Awards and Scholarships—Mavis Kent Mid-Career Award

The AWG Mavis Kent Mid-Career Award is given annually to one honoree in recognition of significant contributions to the Earth and space sciences by an outstanding mid-career woman scientist. We define mid-career as the professional stage demonstrating earned experience and expertise but with the expectation of many years remaining to gain more experience, advance qualifications and pursue leadership roles. This approximates to 7 to 20 years of professional experience. Each honoree will be evaluated in the following two areas, that demonstrate a balance between professional Earth or space science careers, and outstanding service to their communities.

Nominations will be solicited from the AWG membership at large. The impact and breadth of scientific contribution and community service will be evaluated as follows:

- **Scientific Excellence and Impact:** Scientific contributions demonstrated through a candidate's body of work showing new ideas for analytical methods, approaches or syntheses, resulting publications, and insights gained. Overall impact of a candidate's work to her scientific field, and influence of current or future research.
- **Distinguished Service and Broader Impact:** Demonstrated benefits to others at local, national, and international levels from the candidate's contributions. Community service through mentoring other geoscience professionals, collaboration with institutions of informal science education such as museums, nature and science centers. Development of outreach materials explicitly aimed at communicating effectively about science concepts for general audiences like K-12 students or teachers, professionals in other fields, or the general public.

Nominations can be submitted using the following link: <https://www.awg.org/ScholarshipsandAwards>, which can also be found on the AWG website at <https://www.awg.org/>. Please submit your nomination as one complete pdf file to mk-award@awg.org.

Nomination packages should include the following:

1. One to two-page letter summarizing the nominee's significant contributions to Earth and space science, and impact of distinguished community service.
2. Nominee's Resume highlighting science career and community service.
3. Two letters of support, with a maximum of five letters, which can be from non-members of AWG.

Nomination deadline is July 15th of each year.



Penn’s Master of Science in Applied Geosciences is now fully online!

With Penn’s online Master of Science in Applied Geosciences, you can make an impact in environmental geology, hydrogeology, or engineering geology.

- Expand your applied geoscience or engineering geology knowledge
- Learn from experienced industry experts
- Prepare for your next professional move ahead

Join us at our **monthly virtual café** to get your questions answered about the new online experience, program features, application needs, and more.

Details at: www.upenn.edu/msag



AWG Membership



ENCOURAGE participation of women in the geosciences

- Scholarships
- Girl Scout Activities
- Congressional Visit Days
- Student Awards for Geoscience Excellence (SAGE)
- Outstanding Educator Award
- Geoscientists in the Park
- Women in the Geosciences Day

ENHANCE professional growth and advancement of women in the geosciences

- Free Resume Review Service
- Domestic & International Networking
- Exciting and Informative Field Trips
- Mentoring

EXCHANGE educational, technical, and professional Information

- GAEA and E-mail Newsletters
- Distinguished Lecturer Program
- Conventions
- Technical Programs
- JobWeb
- Networking with Affiliated Societies

RENEW

Online:

https://www.awg.org/general/register_member_type.asp?

or mail / fax the form below

MEMBERSHIP RENEWAL / APPLICATION

Name: _____

Mailing Address: _____

Work Phone: _____

E-mail: _____

Enclose U.S. Funds, payable to AWG

Payment by: Check VISA/MC Exp. Date: _____

Card Number: _____

Signature: _____

Please mail or fax application to:

Association for Women Geoscientists

1333 W. 120th Avenue, Suite 211

Westminster, CO 80234

PHONE(303) 412-6219, FAX: 303-253-9220

Dues (new reduced membership costs):

Life Member:\$1500

Sustaining Professional:\$100

Professional:\$50 *

Early Career\$30

Reduced Income/Retired:\$20

Student (valid student ID required)..... \$20

Global Non-High Income Professional/Student....\$10 P \$5 S

Institutional: (Includes 1 Professional Membership)....\$200

Corporate... (Includes 5 Professional Memberships)...\$500+

Sponsor a Student Member\$20

* Individual memberships after Sept. 1 roll over to next year

For a paper copy of GAEA:

Please add the appropriate postage

(\$12 US/ \$15 Outside North America)

AWGF Donation: \$ _____

TOTAL: \$ _____

Tax Disclosure Statement—Contributions or gifts to AWG are not tax deductible for federal income tax purposes. Dues payments are deductible as an ordinary and necessary business expense.

Contributions to AWGF (501c3) are tax deductible.

THANK YOU FOR YOUR PATRONAGE!