Chrysalis Renamed in Honor of Jeanne Harris  

By Suzanne Webel

Biography Jeanne E. Harris July 4, 1947 - October 9, 2019

As a freshman at the University of Michigan, Jeanne found that she was required to take one year of a lab science. Having taken biology, chemistry, and physics in high school, she was looking for something different. Her Aunt Margie suggested geology. Margie was the first woman Chief Judge of a District Court in Michigan and Margie’s sister Nealie was the second woman Federal Appeals Court Judge. Jeanne thought she would follow in her aunts’ footsteps and go to law school. But her class in historical geology changed everything. The course involved field work, core descriptions, and research on the Michigan Basin, and as she said, “I was hooked.”

After graduation in 1968, Jeanne was told she needed a Master’s degree as there had been no jobs in geology for the past ten years. Again, Aunt Margie pushed her: “If you like it, you will figure out a way to use it.” And she did. Mentors and role models make a difference, a lesson Jeanne brought to her work with the Association for Women Geoscientists (AWG). Before getting into the oil and gas industry, she worked for universities, institutes, and laboratories in fields as disparate as development disability, zooplankton, using earthquake seismology to study underground nuclear blasts, seismic identification of artillery, coal mines, and salt solution mining. Her career in oil and gas began in 1975 as a geophysicist with Mobil Oil Corporation. She went on to become Area Geologist and Team Leader for Natural Gas Corporation of California and Assistant Exploration Manager of Equity Oil Company.

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Dear AWG Members,

I am excited to step into the President position this fall. In September we had an excellent fall board meeting. The energy from the group was amazing, and you are all well represented by your delegates!

Deciding on a theme for the upcoming year was a challenge for me. The Presidents preceding me chose themes of Diversity and Inclusion for their years of leadership of AWG. These goals to improve diversity and inclusion are still very much ongoing in AWG, and in the wider geoscience community. Therefore, I selected empathy as my theme for the upcoming year. Empathy is important for us to keep moving forward to achieve true diversity and inclusion. Empathy means putting yourself in someone else’s shoes. And since we are geoscientists, that means putting ourselves in someone else’s hiking boots (field geologists), lab coats (geochemistry or geobiology geoscientists), or at someone else’s computer keyboard (for those of you who are modelers or geophysicists or just need to spend a lot of time on the computer for general geoscience business).

I once read somewhere that reading fiction helps us develop empathy. I think that it’s important to read any kind of story that demonstrates human experiences that are different from our own. We know our own experiences, and we tend to relate best to others who had similar or shared experiences. But as members of AWG, we recognize that there is not a one size fits all path to geoscience education and career success. That is why we developed and continue to support the Jeanne E. Harris Chrysalis Scholarship for women whose education was interrupted by life circumstances. The diversity of our experiences makes our community stronger.

How can you help AWG achieve our goal of increasing empathy, diversity and inclusion? Please share your stories! Help us demonstrate to the geoscience community that there are many trails up the mountain that can lead to success. What are your experiences with AWG? In your education? In your career in geosciences? What do you want AWG to do for you? We are working on a survey to help us get answers to some of these questions, but you don’t have to wait for the survey to reach out to us. You can contact your regional delegates at any time to let us know your thoughts, suggestions, or concerns.
From the AWG President
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The Board of Directors truly values your feedback. Some of our action items from the fall board meeting stemmed from your notes and suggestions shared in the comment space on the election ballots this summer. A few of these goals for the upcoming year include:

- Improvements to our communication with members via the website, newsletters, and social media.
- Continued efforts to make chapter information and requirements clear and straightforward.
- Creating more webinars and virtual training opportunities.

We also want to ask, what can you do for AWG? AWG is a volunteer organization, and we need volunteers to accomplish our amazing goals. There are so many opportunities for you to get involved! You can engage with a local chapter or start a chapter if there's not one near you. We have many projects and awards that require coordination and application reviews. We need experienced volunteers to review resumes and provide expertise for our webinars. We are always looking for mentors to encourage students and early career professionals in their paths to success. And each year new leadership opportunities open up on the Board of Directors. Be on the lookout for these volunteer opportunities in upcoming issues of E-news and Gaea and let us know how you want to get involved!

I look forward to working for you all this year. Anytime you have questions, concerns, or ideas, please feel free to reach out by email to president@awg.org.

Thank you!
Lisa Tranel
President 2019-2020

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Funding the good works of AWG!

The AWG Foundation Board of Directors met for two days at a hotel conference room in Phoenix Arizona in September 2019. Our Fall Board meeting is all about reviewing all the great work of the past year and deciding funding levels for the coming fiscal year. We are pleased to announce that we funded 31 projects for a 2020 fiscal year budget of just under $80,000. The funds come from several different buckets, $51,000 from the AWG Foundation general fund, $14,000 from matching funds raised by AWG chapters, $8,000 designated to specific projects by donors, and $7,000 from funds outside of AWGF. Two projects have been deferred for approval awaiting additional clarifying information.

The AWG project leads are due congratulations and gratitude as they were very attentive to requests to meet an earlier deadline using the correct forms for FY2020 Proposals and FY19 Reports.

It is an absolute pleasure working with these volunteers who are crucial to fulfilling the AWG Mission. Each year we are building on the best practices for administering the projects we fund and are excited to be seeing new projects proposed. Having sight of the diverse projects that our AWG Chapters are undertaking puts us in a unique position to identify opportunities for connecting project leads in different regions who can share their experiences.

In the New Year, AWGF will be organizing a Round Table Webinar to connect our project leads so they may share their knowledge with one another discussing best practices and pitfalls they have encountered in the course of leading their projects. Stay tuned for updates and invitations.

The Association for Women Geoscientists Foundation was founded in 1983 as a 501(c)(3) non-profit public benefit corporation. The AWG projects approved for 2020 include professional awards, scholarships, travel grants, and professional opportunities as well as encouraging the next generation of women geoscientists through outreach. Continued Page 5
The AWG Foundation Board of Directors always enjoys hearing about the results of all the AWG projects that have happened in the past year. You can read articles in GAEA to learn more about some of the great women we celebrate and support through the AWG projects. Thank you to all of you who work on or contribute to the great work of AWG. We could not do what we do without your volunteer efforts.

At this time, I would like to welcome David Watkins to the AWG Foundation as a Director for a three-year term. David is a Professor of Paleontology at the University of Nebraska and has been a strong supporter of both AWG and the AWG Foundation. We look forward to working with David Watkins as we continue to support AWG in its mission to enhance the quality and level of participation of women in the geosciences.

Please join me in supporting AWG through the Foundation. Your contributions are what makes the AWG projects possible. You can donate online at www.awg.org

As always, we thank you for your support of the AWG Foundation, and we will keep right on asking for more.

Jenny Thompson
AWG Foundation Board

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___ Other: ______________________

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Mail to: Kate Johnson, AWGF Treasurer, 652 Glimmerglen Road
         Cooperstown, NY 13326
Or donate online at www.awg.org
Faced with widespread layoffs in the industry, Jeanne braved the bleak climate, and with her husband, Robert Groth, established their own oil and gas company in 1986. In Jeanne’s mind, obstacles are meant for leaping over, not barriers to progress. Throughout her working life, Jeanne immersed herself in five diverse roles: geologist, participant in professional societies, friend, mother, and spouse, succeeding in each arena. Her most important geologic accomplishment was the discovery of the Greasewood Field in Wyoming, which was significant because it opened up a whole new play concept. She credits marrying Robert as “the best decision I ever made.” Their son, David, is a star entrepreneur in his own right.

Jeanne’s many contributions to AWG, AAPG, and RMAG, have been recognized with numerous awards, including AWG-Denver Woman of the Year, AWG Distinguished Service Award, the PG&E Community Service Award, RMAG and AAPG Distinguished Service Awards, AAPG Long Service Award, and Honorary Memberships in both RMAG and AAPG. Jeanne’s enthusiasm for and dedication to AWG is unchallenged. She was a founder of AWG and the AWG Foundation, serving as the second president of the Foundation. She credits her experience in AWG with teaching her about organizations and people. She helped create almost every early AWG committee and chaired all but one.

But her first love was always the AWG Foundation’s Chrysalis Scholarship, which has now been named in her honor, the Jeanne E. Harris Chrysalis Scholarship. She helped create the scholarship committee and chaired it for 20 years. Since Chrysalis began in 1989, more than 80 women have received funding to complete their education. Thanks to the establishment of an endowment to support Chrysalis scholarships, her legacy will live on in the lives of countless future women geoscientists. And because Jeanne was a loyal friend to all, her legacy will also live on in the hearts of those who have known her.

Link to her Obituary: https://horancares.com/obits/jeanne-e-harris/

Reflections from Suzanne Webel

I was proud to consider Jeanne Harris my most valued professional colleague and my best friend for almost 45 years. The following is a lightly-edited excerpt from a citation I wrote for her nomination to AAPG’s Honorary Member Award in 2012:

"Citation: To Jeanne Elizabeth Harris, friend to all and prospector par excellence, for her loyalty, commitment, hard work, and leadership in the petroleum industry and AAPG." Jeanne Harris thought she’d been nominated for the prestigious AAPG Honorary Member Award because of her work in the AAPG House of Delegates. Those of us who knew Jeanne, however, knew that it was really because of her indefatigable enthusiasm, her unwillingness to take no for an answer, and her uncanny ability to help both friends and total strangers succeed.

Jeanne was what Malcolm Gladwell, in his bestseller The Tipping Point, calls a “Connector,” a person with an extraordinary knack of making friends. Connectors find everybody interesting. They have a foot in many different worlds, and they take steps to bring all those worlds together. Jeanne and I first met at Mobil in Denver in 1975. Soon after the petroleum industry imploded in 1986, she opened her own oil company and I took over my family’s pharmaceutical advertising business. One of my first challenges was to get 25,000 promotional statuettes hand-painted in a very short period of time, but I knew very little about the field. So I turned to Jeanne, of course.

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It didn’t matter that she knew absolutely nothing about the field either. Through her extensive network she quickly found me an entire Vietnamese family in Denver who miraculously got the entire job done, beautifully, on time and under budget. The ad promotion was a runaway success. Almost everyone who knew Jeanne has a similar story!

Gwenn Jensen

I met Jeanne Harris nearly 40 years ago when I joined AWG. In 1981, Jeanne was president of the Denver chapter and I was on the board as well. It was there that I observed her leadership style firsthand: action-oriented, inclusive, and productive. She taught me a lot that year and I am forever grateful. Jeanne persuaded me to join the AWGF board as vice-president in 1983-84 and we continued to work together on various AWG projects over the years. I watched Jeanne face her greatest challenge this past year and a half with optimism, courage, and strength, characteristics she called upon her entire life. I find it fitting that AWG has honored Jeanne by naming the Chrysalis Scholarship after her. The Chrysalis Scholarship came to life in 1988 when Jeanne was AWGF president, and she worked tirelessly to support it her entire life.

Vicki Cowart:

I met Jeanne almost as soon as I got to Mobil after grad school. Her enthusiasm, energy, and amazing smile were so attractive, I was drawn to her confidence and rewarded with her friendship and generosity. Like so many people, I was the beneficiary of Jeanne’s mentoring and encouragement across the years. She was always willing to give advice – and her effervescent look at life was contagious. Jeanne’s coaching was invaluable as I went from being a naive grad student to a professional. One of my favorite memories of those early days was the building of the Association for Women Geoscientists; Jeanne was a powerful force that helped motivate many of us to do the work to get that fledgling organization up and running.

I continued to find her advice critically helpful at several key points in my career. It was Jeanne who sent me the announcement about the opening of the Colorado State Geologist position – and more importantly her words “this would be a great job for you,” were the encouragement I needed to go for it. She even gave my husband and me a place to stay (along with our dog) as we transitioned back to Denver. Jeanne (and the mighty team of Suzanne Webel and Gwenn Jensen) helped to improve my resume several times across the years. But more than the words on paper, Jeanne helped me believe in myself. If we couldn’t get the training we needed in the companies we worked for, Jeanne was the instigator to hire our own consultants and set up our own career development workshops. It was always invigorating and rewarding to be in those sessions with Jeanne – she provided challenges, good ideas, and encouragement in equal measure.

Jeanne was also by my side, encouraging me to take the next big step, as I left the geosciences to take the CEO job at Planned Parenthood of the Rocky Mountains. She signed up to be one of the first donors I brought to my new non-profit work, and she attended so many of my speeches and political events. When I was nervous about a new talk or a new audience, it was reassuring to look into the room and see Jeanne’s face, saying with those big warm, expressive eyes, “you’ve got this, you can do it.”
Now, as we must find our way without Jeanne in the daily flow of our lives, it is sad and feels lonely. I will hold on to the memory of the look in her eyes, that big smile, the sound of her voice, always kind, always encouraging me to go for it.

Laurie Langer Brooks

Jeanne and I worked together on various aspects of AWG and its Foundation from the time of my first “national” meeting in Denver in, I think, 1980. We became fast friends and it has been a friendship between families. Jeannie's Davie and my Liz have been friends since they shared blankets on the floor of AWG board meetings as babies. They wrote science fiction stories together through the mail and have attended each other's weddings. Jeanne and Robert were second parents to Liz when she was too tired to make the long drive back from her job in Denver to her home in Fort Collins and to my daughter Diann who likewise stayed with them a few times while attending nursing school in Denver. My husbands both Don and Erick enjoyed winter ski trips to Colorado with Jeanne and Robert and we all enjoyed their visits to our homes in Pittsburgh, New Jersey and most recently the Florida Keys. We were so lucky to have each other through children and career changes and she will be missed by my whole family as well as many others.

Marcia Knadle

When I first joined the AWG Board in 1975, it was as the chapter delegate for the brand-new Puget Sound Chapter. With no experience on any organization board, I was impressed by the plethora of role models on the board, and especially by then-AWG Vice President Jeanne Harris, whose friendly, calm and confident manner was inspiring. Jeanne immediately pulled me into active service, to organize the next AWG field trip, reassuring me that I could, even though I'd never before even attempted to organize anything like that. While I have continued to serve on the AWG Board off and on and work on a number of different projects over the years, organizing AWG’s field trips remains my first passion -- all thanks to Jeanne.

Janet Crampton

Jeanne Harris was the go-to person for AWG and geology. Want the amount of AWG Foundation scholarship money available? Ask Jeanne. Need advice on mineral rights in Matagorda County, Texas? Ask Jeanne. Worried over how women geoscientists are treated? Ask Jeanne. Working with Jeanne on the Chrysalis Scholarship selection group revealed the depth and width of her geological contacts, understanding, and knowledge. Her support for the Chrysalis Endowment, to generate enough annual revenue for two scholarships, was essential. Without her foresight and determination, we could not have achieved our current status. We miss you, Jeanne, but your gifts live on.

KT Moran

Jeanne empowered me by simply existing in her confident frankness; comfortable in her skin, her strength, and her profession. I did not have the opportunity to know her well. When I took over managing the Chrysalis program, about 10 years ago, I had a few phone conversations with her and received a box of historical records. We had brief, but meaningful conversations about the goals of Chrysalis; she made sure she was handing it to someone who understood them and would carry it forward with Intentions of high integrity. I had not made the connection of her voice and the face of the scientist I had met at AWG National events over the years. In person, she always caught my attention with her sense of humor and knowledge; I even remember buying her a drink or two.
We had tried to get together a few times over the years, and each time something prevented it, often one of her medical issues. About 2 years ago, we had plans to meet up as she was travelling through Florida. Hurricane activity delayed her travel and prevented the full day we had planned. She had only the span of a dinner available, and I am so glad I took the 1.5 hour drive to meet up with her. I was able to meet her partner and we delved deep into our histories, challenges, and plans to move forward. I walked away from that dinner with resounding respect for her soon-to-be legacy, marveling at all the challenges she had overcome, professionally, personally, and medically. Her strength resonated then, and now.

I wish I had taken a photo with her on that day. I am so thankful that Donna Jurdy has been working to procure more funding, and also keep me apprised of the brilliant history of Chrysalis – of strong, forward-thinking, women geoscientists who know how to fight, survive, and thrive. Even better together, and for each other. So often when ‘life happens’ – it is women who are willing to put their own pursuits ‘on hold’ to tackle the challenges that present themselves. Review of the applications are humbling - women geoscientists pursuing their studies, but also handling life challenges ranging from loss to cancer, abuse, medical issues, tragic accidents affecting themselves and their families. These geoscience professionals are dealing with substantial challenges, and still work diligently to pursue their interests and provide service to the community (a requirement of the scholarship). Chrysalis awardees (who we fondly refer to as ‘mudderflies’) are goal-oriented problem solvers, and we need them in our workplaces!

I personally was a recipient in 2003. I am a strong woman, but that did not prevent me from falling victim to domestic violence. I had to take a few years from my studies to work full time while raising a son and taking on a court battle to protect him. The Chrysalis Scholarship provided support for me to go back and defend my thesis - thereby allowing me to continue my career and better provide for him. I will forever be grateful. I was active in my local AWG chapter, which was the vehicle for me to find the Chrysalis scholarship. Receiving it activated a greater desire to give back, and when I inquired, Mary Gillam, past AWG President, and Jeanne were quick to offer the opportunity to serve as a National Delegate to AWG. Participation on the Board provided access to the larger community that has become a treasured friend circle and professional network. I am a better person, a better geoscientist, and a better advocate because of AWG.

**Reflections from Donna Jurdy**

Back in 1970, Jeanne Harris and I met as fellow grad students at the University of Michigan, then the Department of Geology and Mineralogy. Having just finished her B.S., she was anxious to pursue an M.S. for entry into the Oil Industry; I was pursuing a Ph.D. in hopes of an academic career in research. Sharing a small office, jokingly called the “women’s room”, we talked often and became friends. Jeanne had a ringside seat to financial difficulties encountered by a woman in finishing her degree: with zero financial support my final year, I had to work full time at Environmental Research Institute of Michigan, doing classified geophysics research for the military. As Jeanne also worked there, we banded together on our first joint project, organizing an employee insurrection to force ERIM to reinstate Direct Deposit of paychecks!

*Continued Page 16"
The Association for Women Geoscientists, Earth Science Women’s Network, and the American Geophysical Union have partnered to address the problem of sexual harassment in the earth, space, and environmental sciences with a four-year, $1.1 million grant from the National Science Foundation ADVANCE program. The project has made significant progress towards our project goals: (1) bystander intervention training for geoscientists to address sexual harassment and other hostile behaviors in the workplace, (2) research ethics curricula, and (3) sustainable and transferrable model to other STEM fields. We are happy to report a successful second year of the project, with some major highlights summarized below.

Below are some of the major activities for 2017 through 2019:

- Launched an online resources collection
- Developed and delivered in-person workshops for multiple audiences
- Developed workplace climate survey tool
- Conducted five research focus groups
- Built relationships with campus sexual violence prevention and Title IX offices
- Added three new collaborating institutions
- Provided support and/or professional development for students
- Expanded beyond geosciences
- Secured supplemental funding to expand the project
- Quoted in multiple journals including Nature

In addition, the following contributions to STEM resources have been published:

- Two chapters in Women and Geology book
- Geoscience Currents No. 125, American Geosciences Institute
- Invited World Views piece in Nature
- Invited post in Speaking of Geoscience, the Geological Society of America's Guest Blog
- Invited post in National Postdoctoral Association's blog
- Manuscript in Journal of Geoscience Education

As part of AWG’s focus on fostering safe work environments, the ADVANCEGeo Partnership has created a survey on workplace experiences in the earth and space sciences. This survey and the above accomplishments are the culmination of two years’ work by the project team. This survey was disseminated to all members of AWG, ESWN, AGU, and other partnering organizations in October of 2019.

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AWG has partnered with the GSA Geology and Society Division, the GSA Geology and Public Policy Committee, and the Earth Science Women's Network for the Pardee Session "Women Rising: Removing Barriers and Achieving Parity for Women in the Geosciences." As part of this session, a series of blogs will be posted on the GSA website. See below for links:


Finally, ADVANCEGeo is scheduled to lead a "Train the Trainer's" workshop on January 9th and 10th in Lawrence, KS. The goal of the Train the Trainers workshop is to develop a network of trainers who will then be able to educate on issues in the STEM workforce such as implicit biases, microaggressions, sexual harassment and discrimination, and bullying.
AWG is pleased to report that Judith Avila from California State University – Fullerton, and Sarah Lapinski, from Oregon State University, were selected to receive scholarships to support their attendance in field geology camps this past summer.

Judith Avila

This summer I took part in the CSUF Geological Science four-week field camp course. Field camp gave me the opportunity to map the Poleta folds within the Central White-Inyo Mountains, the Santa Rita pluton in the White-Inyo Mountains, and the Joshua Tree pluton in Southern California.

At the Poleta folds, I mapped a major refolded fault-bend fold, discovered parasitic folds, strike-slip faults, and several thrust faults. In the Santa Rita Flats area I mapped the Santa Rita pluton and sought evidence to uncover the emplacement mechanism(s) responsible for the Santa Rita pluton. Lastly, at Joshua Tree we mapped various migmatite units and explored the possibility of plutons inducing partial melting and local deformation of the Precambrian-aged rocks in the area.

Field camp was definitely challenging as not only did we dry camp for 3 weeks, but hiked 8 hours a day, averaged 4 hours of sleep at night, and spent 3 to 4 hours a day working on inking maps, completing stereonet analysis on cylindrical folds, writing reports, creating cross sections and legends, etc. That being said, after completing four-weeks of rigorous geology training, I feel prepared to share the knowledge and wisdom that I have attained in field-camp with my future students and would like to thank the Association for Women Geoscientists for supporting me in my career endeavors.

The Geology highlight of my 4-week field camp experience was finding the aluminosilicate mineral sillimanite in our host rock while mapping the Santa Rita Flats area. This was an awesome find as this index mineral was suggestive of a contact aureole, the approximate temperature of heating of the host rock, and it is simply a really cool mineral that portrayed itself in a beautiful array of radiating fibrous crystals.

Field camp is not an easy feat to pursue, but with a positive attitude and loads of curiosity and enthusiasm, you will survive and realize that field camp is the most enriching and fulfilling experience any geology student could have attained throughout their educational experience.

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Sarah Lapinski

I attended Oregon State University’s four week advanced field camp in Wheeler County, Oregon. Our field station was just outside of Mitchell, OR in the dry eastern region of the state. Over four weeks we created geologic maps of igneous intrusions that formed large hills, Cretaceous sedimentary beds that disappeared before our eyes, metamorphosed sediments and pillow basalts, and a variety of different faults and folds.

To say that this field camp was one of the best times of my life is an understatement. The ability to apply all of the knowledge I gained throughout my degree was incredible. As an avid hiker, I was able to mix my two favorite things into what felt like a short 4 weeks of bliss. Geologically, Oregon has a lot more to offer than just the Cascades. When we were mapping an area called “Narrows-Bathtub” we were looking at a high ridge made of ignimbrite deposits where there were oblique faults running through. While it doesn’t sound like much, the obvious offset of the unit and the power of structural processes really amazed me.

If I could give my pre-camp self advice, I would say to exercise more prior to heading out and to enjoy every minute of the field work. Mapping can be stressful at times when the sun is high and the deadline closes in, but if you are in shape when you start the course and keep your spirits up it’s impossible not to have a good time and make a good map. My introduction to field methods professor taught me that when you feel overwhelmed, take a breath, look out into the distance and remember how lucky you are to use the world as your classroom.

After this experience I traveled to Northern Chile to conduct field work where I applied all of the skills I learned at field camp to map ignimbrite deposits and collect samples! It was absolutely amazing and would not have been possible without field camp.

Information on the award:
AWG has sponsored two scholarships yearly since 2008, which are awarded in cooperation with NAGT. These scholarships are meant to encourage promising young women to pursue careers in the geosciences through helping them attend field courses. Named in honor of Maria Luisa “Weecha” Crawford, the scholarships are awarded annually through a competitive process. Applicants must be full-time students pursuing an undergraduate degree in the geosciences (geology, geophysics, geochemistry, hydrology, meteorology, physical oceanography, planetary geology, or earth science education) at an accredited college or university with a GPA of 3.0 or higher. Target field courses must be four weeks in duration or longer (though these weeks need not be consecutive). AWG appreciates generous support that provides life-changing opportunities for women in geoscience. For more information about the AWG Crawford Field Camp scholarships, requirements for applications, and how you can contribute, please visit: http://awg.org/awards
Celebrating 100 Years of Women at the College of William & Mary

White women were first accepted as in-residence students at William & Mary in 1918, making the institution the first university in Virginia to become co-educational. To celebrate 100 years of women in residence at the College, our chapter of AWG worked together with professors in the geology department to host female-identifying alumnae during a two-day celebration over homecoming weekend in October 2018.

In all, the department hosted four events celebrating women in the geosciences, starting with a symposium on Thursday afternoon that featured six alumnae, including the director of the Smithsonian’s National Air and Space Museum, Ellen Stofan ’83 and AWG’s own Lynn Wingard ’79. This symposium was followed by an open reception in the geology department, featuring a photo display of 54 alumnae. The display was organized by Caroline Abbott ’19 and Hope Duke ’19, with assistance from other students. Professors assembled lists of their former students and members of AWG reached out asking for a photo and answers to two questions: 1) What does it mean to you to be a woman in the geosciences, and 2) What is your favorite memory from W&M Geology? The resulting display showed just how diverse alumnae interests are, including higher education, engineering, and curatorial works in museums—students from W&M geology have pursued various career paths. The posters remained on display for the entirety of the academic year, making way for student research posters in the spring following the Southeastern Section Meeting of GSA.

The networking opportunities continued the following day with a catered lunch in the Great Hall of the Wren Building, where current students had the opportunity to speak with alums about career interests, job opportunities, and life experiences. Through structured and casual conversation, students connected with generations of W&M geology graduates. Following the lunch, professors organized a reception in the Rock Garden, a new installation as of 2017. Here, alums, students, professors, and community members alike connected over drinks and food.

One of the many unique factors of the W&M geology department is its commitment to supporting women in geosciences. Dr. Christopher Bailey, former department chair and professor of structural geology, published a blog post in October 2018 citing that since 2010, women have made up 55% of the department’s graduates. For a school of William & Mary’s size, the geology department is booming, with 20 to 30 graduates each year since 2010. The W&M geology department is an exciting place to be — from research and field work, to courses in Norway and Death Valley, CA, and everything in between, the faculty provide tremendous opportunities for all students to succeed and find their passion in the geosciences.

Hope Duke
Class of 2019 Geology
College of William & Mary
https://www.wm.edu/sites/100yearsofwomen/index.php

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SFBA Chapter: Student Awards for Geoscience Excellence

The San Francisco Bay Area (SFBA) Chapter of AWG helped to promote middle-school and high-school student interest in the geosciences by awarding prizes and certificates of excellence to outstanding female presenters of earth science themed science fair projects at several local science fairs. Members and friends of the Chapter volunteered their time to judge at 4 science fairs organized around the Bay Area.

The Chapter is proud to announce that 6 awards went to local students: 1 at the Solano County Science and Engineering Fair, 2 at the Synopsys Science & Technology Championship in Santa Clara County, 2 at the Golden Gate STEM Fair and 1 at the Marin County Secondary Science Fair.

From one volunteer judge: "I had a great time judging the science fair projects at the Santa Clara Valley Science and Engineering Fair. The judging rubric was clearly explained, the organization provided lunch, and I got to personally network with other judges from AWG and other SFBA science organizations. I would highly recommend it to others!"

Two of the awardees also attended our annual Outstanding Student Award banquet, which honors outstanding undergraduate females and includes a general science lecture, thus encouraging them to consider further education and careers in the geosciences. Congratulations to all the awardees and a special thank you to the volunteer judges and Lan Ma (SFBA Student Awards for Geoscience Excellence Committee Chair) for organizing the project!
Jeanne Harris - Personal Perspectives  Continued from page 8

We parted ways in 1974, me to Chicago as a Petroleum Geophysicist with Amoco International Oil Co. and Jeanne took off for Denver also as a Petroleum Geophysicist, with Mobil Oil. No Texas for her, thank you. Jeanne made a respected career in oil, while I made tracks for Princeton as a Research Geophysicist, followed by a faculty position at Northwestern University. Jeanne and I stayed in touch, visiting over the next few years, and always, Jeanne was supportive, enthusiastic, and encouraging. Then the mid-80s and the oil crash when Jeanne and Robert simultaneously lost their positions. Their response: start their own company, G & H Production. Jeanne recounted that the first year they lost money as expected; then the second, broke even; the third year and after they made money.

Meanwhile, Jeanne had started up her AWG group in Denver, and invited me to present a talk on "Recent Advances in Plate Tectonics." I didn't know about this group, but the energy and ongoing activities electrified! One later visit was timed just right so I could join a monthly "Power Lunch," I think Jeanne called it. The group discussion on support for professional and personal victories and challenges was truly inspiring. A few years later, Jeanne invited me to consider service on AWG's Foundation Board of Directors, which mostly met in Denver. Alas, my university did not provide me with discretionary funds nor support my "women's activities." Good grief. Not a roadblock for Jeanne who arranged AWGF support for flights, and provided accommodation at her home. A continuing theme in Jeanne's life -- she found a way to make it work. And I'm honored that she saw I could make a contribution.

These were heady years. In 1988, Jeanne proposed the Chrysalis Scholarship to help women finish advanced degrees, having observed as a graduate student, the "accumulation of disadvantage" women encountered in completing their degrees. I suggested that we focus more programs for professional working women and with Jeanne's encouragement, the AWG Speakers Bureau was created. We provided the names, contacts, and titles for available speakers to address the lack of women speakers in college and university colloquia. At first, we contacted prospective participants individually, then speakers sought us, asking to be listed. Men asked, too. "Sorry guys; You already have your own network."

Of course, Jeanne jumped in, offering talks on "Oil & Gas Exploration: Serendipity or Science?" and "Introduction to Petroleum Exploration: Geology, Geophysics & Drilling." With funding, this became the "Phillips-AWG Distinguished Lectures." Then we had 300+ speakers listed in this program, with topics ranging from paleobotany to Mars. And the program continues.

Jeanne Harris had that effect with AWG, starting a new program, being open and encouraging about ideas and suggestions. She located people to work with programs. Janet Crampton recalls Jeanne asking her to serve on the Chrysalis selection committee. She noted that often the committee members were so impressed with the candidates, they opened their checkbooks to enable an additional scholarship. Jeanne contacted all the scholarship recipients over the years she chaired the committee.

Flash forward to this century. As Northcentral Delegate, I proposed and then oversaw the AWG Professional Excellence Award. Jeanne strongly encouraged this new recognition for women and actively nominated colleagues for the awards. In 2013, Jeanne nominated Vicki Cowart for the Government/Regulatory Professional Excellence Award while unbeknownst to her, Vicki nominated Jeanne for Industry/Consulting. Both were selected unanimously by the Award Committee. Keeping each from knowing they were nominated by the other presented a challenge in undercover work. How wonderful to see both Jeanne and Vicki awarded in their respective categories at the AWG Breakfast in Denver that year!
The photo of Vicki Cowart and Jeanne Harris captures the pride and pleasure of the ceremony (left).

Jeanne's final effort for AWG and women in geosciences coincided with the 30th anniversary of the Chrysalis Scholarship. An endowment would secure the scholarship in perpetuity. The AWG Rocky Mountain Field Trip brought in an enthusiastic Janet Crampton, and they agreed to "think big" and shoot for an Endowment of $200K. Jeanne proposed a 2 year campaign with a matching fund to encourage participation. She and her husband Robert put forward $15,000 masquerading as “Anonymous”.

The Campaign for Chrysalis rolled out in the Winter 2018 Gaea. The initial response exceeded our expectations, and now we are beyond the 2/3rd mark. The generosity of friends and colleagues has been touching.

Sadly, in June 2018, Jeanne received the tragic diagnosis of ovarian cancer, followed by surgery and a difficult 15 months with cycles of chemotherapy. Despite this, she continued to work on the campaign for the Chrysalis Scholarship Endowment. Sunday nights we would talk, review, plan our next effort. Our final rendezvous came in July, out in Grand Lake, Colorado for the wedding of her son, David. (Photo Below) Even with the festivities and all the events, Jeanne and I managed some brief planning for the Endowment.

Chrysalis was so close to her heart. Jeanne smiled, I've heard, when told the scholarship would be renamed in her honor. I will miss Jeanne so much, taking some comfort that the Chrysalis Scholarship lives on. Thanks to Jeanne's vision and effort, the scholarships will securely continue into the future.

Jeanne cared so much about the Chrysalis Scholarship and the recipients that she specifically designated some of her donations during these Endowment building years to ensure enough funds for the year’s Chrysalis Scholarship awards. Please join me in supporting AWG’s Chrysalis Scholarship, now renamed in honor of Jeanne E. Harris.

You can contribute to either the Chrysalis Endowment or the annual fund for the Chrysalis Scholarship. Of course, AWG currently needs both. And of course the Endowment fund remains open into the future for additions. Your contribution to AWG's Chrysalis Scholarship will honor Jeanne Harris.
YES! I want to honor Jeanne Harris and provide a helping hand to the next generation of women preparing for a career in the geosciences.

I want to join the celebration in honor of the Jeanne E. Harris Chrysalis Scholarship and the AWG Foundation by giving the following:

- One-time gift to the Jeanne E Harris Chrysalis Scholarship Annual Fund: $________
- Support for the Jeanne E Harris Chrysalis Scholarship Endowment with a gift today of $________
- Plus a pledge for a further donation of $________ in 2020 for a total gift of $________
- One-time gift to the AWG Foundation General Fund: $________

Name ________________________________________________________________
Email ________________________________________________________________
Phone ________________________________________________________________
Address ________________________________________________________________
____________________________________________________________________
____________________________________________________________________

Signature ________________________________________________________________
Date ________________________________________________________________

We encourage checks because there is no service charge, however, if you wish to donate via the web, please go to http://AWG.org and click the prominent “Donate” button.

Please send this form and your check made out to “AWG Foundation”: to 652 Glimmerglen Road, Cooperstown, NY 13326.

Thank you for your support!

The Association for Women Geoscientists Foundation is a 501(c)3 nonprofit organization, incorporated in California in 1983. Our Federal Tax ID is 94-2938573.
On September 12, 2019 Dr. Jaime Barnes (UT Austin) delivered a colloquium to the School of Earth and the Environment (SEE) at Rowan University sponsored by the AWG Distinguished Lecturer Program. This colloquium entitled "A geochemical glimpse into hydrothermal systems" included both experimental and field experiments on the mineralogical and chemical reactions occurring in hydrothermal systems. The colloquium was attended by faculty and students in Geology, Environmental Science, Geography, and Engineering. The SEE is in its 4th year at Rowan University and includes new Departments in Geology (4 yrs) and Environmental Science (2 yrs). Dr. Barnes’ visit provided both scientific stimulation for this young program, but also valuable mentorship opportunities for the dominantly early career faculty in these departments. The opportunity to host Dr. Barnes would not be possible without the support of the AWG Distinguished Lecturer Program.

The Distinguished Lecturer Program provides a means to encourage diverse participation in the geosciences, to exchange educational, technical and professional information, and to enhance the professional growth and advancement of women in the geosciences. This program achieves all three goals of AWG, as the program encourages speakers to engage students, professionals and educators in the insightful exchange of information, while also enhancing the professional growth of both the speaker and the audience she reaches.

If you would like to invite a speaker to your campus or chapter meeting, check out our website for the list of speakers and application instructions (http://awg.org/DistinguishedLecturer). If you know an outstanding woman in geoscience who should be on the list, contact the Distinguished Lecturer Program Coordinator (dls@awg.org). If you would like to make a donation to support the continued achievements of the Distinguished Lecturer Program, donate online (awg.org) or contact the AWG Foundation Treasurer Kate Johnson (awgftreasurer@awg.org) for more information.
AWG Awards and Scholarships

2020 AWG Awards for Professional Excellence

AWG is calling for nominations for three annual Professional Excellence awards. The awards will go to women who, throughout their careers, have made distinguished contributions in one of the three following categories:

- Government/regulatory agencies
- Private industry/consulting
- Academia/research

**Nominations are solicited from the AWG membership at large**

Professional excellence is broadly defined and may include:

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

Nominees need not be members of AWG. Non-member awardees will receive an honorary one-year membership with their award. Award recognition will be made at the GSA Annual Meeting, as well as in GAEA and AWG E-News.

**2020 nomination deadline is June 15, 2020. To nominate, please submit the following items as electronic files (pdf preferred):**

- Send a one- or two-page letter summarizing the nominee's most important accomplishments in professional areas that demonstrate multidisciplinary geologic accomplishments within her realm of expertise
- The nominee's CV
- Two letters of support, which can be from non-members of AWG, with a maximum of five letters
- Specify which of the three awards (see categories above) is being nominated

The nomination files can be e-mailed to: office@awg.org or mailed to:

ATTN: Professional Excellence Awards
Association for Women Geoscientists
1333 W. 120th Avenue, Suite 211
Westminster, CO 80234
Thornton, Colorado 80241
The AWG Brunton Award promotes the future of field mapping and data acquisition for the upcoming generation of women geoscientists. The award will go to a female geoscience student at the senior level or in her early graduate studies who has been a summer intern, excelled at field camp, or performed field data collection that leads to a senior or graduate thesis. The award is funded by Brunton.

**Awardees receive...**

An engraved Brunton compass and a one-year AWG membership

**Requirements**

- Performed field work as an essential component of a senior thesis, summer Internship, field camp, graduate thesis or other type of field project

- Have future plans to continue in the geosciences, with fieldwork as an integral part of graduate degree or career

- Promote the fundamental value and need for field-based studies within the geoscience profession through project results, quality of work, and capabilities of applicant

**Application**

- Personal statement, including explanation of past and current field work experience (≤500 words)
- Statement of future career goals as related to field work (≤150 words)
- Sample of past or ongoing field work, which may include a report, map, photos, and/or model based on collected data (≤500 words and not to exceed 4 pages including figures)
- Resume, including your physical mailing address (1–2 pages)
- Letter of recommendation from the primary field mentor

Send compiled (single PDF) application via email to office@awg.org. Please note ‘Brunton Award’ in the subject line. Letters of recommendation should be sent by the recommender.

**Selection Committee**

The selection committee consists of AWG members with varied and significant field experience who are committed to promoting field data acquisition methodologies among geoscience students, our future professional geoscientists.

Applications due December 15
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
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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 ge-computation, 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

Continued Page 25
IRIS Ad—Continued from Page 24

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.

AGI would like to share the first exciting installment of our work with IF/THEN®, an initiative of Lyda Hill Philanthropies. Advancing our Earth Science Week 2019 theme "Geoscience Is for Everyone," we are creating and distributing materials to promote the participation of women in STEM. AGI is using the inspirational stories of the leading women geoscientists recently named IF/THEN® Ambassadors to spark geoscience learning. This year’s Earth Science Week Toolkit, for example, included a profile of geoscientist and bestselling author Hope Jahren, which you can view at https://www.earthsciweek.org/ifthen/profiles/jahren/jahren-minibooklet.pdf.

AGI would like to remind you that December 3 is #GivingTuesday, a global day of giving fueled by the power of social media and collaboration. On this #GivingTuesday, we are raising money to support the next generation of outstanding women geoscientists. AGI's Harriet Evelyn Wallace Scholarship grants two $5,000 awards every year to two women who are pursuing advanced degrees in the geosciences. On December 3, you can support future scholars by donating to the Wallace Scholarship Fund https://agi.networkforgood.com/projects/61386.
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:
http://awg.org/membership/core/CreateAccount.aspx
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: ______________________________

For a paper copy of GAEA:
Please add the appropriate postage
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