AWG Winifred Goldring Awardees

This year AWG dispersed over $6000 to support female excellence in paleontology. Four awards were given, split evenly between undergraduate and graduate students. The 2017 AWG Winifred Goldring Award winners are Jenelle Wallace and Caitlin Colleary, and the 2017 AWG Undergraduate Excellence in Paleontology award winners are Maria Reistroffer and Bethany Cobb. You can read more about this year’s award winners below.

We would like to express our sincere gratitude to the Paleontological Society and the AWG Foundation for their incredible support towards these awards. We are very fortunate to get to work alongside such incredible organizations to support the future of women in paleontology. We would also like to express our thanks to the award committee members who have helped shape this new award – your time is valuable, thank you for sharing it! This year we were able to give four awards. If you are interested in learning more about these two great awards, check out www.awg.org/awards. Applications are due April 15th each year.

Jenelle Wallace - AWG Winifred Goldring Award

Ever since I was a young girl, I have been enthralled by ancient life. I used to sit in my driveway for hours in search of fossils amidst the crushed limestone, hoping I would discover a new species. My love for paleontology only grew over the years and I focused my efforts on developing that joy through research. I completed my Bachelor of Arts degree at SUNY Geneseo with a degree in geological sciences and a minor in anthropology. I am currently at the University of Cincinnati pursuing a Master’s degree in geology.

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Greetings AWG members!
It is hard for me to believe that summer is already drawing to a close. It feels like just yesterday I was writing to you to tell you about our preparation for the summer. I hope you have enjoyed your summer, whether it was spent in the field, on vacation with family, or (like me) working hard on summer projects. But here it is; August already, and it is also my last time writing to you as AWG President. This year has gone by so quickly, but we have accomplished so much.

We had an amazing turnout at both major and smaller conventions. GSA, AGU, and AAPG were very successful. AWG’s presence at the smaller GSA regional sections did not go unnoticed either. Thanks to all of our volunteers at these conventions. We could not have done it without you. In addition to our booths at these conventions, we had a very successful town hall at AGU on “Diversity in the Workforce.” There was also an event co-sponsored by AWG which celebrated 100 years of women in Petroleum Geoscience at AAPG. We truly have kindled our relationships with sister organizations like PROWESS, the SEG Women’s Network, and Earth Science Women’s Network. We also have plans to co-sponsor additional events at future conventions, including our first foray into SEG this fall!

We have continued to grow AWG’s membership, which has become apparent through the several new chapters and student chapters established in the last year. We also hope to add at least two more chapters in the coming months. Thanks to the Regional Delegates who have worked with these women in helping them establish these chapters. You are appreciated more than you know!

Speaking of Regional Delegates, the results of the 2017-2018 elections are in. We have made a minor change to the Board of Directors; instead of delegation based on membership numbers, we have decided that each region will get two delegates and one alternate, regardless of membership. This will allow better communication across each region, as well as within the Board.
More from the AWG President
Continued from Page 2

We welcome you to the Executive Committee and Board of Directors:

Past-President: Roxy Frary Bush
President: Katie Kovac
President-Elect: Mackenzie Cremeans*
Treasurer: Bevin Bailey
Secretary: Rachelle Kernen*
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Northeast Delegates: Julie Fosdick*, Erica Jawin*
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Southeast Alternate: Kristen St. John*
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Northcentral Alternate: Rachel Beise*
Southcentral Delegates: Amanda Haddad, Sarah Morton*
Southcentral Alternate: Jinny Sisson
Rocky Mountain Delegates: Ali Severson*
Rocky Mountain Delegates: Amanda Gentry
Rocky Mountain Alternate: Caitlin Mercier*
Pacific Delegates: Karla Tucker, Marcia Knadle*
Pacific Alternate: Anne Fulton*
International Delegates: Amanda Wu, Noelia Carmona*
International Alternate: Shasta Marrero
*newly elected/appointed

Congratulations to everyone! We look forward to working with you all!

We are excited about this next chapter for AWG. I, for one, am deeply grateful for everything that Blair Schneider has done for AWG in the three years that she has been President of the Executive Committee. We are so very lucky that she has elected to stay with AWG a bit longer, serving as Webmaster and AWG’s liaison to the NSF. Thank you so much, Blair.

I would like to thank you all in the AWG community for letting me serve as your President this year, and I look forward to continuing to serve as Past-President in the upcoming year. I may be a bit farther removed than I had originally hoped, however, as my husband and I recently found out we are having a little boy come January. We are very excited about our next chapter.
Roxy Frary Bush
Summer Greetings from the AWG Foundation President
Project Proposals and Project Reporting – It is that time of year again.

I expect that you have been enjoying your summer, including some time outdoors traveling, doing field work, gatherings with family and friends and hopefully seeing some geology. As summer comes to a close the AWG Foundation Board of Directors focuses on the mechanics of managing the projects that the Foundation supports. September-October is the time of year when the AWG Foundation Board reviews project accomplishments from the previous year and funding requirements for the coming year.

As a 501(c)(3) non-profit public benefit corporation, the AWG Foundation funds AWG projects that encourage women to study and to pursue careers in the geosciences. The benefits to women geoscientists are substantial, at all stages of their careers.

Request for Funding – Due September 15, 2017

Do you have an idea for a new AWG project? The AWG Foundation funds projects that support the common goals of AWG and the AWG Foundation. The AWG Board of Directors, including the regional delegates are great resources as you develop and carry out your project. You can also contact the AWG Foundation board at awgf@awg.org if you have any questions.

AWG Chapters can request funds to help support their efforts. The Foundation usually supports the chapters through matching funds, you raise half of the funds and the AWG Foundation will match the dollars you raise. Chapter projects are a great way to engage and support the geoscience community in your area through awards, scholarships, science fairs, etc.
AWGF President’s Letter  Continued from Page 4

Forms may be found at http://awg.org/requestfunding. Each year we require a request for funding for all projects that will be funded for the coming year. If you are currently a project lead you need to submit a proposal for next year, updating the budget and schedule as needed to meet your objectives for the coming year. The AWG Foundation works on a fiscal year beginning on October 1 and ending September 30.

Annual Project Reports -Due September 15, 2017

If you are a project leader then you know that an annual report form must be filed with the AWG Foundation secretary, Emily Browning at awgfsecretary@awg.org. Please provide a detailed summary of how funds were utilized and how this work fulfills the mission of AWG. If an article was published in either GAEA or your chapter newsletter, you can attach a copy. Share with us any pictures or graphics you have of your project: awards ceremonies, geologists at work (esp. in lovely field areas!), students engaged in activities, science fair projects, etc. One of my favorite parts of working on the AWG Foundation is hearing about all the great projects that the Foundation supports.

Project reporting is an important part of keeping faith with our donors as we document the work of the Foundation.

The AWG Foundation operates on a fiscal year ending September 30. Any requests for reimbursement or disbursement should be submitted to our treasurer Kate Johnson (awgftreasurer@awg.org) before the end of the fiscal year. Funding for all projects will be closed out at the end of the fiscal year (September 30, 2017) unless carryover funds are specifically requested. As project lead, it is your responsibility to contact the Foundation if you need funds past the end of the fiscal year.

Continued Page 13

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Enclosed is my contribution of $_____________

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Or donate online at www.awg.org

DONATE TODAY!
A love affair with horses blossomed alongside this affinity for fossils. I began riding at the age of five and joined the collegiate equestrian team as an undergraduate. Thus, it is the combination of life-past and present-that draws me to paleontology.

Luckily, I have the opportunity to combine my academic and personal interests in my Master’s thesis. I am using the chemical composition of extinct horse teeth to determine their mobility. Specifically, I am investigating the mobility of horses during the early and middle Miocene (19 and 9 million years ago) in what is now northern Florida. During this time, horses reached their peak diversity in response to a changing climate and environment. Multiple species of differing body size and dietary adaptations cohabitated Florida.

To estimate mobility of individuals, I am extracting and analyzing small amounts of strontium isotopes in their tooth enamel. Through eroding bedrock, strontium is taken up by plants and ultimately consumed by herbivores. Herbivores then incorporate this strontium into their tooth enamel. Florida is the ideal study region for this project due to its paleo coastline and bedrock geology. During the Miocene, the coastline of Florida was closer to Northern Florida, which would have restricted horse movement to the north. Although Northern Florida has isotopically homogenous bedrock, areas to the north include bedrock with more geologic complexity. Consequently, horses that were relatively sedentary and only moved locally should have strontium isotope ratios similar to the local bedrock whereas horses that regularly traveled further north should have higher strontium ratios. This is the first study to investigate mammal mobility prior to the Pleistocene and the first to reconstruct ancient horse mobility patterns. Results from my project will considerably advance our knowledge of horse paleoecology during a key period in their evolutionary history and provide a foundation for future work.

After I complete my Master’s degree, I plan on pursuing a PhD in paleontology. I hope to expand my Master’s thesis by quantifying and comparing horse mobility in South America and Europe throughout the Cenozoic Era. Ultimately, my goal is to be a paleontology professor and become involved with community outreach in local schools and amateur paleontological groups. I hope to share my enthusiasm for paleontology and inspire others to explore the mysteries of ancient life.
Caitlin Colleary – AWG Winifred Goldring Award

I am a third year geobiology PhD student in the Geosciences Department at Virginia Polytechnic Institute and State University (Virginia Tech). I have my Bachelor’s degree in anthropology from the University of California, Los Angeles (UCLA). My first time camping was at the archaeology field school in Botswana. During these five weeks, I fell in love with uncovering random bits of bones and piecing together the history of life on Earth. I have my Masters degree from the University of Bristol in the United Kingdom. My Master’s research focused on the preservation and degradation of fossil melanin and interpreting the colors of ancient animals.

Paleontology has always been a way for me to satiate my need for adventure while exploring my curiosity about the natural world and encouraging people to get excited about science. I have traveled to the badlands of Utah, have dug up some of the largest vertebrates to walk on land and discovered some of the earliest dinosaurs in the shadows of the Cerro Pedernal made famous by Georgia O’Keeffe. I spent four months etching away at outcrops revealed by the excavation of the Panama Canal. I have spent countless summer nights exhausted, dehydrated, caked in dirt and plaster, staring at the desert stars and wondering what I might find the next day.

In graduate school I started to explore questions about how the remains of animals could be preserved in the fossil record. My PhD dissertation research is focused on developing analytical techniques to detect and interpret original organic material preserved in vertebrate fossils to understand more about the biology of extinct animals. Specifically, I am studying mammoth fossils to determine how protein preservation varies based on burial environment. Next, I will be taking the methods I have developed to analyze the preservation and degradation of mammoth fossils to detect and interpret protein preservation on much longer timescales.

When I’m not working on my dissertation research, I am an associate producer for the podcast “Palaeocast,” an executive board member of the Virginia Tech Women in Geosciences group, and the leader of a mentoring program undergraduate students. I attempt to garden, and take breaks to read novels, spend time on Instagram (@hypotheceait) and buy yet more records.

Continued Page 8
Maria Reistroffer – Undergraduate Award in Paleontology

My initial interest in studying ancient fauna can be attributed to the white-sanded Venezuelan beaches of my childhood, riddled with delicate mollusks and echinoderms. Though the intricate geometries and patterns of bivalves and gastropods have always captivated my attention, an introductory course in my early undergraduate career piqued my curiosity in the subject of paleontology. Taught by a fiery paleontologist, the History of Plate Tectonics opened my eyes to the thrills of new discoveries as well as the broader implications that can be made on dating techniques, climate, and depositional environments from these ancient remains. Like Charles Lyell, I became keenly aware that the present is a window into the past.

In the realm of paleontology, I have developed a profound interest in coral reef paleoecology and marine paleontology. My undergraduate research involved using marine fossils as proxies of ocean acidification. Working alongside other graduate students in the Martindale Research group enabled me to develop writing, communication, and critical thinking skills essential for a successful future in geosciences. It also exposed me to educational outreach opportunities in my community such as the Hot Science-Cool Talks science fair. At this event, other members in my research group and I created a dinosaur trackway. Students dipped their dinosaur shoes in paint and walked across a roll of paper. We measured stride distance between each footprint to determine what kind of dinosaur each child would be and how fast he or she was moving. Not only is motivating and engaging younger students interested in STEM an enjoyable experience, but it is also essential to our society’s development.

As the secretary of Longhorn AAPG, I was responsible for organizing, advertising, and communicating with other members of the Jackson School about our chapter’s upcoming meetings and events. My involvement in Longhorn AAPG taught me that paleontology is prevalent in industry. I was fascinated to learn from several guest lecturers about the significance of biostratigraphy in exploration geology and how fossils can be used as an approximate dating technique. Within the past two years, I have had the opportunity to help organize and rally community participation for a fundraising picnic where all proceeds went to GeoFORCE; a program committed to exposing high school students to careers in geosciences and STEM fields.

Currently, I study Permian/Triassic fossils from Arctic Norway to identify dissolution and repair scars. The presence of these scars would imply that ocean acidification played a role in the most catastrophic extinction event in Earth’s history. With threats of rising sea-surface temperatures due to increased atmospheric CO2, my research can be used as a rough analog to our planet’s oceanic conditions in upcoming centuries. Although many variables contribute to ocean acidification events, my studies in conjunction with modern conservation efforts can be used to raise awareness and help prevent deteriorating marine environmental conditions. I aspire to inform the general public on the importance of preserving contemporary environments and hope to make a significant contribution in these efforts.
My ultimate goal as a paleontologist is to apply knowledge and evidence from the prehistoric fossil record to present day ecological conservation efforts of our world’s reefs and shallow marine environments. As a graduating senior from The University of Texas at Austin, I plan on pursuing a Master’s degree with a focus on paleontology and carbonate geology. I look forward to working alongside accomplished scientists and gaining field experience to better understand and improve my skills as a growing paleontologist. Furthermore, I aim to apply new methods in mapping and research to unveil mysteries of Earth’s past.

Bethany Cobb - Undergraduate Award in Paleontology

I have always been interested in geology, and I knew that I wanted to be a geologist long before I started college. In Fall 2013, I was finally able to begin my formal pursuit of a geological career as a freshman at the University of South Alabama. To me, the dynamic subfield of paleontology has always held a unique charm.

As a member of the University Honors Program, I was encouraged to start research early. During my sophomore year, I had the honor of being invited to work with our university’s micropaleontologist, Dr. Murlene Clark. That summer, I received a fellowship from South Alabama’s University Committee on Undergraduate Research (UCUR) for our research project on the nannofossil biostratigraphy and depositional analysis of a well in the Alaminos Canyon region of the Gulf of Mexico. For that project, I biostratigraphically zoned the Pleistocene and Pliocene portion of the well using nannofossils, and I related their abundance to the depositional environment. I had the opportunity to present my findings first at the UCUR symposium and later at the Geological Society of America’s regional conference in Baton Rouge, Louisiana.

For my Honors undergraduate thesis, I chose to continue working with Dr. Clark, expanding on my previous work with the Alaminos Canyon well. I am constructing a biostratigraphic correlation across the northern Gulf of Mexico using the nannofossils of the Miocene. For this continuation, I have zoned wells from Alaminos Canyon, Mississippi Canyon, and Mobile Bay. This project is nearing completion, and I plan to defend in late July 2017.

When I have completed my undergraduate degree, I intend to pursue a Ph.D. in geology and continue to work in biostratigraphy. I see paleontology as a powerful tool that is useful in connecting many different aspects of geology. Biostratigraphy is an exciting subfield of paleontology where new discoveries are made every day that have the potential to expand our geological understanding of our planet’s history. In this line of research, I am particularly interested in implementing a large-scale approach, using fossils to connect strata across continents to tell a global story.

In the future, I wish to continue my research career and eventually teach geology at the university level.

Continued Page 14
AWG is pleased to report that Anna Stanczyk, from the University of Alaska Anchorage, and Melanie Gail Bowen, from Texas A&M University, were selected to receive scholarships to support their attendance in field geology camps this past summer.

Anna was born in New Orleans to a geologist and a geophysicist, and grew up outside of Denver, Colorado. Being the child of geoscientists,

“I initially rejected rocks in favor of humanities and earned a degree in French Literature and Business at the University of Colorado, Boulder. Three years ago I gave in to the familial calling and went back to school at the University of Alaska Anchorage to study geology.”

Her field camp covered a variety of topics, but included an emphasis on mapping.

“We mapped multiple areas in the Wasatch Range near Park City, Utah, but also took trips to southeast Utah to a measure section in the Book Cliffs, visited the Snake River Plain by way of Jackson, Wyoming, and toured gold mines in Nevada. I particularly enjoyed the Book Cliffs and plan to return. The decision to attend the Wasatch Uinta Field Camp was one of the best academic decisions I've ever made. We saw some incredible geology, but I especially remember enormous dune casts near Chalk Creek in the Wasatch, gorgeous hummocky-swaley cross stratification in the Book Cliffs, and several impressive landslides including Gros Ventre.”

Having just completed her undergraduate degree, Anna will be continuing on to a Master's program at the University of Utah where she will be studying an ancient landslide deposit in Zion National Park.

Melanie Bowen is a senior geology major at Texas A&M University, College Station, and her field course took place in Utah and Montana. Half of her trip focused on sedimentology, which involved making stratigraphic columns, and the other half focused on geologic structures and geologic mapping.

“Field camp made me get into the mindset of a geologist, and apply everything I learned in the classroom. Given the opportunity, I’d go back to those five weeks I spent camping in a tent because I learned so much more by fieldwork than through textbooks, and grew tremendously as a person. If I could give my ‘pre-camp self’ any advice I would say, ‘pack warmer clothes for Montana and bring an extra grain-size card’!”

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

Continued Page 11
Crawford Awardees

Top Left—Melanie at an outcrop in the Paradox basin (near Canyonlands, Utah)

Bottom right—Anna, describing section on Ankareh Ridge, Wasatch Range.
For many years, I worked very hard to obtain a tenure track faculty position. I was a visiting assistant professor at numerous schools and a runner up for numerous tenure track positions. I turned one offer down because I knew there would be no research, only teaching. I came very close many times, so I kept trying for the elusive position. I loved academia and I loved research and teaching. No one told me that there are those who truly look down upon the visiting professors as “less than,” so it didn’t dawn on me to think less of myself. I loved publishing, teaching, changing lives and meeting many wonderful students.

I accepted a position in California to be near one of my brothers going through chemotherapy and radiation therapy right after losing his wife to pancreatic cancer. I was a lecturer not realizing that the already tremendous teaching workload would become onerous and the hierarchy of faculty would be unacceptable. I began to think that there had to be another type of job where my talent and experience would be of value. I knew I didn’t want to work in the petroleum industry because sedimentary rocks and processes never really interested me. I’m an igneous petrologist and genetic mineralogist with a strong analytical geochemistry background. I thought that companies that evaluated metallic ore deposits could use my talent, experience and skills. While researching such companies, I was recruited to replace a petrographer who had held the same job for 49 years!

It almost broke my heart to leave academia, as I felt my dream was evaporating. Before I decided to take the leap, I read numerous articles on “life after academia” and I realized that changing paths didn’t mean failure. Although it would be hard, I knew I was ready to make a major change in my life. So, I left academia, moved across the country, and started a new job. All my training in geology, particularly mineralogy and petrology, allowed me to become a forensic mineralogist in the research and development analytical group for an advanced refractories company. Among other things, the company makes linings for any corrosive, high-temperature environment.

When the company made me an offer, they said I’d be required to attend workshops and more than one national meeting a year, and that the company would pay for this professional development. I nearly cried with joy. After scrambling for funding to attend meetings to present, and never having funding to do a two-week training course, I was elated. I also have had the opportunity to get involved in hiring and administrative duties. I no longer work 50 to 70 hours a week and I have paid vacations. Though I miss students and the academic life, I love this job and the opportunities it has given me. I am writing this as I sit in a hotel in a “small” town of two million in India. I’m overseeing the commissioning of a new analytical laboratory and analytical equipment. What an opportunity! As has been written before, “There is life after academia.”
Thank You!!

I just want to say Thank You to all of the volunteers that contribute to the success of AWG and the AWG Foundation. A special Thank You to anyone involved in organizing and carrying out the projects supported by the AWG Foundation. You are amazing.

This brings me back to the Association for Women Geoscientists Foundation. There are opportunities either by contributing your money or your time to the mission of the AWG Foundation: to attain equality of opportunity for women in the geosciences and train new leaders by funding high impact programs for women in the geosciences. Although we have made great progress as women geoscientists, we still have work to do to reach equality of opportunity.

And your contributions are what makes this all possible. Please join me in supporting AWG through the Foundation. You can donate to the AWG Foundation online (http://www.awg.org, and select “Donate” from the upper right), or use the form below (our dirty little secret, mailing the form directly to the treasurer puts your money to work faster...)

As always, we thank you for your support of the AWG Foundation. Hope you are having a lovely summer.

Jenny Thompson - AWG Foundation President

AWG Distinguished Lecturer Program

Thanks to ConocoPhillips for their continued support of the AWG Distinguished Lecturer Program. Their recent funding will help continue the program into 2018. Please send all DPL requests to dls@awg.org with a request form found at http://awg.org/distinguishedlecturer. A list of lecturers and topic areas can be found there as well.
Paleontology Awardees
Continued from Page 9

Top Left—Caitlin Colleary
Middle Right—Maria Reistroffer
Bottom Left—Bethany Cobb
AWG Announces a New Step Forward in the Fight against Sexual Harassment in the Sciences

AWG is thrilled to announce a new NSF Advance Partnership grant that has just been awarded to develop sexual harassment bystander intervention training specifically for the geosciences. Blair Schneider, AWG Past-President, will serve as co-PI and represents AWG, alongside Erika Marín-Spiotta (lead PI) from the University of Wisconsin-Madison and the Earth Science Women’s Network (ESWN), Billy Williams (co-PI) of the American Geophysical Union, Allison Mattheis (co-PI) from California State University, Rebecca Barnes (co-PI) from Colorado College and ESWN, Asmeret Berhe (co-PI) from the University of California and ESWN, and Meredith Hastings (co-PI) from Brown University and ESWN. The award is a four-year, $1.1 million grant from the NSF ADVANCE program. This program aims to increase the participation and advancement of women in academic science and engineering careers.

This partnership originally stemmed, and has continued to grow, from the NSF funded workshop “Sexual Harassment in the Sciences: A Call to Respond” that was co-sponsored by AWG in September of 2016. “I knew we had started a real spark of momentum with this workshop, and seeing the progress that is being made through professional societies in regards to developing and implementing effective codes of conduct has been a great result. The collaboration put forth for this proposal represents the next step to putting a stop to sexual harassment in the sciences,” Blair Schneider says.

The first goal of this project is to develop bystander intervention workshops and modules that will help department leaders and faculty learn how to appropriately respond when they witness seeing someone who is being harassed. In addition, the team will work on sexual harassment awareness and prevention training materials that they can be used for teaching ethical conduct related to research. The end goal of this project will be to collaborate with our professional society partners to help disseminate these materials across the nation for implementation and sustainability.
The Association for Women Geoscientists takes pride in announcing Mary Katherine Fidler and Andrea Stevens as the recipients of the 2016 AWG Sand Student Research Presentation Travel Awards. The Sand Student Research Presentation Travel Award is named after Virginia (Ginny) Sand, an award-winning geoscience teacher, strong supporter of AWG, and world traveler. The award provides support for women geoscience students to present their research at the Annual Meeting of the Geological Society of America. There is one competition each year, and the award is given to two students each year. Each awardee receives $500 to help cover expenses associated with the presentation of the awardee’s research. To learn more about the award, go to http://awg.org/images/awards/AWG_Sand_Student_Research_Presen.pdf.

Mary Katherine Fidler At the 2016 Annual Meeting of the Geological Society of America in Denver, Colorado, Mary Kate presented the results of two field seasons of mapping in the Whipple Mountains of southeastern California. Mary Kate is a PhD student at the University of California, Santa Barbara, investigating the magmatic and tectonic history of the lower Colorado River extensional corridor. Her field mapping, in combination with 40Ar/39Ar geochronology and major and trace element geochemistry, provides detailed information on the relation between large-magnitude crustal extension and pre-, syn-, and post-extensional volcanism in the region. Mary Kate mapped the complexly faulted sequence of Miocene volcanic and sedimentary rocks at the 1:4,000 to 1:10,000 scales as part of a U.S. Geological Survey EDMAP project. The mapping project was key to the development of several research questions central to Mary Kate’s dissertation and contributed to her interest in teaching field mapping courses. At the meeting, Mary Kate presented her map in the Best Student Geologic Mapping Competition poster session and had the honor of being awarded third place. In addition to receiving a free book of her choosing, Mary Kate was given the opportunity to publish her map in the student edition of the Journal of Maps. This was Mary Kate’s first experience participating in a poster competition, and she had a great experience, receiving useful feedback from the judges and meeting prominent geoscientists in her field.

Andrea Stevens The 2016 Annual Meeting of the Geological Society of America in Denver, Colorado, occurred during Andrea’s final year as a PhD student at the University of Arizona. The meeting gave her an opportunity to network with potential postdoctoral research advisors, to learn about open faculty positions, and to refine the ideas in the final chapter of her dissertation. Andrea uses a combination of geochronology, thermochronology, and sedimentology to investigate the record of orogenesis in sedimentary basins. She is particularly interested in understanding the Miocene reorganization of sedimentary basins in the Sierras Pampeanas region of Argentina, which overlies the central Andean flat-slab subduction zone. Andrea uses a source-to-sink approach to develop an understanding of the evolution of sediment routing systems and link deformation in basement block uplifts to deposition in sedimentary basins. At the meeting, she gave an oral presentation on her work in the Vinchina basin, which contains an anomalously thick sedimentary section and lies between regions with distinctly different structural styles. Her research addressed long-standing questions about the timing and mechanisms of basin formation. In addition to her faculty advisor, coauthors included an undergraduate student at the Universidad Nacional de San Juan, who Andrea has advised.
AWG Takken Student Research Presentation 2016 Travel Award

The Association for Women Geoscientists takes pride in announcing Imogen Browne as the recipient of the fall 2016 AWG Takken Student Research Presentation Travel Award.

The Takken Student Research Presentation Travel Award is named after Suzanne Takken, a petroleum geologist and avid traveler who advanced women geoscientists through her leadership roles in both AWG and AWGF. The award provides support for women geoscience students to present their research at a national or international professional geoscience meeting other than the Annual Meeting of the Geological Society of America. There are two competitions each year, and the award is given to one student per competition. Each awardee receives $500 to help cover expenses associated with the presentation of the awardee’s research. To learn more about the award, go to [http://awg.org/images/awards/AWG_Takken_Student_Research_Pres.pdf](http://awg.org/images/awards/AWG_Takken_Student_Research_Pres.pdf).

Imogen Browne

Late last summer, Imogen traveled to Utrecht, Netherlands, to present the results of her research on the paleoceanography of the Antarctic Peninsula at the 12th International Conference on Paleoceanography. Imogen is a New Zealand Fulbright Scholar studying at the University of South Florida. She is interested in the influence of ocean temperature on the stability of ice sheets and consequent effects on sea level. Her work in the Antarctic Peninsula addresses environmental change in one of the most climatically sensitive regions in the world. In her presentation, Imogen summarized the results of an analysis of a kasten core from the Palmer Deep with an intact sediment-water interface. The high-resolution record contained within the core provided information on decadal- to centennial-scale changes in ocean temperature that are consistent with regional instrumental temperature and ice core records. Imogen is particularly interested in using the TEX$_86$ paleothermometer, which is based on the ratio of marine archaeal membrane lipids preserved in marine sediments, to reconstruct upper ocean temperatures. The International Conference on Paleoceanography is held only once every three years, and the 12th ICP was Imogen’s first conference as a PhD student. Imogen appreciated the opportunity to interact with many other researchers using the TEX$_86$ proxy, and she looks forward to expanding her research to other high southern latitude locations and to longer timescales.

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Sand and Takken Awardees  continued from page 17

Sand Awardees:
Top left—Mary Katherine Fidler
Center Right—Andrea Stevens
Takken Awardee:
Bottom left—Imogen Browne
On behalf of the National Science Foundation (NSF), we invite you to register as a potential 2018 Graduate Research Fellowship Program (GRFP) panelist. GRFP recognizes and supports outstanding graduate students pursuing research-based masters and doctoral degrees in science or engineering at accredited US institutions. (See the Program Solicitation, NSF 16-588, for more details on GRFP.) NSF seeks GRFP panels composed of researchers and educators from a wide range of institutions, geographic locations, and disciplinary and interdisciplinary backgrounds.

Serving as a GRFP panelist is an excellent opportunity to apply your research and career expertise to help identify future science and engineering leaders, and to gain valuable perspective to share with faculty and students at your institution. Panelists will also receive a flat rate payment of $200 per day for each full four-hour virtual panel session they attend. However, panelists who are Federal employees, citizens of foreign countries who are not permanent residents, and special visa holders are not entitled to the flat rate payment.

Below are details of the 2018 panels:

- All reviews and panels will be conducted online without travel requirements. There will be no on-site participation for the GRFP panels; the panels are completely virtual.
- In November, panelists must attend an orientation session webinar, selecting one from several available sessions. This is required for both new and returning panelists, as orienting information is subject to change.
- Panelists review graduate school-like applications that include one three-page statement, one two-page statement, transcripts, and three reference letters.
- Each panelist will review approximately 30 assigned applications in early December, over the course of about four weeks.
- Panelists will enter their reviews and ratings online.
- In January 2018, panels will convene online using WebEx for two virtual panel sessions scheduled on two different days (either Monday and Thursday, or Tuesday and Friday) to discuss the applicant pool and make selection recommendations to NSF.

If you would like to be considered as a 2018 GRFP panelist, please visit https://nsfgrfp.org/panelists to register in the panelist system. If you have not been a GRFP panelist, you may create a new profile by clicking “Create an account.” If you have been a GRFP panelist, please log in with your email address and password, and update your profile. Registering in the panelist system or creating a profile does not commit you to serving as a GRFP panelist. Based on anticipated needs, NSF will send formal invitations to registered panelists starting in late September.

See https://www.nsfgrfp.org/panelist_info for additional panelist information.
NOTE: If you have a student applying for the 2018 GRFP program or you intend to write a letter of recommendation for an applicant in a particular field of study, we request that you do not register to be a panelist in that field due to a conflict of interest. Since GRFP applicants are early in their scientific training and are still developing their interests, most panelists are qualified to review in a range of fields. If you register in a particular field and subsequently learn of a conflict of interest, please inform us so we can remove your name from the list of potential panelists or attempt to place you on a different panel.

Please share this opportunity to review GRFP applications with your colleagues.

We thank you in advance for your interest. If you have any questions, please contact the GRFP Operations Center at panelists@nsfgrfp.org or (866) 673-4737.

Sincerely,

Susan Brennan, Ty Mitchell, and Gisele Muller-Parker
Program Directors
National Science Foundation Graduate Research Fellowship Program

AWG Chapters

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

U.S. CHAPTERS: Pacific region—Pacific Northwest, Sierra, San Francisco Bay Area, LA /Orange County, CSUN Northridge*, Lona Lina University*

Rocky Mountain Region—Montana, Salt Lake, Laramide, North Dakota, Red Rock*

North Central—Minnesota, Cornhuskers, Great Lakes

South Central—Osage, Oklahoma City, Lonestar, Ozarks HAWGS, Cowgirls*, Ragin’ Cajuns*

Northeastern—New England, Penn State University*

Southeaster—Southeastern Bluegrass, Florida, William and Mary*, UT–Martin*

INTERNATIONAL CHAPTERS: Calgary, Patagonia, Dalhousie*, Mongolia, Southeast Asia

* indicates a student chapter

Click here for chapter resources!
The Association for Women Geoscientists has long sought and worked toward greater access for women to the geosciences. In the current social climate, the board of delegates decided to draft and adopt a Code of Conduct. As a professional organization, our goals are to encourage participation of women in the geosciences, enhance professional growth and advance of women in the geosciences, and exchange educational, technical, and professional information. To do this effectively, the professional spaces in which we work must not tolerate harassment or discrimination, in any form. The Code of Conduct, which can be accessed on the AWG website (under the “About” tab), includes definitions of and ramifications for harassment and discrimination within the organization. The policies and procedures outline the reporting process, should a violation of the Code of Conduct occur, as well as the investigative and disciplinary procedures. As an executive committee, we hope to foster equality for all members.

AWG Corporate Membership option available for $500.

Corporate Members Receive:
- Recognition of your corporate membership on the AWG website, at AWG's professional meetings or exhibits, and in AWG publications, to showcase your support for women geoscientists.
- Corporate logo and active weblink on the AWG home page.
- An electronic subscription to Gaea, the Association's quarterly newsletter, the bi-weekly E-mail News, and any available chapter newsletters with chapter affiliation.
- Free access to the Association's membership directory.
- Advertising rates are 20% lower than standard rates (Price varies based on size of ad. See AWG website for details.)
Plan now to join us for the 2018 AWG Field Trip to Classic Geosites in England
(and a bit of Wales)!

**Week 1: The Welsh Borderland**
June 29-July 6, 2018

**Week 2: Southwest England**
July 7-14, 2018

Led by Chris Darmon and Colin Schofield, GeoSupplies, Ltd.

- Explore an area of rolling hills where early geologists Murchison, Sedgwick and Lapworth defined early Paleozoic stratigraphy.
- See diverse geology, including fossiliferous sediments, volcanics and intrusives, as well as large faults, former island arcs and a back-arc basin.
- Spend a day exploring one of two quaint medieval towns (Ludlow or Shrewsbury).
- Explore exposures of Devonian and Carboniferous rocks affected by the Variscan orogeny, as well as the Permo-Triassic rocks of South Devon.
- See exposures of fossiliferous Jurassic sediments in Somerset and Dorset that have been folded and faulted by the Alpine orogeny.
- Visit the Jurassic Coast Geopark in Dorset, including some of Mary Anning’s collecting sites near Lyme Regis.

Please email Marcia Knadle at MarciaAWG@aol.com if you are interested in this exciting adventure. Because of currency fluctuations, the member price will be tentative until February 2018 but is expected to be around $1600* for each week with a minimum of 13 and maximum of 15 participants. A 25% deposit is due by September 30, 2017. One may register for just one of the two weeks, but preference will be given to those who wish to attend both weeks. Additional information, including trip brochures, will be available online at www.awg.org/fieldtrips by May 15, 2017. Registration will open in early June.

Precambrian sediments and volcanics around Church Stretton.  “Jurassic Coast” sediments.

* Price includes 7 nights double-occupancy lodging for each week plus the connecting night for those attending both weeks; a limited number of single rooms will be available at most lodgings at an additional price. The price also includes nearly all meals during the tours, and all transportation during and between the 2 tours if attending both weeks. The price does NOT include airfare to England or travel within England to or from our 2 base towns, Ludlow and Taunton. A limited number of student member discounts will be available.
AWG Brunton Award

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.

General Information
- The award is an engraved Brunton Geo Transit
- A one-year membership is sponsored by AWG
- Application Deadline: November 15th

Requirements:
- Performed field work as an essential component of a senior thesis, summer internship, field camp, graduate thesis or other types of field projects
- 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:
- Cover letter
- Description of research project, internship, field camp experience, or summer field experience including a sample of work, which may include a report, map, photos, and/or model based on collected data (not to exceed 4 pages).
- Statement of future interests and career goals as related to field work and/or resume
- Letter of recommendation from the primary field mentor

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.

Send application via email to office@awg.org Please note ‘Brunton Award’ in the subject line

The AWG Brunton Award promotes the future of field mapping and data acquisition for the upcoming generation of women geoscientists. The award is funded by BRUNTON.
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:_______________________________

Please mail or fax application to:
Association for Women Geoscientists
12000 North Washington Street, Suite 285
Thornton, Colorado 80241
FAX: 303-253-9220

Dues (new reduced membership costs):
Life Member: ..............................................$1500
Sustaining Professional: ....................................$60
Professional: ...............................................$30
Retired: ....................................................$15
Student (valid student ID required)..............$15
International Rates: $30 P $15 S
International Reduced: $10 P $5 S
Institutional: ..............................................$200
Corporate: ...............................................$500

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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!