Message to our Members

The past few years have been challenging to all but the AIPG Arizona Section is reorganizing and making plans for 2023 with field trips and other in-person functions. We have had contact with other AIPG sections and AIPG headquarters. We look forward to a variety of activities and information for our members. We are looking forward to seeing each other again and having an opportunity to visit interesting geologic sites and learn more about the geology of the southwest. Several of the field trips will be with other geologic organizations. These field trips and meetings should be a good opportunity for networking. More details will be sent via email as plans develop.

Also, as a reminder, AIPG is celebrating its 60th anniversary at the annual meeting in Covington, Kentucky, September 16 – 19, 2023. The organizing committee has been diligently working to plan a memorable annual meeting. Dawn Garcia, of Tucson, is the 2023 national AIPG President. Dawn has been an active member of the AZ Section and national AIPG for many years. Various members of the Arizona Section have served on the national executive board for decades. We send well wishes to Dawn for a successful year as AIPG President. Be sure to check the AIPG web site for information.

The list of Arizona Section officers and various committee heads and advisors with contact information is provided in this newsletter. We welcome suggestions and your input to have meaningful information and activities for our members. And, we want to provide opportunities for our members to become more involved with leadership in the section. Please contact us if you have field trip or meeting suggestions and if you would like to be more involved.

AIPG Arizona Section – Notes of Interest from Members List

The Arizona Section (as of February 28, 2023) has 157 members. There are 102 Certified Professional Geologists (CPGs). The lowest CPG member number is 2053 (meaning that member joined early in the history of AIPG). There are 31 Professional Members, 17 Student Members (8 at Northern Arizona University, 4 at Arizona State University, 4 at University of Arizona, and 1 at California State University-Fullerton), 3 Early Career Professionals, and 3 Associate Members.
The fields of practice range widely with main focuses on environmental, mining, water resources, geochemistry, geophysics, and geotechnical engineering work. Our members serve in federal, state, and local agencies, for federal and state geological surveys, work in consulting with small to large companies or independently, work for mining companies, water providers, as mineralogists/gemologists, and in academia. So, we have a lot of members with amazing experiences to share.

Treasurer’s Report - Bill Greenslade

Bank Account Statement as of January 31, 2023
Checking: $11,127.38
Savings: $10,006.65
Total: $21,134.03

The Arizona Section has made a donation of $1,000.00 in support of the 60th anniversary of the AIPG. Therefore, the current balance as of March 2023 is $20,134.00.

Dinner Gathering in Tucson with AIPG National Board

Several members of the Arizona Section joined with the AIPG Executive Board at its business meeting in Tucson on February 4, 2023. After the business meeting, and a chance to visit some of the gem and mineral show displays, the group met for a festive Mexican dinner at El Charro Cafe in the historic district of Tucson. It was a fun evening. Thank you to AIPG President Dawn Garcia for making the arrangements.
Mark Your Calendars!

Copper Flats Field Trip and
Very Large Array at National Radio Astronomy Observatory Tour
Truth or Consequences, New Mexico
June 9 – 11, 2023

This is a cooperative field trip with AZ section, NM section, and national AIPG all participating. The field trip will meet at Truth or Consequences, NM on Friday evening, June 9th. A hotel room block is being set up at the Comfort Inn. Plans are to tour Copper Flats on Saturday, June 10th. In the Copper Flats Area, one can see exposed veinlets that host pyrite + chalcopyrite + molybdenite – and their oxidation products, including very beautiful deep blue ilsemmanite, a soluble molybdate \([\text{Mo}_3\text{O}_8\text{H}_2\text{O}]\) and characteristic of very low pH weathering. We will be able to observe different rock types and structures, especially various veinlet types; contacts between rock units, Copper Flat ore host rocks and late, cross-cutting dikes of the Copper Flats System. Dinner on Saturday evening is arranged for the group to be at Los Arcos restaurant in Truth or Consequences. On Sunday, June 11th, a visit is planned at 10 am to the National Radio Astronomy Observatory, Very Large Array near Socorro. There is a $5 admission charge per person, including group leaders, to the VLA.

Please note, if planning to attend this field trip, you will need to respond to the announcement.

More details soon so please watch for more information via email.

AIPG National Annual Meeting
September 16 – 19, 2023

We hope to see you at the national annual meeting for the AIPG 60th anniversary. Registration is now open. Take a look at the field trips and other events planned for this national annual meeting.
Dawn Garcia Receives SME Presidential Citation

The Society for Mining, Metallurgy & Exploration (SME) president Ronald Parratt (CPG-07616) has recognized Dawn Garcia (CPG-08313) for “her persistence and enthusiasm that were instrumental in establishing a memorandum of understanding between SME and the American Institute of Professional Geologists (AIPG). This agreement establishes a collaborative relationship for programming economic and exploration geology at SME’s MINEXCHANGE annual meetings and at the AIPG annual meetings. Garcia’s enthusiasm and leadership were critical in bringing this partnership to fruition.” Dawn received the SME Presidential Citation during the SME Annual Conference in February 2023. Dawn approached SME with the proposition of collaboration and worked with AIPG and SME while she was president-elect to formalize the agreement and to organize a technical session for the 2023 SME Annual Conference, which she will co-chair with Deanna Wolfe (MEM-3086).

Dawn is a hydrogeologist and licensed professional geologist with more than 35 years of experience. She has worked in characterization, remediation and reclamation projects, and public disclosure reporting. She has visited hundreds of mineral development projects and mining operations.

She has a long history of service to the profession of geology and the mining industry. She has been an invited speakers at workshops, has been a presenter of technical papers at numerous technical conferences, and has taught a short course on mine closure at the University of Guanajuato (Mexico).

She has served as the geologist member of the Arizona Board of Technical Registration by appointment of the governor. She received the Martin Van Couvering Memorial Service to the Institute Award from AIPG in 2021 for distinguished service to the profession of geology. She current serves as 2023 president of AIPG. She served on the SME Arizona Conference executive board for over a decade.

Marvin Glotfelty and CNN Article on Water Supply

AIPG AZ Section member, Marvin Glotfelty, Clear Creek Associates, was recently quoted in an article published by CNN online entitled “Wells are running dry in drought-weary Southwest as foreign-owned farms guzzle water to feed cattle overseas” and authored by Ella Nilsen, CNN on November 5, 2022.

Arizona geohydrologist and well-drilling expert, Marvin Glotfelty, was asked about groundwater supply and water law in Arizona. “You can’t take water and export it out of the state, there’s laws about that,” said Glotfelty. “But you can take ‘virtual’ water and export it; alfalfa, cotton, electricity or anything created in part from the use of water.” Marvin Glotfelty is recognized as one of the leading experts in the country on water well design and construction technology.
Doug Bartlett to Present AIPG Lunch & Earn Webinar: 
Groundwater Issues Encountered in Mining Projects

Douglas Bartlett, CPG, RG, CHG, will be presenting at the American Institute of Professional Geologists (AIPG) Lunch & Earn webinar on March 28, 2023, on the topic of Groundwater Issues Encountered in Mining Projects. The AIPG Lunch and Earn Webinar Series is designed to provide continuing education opportunities. This webinar will describe key groundwater issues encountered at mining projects during development and operational phases of mining. Foremost is the need to have an adequate water supply for the life of a mine. Without a secure water supply, mineral assets have no value. In the Southwest U.S., surface water resources are scarce; therefore, mining companies routinely rely on local groundwater resources to provide an adequate water supply for a project. Defining the hydrogeologic setting of a potential mine should begin at the exploration phase of a mining project. Opportunities for taking advantage of field work to define the local hydrogeology in the early stages of a mining project will be presented.

Production wells for mining properties are often located in bedrock settings. Exploring for bedrock aquifers requires a good understanding of the local geology and can incorporate mineral exploration tools such as surface geophysics, detailed geologic mapping, and remotely sensed data. Finally, once a production well field has been established, operation of bedrock production wells can be challenging due to their inherent inefficiency as compared to sedimentary basin fill production wells. Analysis of empirical data from operations can be used to assist operators in understanding how to balance pumping rates and duty cycles to extend the life of bedrock wells.

AIPG 2022 Arizona Section Members Milestones 
Congratulations!

52 Years 
Arthur W. Tipton, CPG Emeritus Member

45 Years 
William J. Daffron, CPG Member 
Donald E. Ross, CPG Emeritus Member

40 Years 
Rodney A. Blakestad, CPG Member

35 Years 
David M. Brown, CPG Member 
Peter H. Dohms, CPG Emeritus Member 
Gregory A. Hahn, CPG Member 
Robert M. North, CPG Member

30 Years 
Kathleen C. Franks, CPG Emeritus Member 
Dawn H. Garcia, CPG Member
25 Years
Thomas B. Condit, CPG Member
Rick D. Smith, CPG Member

20 Years
Charles A. Brannon, CPG Member
Ryan D. Dunning, Professional Member

15 Years
Barbara H. Carroll, CPG Member
Scott W. Parks, CPG Member
David E. Peterson, Professional Member
Paul Q. Warren, CPG Member

10 Years
Linda S. Lassiter, Student Member
Keith Scoular, Associate Member
William C. Vanderwall, CPG Emeritus Member

5 Years
Schuyler R. Borges, Student Member
Helen A. Eifert, Student Member
Allison M. McGraw, Student Member

Building the Future of Geology - Support the Foundation of the AIPG

The Foundation of the AIPG supports a variety of programs including student scholarships, student and young professional workshops, educational programs aimed at practitioners, the public, and policy makers, and some special needs requested by AIPG or other professional organizations. I am excited to begin my tenure as Chairperson of the Foundation. Barbara Murphy has led the effort to reorganize and reestablish the Foundation for the past 6 years. Her efforts have put the Foundation on solid financial footing and positioned us for further growth. The Foundation is proud to be able to serve AIPG and the geosciences by providing financial support for these programs. Every donation helps the Foundation to contribute toward building the future of geology. If you have any questions or comments about the Foundation, please contact me or any of the other Trustees of the Foundation for additional details and check the AIPG website for more information about the Foundation. Your continued support is greatly appreciated. Thank you.

Michael D. Lawless, CPG, PG
Chairperson, Foundation of the AIPG
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