



Arizona Geological Society Newsletter

NOVEMBER 2018

NOVEMBER 6th, 2018 DINNER MEETING

Who: **William Wilkinson** is the featured speaker. See abstract below.

Where: Sheraton Tucson Hotel and Suites, 5151 East Grant Road, (at the intersection of Grant and Rosemont on the North side of Grant in the **SABINO BALLROOM** (enter at northwest corner of the building) and go upstairs to the meeting room.

When: Cash Bar at 6 p.m.—Dinner at 7 p.m.—Talk at 8 p.m.

Cost: Members \$30, Guests \$33, Students Members free with online reservation (\$10 without).

RESERVATIONS ARE REQUIRED: Reserve on the AGS website (<http://www.arizonageologicalsoc.org/events>) by **11 am on Friday, November 2nd**. Please indicate Regular (Roasted Turkey Breast with Orange Cranberry Sauce), Vegetarian (Polenta), or Salad (Chicken Caesar Salad) meal preference. Please cancel by **Friday, November 2nd at 11 am** if you are unable to attend - no shows and late cancellations will be invoiced.

The November dinner meeting is sponsored by



If you are interested in sponsoring a dinner meeting, please email:
vpmarketing@arizonageologicalsoc.org

ABSTRACT

**The Good, The Bad and The Ugly: Three Decades of Exploration
by William Wilkinson, Retired Freeport-McMoRan, Inc.**

Listen to the personal successes and "failures" of William Wilkinson's career as an exploration geologist and why they occurred.

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ABOUT THE SPEAKER

Wilkinson H. Wilkinson retired as Vice President Exploration, Africa, for Freeport-McMoRan Inc. in Phoenix, AZ in November 2015. He was responsible for project direction, reconnaissance and acquisitions throughout the continent which has led to a major discovery. He has nearly 37 years of experience in mineral exploration and has worked in base and precious metal exploration in 25 countries on five continents. Will has worked in the southwestern United States for Anaconda, Duval Corporation, Westmont Mining and Phelps Dodge prior to Freeport.

Will received his B.S. and M.S. degrees in geology from the New Mexico Institute of Mining and Technology, with a three-year break for service in the U.S. Army. He received his Ph.D. degree in geosciences in 1981 from the University of Arizona. Will was the 2009 President of the Society for Mining, Metallurgy and Exploration (SME), is a Distinguished Member of SME, a charter Registered Member of SME and an Honorary member of AIME. He is a Certified Professional Geologist of the American Institute of Professional Geologists and is a member of the Society of Economic Geologists, Mining Foundation of the Southwest (Board of Governors), Mining and Metallurgical Society of America, and the Arizona Geological Society. He has been an avid mineral collector since the fourth grade, which provided the impetus to study geology and explore for new mineral deposits.

Copper Triangle



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MEMBER ANNOUNCEMENTS



Above: Ihor A. Kunasz presents the geology and economics of Lithium at the October 2nd dinner meeting. The meeting was graciously sponsored by National Drilling.

Total Membership	Professional Members	Student Members	Organizational Members
393	340	53	7

Arizona Geological Society Membership Stats (10/23/2018)

ARIZONA GEOLOGICAL SOCIETY SCHOLARSHIPS

2018

[J. Harold Courtright Scholarship](#)

Harold Courtright, former chief geologist with ASARCO, was a pre-eminent exploration geologist instrumental in the early development of well-known porphyry copper deposits such as Silver Bell, Arizona and Toquepala, Peru. The Courtright Scholarship was initiated upon his death in 1986 to encourage geologic field work in the North and South American Cordillera, which is where Courtright himself worked.

Who is eligible to apply?

Graduate students working towards a degree in the geological sciences at Arizona State University, Northern Arizona University, or University of Arizona are eligible to apply. Students should be working on a field-related project in the North or South American Cordillera. Preference will be given to proposals related to economic geology and the study of ore deposits, but proposals related to structural geology, petrology, geochemistry, geochronology, tectonics, and geophysics will be fully considered. Most important are the scientific significance of the proposed research, the tractability of the problem addressed, and the applicability of the research methodology to the problem at hand. United States citizenship is not a requirement.

What will the scholarship cover?

This scholarship grant is intended to assist students with thesis-related expenses, including travel, field equipment, mapping and sample collection supplies, shipping, field-sample costs for petrographic-mineralogical slides and laboratory analyses, and other relevant expenses such as data reduction and thesis preparation. A maximum of \$3,000 per applicant will be awarded based on project merit and project budget requirements.

How do I apply?

Applications are available on the web at 2018 Student Scholarship Info. Submit the completed application form, a one-page description of your field project including a budget proposal, and a letter of support from your research advisor to the Arizona Geological Society by Friday, October 26, 2018. Scholarships will be awarded at the December dinner meeting, to be held December 4, 2018 in Tucson.

Please submit your completed application no later than October 26, 2018 to: Chairperson, Scholarship Committee Arizona Geological Society P.O. Box 40952 Tucson, AZ 85717

Or send to rpowell@usgs.gov

[M. Lee Allison Scholarship](#)

The Arizona Geological Society established the Arizona Geological Society Scholarship in 2013 to recognize a deserving graduate or undergraduate student at a university in Arizona. In August 2016, this scholarship was renamed the M. Lee Allison Scholarship in recognition of Lee's academic, research, and leadership accomplishments and of his remarkable community involvement at local, state, and national levels.

The successful applicant will be an individual who shows a balance among areas of academic achievement and participation in research. Leadership ability, as demonstrated within the community or in the academic/research setting will be a consideration.

Who is eligible to apply?

Graduate and undergraduate students who are involved in research in any geoscience discipline and who are working towards a degree in the geological sciences at Arizona State University, Northern Arizona University, or University of Arizona are eligible to apply. United States citizenship is not a requirement.

What will the scholarship cover?

This scholarship is intended to assist students with academic expenses, including, but not limited to: tuition, travel, research and field expenses. A maximum of \$3,000 per applicant will be awarded.

How do I apply?

Applications are available on the web at 2018 Student Scholarship Info. Submit the completed application form and two letters of support to the Arizona Geological Society by Friday, October 26, 2018. Scholarships will be awarded at the December dinner meeting, to be held December 4, 2018 in Tucson.

Please submit your completed application no later than October 26, 2018 to: Chairperson, Scholarship Committee Arizona Geological Society P.O. Box 40952 Tucson, AZ 85717

Or send to rpowell@usgs.gov

The Arizona Geological Society membership voted to approve the following slate of officers for the 2019 Executive Committee both online and at the October dinner meeting on October 2nd, 2018:

2019 Slate for the AGS Executive Committee

President - Sarah Baxter - U. S. Forest Service

Vice President, Programs - Karen Wenrich, Consultant and Crystals Ltd.

Vice President, Field Trips - Wolf Schuh, Freeport-McMoRan, Inc.

Vice President, Marketing - Vacant

Secretary - Leandra Marshall, Turner Laboratories, Inc.

Vice Secretary - Colin Campbell, Student, U of A

Treasurer - Mike Conway, Arizona Geological Society

Vice Treasurer - Vacant

Past President - Marisa Lerew, Asarco LLC

Councilors (2017-2019) - Dan Aiken, Freeport-McMoRan, Inc. - Retired

Ray Irwin, Consulting Geologist

Councilors (2018-2020) - William Whitty, Freeport-McMoRan, Inc.

Jennifer Isbell, Student, University of Arizona

Councilors (2019-2021) - Matthew Wetzel, Freeport-McMoRan, Inc.

Carson Richardson, Arizona Geological Survey

The Arizona Geological Society membership also voted to approve the following Motions of Significance from 2017-2018 both online and at the October dinner meeting on October 2nd, 2018:

September 2017-August 2018

The following significant motions were passed by the AGS Executive Committee from September 2017 through August 2018. Each of these motions was seconded and discussed by the Executive Committee before voting.

- David Briggs moved that we appoint Bob Cummings as a counselor for the rest of this year, and next year to fill Sarah Baxter's slot. Rachel Feuerbach seconded the motion. **Motion passed.**
- Mike Conway moved that we increase dues to \$35 per year effective immediately, with no tiered dues structure. Alison Jones seconded the motion. **Motion passed.**
- Stan Evans moved to remove mention of publications on website because we do not have ability to administer sales. Alison Jones seconded the motion. **Motion passed.**
- Alison Jones moved we require advance on-line payment for dinner reservations at our monthly dinner meetings, effective January 2018. Stan Evans seconded the motion. **Motion passed.**
 - Alison Jones moved to grant permission for the AZGS to re-publish papers authored by Phil Anderson in AGS Digest 17. Dan Aiken seconded the motion. **Motion passed.**
- Dan Aiken moved change AGS By-Laws clause pertaining to 50 Year Members from "members in good standing who have maintained continuous membership for a minimum of 50 years shall have the privileges of a full member of the Society and will be excused from further payment of dues" to "members in good standing who have maintained membership for a minimum of 50 years shall have the privileges of a full member of the Society and will be excused from further payment of dues." Marisa Lerew seconded the motion. **Motion passed.**
- Motions were made for Jennifer Isbell to fill one of the vacant counselor positions and for Mike Conway to take over Treasurer position vacated by Steve Eady. **Motion passed.**
 - Marisa Lerew moved that we appoint Ray Irwin as a counselor. Dave Briggs seconded the motion. **Motion passed.**

CALL FOR VOLUNTEERS to form STAFF-STEERING COMMITTEES for Geological Society of America 2019 Conference

In Sept. 2019, the Geological Society of America (GSA) brings its annual conference to Phoenix. This is a once in a generation opportunity for AGS to perform on a national platform; GSA's annual conference was last convened in Phoenix in the mid-1980s. The AGS Executive Committee is strategizing a role for AGS at the fall 2019 meeting. AGS involvement is consistent with the role and responsibilities laid out on our website - The Arizona Geological Society promotes and encourages interest in the science of geology ... A subset of Executive Committee members met Thurs., 5 Oct., and identified four areas for AGS involvement. Our next step is to form sub-committees to address those areas, and we sorely need the active involvement of AGS members. The AGS Executive Committee simply cannot carry this off without member support.

Field Trip(s): 2019 AGS VP of Field Trips, Wolf Schuh, will direct this committee which is charged with identifying and organizing one or more field trips as part of the GSA Field Trip program. Arizona State Geologist and AGS member Phil Pearthree chairs the GSA Field Trip effort.

Technical Session(s): This committee is charged with planning one or more technical sessions showcasing the geology, economic geology, and/or tectonic setting of Arizona. ASU geoscientist and AGS member Steve Semken is chairing the GSA program and we are confident he will enthusiastically support AGS efforts here.

* If you have ideas for the topic for a technical session, please send us a note with description.

State Geological Societies ice breaker: 2019 AGS Treasurer Mike Conway will direct a committee to explore organizing and promoting an evening ice breaker/ ad hoc discussion for the officers and members of geological societies to informally address the role and challenges of geological societies going forward.

AGS booth on the Exhibit floor: This committee would explore the cost and efficacy of co-hosting an exhibit booth with our colleagues from the Utah, Nevada, and New Mexico geological societies.

There may be other areas of involvement for AGS. We welcome your ideas and your input.

Next Steps:

The clock is ticking on submitting field trips and technical sessions. We need AGS members to step forward and staff these subcommittees posthaste. This is the time for AGS members to step forward on behalf of Arizona's Earth science community to showcase Arizona's magnificent geology. Your support of Arizona's geoscience community is crucial, so please contact one of the following at your earliest convenience.

Please let us know if you have questions or concerns.

Respectfully,

Mike Conway (fmconway@email.arizona.edu<mailto:fmconway@email.arizona.edu>); Karen Wenrich (crystalsul@aol.com<mailto:crystalsul@aol.com>); Leandra Marshall (leaxsmars@gmail.com<mailto:leaxsmars@gmail.com>)



Geoheritage Tour of Southern Arizona by the Arizona Geological Survey

Geotourism in the desert Southwest is powered by the intrinsic quality and accessibility of geoheritage sites or features. According to the Geological Society of America, “Geoheritage” applies to sites or areas of geologic features with ‘significant scientific, educational, cultural, and/or aesthetic value.’ This certainly includes a multitude of geologic features and landforms encountered in southern Arizona and northern Sonora, Mexico.

Identifying and preserving geoheritage sites serves the public good. Such sites are critical to furthering geoscience research and to informing the public regarding the inherent value of the landscapes and rockscapes that make the Southwestern U.S. a mecca for tourism.

AZGS’s new interactive Geoheritage Tour of Southern Arizona showcases a handful of the spectacular geologic feature within easy driving distance of downtown Tucson. Geologic features and related sites – museums and mining communities - are organized under three tabs:

- Within 15-mile radius of Tucson
- From 15- to 75-mile radius
- From 75- to 200-mile radius.

In each area, the AZGS spotlights and briefly describes 12 geologic features or sites, for a total of 36 geoheritage sites within a 200-mile radius of Tucson. Each geoheritage entry is accompanied by one or more online geologic resource(s), e.g., geologic map, report, or website.

Visit the AZGS's interactive Geoheritage Tour of Southern Arizona website here:

<https://uagis.maps.arcgis.com/apps/Shortlist/index.html?appid=96174d76cec446a9bfef592caa06c8c0>

The original blog post regarding the Geoheritage Tour is located here:

<http://blog.azgs.arizona.edu/blog/2018-09/geoheritage-tour-southern-arizona>

Please contact the AGS Secretary if your company is interested in advertising in this monthly newsletter.

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Arizona Geological Society is grateful to Freeport-McMoRan, Inc. for their generous support of our student members!

Freeport-McMoRan sponsored student dinners for the 2018 AGS monthly meetings.



AGS MEMBERSHIP APPLICATION OR RENEWAL FORM

YOU CAN RENEW OR SIGN UP as a new member and pay online. Please go to our website, arizonageologicalsociety.org. Or use the form below if you are more comfortable with the old school approach.

Please mail check with membership form to: Arizona Geological Society, PO Box 40952, Tucson, AZ 85717

Dues (check box) 1 year: \$35; full-time student (membership is free)

NEW MEMBER or RENEWAL? (circle one) Date of submittal _____

Name: _____ Position: _____

Company: _____

Mailing Address: _____

Street: _____ City: _____ State: _____ Zip Code: _____

Work Phone: _____ Home Phone: _____

Fax Number: _____ Cellular Phone: _____

E-mail: _____ Check this box if you do not have an email address

All newsletters will be sent by email. If you do not have an email address, we will mail a hard copy to you, but we cannot guarantee timeliness.

If registered geologist/engineer, indicate registration number and State: _____

Enclosed is a _____ tax-deductible contribution to the J. Harold Courtright or the M. Lee Allison Scholarship Funds.