



Arizona Geological Society Newsletter

OCTOBER 2020

Society Announcements

AGS members,

The Tempe branch of the Association of Environmental & Engineering Geologists is sponsoring a Zoom presentation on a recent study of landslides and landslide hazards along I-17 between Black Canyon City and Flagstaff, Arizona. AGS members have been invite to Zoom in on this Arizona-centric talk. We look forward to seeing everyone there!

Respectfully,

AGS Executive Committee



Presenters: AZGS' Joe Cook and Brian Gootee

Day|Time: **21 Oct. | 4-6 pm (MST)**

Zoom Details: **TBA via Email** (as the date nears)

If you are interested in sponsoring future AGS virtual meetings, please contact:

info@arizonageologicalsoc.org

Continued on Page 2



Arizona Geology Blog:

AZGS releases digital drill core data from the Courtland-Gleeson area, Turquoise mining district, southeastern Arizona

8 October 2020

The Courtland-Gleeson area (Turquoise mining district) has been explored and worked since 1877, with major exploration projects and drilling periodically occurring from the 1950's onwards. Much of the data from these projects were ultimately donated to the Arizona Geological Survey. Data from the Courtland-Gleeson area was particularly complete, with not only drill logs, but also assays, photos of core, associated reports, maps, and cross sections. From September 2019 to July 2020, AZGS's Mineral Resources program, supported by five student workers, diligently scanned all the associated data and tabulated 25,935 m (85,087 feet or 16.1 miles) of drill data for lithology, mineralization, alteration, structure, and assays across 113 drill holes.

The data is released in several formats. The first is an interactive [webmap](#), where all of the data is displayed for the user to easily peruse the contents. Each tab along the lower portion of the screen represents one of the tabulated spreadsheets, where the user can preview the data. The tabulated data is available for download as eight spreadsheets that include: data sources, lithology, alteration, mineralization, assays, structure point data, structure interval data, and drill hole location data. The spreadsheets are intended to be easily convertible into formats for import into modeling software for viewing drill data. Lastly, two of the geological maps that accompanied some of the data were digitized and available as map plates to provide additional geologic context for the drill holes.

Continued on Page 3

The Arizona Geological Survey (AZGS) has long served as the archival repository for geological data in Arizona that may not have an appropriate home elsewhere. This digitization effort is thanks to funding from the U.S. Geological Survey's Earth Mapping Resources Initiative (Earth MRI) and National Geological and Geophysical Data Preservation Program matched 1:1 with state funding from AZGS's line-item appropriation.

[Webmap Link](#)

[OFR-20-02 Link](#)

Acknowledgements

This project would not have been possible without the many exploration geologists who conducted the original work that developed this rich data set. Erin Phelps, Matthew Ricker, Arielle O'Connor, Evgenia Diakonenko, and Elise Gregory served as dedicated student workers, and whose significant efforts made this project successful.

Blog post by C.A. Richardson (10/08/2020)

Blog Post:

<https://blog.azgs.arizona.edu/blog/2020-10/azgs-releases-digital-drill-core-data-courtland-gleeson-area-turquoise-mining-district>



ARIZONA GEOLOGY
e-MAGAZINE

Opportunities

GSA 2020 Connects Online is a 100% online experience on 26–30 October that replaces the in-person annual meeting scheduled for 25–28 October in Montréal.

To view the program/register <https://community.geosociety.org/gsa2020/home> .

If you have a relevant opportunity that may interest AGS members, please contact:

info@arizonageologicalsoc.org



Come see us at our new expanded location - 7960 S Kolb Rd, Tucson, AZ 85756

- Column Leach Testing
- In-House Fire Assay
- Base Metal Assays
- Geochemical Analysis
- High Grades and Concentrates
- Partial Extraction Techniques for Cu,Mo
- AA, ICP-OES, ICP-MS Instrumentation
- ISO 17025 Accredited Analyses





www.skylinelabs.com
Tucson Lab serving SW USA & Mexico
520-622-4836

AGS MEMBERSHIP APPLICATION OR RENEWAL FORM

YOU CAN RENEW OR SIGN UP as a new member and pay online. Please go to our website, arizonageologicalsoc.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.