



AGS Newsletter

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Objectives of the AGS Executive Committee 2023

Highlight Reel:

- Objectives of the AGS Executive Committee 2023
- Ken Krahulec receives the Lehi Hintze Award for 2022
- AZGS launches a new online Document Repository at UArizona Library
- Mining Foundation of Southwest doubles down on outreach education to the American Public

After 3-years of hiatus, 2023 is a rebuilding year for the Arizona Geological Society (AGS). For the first time since 2017, we have a full slate of officers and councilors. As part of our rebuilding efforts, AGS-EXC Secretary Jenn La Sure, Vice-Secretary Mike McCarrel, and councilor Sean O'Neal plan to restart the monthly AGS Newsletter.

AGS Initiatives at the onset 2023. An AGS-EXC subcommittee of Carson Richardson, Simone Runyon, Sadie Huggler, and Mike Conway are seeking out venues for AGS social mixers and monthly presentations. The sub-committee goal is to have this in place in February 2023 to kickoff AGS Programs-2023.

Jenn La Sure, AGS Secretary 2023, is taking the lead on developing a survey tool to query what AGS members want to see in the way of services, presentations, web development, hosting job announcements, and other sundries. Our goal is to circulate the survey tool in early February.

In the meantime, please reach out to M. Conway (AGS President) or other officers and councilors to weigh in on AGS-2023.



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Ken Krahulec receives the Lehi Hintze Award for 2022

Ken Krahulec, former economic geologist with the Utah Geological Survey (UGS), and long-time member of AGS, was recently honored by the Utah Geological Association (UGA) and the UGS with the 2022 Lehi Hintze Award for his outstanding contributions to Utah geology. Ken has a long history in mineral exploration and as a metals geologist with the UGS. He's credited with the discovery of the Stockton porphyry deposit on the west side of the Oquirrh Mountains in 1995.

Ken worked at UGS from 2005 until his retirement in 2019. According to a UGS Facebook post, "Ken set the highest possible standard for working with operators, communicating with the public, and conducting research on Utah's mineral resources. He authored numerous reports including the annual Utah Mining Report and UGS Open-File Report 695, Utah Mining Districts, which is the go-to guide for Utah's metalliferous mineral resources detailing the history, geology, potential, and further references of all 189 mining districts of Utah." Link to full post: <https://www.facebook.com/photofbid=537672535073328&set=a.301096235397627>

The Lehi Hintze Award, named after Dr. Lehi F. Hintze of Brigham Young University, was established in 2003 by the UGA and UGS to recognize outstanding contributions to the understanding of Utah geology. On behalf of AGS members, the AGS Executive Committee congratulates Ken on receiving the Lehi Hintze award for 2022.



**Ken Krahulec, Lehi Hintze Award
winner 2022**



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AZGS launches a new online Document Repository at UArizona Library

The Arizona Geological Survey (AZGS) online Document Repository is now housed with the University of Arizona Library. The new AZGS library site includes digital holdings from both AZGS' Document Repository and AZGS Mining Data websites. The vast majority of digital holdings are in place, but some documents have yet to be uploaded to the new site. The library site includes an interactive map tool as a finding aid: <https://library.azgs.arizona.edu/>

Searches can be made on a single collection (e.g. Digital Geologic Map Collection for digital maps and GIS databases published since 2000) or on the entire collection. Mine files from the Arizona Department of Mines and Mineral Resources (which includes reports, assays, correspondence, photographs, and mine maps) are available at <https://www.minedata.azgs.arizona.edu/>

A caveat from AZGS; "This site is still under development. Please visit our GitHub (https://github.com/azgs/azlibrary_react) for additional information and support."

☒ Filter results to map extent

Toggling this option on will limit search results to the current extent of the map. Zooming or otherwise changing the map extent will update the search results in real-time.

AZGS Library Website Map Tool

Leaflet | © OpenStreetMap contributors

- [Geologic Map of the Paulden 7.5' Quadrangle, Yavapai County, Arizona](#)
- [Geologic Map of the Chino Valley North 7½' Quadrangle, Yavapai County, Arizona](#)
- [Lava Claim](#)
- [Limestone Canyon](#)
- [Limestone Lode Mining Claim](#)
- [Little Bunker](#)
- [Little Rock Quarry](#)
- [Lower Cedar Tank Quarry](#)
- [M C Canyon Quarry](#)
- [Maesta Stone Yard](#)

AZGS Library Website Map Tool



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Recent publications of Arizona Geological Survey (AZGS)

2022 was a prolific year for publications for the AZGS. They released 34 Digital Geologic Maps- some for the first time but most are re-releases of earlier publications with the addition of geodatabases that add substantial value to the map product. Funding for adding geodatabases to existing maps was supported by the US Geological Survey's Data Preservation Program with a dollar-for-dollar match by AZGS. A chief goal of the AZGS Mapping Program going forward is to digitize geologic maps published as Open-File Reports (1973 – present).

Contributed Reports – 2022

- ·Volcanoes, Landscapes, and Structures in and near Flagstaff, Arizona: Field Guide For a One-Day Excursion
- ·Internal variations and structure of the Catalina Intrusive Suite, Tucson area, Arizona—a reconnaissance and guide to needed work
- ·Ore and Other Metals in Laramide Metaluminous and Peraluminous Granitoids, and in the

Digital Geologic Maps -2022 (most include GIS Database)

- ·Geologic Map of the Little Horn Mountains 30' X 60' Quadrangle, West-Central Arizona
 - ·Geologic map of the Picacho Mountains and Picacho Peak, Pinal County, southern Arizona v. 2.0
 - ·Geology of the Florence Junction and southern portion of the Weavers Need 7.5' quadrangles, Pinal County, Arizona, v. 2.0
 - ·Geologic map of the Oracle Junction 7.5' Quadrangle and the eastern third of the Tortolita Mountains 7.5' Quadrangle, Pima and Pinal Counties, Arizona v. 2.0
 - ·Compilation geologic map of the Oracle 7.5' Quadrangle, Pinal and Pima Counties, Arizona v.2.0
 - ·Bedrock geologic map of the Apache Junction and Buckhorn Quadrangles, Maricopa and Pinal Counties, Arizona v.2.0
 - ·Bedrock geology of the eastern and central Tank Mountains, Yuma County, Arizona v.2.0
 - ·Geologic Map of the Samaniego Hills, Pinal and Pima Counties, Southern Arizona v.2.0
 - ·Geologic Map of the Palomas Mountains, Yuma County, Arizona v.2.0
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Recent publications of Arizona Geological Survey (continued)

- ·Geologic map of the Goldfield Quadrangle and the northern part of the Superstition Mountains
- ·Geology of the Mormon Flat Dam Quadrangle, Maricopa County, Arizona v.2.0
- ·Geology of the Horse Mesa Dam Quadrangle, Maricopa and Gila Counties, Arizona v.2.0
- ·Geologic Map of the Picture Mountain Quadrangle, Gila County, Arizona v.2.0
- ·Geologic Map of the Humboldt Mountain 7.5' Quadrangle, Maricopa County, Arizona v.2.0
- ·Geology of the Cholla Tank and northern third of the Hoodoo Well quadrangles, northern Kofa Mountains, Yuma and La Paz Counties, Arizona v.2.0
- ·Preliminary Bedrock Geologic Map and Cross Sections of the Windy Hill 7.5' Quadrangle, Gila County, Arizona v.2.0
- ·Geologic Map of the Sawtooth Mountains and the North End of the West Silver Bell Mountains, Pinal and Pima Counties, Southern Arizona v.2.0
- ·Surficial Geologic Map of the Picacho Reservoir Quadrangle, Pinal County, Arizona
- ·Surficial geologic map of the Newman Peak Quadrangle, Pinal County, Arizona
- ·Surficial geologic map of the Casa Grande Quadrangle, Pinal County, Arizona
- ·Surficial geologic map of the Eloy North Quadrangle, Pinal County, Arizona
- ·Surficial geologic map of the Eloy South Quadrangle, Pinal County, Arizona
- ·Geologic map of the Southern Roskrige Mountains (the San Pedro and the southern half of La Tortuga Butte 7.5' Quadrangles), Pima County, Arizona
- ·Geologic map of the New River Mesa 7.5' Quadrangle, Maricopa County, Arizona v.2.0
- ·Geologic Map of the Ninetysix Hills NW Quadrangle, Pinal County, Arizona v. 2.0
- ·Geologic map of the Picketpost Mountain and the southern part of the Iron Mountain 7 1/2' Quadrangles, Pinal County, Arizona
- ·Geology of the northern Kofa Mountains (Owl Head and northern third of the Kofa Butte 7.5' quadrangle), Yuma and La Paz Counties, Arizona v.2.0
- ·Geologic map of the Lincoln Ranch Basin, eastern Buckskin Mountains, western Arizona v.2.0
- ·Geologic Map of the Northwestern Part of the Greenback Creek 7.5' Quadrangle, Gila County, Arizona v.2.0

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Recent publications of Arizona Geological Survey (continued)

- [Geologic Map of the Copper Mountain Quadrangle, Gila County, Arizona v.2.0](#)
- [Geologic Map of the Ninetysix Hills NE Quadrangle, Pinal County, Arizona](#)
- [Geologic Map of the Ninetysix Hills SW Quadrangle, Pinal County, Arizona](#)
- [Geologic Map of the Ninetysix Hills SE Quadrangle, Pinal County, Arizona](#)
- [2022 Arizona Major Mines, Development Projects, Past Producers, and Defined Deposits](#)

Open-File Reports – 2022

- [The AZGS GeoMapMaker toolbar: An ArcGIS Pro toolbar for efficiently developing GeMS-compliant geologic maps](#)
- [Directory of Active Mines in Arizona: FY 2022](#)
- [Working towards a safer more resilient Arizona: Pilot Study Assessing Unreinforced Masonry Buildings of Tucson, Arizona](#)
- [Working towards a safer more resilient Arizona: Pilot Study Assessing Unreinforced Masonry Buildings of Prescott, Arizona](#)
- [Working towards a safer more resilient Arizona Pilot Study: Assessing Unreinforced Masonry Buildings in Flagstaff & Yuma, Arizona](#)
- [Fate of Arizona's Premier Physical Mining Data Archive](#)

Poster Presentation – 2022

- [Arizona's Seismic Network: A Case Study in Balancing Growth, Risk, and Resources](#)

Mining Foundation of Southwest doubles down on outreach education to the American Public

The Mining Foundation of the Southwest (MFSW) has formally changed its name to Mining and Minerals Education Foundation. From their portal webpage, "The Mining and Minerals Education Foundation educates the public about the importance mineral resources and we highlight and honor outstanding accomplishments in the mining industry."

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Mining Foundation of Southwest doubles down on outreach education to the American Public (continued)

MFSW formed in 1993 with the merger of the Mining Club of the Southwest (est. 1970) with the Mining Club of the Southwest Foundation (est. 1982). In 2008-2009, the Foundation shifted their focus to developing a robust educational outreach program to inform the public and school-age children of the nature of mineral resources and resource extraction and processing to 21st century society.

For more on the history and goals of the Mining and Minerals Education Foundation, visit their revamped website at <https://www.miningfoundationsw.org/>



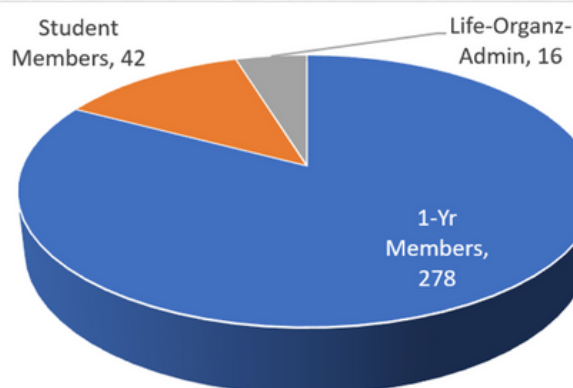
**MINING AND MINERALS EDUCATION
FOUNDATION**

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The Mining and Minerals Education Foundation educates the public about the importance mineral resources and we highlight and honor outstanding accomplishments in the mining industry.



AGS Member 336 total

18 Jan 2023

Arizona Geological Society Members
at-a-glance (18 Jan. 2023)