

MGRRE Education, Data Preservation, Research, and Community Outreach Supports WMU's Strategic goals of Learner Success and Promotes WMU as a School of Choice through Discovery and Collaboration

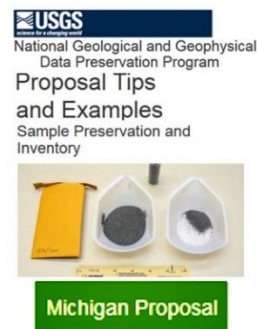
Learner success

- Alumni Matt Rine and Jon Garrett, now geologists at Consumers Energy, conduct research to support natural gas storage.
- Graduate students complete their thesis research using MGRRE data and samples. Drs. Voice and Harrison served on their committees.
- Dr. Voice's stratigraphy class students examine cores at MGRRE for several lab assignments.
- Graduates and undergraduates identify chemical elements in cores using XRF technology.
- Students make professional research presentations at the national Geological Society of America meeting.
- Undergraduates work on USGS-funded projects to preserve samples.



Discovery and collaboration

- Dr. Harrison and his team completed a USGS NGGDPP project to preserve and inventory cores and cuttings from our two major freshwater aquifers, aggregate materials, and other natural deposits. The USGS Website now shows our proposal as the [sample preservation proposal](#). Our potash core work is also shown as a preservation [success story](#) with [an article](#) about our work to preserve this world class source of a critical mineral.
- Drs. Voice and Harrison used MGRRE's most recently acquired cores to revise the outdated bedrock map of Wayne County and to assess its subsurface resources, risks, and structures. This [publication](#) was funded by a USGS STATEMAP grant. They presented their findings at GSA, MBGS, and MI-AIPG meetings.
- Dr. Harrison presented his team's research on CO₂EOR to the annual meeting at Battelle Memorial Institute.



Success Stories



Critical Minerals

Industry, community and government collaborations

- Met with Michigan Potash company group of international participants. Dr. Harrison discussed resource geology.
- A company director met with Dr. Harrison to discuss a proposed landfill leachate disposal well to eliminate potential groundwater contamination.
- Hosted a 2-day PTTC Natural Gas Storage School with registrants from several states.
- Met with USGS geologists to discuss FEDMAP and water mapping opportunities.
- EGLE geologist and former USGS geologist examined samples for the current USGS STATEMAP project to describe bedrock geology of Jackson County.
- Inventoried 12 pallets of geological publications and maps donated by EGLE.



Collaboration with other institutions of higher learning

- MGRRE welcomed geology class visits from:
 - Michigan State University
 - Hope College and
 - Calvin College

They examined core and heard about our graduate program.

