

DMT'26 AGENDA

Sunday, May 10

1:30 pm – 4:00 pm Presentation and Field trip. Monitoring and Mapping: Highlights of Erosion Monitoring and Marine Mapping Programs at the Maine Geological Survey – By Peter Slovinsky and Nicholas Whiteman. (optional; we will gather in the Hilton's meeting room for the 40-minute presentation and then arrange carpooling to Wolfe's Neck Center (<https://www.wolfesneck.org>))

5:00 pm Informal gathering at the Maine Beer Company - 525 US Route 1, Freeport

Monday, May 11

7:30 – 8:30 am *Registration, coffee and pastries, and poster setup (Jewell Room)*

8:30 – 8:50 am Welcoming remarks – By Ryan Gordon and Chris Halsted (Maine Geological Survey and Dave Soller (U.S. Geological Survey))

8:50 – 9:10 am Unearthing legacy data: Incorporating early 20th-century working field maps into modern geologic mapping
By Brian B. Hunt, Meena Balakrishnan, and Mark A. Helper (Texas Bureau of Economic Geology)

9:10 – 9:30 am Pinpoint drilling using ArcPro – Pros and cons of using 136-year-old data with current imagery
By Anthony Roth (Montana Bureau of Mines and Geology)

9:30 – 9:40 am The application of remote sensing techniques to quantify landslide movement and monitor hazards in northern California
By Elaine Young (California Geological Survey)

9:40 – 10:10 am *Coffee break. From 9:40 – 9:50 am, all oral and poster presenters will meet with Dave Soller.*

10:10 – 10:40 am Creating NGMDB's master DMU table using AI to OCR DMUs
By Dave Soller (U.S. Geological Survey) and Andrew Wunderlich (Tennessee Geological Survey)

10:40 – 11:40 pm Proposed guidelines for GeMS extension tables (presentation and discussion)
By Dave Soller (U.S. Geological Survey), Emily Bunse (Kansas Geological Survey), and Mark Yacucci (Illinois State Geological Survey)

11:40 – 12:00 pm Questions and discussion

12:00 – 1:00 pm *Lunch*

1:00 – 1:20 pm Geologic hazards of the occupational kind: A conversation on field safety for mappers

By Megan Harder (Missouri Geological Survey)

1:20 – 1:40 pm ArcGIS + AI: Smarter tools for geologic mapping

By Lorraine Tighe and Helen Tuvener (Esri)

1:40 – 2:10 pm Updates on template geologic map databases and other python-based tools to accelerate mapping

By Daniel Miranda, Shea Burns, and Ryan Crow (U.S. Geological Survey)

2:10 – 2:20 pm Automating and using red relief maps for desktop mapping

By Blair Stuhlmuller (Washington Geological Survey)

2:20 – 2:40 pm 2D to 3D geologic cross section workflow development

By Lauren Reeher, Rosemary Fasselin, Josh Dustin, Ben Sears, and Stefan Kirby (Utah Geological Survey)

2:40 – 3:00 pm XactoPro – Tool for Building Cross Sections

By Deette Lund (Illinois State Geological Survey)

3:00 – 5:00 pm Coffee break, followed by Poster Session and Map Blast

During this time slot, the formally presented posters will be supplemented by a “Map Blast”.

Everyone is encouraged to bring maps (finished or in preparation), and to display them.

Additional poster boards and tables will be available for this purpose. Explore what others are working on, ask questions, and share your expertise!

Tuesday, May 12

7:30 – 8:30 am Coffee and pastries

8:30 – 8:50 am How can we bring the ‘multi-map’ concept into the 3rd dimension?

By Sam Johnstone, Don Sweetkind, Brooklyn Smout, and Warren Roe (U.S. Geological Survey)

8:50 – 9:10 am Implementing S3DS in Kansas – Petrel to GIS

By Emily Bunse, Souvik Bhattacharjee, and Brendan Bream (Kansas Geological Survey)

9:10 – 9:30 am 3D Subsurface Modeling is as easy as EBK

By Jacque Hamilton (Minnesota Geological Survey)

9:30 – 10:00 am Unlocking the potential of historical geologic maps: Designing a simple open-source georeferencing application

By Andrew L. Wunderlich (Tennessee Geological Survey)

10:00 – 10:30 am Coffee break.

10:30 – 10:50 am Integrating legacy geologic data into a 3D GIS model: A subsurface mapping workflow for the Newark–Gettysburg Basin, Pennsylvania

By Al Guisepe (Pennsylvania Geological Survey)

10:50 – 11:10 am Beneath the Queen City of New Hampshire – The Massabesic Gneiss Complex
By Joshua Keeley, Charlie Kerwin, and Stella Wenczel (New Hampshire Geological Survey)

11:10 – 11:30 am Published is better than perfect
By Hailey Filippelli (Pennsylvania Geological Survey)

11:30 – 12:00 pm Discussion Session – ADA (accessibility) requirements
Moderated by Mark Yacucci (Illinois State Geological Survey)

12:00 – 1:00 pm Lunch

1:00 – 1:30 pm Update on progress to create a set of GeMS instructional videos (presentation and discussion)
By Darby DeBruhl (formerly South Carolina Geological Survey)

1:30 – 1:50 pm New Quaternary geologic map of the Alaska Peninsula, Alaska
By Frederic H. Wilson (U.S. Geological Survey)

1:50 – 2:10 pm Serving GeMS data and map publications to the world: The WVGES approach
By Sarah Gooding, Rich Binns, and Phil Dinterman (West Virginia Geological and Economic Survey)

2:10 – 2:30 pm QA/QC of the Alaska GeMS Geologic Mapping System – Challenges and successes with ArcPro attribute rules
By Ally Steinleitner (Alaska Division of Geological & Geophysical Surveys)

2:30 – 2:50 pm New digital map publication series at the Montana Bureau of Mines and Geology – A solution for publishing large, continuously updated, digital-only datasets
By Patricia Gallagher (Montana Bureau of Mines and Geology)

2:50 – 3:00 pm Open time period, for questions to the afternoon's presenters.

3:00 – 3:30 pm Coffee break

3:30 – 3:40 pm Designing a data management and archival plan
By Matthew Rehwald (Wisconsin Geological and Natural History Survey)

3:40 – 3:50 pm Creating the Sierra Nevada Earth Science Atlas
By Matt O'Neal, Russell Graymer, and others, Elaine Young (presenting)

3:50 – 4:10 pm Mapping in Maryland: Current, Digital, and Future
By Ryan Higgins (Maryland Geological Survey)

4:10 – 4:30 pm Implementation of contingency table in ArcPro and tools
By Étienne Girard and Gabriel Huot-Vézina (Geological Survey of Canada, NRCAN)

4:30 – 4:50 pm Quantitatively determining mapping projects
By Trevor Ellis (Missouri Geological Survey)

Wednesday, May 13

8:00 – 8:30 am *Coffee and pastries*

This final day is available for late-offered or impromptu presentations, and for discussion of topics raised previously in the meeting and for new topics.

12:00 pm Meeting adjourns.

POSTER PRESENTATIONS:

(listed alphabetically, by agency)

Geological 3D prints as a communication tool for stakeholders and general public
By Karine Bédard and Mike Hillier (Geological Survey of Canada)

Regional geologic map and cross-sections of the Tarpon Springs 1°x2° Quadrangle, central Florida
By Rick Green (Florida Geological Survey)

Preliminary surficial geologic map of Montcalm County, Michigan
By Nathan R. Erber and Garrett B. Ringle (Michigan Geological Survey) and Patrick M. Colgan (Grand Valley State University)

Geologic map of the Weeksville and Baldy Lake 7.5' quadrangles, Sanders County, Montana
Stuart D. Parker and Jeffrey D. Lonn (Montana Bureau of Mines and Geology)

From DEMs to DMUs: Automating Floodplain and geologic map workflows
By Robert Clark and Joseph McGuinn (South Carolina Geological Survey)

New geologic map publication with 3D cross section integration
By Lauren Recher, Rosemary Fasselin, and Josh Dustin (Utah Geological Survey)

Geologic map of the Muskogee 30X60-minute quadrangle, Cherokee, Creek, McIntosh, Muskogee, Okmulgee, Sequoyah, Tulsa, and Wagoner Counties, Oklahoma
By C.M. Eichler, C. Lewis, and T.M. Stanley (Oklahoma Geological Survey)

Geologic Map of the Welch NW 7.5' Quadrangle, Craig County, Oklahoma
By C.M. Eichler and T.M. Stanley (Oklahoma Geological Survey)