



AGENDA

Sunday, May 21

Afternoon:

1:00 – 5:00 pm Tour of Minneapolis-St. Paul (optional)

5:00 – 7:00 pm Registration at the conference hotel (Courtyard Minneapolis Downtown)

Monday, May 22

7:30 – 8:30 am *Registration, coffee and pastries, and poster setup (Humphrey School Conference Center)*

8:30 – 8:40 am Welcoming remarks

8:40 – 9:20 am

An update on the Strategic Plan for the National Cooperative Geologic Mapping Program (John Brock, NCGMP Coordinator, USGS)

Steps toward implementation of the NCGMP Strategic Plan (Harvey Thorleifson, Minnesota State Geologist)

9:20 – 9:55 am Status and future of the AASG/USGS National Geologic Map Database
By Dave Soller (U.S. Geological Survey)

9:55 – 10:20 am *Coffee break. From 9:55 – 10:00 am, all oral and poster presenters will meet with Dave Soller.*

10:20 – 10:50 am High Resolution Topography of the Poles; How to release 2m elevation for the Arctic and 8m for the Antarctic in 2 years

By Paul Morin (University of Minnesota Polar Geospatial Center)

10:50 – 11:05 am EGD and the NGA commercial imagery program

By Brian Bates (National Geospatial Agency)

11:05 – 11:40 am A 3D Geologic Map of Lake County, Illinois: The whole geologic story in digits

By Steven E. Brown (Illinois State Geological Survey)

11:40 – 12:00 pm Building an Enterprise version of GeMS (formerly NCGMP09 map schema)
By Jennifer E. Athey, Michael D. Hendricks, and Patricia E. Gallagher (Alaska Division of Geological & Geophysical Surveys)

12:00 – 1:30 pm Lunch

12:30 – 1:00 pm Guided tour of Historic Mapping and Copper Plates Exhibit (Andersen Library foyer)

1:30 – 3:00 pm Training and Discussion Session on “Implementing the GeMS (formerly NCGMP09) database design”

This Session will address the ongoing efforts in states, USGS, and other agencies to implement the GeMS (“Geologic Map Schema”, formerly named “NCGMP09”) standard database design. This will largely be a training session, focusing on general procedures and specific suggestions for creating and populating a GeMS-compliant map database. The status of work to refine, publish, and propose this schema as a Federal standard will be reviewed. Session coordinated by Ralph Haugerud and Dave Soller (USGS)

3:00 – 5:00 pm 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! In addition, Esri experts will be available in a private room, for individual technical support and questions.

7:00 – 8:00 pm Tour of Minnesota Geological Survey (optional)

Tuesday, May 23

7:30 – 8:30 am Coffee and pastries

8:30 – 8:50 am Managing the Digital Geologic Publication Lifecycle with Digital Commons: A partnership between the Maine Geological Survey and the Maine State Library
By Chris Halsted (Maine Geological Survey) and Adam Fisher (Maine State Library)

8:50 – 9:10 am DGS Has a Story to Tell
By Lillian Wang (Delaware Geological Survey)

9:10 – 9:30 am And More Stories from Wyoming
By Suzanne Luhr (Wyoming State Geological Survey)

9:30 – 10:00 am An Implementation of GeMS in Excel
By Jordan T. Hastings (University of California, Santa Barbara)

10:00 – 10:30 am Coffee break.

10:30 – 12:00 pm Discussion Session – “Geoscience Data – Stewarding our legacy. Tips, Stories, and Discussion”

Data stewardship is the management and oversight of an organization's data assets, with the goal of providing users with high-quality data that are easily accessible and usable. Data stewardship

includes the management and oversight of data preservation and archiving activities. In this session, the DMT Data Stewardship Committee will discuss the results of its recently conducted Web survey of the data stewardship procedures used in State and Federal agencies. Responses to the survey will provide guidance to the Committee, for development of: (1) a brief document on the needs for, and benefits of, data stewardship; and (2) online technical guidance on stewardship methods. The remainder of this session will be focused on stewardship methods, and solicitation of additional input from the attendees. We will outline plans for preparing the documents and online guidance, and seek additional participation in the Committee's work.

12:00 – 1:30 pm Lunch

12:30 – 1:00 pm Self-guided tour of Geologic Quilt/Borchert Map Library (Wilson Library sub-basement)

1:30 – 3:00 pm Training and Discussion Session -- Esri demos and Q&A period
Technical representatives from Esri will: (1) provide instruction and demonstrations on certain aspects of their GIS software, for example workflow-related issues in ArcGIS Pro, and (2) engage the audience in a Question&Answer period. Tentatively included in the instruction/demo portion will be an overview of mapping by geologists from the City of Austin, Texas, and how that information is efficiently brought into ArcGIS Pro. In the Q&A portion, questions and issues raised in the pre-meeting request to the DMT listserv (April 8) will be addressed along with questions from meeting attendees and participants in the Webex.
By Stephen Zahniser and Joseph Sheffield (Esri)

3:00 – 3:30 pm Coffee break

3:30 – 4:00 pm Teaching a Computer Geology: Automated Lithostratigraphic Classification Using Machine Learning Algorithms.
By Seth Willis Bassett (Florida Geological Survey)

4:00 – 4:20 pm From the Field to Publication: Integration of GIS Throughout the Mapping Process, USGS Denver
By Julie A. Herrick and Anya V. Hess (U.S. Geological Survey)

4:20 – 4:40 pm GIS Tools for Gridded Meteorological Data for Groundwater Recharge Modeling
Tanner Arrington and Alex Butler (South Carolina Department of Natural Resources)

4:40 – 5:00 pm Enhanced Online Public Access to Minnesota Minerals and Geology Data Using ArcGIS Online Web Maps
By Kevin Hanson (Minnesota Department of Natural Resources)

Wednesday, May 24

8:00 – 8:30 am Coffee and pastries

8:30 – 8:50 am USGS guidelines for use of stratigraphic nomenclature in geologic descriptions
By Claire M. Landowski (lead), Julie A. Herrick, Katherine D. Jacques, David A. Shields, and Nancy R. Stamm (U.S. Geological Survey)

8:50 – 9:10 am Getting survey data to the public, researchers, and students with the Flyover Country mobile app
By Shane Loeffler, Amy Myrbo, Reed McEwan, Sijia Ai, and Alex Morrison (University of Minnesota)

9:10 – 9:30 am 3DEP and Other Updates from the Hazards Community of Use
By Craig A. Neidig (U.S. Geological Survey)

9:30 – 10:00 am “Niche” open source GIS software
By Seth Willis Bassett (Florida Geological Survey)

10:00 – 10:30 am Coffee break.

10:30 – 12:00 pm Informal discussion period, to raise new issues or continue with topics raised during the Monday and Tuesday sessions, and to identify and actions to be taken. For example, discuss methods to improve technical communication among the State and Federal partners, consider topics and locations for future DMT meetings. Adjourn meeting.

POSTER PRESENTATIONS:

(listed alphabetically, by agency)

Standardizing and Automating Digital Geologic-GIS Map Symbolization

By James R. Chappell, Stephanie A. O'Meara, James R.H. Winter and Ronald D. Karpilo (Colorado State University and the National Park Service Geologic Resources Inventory)

Dissemination of detailed geologic mapping to the public: a case study of Floyds Fork in the Fisherville 7.5-minute quadrangle

By Steve Martin and Doug Curl (Kentucky Geological Survey)

Quaternary stratigraphy of Minnesota: statewide cross-sections

By B.A. Lusardi, A.S. Gowan, G.N. Meyer, and L.H. Thorleifson (Minnesota Geological Survey)

Pilot Project to Support a Surficial Geology Map of Minnesota at 1:500,000

By B.A. Lusardi, and G.N. Meyer (Minnesota Geological Survey)

Refining Bedrock Topography and Drift Thickness Mapping in Ohio

By Nate Erber and Paul Spahr (Ohio Division of Geological Survey)

Getting survey data to the public, researchers, and students with the Flyover Country mobile app

By Shane Loeffler, Amy Myrbo, Reed McEwan, Sijia Ai, and Alex Morrison (University of Minnesota)

Leveraging Geologic Maps in a Multi-Scale Interactive Environment

By Shanan E Peters and John J Czaplowski (University of Wisconsin - Madison)

From Pencil to Digital—Challenges of Bridging the Geologic Mapping Gap

By Stuart A. Giles (U.S. Geological Survey)

Reversing Entropy: Preventing Introduced Errors in Multi-Step Digital Map Generation, USGS Denver

By Anya V. Hess and Julie A. Herrick (U.S. Geological Survey)

GIS-based identification of areas that have potential for lode gold deposits in Alaska

By Susan Karl, Keith Labay, Nora Shew, Bronwen Wang, Matt Granitto, Douglas Kreiner, and George Case (U.S. Geological Survey)

Quaternary sediment thickness and bedrock topography of the glaciated United States east of the Rocky Mountains

By Dave Soller and Chris Garrity (U.S. Geological Survey)

Status of the National Geologic Map Database

By the National Geologic Map Database project