

DMT '12 Presentations and Attendees

Nineteen oral and seventeen poster presentations were given, supplemented by Discussion Sessions. These are listed below; please also see <http://ngmdb.usgs.gov/Info/dmt/DMT12presentations.html> for presentations and posters available for download. The meeting was attended by 73 technical experts from 34 agencies, universities, and private companies, including representatives from 25 State geological surveys; the list of attendees is provided below.

Oral Presentations

[listed in order of presentation]

Building the “National Archive” of geologic maps – A progress report on the National Geologic Map Database (NGMDB)

By National Geologic Map Database project (Dave Soller, presenter, U.S. Geological Survey)

Evolution of web mapping applications at Alaska’s geological survey as of 2012

By Jennifer E. Athey, Christopher D. Ramey, and James R. Weakland (Alaska Division of Geological & Geophysical Surveys), Will H. Fisher (Geographic Information Network of Alaska), and Kenneth A. Woods and Susan S. Seitz (Alaska Division of Geological & Geophysical Surveys)

Planning a (digital) geologic mapping data migration pilot project – Embarking on a journey toward standardization

By Meredith C. Payne (Washington State Department of Natural Resources, Division of Geology and Earth Resources)

Progress report on NCGMP09

By Ralph A. Haugerud and David R. Soller (U.S. Geological Survey), Stephen M. Richard (Arizona Geological Survey), and Evan E. Thoms (U.S. Geological Survey)

Online Geologic Maps: A Simple Application for Publishing NCGMP09 Databases

By Ryan Clark (Arizona Geological Survey)

NCGMP through the Data Preservation Lens: Preparing for the future by digging into the past

By Janel Day (Arizona Geological Survey)

The AAPGF-OSU Geoscience GIS Consortium and Funding Opportunities

By Christina Hall (AAPG Datapages) and April Chipman (Oklahoma State University)

USGS Historical Topographic Map Collection

By Gregory Allord (U.S. Geological Survey)

National Enhanced Elevation Assessment and Program Proposal

By Larry Sugarbaker (U.S. Geological Survey)

Illinois Height Modernization Program: Data Stewardship for High Resolution Elevation Data

By Sheena Beaverson (Illinois State Geological Survey), Amy J. Eller (Illinois Department of Transportation), and Donald E. Luman, Deette M. Lund, and Michael E. Blumhoff (Illinois State Geological Survey)

Making the US Topo – A Process Discussion

By Bob Davis (U.S. Geological Survey)

Cartographic issues and concerns in 3-D geologic mapping

By Don Keefer, Jason Thomason, and Jennifer Carrell (Illinois State Geological Survey)

Managing Complex Schema Upgrades with FME and Arc

By Richard Nairn (Geological Survey of Canada)

Workflow methodology for 3-Dimensional geologic modeling with examples from structural characterization of geothermal systems

By Nicholas H. Hinz, Drew L. Siler, James E. Faulds, and Brett Mayhew (Nevada Bureau of Mines and Geology)

Ganfeld supporting tools for Field Data Management

By Pierre Brouillette, Étienne Girard, Gabriel Huot-Vézina, Stephen Williams, and Patty Zhao (Geological Survey of Canada)

Geolex tricky bits

By National Geologic Map Database project (Nancy Stamm, presenter, U.S. Geological Survey)

What’s New from Esri & ArcGIS 10.1 for Authoring, Publishing, and Sharing Maps for the DMT Community

By Larry Batten and Willy Lynch (Esri)

GeoWebFace – Online, Geological and Oil & Gas maps and data for Michigan

By John M. Esch and Steven E. Wilson (Michigan Department of Environmental Quality), and Ron Thomas, Scott Reynolds, and Gary Taylor (Michigan Department of Technology, Management and Budget)

From data collection to rolling out products: considerations and workflows when developing 3-D geologic maps

By Don Keefer, Jason Thomason, and Steve Brown (Illinois State Geological Survey)

Discussion Sessions

At each DMT meeting, several informal Discussion Sessions are conducted. Some sessions facilitate information exchange on a general topic, such as digital cartography, whereas other sessions are more focused, for example on a proposed plan for standards development. The title and subject of the two focused DMT'12 Discussion Sessions are given below.

(1) “Content and Data Structure for 3D geologic maps”

Topic Summary – a general-information session, intended to contribute to some convergence of thought on how data are managed. The focus was toward:

- What types of content are common in our 3D databases? Which are free text, which are standardized?
- How do we publish and archive 3D data? Methods, formats, and so forth.

Moderated by Don Keefer (Illinois State Geological Survey), William Andrews (Kentucky Geological Survey), and Dave Soller (U.S. Geological Survey)

(2) “US Topo and its applications to geologic map cartography and GIS”

This session included short presentations by:

- Tracy Fuller (U.S. Geological Survey)
- Don Luman (Illinois State Geological Survey)
- Jane Johnshoy Domier (Illinois State Geological Survey)
- Kent Brown (Utah Geological Survey)
- Bob Davis (U.S. Geological Survey)

Poster Presentations

[listed alphabetically by author]

The Geologic Time Scale – Illinois’ Geologic History

By Curt Abert (Illinois State Geological Survey)

History and status of 2D and 3D geologic mapping at the Kentucky Geological Survey

By William M. Andrews, Jr. (Kentucky Geological Survey)

Moving toward a new geologic map database standard, NCGMP: the good, the bad and the ugly

By Janel Day (Arizona Geological Survey)

Accessing the National Geologic Map Database (NGMDB) Map Catalog via ArcGIS Image Server

By Christopher P. Garrity and David R. Soller (U.S. Geological Survey)

Migrating Abandoned Underground Mine Applications to ArcGIS Add-ins

By Robert H. Hanover and James McDonald (Ohio Geological Survey)

Better geologic maps with lidar

By Ralph A. Haugerud, R.W. Tabor, and R.E. Wells (U.S. Geological Survey)

Studies in the Mahomet Valley

By A.M.A. Ismail and A.J. Stumph (Illinois State Geological Survey)

LiDAR Landscapes of Illinois

By Jane E. Johnshoy Domier and Donald E. Luman (Illinois State Geological Survey)

Presentation/Discussions in the ISGS Earth Systems Visualization Laboratory

By Don Keefer and Jason Thomason (Illinois State Geological Survey)

Migrating Ohio’s Geology GIS datasets to the new NCGMP09 Standard – Progress Report

By James McDonald and Joseph G. Wells (Ohio Geological Survey)

Vector, Raster, and 3D: ‘Maps’ for the Middle Illinois River Valley

By E.D. McKay, III, Richard Berg, and Barbara Stiff (Illinois State Geological Survey)

Managing Complex Schema Upgrades with FME and Arc

By Richard Nairn (Geological Survey of Canada)

Communicating a Digital Geologic Map in the Digital World

By Stephanie O’Meara, Jim Chappell, Ron Karpilo, and Georgia Hybels (Colorado State University and National Park Service Geologic Resources Division)

Tablet-based Groundtruthing: Windows (TM) in the field

By Larry Robinson, Andrew Strassman, and Tim Fox (U.S. Geological Survey)

Terrestrial Lidar and Bathymetric Data Integration and Potential Application for the Upper Mississippi River

By Jason J. Rohweder, James T. Rogala, Joseph W. Jakusz, Jenny L. Hanson, Larry R. Robinson, and J.C. Nelson (U.S. Geological Survey)

Database for USGS Map I-1970 – Map Showing the Thickness and Character of Quaternary Sediments in the Glaciated United States East of the Rocky Mountains

By David R. Soller, Patricia H. Packard, and Christopher P. Garrity (U.S. Geological Survey)

The National Geologic Map Database project

By David R. Soller and Nancy R. Stamm (U.S. Geological Survey)

List of Workshop Attendees*[Grouped by affiliation]**Alaska Division of Geological and Geophysical Surveys*

Jennifer Athey
James Weakland

American Association of Petroleum Geologists

Christina Hall

Arizona Geological Survey

Ryan Clark
Janel Day

Colorado State University / National Park Service Cooperator

Ron Karpilo
Stephanie O'Meara

Conservation and Survey Division, University of Nebraska – Lincoln

Les Howard

Delaware Geological Survey

William Schenck

Esri

Larry Batten
Willy Lynch

Geological Survey of Canada

Pierre Brouillette
Richard Nairn

Idaho Geological Survey

Loudon Stanford

Illinois State Geological Survey

Melony Barrett
Sheena Beaverson
Jennifer Carrell
Jane Domier
David Grimley
Mathew Jefferson
Donald Keefer
Donald Luman
Dee Lund
Don McKay
Tricia Rentschler
Mark Yacucci

Indiana Geological Survey

Matt Johnson
Laura Montgrain
Todd Thompson

Kansas Geological Survey

John Dunham

Kentucky Geological Survey

William Andrews
Jim Cobb
Gerald Weisenfluh

Michigan Department of Environmental Quality—Office of Oil, Gas, and Minerals

John Esch

Minnesota Geological Survey

Richard Lively
Matthew Rantala

Mississippi DEQ Office of Geology

Daniel Morse

Missouri DNR/Division of Geology and Land Survey

Edith Starbuck

Montana Bureau of Mines and Geology

Katie McDonald

Nevada Bureau of Mines and Geology

Nicholas Hinz

New Mexico Bureau of Geology and Mineral Resources

Phil Miller

Ohio Division of Geological Survey

Robert Hanover
James McDonald

Oklahoma State University

April Chipman

Oregon Dept. of Geology & Mineral Industries

Rachel Lyles Smith
Kate Mickelson

South Carolina Geological Survey

Steven Workman

12 Digital Mapping Techniques '11–12

U.S. Geological Survey

Gregory Allord

Terri Arnold

Bob Davis

Tracy Fuller

Christopher Garrity

Ralph Haugerud

Michael Marketti

John Nelson

Larry Robinson

Shelley Silch

David Soller

Nancy Stamm

Larry Sugarbaker

University of Alabama

Douglas Behm

University of Illinois

Ann Ferguson

Lura Joseph

Eric Shaffer

Utah Geological Survey

Kent Brown

Virginia Division of Geology and Mineral Resources

Amy Gilmer

Washington State Department of Natural Resources, Geology and Earth Resources Division

Meredith Payne

West Virginia Geological and Economic Survey

John Bocan

Paula Hunt

West Virginia University

J. Steven Kite

Marla Yates

Wisconsin Geological and Natural History Survey

Steve Mauel

Wyoming State Geological Survey

Suzanne Luhr