AGENDA

Oral presentations, discussion sessions, and Sunday workshop – Jacobs Science Bldg., rm. 121

Breaks, lunch, and poster sessions – MMRB lobby

Sunday, May 20

9:00 am – 5:00 pm  GeMS workshop (optional; in room 121 of the Jacobs Science Building)

5:00 – 7:00 pm  Registration and welcome reception (lobby, MMRB)

Monday, May 21

7:30 – 8:30 am  Registration, coffee and pastries, and poster setup (lobby, MMRB)

8:30 – 8:50 am  Welcoming remarks – By Bill Haneberg and Drew Andrews (Kentucky Geological Survey) and Dave Soller (USGS)

8:50 – 9:20 am  Overview of Kentucky collaboratively funded LiDAR program and KyTopo product
By Kent Anness (Kentucky Division of Geographic Information)

9:20 – 9:40 am   The Maine Geological Survey’s Statewide Geodatabase Architecture and Initial Progress Towards GeMS Compliance
By Christian Halsted (Maine Geological Survey)

9:40 – 10:00 am  Status of GeMS-compliant enterprise database model and Alaska GeMS maps
By Jennifer Athey, Mike Hendricks, and Trish Gallagher (Alaska Division of Geological & Geophysical Surveys)

10:00 – 10:30 am   Coffee break. From 10:00 – 10:10 am, all oral and poster presenters will meet with Dave Soller.

10:30 – 11:20 am  Discussion Session – Status and implementation of the GeMS (formerly NCGMP09) database design
This Session will include: (1) an update on the status of the GeMS Website, GeMS specification document, and software tools and Wiki; (2) a brief summary of the GeMS workshop held the
previous day; and (3) open discussion and informal presentations from the audience. This is the first, and more general, of two Discussion Sessions about GeMS. Session coordinated by Ralph Haugerud and Dave Soller (USGS)

11:20 – 11:40 am  Scripted Conversion of Legacy GIS Data to USGS Formats  
By Laura Bookman (Arizona Geological Survey)

11:40 – 12:00 pm  South Carolina’s GeMS Migration Project  
By Tanner Arrington (South Carolina Department of Natural Resources)

12:00 – 1:30 pm  Lunch

1:30 – 1:50 pm  Status of the AASG/USGS National Geologic Map Database  
By Dave Soller (U.S. Geological Survey)

1:50 – 2:10 pm  Creating a Professional Publication Series for Story Maps and Other Web Applications  
By Lillian Wang and William Schenck (Delaware Geological Survey)

2:10 – 2:30 pm  NSGIC / 3DEP coordination  
By Mark Yacucci (Illinois State Geological Survey)

2:30 – 4:00 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!

4:00 – 6:00 pm  Digital Open House (various rooms, MMRB)  
Numerous Kentucky Geological Survey researchers will be available for demonstrations and discussion of various digital-geology related activities, including digital field data collection, data management and web delivery, LiDAR applications, cartography, and GeoHealth and radon projects.

Tuesday, May 22

7:30 – 8:30 am  Coffee and pastries

8:30 – 8:50 am  An Update on USGS National Geospatial Program Activities  
By Craig A. Neidig (U.S. Geological Survey)

8:50 – 9:10 am  Accuracies and Capabilities of Topographic Maps versus LiDAR for Field Mapping and Research at the Geological Survey of Alabama  
By Sandy Ebersole and Brian Cook (Geological Survey of Alabama)

9:10 – 9:30 am  Visualizing fold-thrust belt structure, stratigraphy, and surficial evolution using the unusual combination of Google Earth, ArcGIS, and Photoshop  
By Philip S. Prince (Virginia Division of Geology and Mineral Resources)
9:30 – 10:00 am 3D geological modeling and management system for Singapore  
By Jian Chu and Xiaohua Pan (School of Civil and Environmental Engineering, Nanyang Technological University, Singapore), and Kiefer Chiam and Defu Wu (Building and Construction Authority, Singapore)

10:00 – 10:30 am Coffee break.

10:30 – 12:00 pm Discussion Session – What does it mean to be “GeMS-compliant”?  
In order for GeMS (or any standard) to become widely-used, it must be adhered to – the database schema, and the content’s structure must be consistent from one publication to another.  
Information management in each Geological Survey is, of course, somewhat unique owing to agency history, funding, and personnel. As a consequence, full compliance with the GeMS standard will be a challenge. This Session will strive for open and honest discussion of the technical and scientific challenges to preparing a geologic map database according to the GeMS schema, and will focus on options for what might be defined as an acceptable level of compliance with GeMS, for deliverables, publications, and enterprise databases. The DMT community’s technical expertise is crucial to a pragmatic definition of “GeMS-compliant.”  
Session moderated by Dave Soller and Ralph Haugerud (USGS)

12:00 – 1:30 pm Lunch

1:30 – 1:50 pm Exploring Interoperability Solutions for Interplanetary Data  
By Marc Hunter (U.S. Geological Survey)

1:50 – 2:10 pm Automating the Import of Collector for ArcGIS Data into GeMS  
By Rebecca Kavage Adams (Maryland Geological Survey) and Jeffrey Adams (National Oceanic and Atmospheric Administration)

2:10 – 2:30 pm GIS Jambalaya: Updates on FGS Projects and Activities  
By Seth Bassett, Rick Green, and Katherine White (Florida Geological Survey)

2:30 – 2:50 pm Potential methods for comprehensive assessment of the status of geologic mapping in the U.S.  
By Harvey Thorleifson (Minnesota Geological Survey)

2:50 – 3:20 pm Coffee break

3:20 – 4:10 pm Presentation and discussion on Esri software and methods  
By Stephen Zahniser (Esri)

4:10 – 5:00 pm Discussion Session – Where’s the authoritative copy of each part of each publication?  
Have you ever searched online for a publication, only to find multiple copies of it at various websites, in various conditions of quality and completeness (e.g., this site offers only the plates, that site offers only the pamphlet...)? This has been our experience within the NGMDB project, and so we’ve held discussions with other USGS entities (e.g., the Library and the Publications Warehouse) regarding whether we could coordinate development of a "scan status" database that would track the location, quality, and provider of each Publication, and of each "part" of a publication (e.g., each plate, each "tipout", each chapter, and so forth). Does your agency have a Scan Status Database? Do you have suggestions on how one might be developed and maintained, within or amongst agencies?
**Wednesday, May 23**

8:00 – 8:30 am  *Coffee and pastries*

8:30 – 8:50 am  Status of DMT Data Stewardship Committee activities
By Mark Yacucci (Illinois State Geological Survey)

8:50 – 11:30 am  Informal discussion period, for new topics, or issues raised during the meeting, or to continue any of the formal Discussion Sessions. Short, informal presentations are welcome. At previous DMT meetings, the Wednesday morning wind-down session has been a useful time for reaching consensus on technical issues, and for examining difficult issues facing us all.

11:30 – 12:00 pm  *Plans for future DMT meetings, etc., and adjourn meeting.*
POSTER PRESENTATIONS:
(listed alphabetically, by agency)

Interested in a National Park’s Geology? We have Something for Everyone from Geo-Tourists to Serious Scientists!
By Ronald D. Karpilo, Jr., Stephanie A. O’Meara, Trista L. Thornberry-Ehrlich, Dalton L. Meyer, James R. Chappell, and James R. H. Winter (Colorado State University and the National Park Service Geologic Resources Inventory)

Relative elevation model of the Ohio River in northern Kentucky
By Max Hammond (Kentucky Geological Survey)

Insight from the statistics of nothing: estimating limits of change detection using inferred no-change areas in DEM difference maps and application to landslide hazard studies
By Bill Haneberg (Kentucky Geological Survey)

Implementation of a team-based workflow and multiuser ArcSDE geodatabase for internally consistent 1:24,000-scale geologic mapping of Boone, Kenton, and Campbell Counties, northern Kentucky
By Matthew Massey, Doug Curl, and William Andrews (Kentucky Geological Survey)

Creating Geologically Based Radon Potential Maps for Kentucky
By Bethany Overfield, Ellen Hahn, Amanda Wiggins, William Andrews (Kentucky Geological Survey)

Ohio’s Seamless, Surficial Geology Map and Database: Progress and Methods
By Douglas J. Aden and J.D. Stucker (Ohio Geological Survey)

Updating the Oregon Geologic Data Standard
By Lina Ma (Oregon Department of Geology and Mineral Industries)

Updating the USGS NCRDS database
By Joseph East, Andy Park, and Mark Reidy (U.S. Geological Survey)

Progress report on multi-scaled geologic and GIS-based innovations in new geologic mapping of the lower Colorado River Corridor, southwest USA
By P. Kyle House, Tracey J. Felger, and Ryan S. Crow (U.S. Geological Survey)

Building the geologic content database (GeMS format)
By National Geologic Map Database project

GeMS (NCGMP09 v.2) – Standard format for geologic map publications
By National Geologic Map Database project

Where's the authoritative copy of each part of each publication?
By National Geologic Map Database project

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)

Maps of properties of Quaternary sediments and aquifers in the glaciated conterminous United States

StraboSpot: A new geologic data collection system
By Emily Bunse (University of Kansas), Basil Tikoff (University of Wisconsin- Madison), Douglas Walker (University of Kansas), Julie Newman (Texas A&M University), and Jason Ash and Jessica Good (University of Kansas)

Archiving Data at the Wyoming State Geological Survey
By Phyllis Ranz (Wyoming State Geological Survey)