3rd European meeting on 3D geological modelling
Roncalli Haus, Wiesbaden, Germany, June 16th and 17th, 2016

Agenda

Thursday, June 16th

08:00 Registration and Welcome Coffee

08:30 Opening & Introduction; Welcome Address: Fred Rosenberg (head of dept. Geology HLNUG)

08:45 Country Overviews & Highlights (5 min each, in alphabetical order of country code):

10:00 Session 1: Model storage management and delivery (versioning, metadata and quality, dissemination and visualization):
   Ben Wood & Martin Nayembil (BGS): Management of 3D geological models at the BGS.
   Markus Hölzner (BGR): Versioning and data management in decades-lasting projects.
   Zbigniew Małolepszy (PGI): 3D regional geological modelling in Poland.

10:45 Coffee Break

11:15 Session 1 cont. & wrap-up:
   Pieter de Graef (Geosparc): Using (hydro) geological models in the DOV web portal.
   Marianne Wiese (GEUS): A conceptual data model for 3D geological data and testing databases and transformations with real data.
   Paul Gabriel (Giga infosystems): New applications and projects with GST. Technology for today’s and tomorrow’s problems.
   Torsten Agemar (LIAG): Data management and visualisation of 3D-objects in the Geothermal Information System GeotIS.
   Discussion and wrap-up of session 1, constitution of afternoon breakout session (if required)

12:30 Lunch

13:30 Session 2: Model interoperability and standards (incl. data models, INSPIRE compliance and an update of relevant EU/trans-border initiatives):
   Maryke den Dulk (TNO): 3D Modelling based on 2D seismic data: application to Belgium-Dutch cross-border hydrogeological projects.
   Ronald Vernes (TNO) & Jef Deckers (VITO): The H3O-project: closing the gap between our nationwide (hydro)geological models.
   Mickaël Beaufils & Christelle Loiselet (BRGM): Raising multiscale 3D geological models interoperability.
   Michiel van der Meulen (TNO): An update of 3D relevant EU projects and initiatives.
   Discussion and wrap-up of session 2, constitution of breakout session (if required)
15:00 Coffee Break

15:30 Open discussion & breakout sessions

17:00 Live demonstrations (multiplex / multi-station demonstrations, scheduling by arrangement) in alphabetical order of institution acronym:
- Tanya Richmond (BGS): Groundhog desktop application;
- Christelle Loiselet & Gabriel Courrioux (BRGM): BRGM geological modelling tool GDM-Multilayer.
- Sebastian Pflieider (GBA): The 3D geological model viewer of the Austrian Geological Survey.
- Katrien de Nil (DOV): DOV as Flanders webportal for 3D geological data online.
- Christian Brogaard Pedersen (GEUS): Geothermal potential in Denmark, a website showing geology in 3D.
- Paul Gabriel & Jan Gietzel (GiGa infosystems): Web based interactive 3d model inspection with the new features of GST 2.9.
- Torben Bach (I-GIS): Cloud based 3D geological modelling - fast access to your data;
- Zbigniew Malolepszy (PGI): Web-based delivery of 3D geological models. Demonstration of simple and intuitive viewer tool for sharing geological models.
- Harry Middelburg (TNO): Browser based interactive 3D visualisation of layer and voxel models - from object to volume rendering.

Friday, June 17th

08:00 Coffee

08:30 Session 3: Model use and applications (esp. cross-domain use cases eg. in the urban environment, BIM, groundwater and environmental management):
- Keith Turner (CSM) & Holger Kessler (BGS): Applying 3D Geological Modeling to Infrastructure Design.
- Torben Bach (I-GIS): From 3D data to 3D model - AI based fast 3D modelling of AEM data.
- Gabriel Courrioux (BRGM): From 2D maps to 3D modelling: much more than “just one more dimension”.
- Jonatan Ford (BGS): The UK's National Geological Model - recent developments, current applications and demands for further enhancement.
- Hein Raat (TNO): Status update on GeoTop, a 3D voxel model of the Netherlands.
- Ines Görz (TU BAF): Need for flexible volume meshing of a 3D surface model

10:00 Coffee Break

10:30 Session 3 cont. & wrap-up:
- Eva Jirner (SGU): 3-D geological modelling of the Uppsala Esker - a tool for analysis of Uppsala's drinking water source.
- Stefan Volken (swisstopo): GeoQuat: developing a system for the sustainable management, 3D modelling and application (hydrogeology, geotechnics, raw materials) of Quaternary deposit data.
- Rouwen Lehné (HLNUG): A geological 3D-information system for subsurface planning in urban areas - case study Darmstadt (Hesse, Germany).
- Discussion and wrap-up of session 3, conclusions of the workshop & farewell

12:30 Lunch & further networking

13:15 End of event