[4th European Meeting on 3D Geological Modelling]

Wednesday 21 I	FEBRUARY		
8h30 - 12h	Welcome coffee & registrations & poster installation	Argonr	ne : 5 groups of 20 persons
	LIDAR demo in the quarry	Dupanloup :	
12h30 - 14h	Lunch break	130	
14h00-15h40	Session 1 talk	130	Chairmen :
	Countries update		
15h40-16h10	Coffee break	130	
16h10 – 17h30	Session 2 talk	130	Chairmen :
	European & International projects		
18h00- 20h	Ice Breaker	130	
Thursday 22 FEBRUARY			
8h30 – 10h	Session 3 talk	130	Chairmen
	3D Models Storing, Updating & Delivering		
10h - 10h30	Coffee break	130	
10h30 – 12h00	Session 4 talk	130	Chairmen
	Geological data management for 3D models Development initiatives		
	Development initiatives		
12h 00 – 13h30	Lunch break	130	
13h30 – 15h30	Session 5 talk	130	Chairmen
	The 3D geological modeling value chain		
15h30 -16h00	Coffee break	130	
16h00 – 18h00	POSTER session	130	Chairmen
101100 101100		150	
19h30 – 00h	Repas du soir : Garden Ice	130	
Friday 23 FEBRU	ARY		
8h30 – 10h	Session 6 talk	130	Chairmen
	3D geological modelling - Case studies	130	
10h - 10h30	Coffee break	130	
10h30 – 12h30	Session 7 talk	130	Chairmen
	Urban geology		
12h 30 – 13h30	Lunch break	100	
		_00	



Wednesday

Wednesday 14h-15h40 (10*10)

Countries update

- Introduction + Country update France Toulhoat Pierre (Intro + France country update) 20 minutes
- Country update Germany Diepolder Gerold Country Overview Germany •
- Country update Czech Republic Franěk Jan- New advances in 3D geological modelling at the Czech geological survey
- Country update Finland Kohonen Jarmo Steps towards a National Geological 3D-framework of Finland
- Country update Poland Szynkaruk Ewa Poland country update •
- Country update Netherland van der Meulen Michiel Systematic 3D modelling at the Geological Survey of the Netherlands country update ٠
- Country update Switzerland Wehrens Philip and Volken et al.- GeoQuat project: Semi-automated 3D voxel modelling of Quaternary deposits and post-products generation •
- Country update Belgium Deckers et al. A new coherent 3D fault and (hydro)geological layer model for the eastern part of Flanders (Belgium) from the lower Carboniferous strata up to the ٠ surface
- Country update UK Kessler Holger Country Overview BGS

Wednesday 16h10 – 17h30 (4* 20 min)

European & International projects

- Visual3D A European network of infrastructure with focus on 3D/4D geomodelling Kampmann et al. Luleå University of Technology
- Towards a European Fault Database storage of 2D and 3D faults and properties Ten Veen et al. TNO •
- Alberta's 3D Geological Framework: Enhancing Science-Based Decision Making and Communication of Complex Geoscience Information to Stakeholders MacCormack et al. Alberta Geological Survey / Alberta Energy Regulator
- Geological Mapping in the USA Thorleifson et al. University of Minnesota

Thursday

Thursday AM 8h30-10h (6*15 min)

3D Models Storing, Updating & Delivering

- How Geological Architecture Helps 3D Modelling Calcagno et al. BRGM
- Storing and delivering numerical geological models on demand Loiselet et al. BRGM
- Efficient management of 3d subsurface models and its metadata Gabriel et al. GiGa infosystems GmbH •
- Increasing the usability of 3D geological models through applying user-centered design principles Bang-Kittilsen Geol. Survey of Norway
- Examples of how 3D models are used for protecting and managing groundwater resources- Jirner et al. Geol. survey of Sweden

• Advancements in cloud based visualisation of geological models – Kessler and Lipke - BGS

Thursday 10h30-12h (6*15 min)

Geological data management for 3D models

- Vel-IO 3D: a recipe for 3D management of velocity data and time-depth conversion D'Ambroghi et al. Geological Survey of Italy
- RESQML V2.2 How the Geomodeling community can take benefit of this standard to exchange between Geomodeling Software Rainaud et al. GEOSIRIS SAS

Development initiatives

- BGS Groundhog a useful tool for the digital subsurface Wood et al. BGS
- RINGMesh: An open source data model for integrative numerical geology Bonneau et al. RING GeoRessources ASGA Université de Lorraine
- 3D implicit GeoStructural Simulator: On the inversion of geological data to build 3D models Aillères et al. Monash University
- Probabilistic Geomodelling and Geological Inference Wellman et al. RWTH Aachen University

Thursday 13h30-15h30 (8*15 min)

The 3D geological modeling value chain

- Overview of R&D on 3D Geological Modelling at BRGM Courrioux et al. BRGM
- Collaborative 3D modelling: Hidden pitfalls A case study from Switzerland Baumberger et al. Swisstopo •
- Framework for modelling national scale 3D geological models Hillier et al. Geol. Survey Canada
- The harmonized 3D modelling workflow for shallow geothermal use in Central Europe: An important deliverable of the GeoPLASMA-CE project Goerz et al. Saxon Geological Survey
- Visual KARSYS, a web-platform for the documentation of karst aquifers including online geological modelling Malard et al. ISSKA ٠
- Bringing an outcrop back to the office: which methods and what to do with it? Dewez et al. BRGM
- Digging into 3D geological model Dewez et al. BRGM
- 15h15 15h30 : Presentation of the poster session & live-demo

POSTER SESSIONS (27)

- Benagoune Farouk Contribution of 3D geological modeling in decrypting complex geological settings of water springs, Eastern Algerian area. • Mr
- Ms Bialkowski Anne 3D geological modeling of the superficial formations, practical applications
- Bonneau Francois RING: Toward stochastic and multiscale geomodeling • Mr
- Mr Corti Luca 3D fabric domains estimation in the eclogitised continental crust of the Sesia Lanzo Zone (Mt. Mucrone area, Western Alps)
- de la Varga Miguel GemPy: Model based machine learning in geological modelling • Mr
- de Mesquita L Veloso Fernanda Lorraine Basin Case Study: how to represent complex geology of coal seams with GeoModeller • Ms
- Fitzgerald Des 3D Geological Uncertainty – using Google Protocol Buffers for automation • Mr
- Garcia-CrespoJesus Geological Modelling of the Lopín structure, Ebro Basin (Spain) • Mr
- GibsonHelen How to compute and deliver the uncertainties associated to models ? Advances Presented (FitzGerald/Gibson) • Ms
- Goerne Sascha 3D seismics in crystalline rocks: challenges of interpretation and 3D modelling (case study: deep geothermal research borehole) Mr ٠
- Uncertainties in geo- and hydrogeological 3D layer models as integral part of modelling procedures Hummelman Jan • Mr
- Benoit Paleogeography Facies simulation of the Albian of the Paris Basin • Mr Issautier

- Ms Kondrova Lucie Metadata for 3D Geological Models and Their Coherence with the Semantic Web
- Le Guern • Ms Cécile Urban 3D modelling: a typology of anthropogenic deposits to anticipate pollution issues
- Ms Maljers Denise Yes, we need to integrate our subsurface models! •
- Mr Menzer Lionel 3D geological modelling of a salt-rich inverted rift system : the case of eastern Corbieres
- Ogunfolabo Taofeek Petrophysics and Sequence Stratigraphic analyses • Mr
- Pluemacher Joachim 3D geological modelling as a standard application in mining • Mr
- Ms Richmond Tanya BGS Groundhog Desktop
- Švagera Ondřej 3D outcrop models and their benefits Mr •
- Tomaszczyk Marta Using high resolution DEM from LIDAR data in surface-based 3D geological modelling. • Ms
- Mr van Haren Tom A 3D voxel model of Pleistocene gravel and sand deposits in Flanders (Belgium)
- Wehrens Philip GeoQuat project: Semi-automated 3D voxel modelling of Quaternary deposits and post-products generation Mr •
- Wood Ben Development of BGS Groundhog software with GTK for use in hydrogeological investigations and environmental monitoring in Finland • Mr
- Yven Beatrice to be defined-٠ Ms
- Mr Zehner Björn An approach and implementation for the management of diverse geoscientific data ٠
- Zuffetti Chiara Geological constraints to model complex hydrostratigraphy: case studies from the Quaternary Po Hydrogeological Basin (Northern Italy) • Ms
- Żuk Tomasz Analogue study of the Permian fanglomerates based on pseudo-3D GPR data from the Zygmuntówka quarry, Checiny, South Poland ٠ Mr

Friday

Friday AM

3D geological modelling - Case studies 8h30-10h (6*15 min)

- The first step to a 3D model of the North German Basin The TUNB "Pilotregion" Steuer et al. BGR
- 3D distribution of groundwater salinity as derived from airborne EM and a stochastic geological model Dabekaussen et al. TNO ٠
- 3D Geological modelling and gravity inversion of a structurally complex carbonate area: Application for karstified massif localization Husson et al. BRGM
- Coupling of GeoModeller and FEFLOW : A Case Study with demonstration Tunisian Groundwater challenges addressed Hassen and Gibson et al.- Intrepid-Geophysics
- Reservoir Heterogeneity and modeling of the Oolithe Blanche (Dogger of the Paris Basin) Issautier et al. BRGM •
- Geological modelling of the El Golfo multi-event landslide (El Hierro Island, Canary Archipelago) Garcia-Crespo et al. IGME

Urban geology 10h30-12h30 (8*15 min)

- A role to play for geological surveys in urban information platforms? Robida et al. BRGM
- Putting our models to work: Applications of 3D voxel models in real life situations Stafleu et al. TNO
- Modeling gypsum thickness in order to evaluate collapse hazard in Paris area Bourgine et al. BRGM
- The use of 3-D models to manage the groundwater resources of the Lower Greensand aquifer, Hertfordshire and North London, England – Cripps et al. - BGS
- 3D geological reconstructions for the development of geothematic layers useful for urban planning: El Papiol case study (Barcelona Metropolitan Area) Pi Juan et al. ICGC
- BIM and GIS : Excavated Material Management Beaudouin et al. SYSTRA •
- Supporting BIM by integrated geological 3D-modeling of urban underground- case study Darmstadt, Hesse, Germany Lehné et al. HLNUG
- Setting interoperability between BIM and Geological Modeling: Feedback from the French MINnD UC8 project Beaufils et al. BRGM