

GeoModeller

Software training - GeoModeller V4.0



This two-day course offered by Intrepid Geophysics (co-hosted by DHI-WASY) will cover introductory concepts of 3D geology model-building and forward geophysical modelling, plus GeoModeller V4.0 new features, including meshing exports for flow simulation modellers using FEFLOW software

Day One – 19th February (model building & geophysics focus)

- PowerPoint-1: Overview of core software capability GeoModeller
- Demonstration: New Navigation panel and downloading resources from GitHub
- Demonstration (Mansfield #1): Rapid construction of a geo-located geology model of the 'Mansfield Syncline' constrained by drilling and surface mapping
- PowerPoint-2: Building faults in GeoModeller
- Exercise (Mansfield #2): Adding finite and infinite faults in the western limb of the syncline
- Exercise (Mansfield #3): Improve the model by geo-locating a regional cross-section image [Section-CDE] and digitizing additional geology/dip data, & Re-compute.
- PowerPoint-3: Introduction to forward geophysical modelling in GeoModeller
- Exercise (Tutorial C): Geophysical Forward Modelling directly from 3D geology. And Focus on geophysics visualization in GeoModeller.
- Demonstration: Integrate your 2.5D airborne EM inversion results (from MOKSHA) for model-building in GeoModeller
- PowerPoint-4: What else is New in GeoModeller v4.0 !

Day Two – 20th February (mesh export & flow simulation focus)

- PowerPoint-5: Tunisia Case Study: groundwater modelling
- PowerPoint-6 Focus on meshing
- Meshing exercise #1: Fill FEFLOW centroids with geological attributes from a GeoModeller model. Two ways: for layered or fully unstructured meshes
- Meshing exercise #2: Prism a FEFLOW triangulation for creating a layered mesh
- Meshing exercise #3: Direct export of a prised triangulation of topography from GeoModeller
- Meshing exercise #4: Direct export of a GeoModeller fully unstructured mesh

Afternoon: FEFLOW software coupling exercises

- Focus on meshing exercises, moving into the FEFLOW environment, and including set-up of simple simulation exercises.
- 4.45 to 5pm Discussion and close of training

DATE AND TIME

Mon-Tues: 19-20th February 2018
Start time: 9:00am (arrive 8.45am)
End time: 5:00pm

LOCATION AND VENUE

BRGM, Orléans
(final venue to be confirmed)

FEES (Students at 50% DISCOUNT)

One day (either day): € 320
Two days: € 450

INCLUDED AND REQUIRED

30-day software licences, handouts, example datasets and models.
Bring your own PC Laptop

LANGUAGE : English

REGISTRATIONS

All Registrations via Elise Wade, Intrepid:
sales@Intrepid-geophysics.com

INSTRUCTORS (Orléans)



Helen Gibson [CV link](#)

Geologist and Technical Sales Manager with Intrepid Geophysics



Gabriel Courrioux [CV link](#)

Senior Researcher, Georesources, BRGM



Fabien Cornaton [CV link](#)

Scientist / Engineer DHI-WASY GROUP

FURTHER GEOMODELLER TRAINING

(repeat agenda) See [Training Calendar](#)

Next training dates and venues:

- **March 2018, Perth Australia**
(date and venue to be confirmed)

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