

SGA



**13TH SGA BIENNIAL MEETING
NANCY – FRANCE
24-27 AUGUST 2015**

WORKSHOP 6

Modeling mineral deposits in 3&4D

3 days - Pre-conference - 21th to 23th of August
Jean-Jacques ROYER royer@gocad.org - Gervais PERRON

Venue: Ecole Nationale Supérieure de Géologie (ENSG), Bât. G, 2 Rue du Doyen Marcel Roubault
- TSA 70605 – F-54518 Vandœuvre-les-Nancy Cedex, France

Duration: 3 days - 21th to 23th of August 2015

Leaders: Jean-Jacques ROYER, CNRS-GeoRessources-ENSG and Gervais PERRON, Mira Geoscience

Attendants: 20-40

Registration deadline: 31th of Mai 2015

Price: covers courses, lunch (22th and 23th of August 2015), break refreshments and documents)
SGA student member/non-member: 100€ / 150€
SGA member /non-member: 300 € / 400 €

This workshop is designed for geoscientists involved in characterizing and evaluating mineral resources using integrated 3D computer earth models. The program will introduce participants to geological modeling, target assessment, and deposit model building by combining and interpreting data from different geo-scientific disciplines (e.g. geology, geophysics and geochemistry). Notions of geological interpretation (rock classification, surface to sub-surface reconciliation, scale issues), structural modeling including faults, fractures and deformation modes, 3D geological model building (implicit and explicit methods), geophysical inversions (potential fields, electrical and EM methods, constrained and lithology-based scenarios), reserve estimation and structural history (3D/4D models based on restoration techniques) will be reviewed. A number of cases studies will be selected from different areas to illustrate the concepts addressed in the course. The participants will practice on the computer using gOcad and various plug-ins developed by Mira geo-science and the gOcad consortium.