

Implicit Modelling

A Practical Workshop

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Modelling of structurally complex deposits using classic explicit modelling techniques is a complicated process and often results in models that represent a poor compromise between the underlying dataset and the modellers interpretation.

Used correctly, implicit modelling provides a great opportunity to build simple or complex models effectively and allows updates to be made dynamically to incorporate updates in the underlying dataset.

COURSE SUMMARY

Implicit Modelling techniques have become the industry standard for geological surface modelling over the last decade. Improved time-efficiency, more realistic shapes of geological features and revolutionary user-friendly interfaces are among the reasons for the success and rapid take-up of Implicit Modelling.

This 5-day practical workshop (2-day Basic Module for a wide technical audience and 3-day Advanced Geology Module) focuses on developing a deeper understanding of key principles and algorithms that underlie Implicit Modelling. The presentation describes the technology behind Implicit Modelling and aim to help develop the necessary skills to build complex geological models that can provide a robust basis for a spectrum of mining-related studies.

This workshop is largely practical and will utilise real geological data. The hidden pitfalls and challenges associated with Implicit Modelling techniques application will be addressed and resolved.

The course will consist of presentations and supervised practical work carried out by the participants.

The main course software is Leapfrog GEO.

BASIC MODULE

The 2-day Basic Module introduces all necessary skills related to implicit modelling techniques and is aimed at a wide range of professionals faced with the need to build complex geometrical shape domains and boundaries based on diversified data types derived from wide range of mining disciplines. This module is designed for geologists, mining engineers, geotechnical engineers and hydrogeologists.

ADVANCED GEOLOGY MODULE

The 3-day Advanced Geology Module is focused on the application of implicit techniques in geological modelling and is aimed primarily at exploration and resource geologists. This module will also provide

several advanced techniques for "special cases" such as internal waste modelling, narrow vein deposits etc.

No previous knowledge is required for Basic Module. Basic Module knowledge is required for Advanced Geology Module.

The provisional workshop schedule is as follows*

Modules Schedule	
	Title
Basic Module	
Day 1	Principles of Implicit Modelling
	1 Introduction and theoretical basics of implicit modelling
	2 Review of software with implicit modelling tools
	3 The three implicit modelling methods
Day 2	Domain and Boundary modelling
	4 Base principles of implicit geometry
	5 Defining a structural trend
	6 Boundary modelling (faults, contacts etc.)
	7 Domain modelling (geological and geotechnical)
	8 Conclusions
Advanced Geology Module	
Day 3	Grade interpolation and Volume points in geological modelling
	9 The drillhole database and compositing
	10 Defining the structural trend of the deposit
	11 Modelling methodology (step-by-step) <ul style="list-style-type: none"> • Grade interpolation • Volume points modelling
Day 4	Manual Lithological and Ore zone modelling
	12 Modelling methodology (step-by-step, cont.) <ul style="list-style-type: none"> • contact points boundaries
	13 Fault modelling
	14 Block modelling
Day 5	Workshop for mineralisation zone modelling, combination of different methods and advanced modelling techniques

*SRK reserves the right to modify the workshop running-order and content as appropriate.

REGISTRATION FORM

Attendees are kindly requested to register by completing the form and returning to SRK via email: amitrofanov@srknordic.com

REGISTRATION

SRK invites interested parties to register for this workshop by completing the information overleaf and returning this form to SRK before 5th March, 2016.

SRK will subsequently confirm registration and invoice all companies (or individuals) registered for the full workshop fees.

FEES

Workshop fee: EUR 1 200 (+VAT) for 2 days (Basic Module) and EUR 1 800 (+VAT) for 3 days (Advanced Geology Module). Total: EUR 3 000 (+VAT) per attendee.

Discount for early bird registration before February 10th: EUR 1 000 (+VAT) for 2 days (Basic) and EUR 1 500 (+VAT) for 3 days (Advanced Geology Module). Total: EUR 2 500 (+VAT) per attendee.

Students fee: EUR 600 (+VAT) for 2 days (Basic Module) and EUR 900 (+VAT) for 3 days (Advanced Geology Module). Total: EUR 1 500 (+VAT) per attendee.

The fee includes: workshop attendance, temporary Leapfrog license, course materials (digital form), lunch and coffee breaks with snacks.

Attendees are requested to complete registration details below.

** denotes mandatory field*

Name*	Position*	Email*	Basic*	Advanced*
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Organisation*

Nominated contact person*

Mine/Department

Company Address*

Invoicing address if different:

Invoicing Address

Country*

Country*

Phone*

Mobile

Fax

Sends this form to your default printer

Attaches this form to your default email application with email address completed