# Using Leapfrog Geo – an introduction to modelling data in 3D

**2-day short course,** 1 - 2 April 2022, delivered by Zoom

## AIM OF THE SHORT COURSE

To help attendees develop the confidence and understanding to commence modelling spatial data using Seequent's Leapfrog Geo software.

## SHORT COURSE DESCRIPTION

**This is an introductory course for people who have not used Leapfrog Geo before (or have forgotten how to use it).** *If you are already a user of this software this course is not for you.*
Prior experience in 3D modelling software is not required.
We will use the current version of the software in the training with licences provided by Seequent.
The course will run over 2 days (1-2nd April) with a 4-hour zoom session each day – regular breaks will be included in the program.
Additionally, a set of instructional videos will be made available to attendees ~2 weeks before and after the course for online viewing. They will demonstrate the workflows and content of the course in further detail. All course zoom sessions will be recorded for attendee playback on demand for a 2-week period after the course.
Given this is only 8 hours of face-to-face zoom content it won't teach you everything about the software, but you will start along the pathway! The objective is to allow you to start producing models and to begin improving model outcomes through understanding the 'why and how' of geological control available within the software.
Both 4-hour sessions follow the same content outline and workflow plan – repetition is a key to learning software and building your confidence. The difference between each session is datasets – a simple introductory dataset will be used to start with on day one then a more complex real-world (and very NZ flavoured) dataset to follow up with – choice!

The intended functional content of the course is below.

|   | Topic | Comment |
|---|---|---|
| 1 | Introduction to Leapfrog Geo (LFG) | What LFG is and does / what happens in the background |
| 2 | The software interface | Main features and user setup |
| 3 | Load and validate data | importing data from csv tables; finding/fixing errors |
| 4 | Display options for drill data | changing colours, appearance, selective display |
| 5 | Filter, merge and compare data | select and merge your numeric and categorical data |
| 6 | Modelling categorical data | modelling categories in a geological model / solid vs surface models |

| 7 | Isotropic vs anisotropic modelling | blobs vs trends - why, when, where, how |
|---|---|---|
| 8 | Slicing and dicing | slicing and other viewing options for objects |
| 9 | Modelling numeric data | numerical modelling options and processes / anisotropy |
| 10 | Hybrid modelling and evaluations | combining methods and visualising model interactions |
| 11 | Scenes and movies | Exporting content for non-users.. |

**System requirements:**
Each attendee will need suitable system specifications and <u>DUAL SCREENS</u> to adequately undertake the training.
Check your system suitability here; https://www.seequent.com/help-support/system-requirements/leapfrog3d/

## PRESENTER

**Dale Sims**
Dale started his geology career in 1983 in diamond exploration with CRAE in the NT then moved to underground mining geology, resource development and near mine exploration at the Isa for a decade. Shifting to gold he joined Normandy Mining in 1997 at Pajingo thence to a corporate role in 2001 assisting the Group Chief Operations Geologist as an internal technical specialist in mining geology and modelling, a role which included work at the Martha Pit / the Favona feasibility study and at the Midas mine in Nevada. The Newmont merger saw Dale increase his international work in the Americas, Indonesia and Ghana including a roll-out of a company-wide Resource and Reserve auditing scheme. He joined Newcrest in 2006 to be the Geology Manager at Gosowong goldmine to commission the Kencana underground project and then moved into a corporate role in then Melbourne then Brisbane offices. Resigning from Newcrest in 2010 Dale commenced independent geological consulting work which he continues to the present day specialising in mining geology site support, Resource estimation / project reviews and Leapfrog training / staff development. He also runs a beef cattle /alpaca farm and mucks about on sailboats. He is also the current AIG President and has been active with AusIMM including time as a Director 2013-2019.
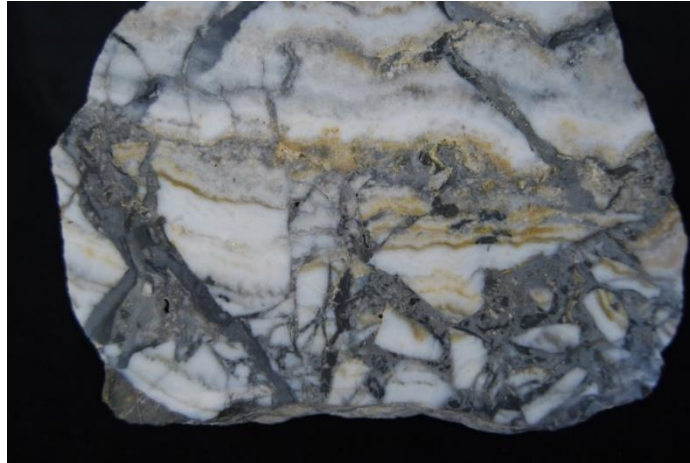
## FEES

$240 for members, $280 for non-members, $100 for student or retired members and $120 for student or retired non-members. Register at https://confer.eventsair.com/sga2022/registration

## FURTHER INFORMATION

Email Dale Sims at dalesims@tpg.com.au

**GALLERY**

The surprise NZ dataset has rocks that look a bit like this;







Thanks to Tony Christie for these images.