

Hands on Reservoir Simulation

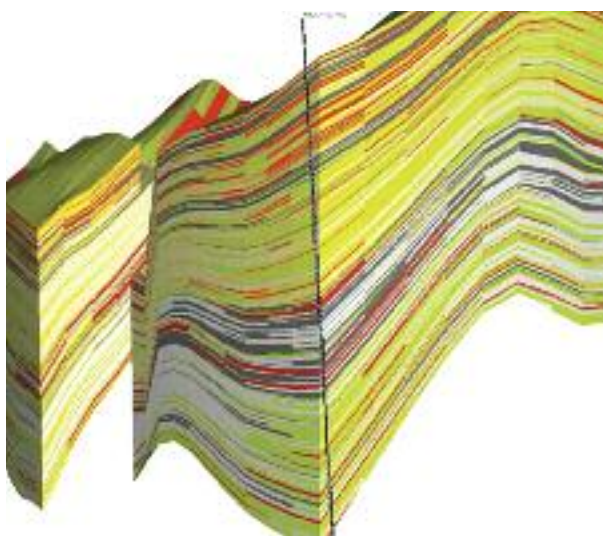
Aims

This short course will give participants a hands-on insight into the practical methods and pitfalls in building and running a reservoir model.

Benefits

At the end of the course students will:

- be familiar with simulation vocabulary
- know data input requirements
- understand how simulators work
- know what output is available
- be able to run an existing model competently



Who should attend?

Reservoir engineers new to simulation and petroleum engineers who work with simulation input and output. Geoscientists, petrophysicists and facilities engineers who require an understanding of reservoir engineering and simulation would benefit. It is also suitable for technical managers.

Duration

○ 1 day

Course Instructor

Andrew Thomson is the founder of Reservoir Management Ltd (now part of Senergy) which was set up in 1990 and is currently the Chief Executive of Senergy Investments. He has nearly 30 years hands-on experience, with an extremely strong background in reservoir management, based on experience working as a petroleum, reservoir and operations engineer. He has played a central role in projects on pre-development, development and mature fields, both operated and joint venture. He has extensive working knowledge of the use and application of industry standard reservoir simulation packages. Andrew specialises in acquisitions, disposals and due diligence exercises and has conducted a large number of high level evaluations as well as providing technical input. He is a Competent Reserves Person under London Stock Exchange (LSE) Chapter 19 rules.

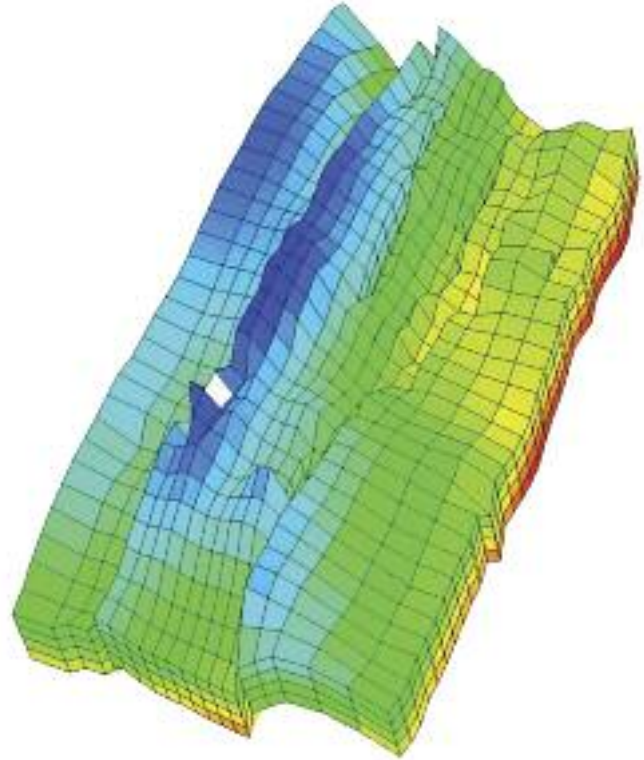
Mike Trees has over 30 years experience gained as a geophysicist, technical team leader and manager working for both major and independent oil companies. He has played a central role in projects on pre-development, development and mature fields, both operated and joint venture. He has extensive working knowledge of the use and application of industry standard geoscience packages. Mike is currently Technical Director of Senergy Investments.

Course Description

This practical course is divided into four structured sessions:

- simulation overview - the work flow process, model types (black oil, compositional, etc), common vocabulary, data requirements and output choices
- grid construction
- model initialisation - a practical session using Eclipse covering initialisation and basic model quality checks
- history matching and predictions - an exercise to match a DST and optimise a small field development

On the course participants are paired, with each duo sharing a workstation running Schlumberger Eclipse software. Students are taught from a bottom-up command line interface (keyword) level rather than graphical (GUI) interfaces, to promote genuine understanding of the processes involved. This focused and hands-on approach is rare in simulation training and has proven highly effective in past course offerings. The course can be also be offered on Landmark VIP products.



To book this course, please contact **Sarah McPhee** - Training Co-ordinator
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