



Resource Estimation 2010

Location:	Date:
PERTH	22-26 March
	28 June - 2 July
	18-22 Oct
INDIA	10-14 May
RUSSIA	21-25 June
BALI	2 - 6 August

This 4-day course and 1-day workshop gives a clear understanding of the resource estimation process from interpretation through to classification. Through presentations, case studies and practical activities using real data, it aims to provide the skills required to carry out basic resource estimates for the exploration and mining industry. The facilitated workshop will help you apply your course knowledge to projects and will fast-forward your exposure to a variety of resource estimation problems.

Participants will:

- Gain an overview of the resource estimation process
- Learn how to describe data using statistics
- Acquire an understanding of the fundamentals of resource estimation and how to apply them in practical estimation situations
- Learn the requirements for resource classification and how to practically apply them

Course Content:

The course covers the entire resource estimation process including:

- An overview of the resource estimation process
- The fundamentals of resource estimation
- The importance of geology and domaining
- Data validation and analysis
- Variography
- Methods of estimation, including inverse distance and ordinary kriging
- Model validation techniques
- Practical resource classification
- An introduction to advanced estimation techniques

The fifth day of the course is a highly interactive, facilitated workshop that brings together the knowledge of the first four days as real-life case studies and attendees' resource estimation problems are brainstormed and analysed. This workshop will fast-forward your exposure to a variety of resource estimation problems and teach you:

- How to apply your course knowledge to projects
- To define and analyse technical information and problems
- To apply problem solving skills to technical issues
- How to map improvements
- To action plan solutions to your resource estimation problems

Delegates are encouraged to bring along data that they would like to discuss.



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Who should attend?

This course is designed for geologists and mining engineers involved with or about to become involved with resource estimation.

The course assumes a basic geological knowledge but does not assume any geostatistical knowledge.

Presenters

The course presenters will be chosen from Snowden's most experienced consultants.

Michael Andrew - Divisional Manager - Geosciences Perth

BSc, Australian National University; Postgraduate Certificate in Geostatistics, Edith Cowan University; MAusIMM



Michael has over 20 years experience in the mining industry working in roles in exploration and mining throughout Australia and overseas. Prior to joining Snowden Mining in November 2003, he was employed by Newmont Australia (previously Normandy Mining) as a senior resource geologist involved in the resource estimation and optimisation of a range of commodities and deposit styles. Michael has specific experience in geostatistical resource estimation, optimisation of both open-cut and underground resources, grade control and risk assessment. Since joining Snowden, Michael has been involved in simulation risk studies, resource estimates, resource review and audits, mine valuation studies and technical training.

Richard Sulway - Principal Consultant Geosciences

MAppSC University of New South Wales, 1995 BAppSC (Hons) (Geology) University of Technology Sydney, 1990 Member, Australasian Institute of Mining & Metallurgy (MAusIMM) The Geological Society of Australia.



Richard is a geologist with more than 18 yrs experience in exploration, mining and resource estimation. Prior to joining Snowden, Richard worked as expert resource modelling consultant for Datamine mining software. Since joining Snowden, Richard has worked on a range of projects worldwide including gold, copper, iron ore and nickel laterite deposits. Richard develops and presents Snowden's technical training courses.

Lynn Olssen - Principal Consultant Geosciences

BSc (Geology), University of Western Australia; (CP) MAusIMM.



Lynn has more than 16 years experience in the mining industry. Prior to commencing work with Snowden she worked in resource evaluation and mining geology roles in Western Australia gold and copper deposits. Lynn joined Snowden in April 2002 with skills in resource estimation, reconciliation, geostatistical analysis, database quality assurance and quality control, and grade control. Since joining Snowden Lynn has worked on resource estimation projects and reviews for gold, copper, nickel, iron ore, base metals, mineral sands and platinum reef deposits around the world. She is also involved in providing resource estimation mentoring to the mining industry and is a developer and presenter of Snowden's technical courses.

Oscar Rondon - Senior Consultant and Geostatistician

PhD (Mathematics), Venezuelan Institute for Scientific Research (IVIC); MS (Geostatistics), Ecole des Mines de Paris; BS (Mathematics) (Hons), Central University, Caracas, Venezuela



Before joining Snowden in 2005, Oscar Rondon worked for 11 years in the Venezuelan national oil industry (PDVSA) as a researcher and in-house consultant. His experience includes geostatistical characterisation of petroleum reservoirs, neural networks applications in real reservoir studies, seismic guided estimation and conditional simulation of reservoir properties. Oscar is equipped with a PhD in Mathematics and Probability, a degree in Petroleum Geostatistics from the Ecole des Mines de Paris and vast working experience in the oil industry

Fees

Payment required at time of registration.

Each course costs AU\$5500 + GST for courses held in Australia.

This fee includes comprehensive course notes, refreshments and lunch.

PLEASE NOTE:

- A 5% discount is offered if paying by credit card.



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Delegate feedback

Snowden prides itself on the standard of its courses and on the quality of its presenters. Feedback from our previous course participants includes the following:

“One of the best courses I have ever taken”

“The course provided an excellent, easy-to-understand and well-presented overview of the resource estimation process”

“I found the tips and tricks for variography really valuable”

“Gave an excellent overview for advancing projects to resource stage”

“The whole course was valuable. My understanding of Resource Estimation is far greater than before”

“The facilitation day was excellent! Really helped define the practical applications of each concept highlighted in the previous 4 days”

Laptops for practical exercises

PLEASE NOTE: Attendees are please to bring their own laptops for courses.

Mentoring

Learn while working on your own data.

Snowden provides one-on-one technical mentoring to help develop your knowledge, skills and experience. Take advantage of Snowden’s 23 year knowledge and skills base to help:

- build your competence
- fast-track your technical knowledge
- assess your current capabilities
- set your professional development goals
- increase your confidence

On-site customised courses

All our courses can be customised to suit your specific training requirements and presented either on-site or at a venue of your choice. Please contact Diana Titren, Training Manager, on +61 8 9211 8670 or training@snowdengroup.com for further information.

Contact and registration

For more information on Snowden’s Training and Mentoring programmes, please contact Diana Titren, Training Division Manager, on +61 8 9211 8670 or training@snowdengroup.com

To register, please complete the following form and either fax it to Shannon Aitken, Training Coordinator, on +61 8 9322 2576 or email to training@snowdengroup.com

Please visit www.snowdengroup.com for more information about our training courses.

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