

Workshop 1:
Drafting Public Reports that Conform to the JORC Code

Presenters:

Gerry Fahey (CSA Australia and JORC Member)

Rick Rogerson (AIG Vice President and Chairman, AIG Complaints Committee)

This is a half-day, hands-on workshop aimed at improving skills in drafting technical reports, intended for investors, on mineral exploration results, resources or reserves. Under Listing Rule 5 for ASX-listed entities, such reports must comply with the Joint Ore Reserves Committee 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (JORC Code).

'Adult learning' techniques are used in the workshop. This approach requires participants to learn by actively contributing to the exercises undertaken — there is a minimum of ex cathedra presentations by the workshop facilitators. During the workshop, participants will be working on small group exercises on real public announcements containing exploration results, and estimates of resources and reserves that have been edited to remove the names of companies and individuals

Date:	Friday 25 th July 2008
Times:	9.00 am - 12.30 pm
Venue:	Perth Convention and Exhibition Centre
Participants:	Minimum 10 – Maximum 30
Cost:	\$150.00 (AUS + GST)

Workshop 2:

Crustal History and Tectonics of the Northern Tasman Orogenic Zone

Presenter: Professor Bob Henderson, James Cook

The Tasman Orogenic Zone in North Queensland is presently of interest to a range of exploration companies variously searching for gold and base metal resources linked to intrusion-related, epithermal, and VMS models of formation. Other companies actively exploring the region have interests in energy-related commodities including uranium.

Much of this exploration activity is based in Perth, involving companies that are relatively new to the region and its geology. This course provides a comprehensive overview of the crustal terranes, architecture, and tectonic context of the Tasman system north of the Tropic of Capricorn. It presents a broad scale contemporary geological framework, based on over 30 years of active research and drawing on the current literature, in which explorers can frame their exploration strategies. The course is supported by a handbook.

Date:	Sunday 20 th July 2008
Times:	9.00 am – 5.00 pm
Venue:	Perth Convention and Exhibition Centre
Participants:	Minimum 10 – Maximum 50
Cost:	\$490.00 (AUS + GST)

Workshop 3:

The Precambrian Timescale: Issues and Possible Changes

Presenters:

Martin Van Kranendonk, Geological Survey of Western Australia
David Evans, Department of Geology & Geophysics, Yale University

The Precambrian covers 4 billion years of Earth history and is currently divided on the basis of round-number approximations of major geodynamic events (except for the youngest, Ediacaran Period).

Although somewhat practical, this chronometric scheme ignores stratigraphic principles and lacks the appeal of a natural, rock-based approach, as used for the Phanerozoic Eon. An alternative approach, based on the rock record and emphasizing geobiology, is being investigated, including application of the GSSP concept to Precambrian eon and era boundaries, where possible.

This workshop aims at reviewing some possible changes to the Precambrian timescale and proposals for potential GSSPs. Interested participants are invited to attend and deliver their own views on possible Precambrian timescale boundaries at the workshop. Abstracts should be submitted to Martin Van Kranendonk, using the conference format (300 words, using template provided on conference website).

Date:	Friday 25 th July 2008
Times:	9.00 am - 12.30 pm
Venue:	Mineral House, 100 Plain Street, East Perth (opposite Hyatt Hotel)
Participants:	Minimum 10 – Maximum 30
Cost:	\$20.00 (AUS + GST)

Workshop 4:

Core Logging – Observing, Measuring and Interpreting Structural Elements

Presenter: Dr Roger Marjoribanks; Independent consultant in structural and economic geology

This is a one-day workshop involving a balance of presentations, demonstrations and hands-on exercises based on core pieces and drill sections. It aims to teach participants how to recognise, measure and most effectively record structure in drill core and cuttings. There will be discussion and demonstration on the various methods of orienting, handling and marking up core.

Structural data – however diligently observed, measured and recorded – is often left entombed in data bases and its potential to provide understanding of the ore environment underutilised. The course will help participants develop techniques and skills to overcome this problem. Throughout the day, interleaved with the important, but routine, “how to” parts of the course, are exercises in the geological interpretation of drill sections. By knowing how to place an observation made on a small piece of core into the wider context of the whole prospect, the geologist can build up a 3-D picture of the ore environment, thus turning mere data into knowledge, and facilitating prediction of ore.

The course broadly follows the AIG Handbook 5 (2nd Ed 2007) – Structural logging of drill core. A copy of the Handbook, along with a CD of the oral presentation, will be provided to each participant.

By prior arrangement with the presenter, participants may bring specimens of their own core (one tray maximum), for discussion with the group.

Because of the practical nature of the workshop, participants will be limited to 24.

Date:	Friday 25 th July 2008
Times:	9.00 am - 5.00 pm
Venue:	Perth Convention and Exhibition Centre
Participants:	Minimum 8 – Maximum 24
Cost:	\$390.00 (AUS + GST)

Workshop 5:

Earth Caching: Combining geoscience, learning and outdoor fun with the Global Positioning System and the Internet

Presenter: Greg McNamara, Education & Outreach Consultant
Geological Society of Australia

EarthCaching is a GPS-driven educational adventure game in which people are the search engine and the planet is the teacher. All you need is an internet connection and a GPS unit to get going. This workshop will introduce participants to EarthCaching, demonstrate how to set up an EarthCache, explain how GSA manages the process to protect the environment and explore how it can be used to promote geoscience to teachers, students and the general public. A local example in the adjacent landscape will be used to provide a hands-on demonstration of how it all works for the end user.

Demonstration GPS units will be supplied but participants may bring their own GPS unit.

Participants will be limited to 20 and a short walk requiring enclosed footwear is involved.

Date: Tuesday 22nd July 2008
Times: 2.30 pm – 4.30 pm
Venue: Perth Convention and Exhibition Centre
Participants: Minimum 8 – Maximum 30
Cost: \$15.00 (AUS + GST)
NOTE: Please wear enclosed footwear

Workshop 6:

Mineral prospectivity analysis and quantitative resource assessments

Presenters:

Dr Donald A. Singer is a senior research geologist with the U. S. Geological Survey.

Dr. Alok Porwal is a senior research fellow at the Centre for Exploration Targeting at UWA

Dr. Carl Knox-Robinson is the Managing Director of Spatial Analysis Services

This is a one-day workshop involving a balance of presentations, demonstrations and exercises. It aims to give participants an overview of the methods of prospectivity analysis in a GIS environment and quantitative assessment of undiscovered mineral resources.

The quantitative assessment session outlines an integrated 3-part approach to the problem of quantifying undiscovered mineral resources.

Three-part quantitative resource assessments are designed to provide decision makers with unbiased quantitative information on undiscovered mineral resources within a specific region. Their audience is a governmental or industrial policy maker, a manager of exploration, a planner of regional development, or similar decision-maker. The assessments are based on integrated mineral deposit models, which can considerably reduce assessment uncertainties. These assessments involve:

- (a) delineation of permissive tracts that may contain undiscovered deposits of a particular deposit type;
- (b) characterisation of likely grades and tonnages of undiscovered deposits by frequency distributions of well-explored deposits of the same model;
- (c) probabilistic estimation of the number of undiscovered deposits;
- (d) combining number of deposit estimates with grades and tonnages of undiscovered resources by computer simulation.

The prospectivity analysis session provides an exposition of mineral prospectivity mapping in a GIS environment, including hands-on practical implementations of a knowledge-driven fuzzy model and a data-driven weights-of-evidence model using real-world exploration datasets. Lecture notes and handouts of the implementation procedures will be provided to the participants

Mineral prospectivity analysis involves demarcation of potentially mineralised tracts based on GIS-assisted conceptual analysis or GIS-based empirical analysis of the available geo-scientific information. The procedure typically involves:

- (a) identification of essential ingredients and mappable exploration criteria for the targeted mineral deposit-type using conceptual genetic or mineral systems models.

(b) GIS-based pre-processing of the exploration data sets to extract derivative predictor maps that can proxy the mappable exploration criteria in a spatial domain.

(c) knowledge-driven (conceptual) or data-driven (empirical) prospectivity mapping in a GIS-environment and

(d) post-processing of the output prospectivity maps as decision support tools.

GIS platforms in prospectivity analysis offer several advantages. They provide customized tools for fast georeferencing, querying and manipulating different exploration datasets, which can be used to create relevant derivative predictor maps. They also support conjunctive analyses of the spatial associations between the targeted mineral deposit-type and various predictor maps, and thus can be used to integrate large exploration datasets for mineral targeting.

Because of the practical nature of the workshop, participants will be limited to 25.

Date:	Friday 25th July 2008
Times:	8.30 am - 5.30 pm
Venue:	Centre for Exploration Targeting, University of Western Australia
Participants:	Minimum 15 – Maximum 25
Cost:	\$390.00 (AUS + GST) includes light lunch and tea breaks.

Workshop 7:

Smart exploration with pre-competitive hyperspectral mineral mapping data from Queensland

Presenters:

Tom Cudahy (CSIRO Exploration and Mining),

Mal Jones (Geological Survey of Queensland),

Matilda Thomas (Geoscience Australia),

Carsten Laukamp (James Cook University) and

Mike Hussey (HyVista Corporation)

This half day course is aimed at improving skills in the use of hyperspectral mineral maps which are now beginning to be delivered through the government geosurveys as part of their pre-competitive geoscience suite. In particular, this course focuses on a mineral systems approach for effectively analysing mineral mapping data in combination with other exploration data (e.g. published geology magnetics and radiometrics). To facilitate this process, participants are encouraged to bring their laptops armed with a suitable GIS package (e.g. MapInfo or ARCGIS) so that they can load a selection of case history data. These include data from the Queensland government's recent Smart Exploration Initiative (www.em.csiro.au/NGMM) for airborne hyperspectral mineral mapping in the Mount Isa and Georgetown areas.

Date: Friday 25th July 2008

Times: AM session: 8.30AM to 12.30PM

or

PM session: 1.30PM to 5.30PM

Venue: ARRC Boardroom, 26 Dick Perry Avenue, Kensington.

Participants: Maximum 20 per session

Cost: Free