

6th International Mining Geology Conference

Provisional List of Papers

Keynote Addresses

Dr Pedro Carrasco, Technical Director, CODELCO, Chile

Dr Peter Lilly, Director, Curtin University of Technology, Australia

Mr Peter Ravenscroft, General Manager - Resource Planning, Rio Tinto, Australia

Dr Jean-Michel Rendu, Consultant, USA

A Diagnosis in Search of a Disease

P Jankowski and R Simpson

A New Geological Model for Globe Progress Mine, New Zealand

C McIntosh and L Reynolds

A Novel Framework for Generating Risk Robust Mine Designs in the Face of the Orebody Uncertainty – Selecting the Best Design

L Martinez

A Revision of the Geology, Emplacement and Diamond Grade Distribution of the Ellendale 9 Lamproite, West Kimberley Lamproite Field

A G Thamm

Attraction and Retention of Professional Geologists in a Global Yet Cyclical Industry

D Larkin

Bendigo Mine Geology – Turning Nuggets into Bars

P Quigley

Big Pays Capital, Small Makes Money

M Cameron, A Arisanov and J Barnes

Blasthole Sampling for Grade Control in the Black Star Open Cut, Mt Isa – An Investigation of Variability and Sources of Bias

H Widdup, A Jones, J Vann and Z Casley

Cause and Effect – Unravelling the Significance and Consequences of Geological Inputs into Ore Reserves and Feasibility Studies

M Berry and P McCarthy

Challenges in Geological Modelling and Resource Estimation at the George Fisher North Mine

K Grenfell and M Haydon

Data Mining Mining Data – Ordered Vector Quantisation and its Application to Mine Geotechnical Data Sets

S Fraser, P Mikula, M Lee, B Dickson and E Kinnersly

Evaluating Resource and Financial Risk at a High-Grade Underground Gold Mine

A Meakin and P Blackney

Extreme Reconciliation – A Case Study from Diavik Diamond Mine, Canada

C Morley and K Thompson

From Pitard to Practice – The Application of Sample Theory in Determining Relative Sample Error at Various Stages in a Sample Protocol

P Hissey

Geological Modelling and Geostatistics of Broken Hill Mines

J Broome, I Groves, N Carroll, J Penhall and C Mroczek

Geology and Resource Estimation at the Irumafimpa and Kora Narrow-Vein Gold-Telluride Orebodies, Papua New Guinea

L D Queen

Geostatistical Simulations of Kimberlite Orebodies and Application to Sampling Optimisation

J Deraisme and M Field

Growing the Perseverance Ni Deposit – A Successful Approach Through Collaboration in a Multi-Disciplined Team

W Clent, D Mapleson and C Stone

Improving Our Understanding of 'Basement' to Help Reduce Geological Uncertainty and More Cost Effectively Manage Geological-Related Hazards to Coal Mining

B Healy, C Woodfull and S Munroe

Influence of Geology on Confidence Intervals from Conditional Simulation

H J Glass and J E Forkes

Investigation of TiO₂ Grade Distribution in Central Block, North Anomaly Iron Ore Reserve, Bafq, Iran

B Esfandiari, M Mahvi and P Afzal

Local Scale Estimation of Sublevel Cave Stocks – Is it Possible? A Case Study in Reconciliation of Metal Production, Ridgeway Mine, NSW

G Smart and T O'Sullivan

Managing Geological Complexity – Beta Hunt Mine Kambalda, WA

A Whaanga, K Cramer and C Banasik

Mentoring Manners – Fostering Relationships to Enrich Decision-Making

J Coombes

Mineral Resource Classification – It's Time to Shoot the Spotted Dog!

P R Stephenson, A Allman, D P Carville, P T Stoker, P Mokos, J Tyrrell and R Webster

Mineralogical Face-Mapping Using Hyperspectral Scanning for Mine Mapping and Control

S J Fraser, L Whitbourn, K Yang, E Ramanaidou, P Connor, G Poropat, P Soole, P Mason, D Coward and R Phillips

Moving a Narrow-Vein High-Nugget Gold Mine into Production – The Nalunaq Mine, Southern Greenland
K Christensen, S C Dominy and J S Petersen

Multiple Resource Models
M Nugus and S Robson

Multivariate Recoverable Resources – Using a Dollar Value as Proxy for Joint Cut-Offs
A Wesson

Orebody Solid Modelling Accuracy – A Comparison Between Explicit and Implicit Modelling Techniques Using Practical Examples from the Flin Flon and Snow Lake (Canada) and Balmat (USA) Mining Districts
R H Knight

Precision and Accuracy – ‘Rules-of-Thumb’ for Grade Control
M Murphy and S Zanon

Practical Assessment of the Validity of Resource Estimation Domaining Decisions (with Examples from Ni, Pb/Zn/Ag and Coal Deposits)
M Stewart, Z Casley, M Job, G Davies, A Jones and J Vann

Practical Resource Estimation of the Henry's Hill Porphyry Copper Deposit
E Videla, C Standing, S Hackett and J Smit

Putting Geology and Engineering Back into Resource/Reserve Determination
T Briggs et al

Quality Management of Sampling and Analysis – Practical Guidelines for Mining Geologists
J Vann and D François-Bongarçon

Quantitative Geophysical Log Interpretation for Geotechnical and Geological Assessment of Coal Measure Rocks
R Sliwa, P Hatherly, T Medhurst and R Turner

Quantitative Ore Characterisation
D Burrows and Y Gu

Realistic Conversion of Resources to Reserves for Narrow Vein Mines
I Lipton

Reconciliation at KCGM Fimiston Operation
T Berryman and R McCormack

Recoverable Resource Estimation – A Comparison Between Constrained and Unconstrained High-Grade Geology Models – Anwia Gold Deposit, Southern Ashanti Gold Project, Ghana, West Africa
D Kentwell et al

Resolving Errors in a Complex Multi-Source Mine to Mill System – A Reconciliation Case Study from George Fisher Mine, Northwest Queensland
J Mascini

Resource Modelling in an Evolving Mine – CSA
A Winchester, J Hosken and E Haren

Risky Business for Grade Control Geologists
E Haren

Simulation for Grade Error Analysis at Ernest Henry Mine
A Trueman and P Collier

Simulation of an Uranium Roll Front Deposit
L Fontaine and H Beucher

Spinifex Ridge – Leapfrog: Its Uses and Applications in the Acquisition and Development of a World Class Polymetallic Deposit
A P Byass, M R Roberts and B Cummins

Susceptibility and Gamma-Gamma Probe Measurements in Boreholes for Ore Boundary Determinations in LKAB's Iron Ore Mine in Malmberget, Northern Sweden
R Virkkunen

The Apensu Deposit, Ghana – Mining Geology and Grade Control Practices
E Dontoh and D Sims

The Deep Parts of the Kiirunavaara Apatite-Magnetite Orebody in Kiruna, Northern Sweden and the Impact of the Future Mining in the Township of Kiruna
K Niiranen

The Role of Reconciliation in the Ore Control Process at Newmont Australia Limited's Pajingo Operation, Charters Towers, Queensland
S Law

The Use and Abuse of the Inferred Mineral Resource Classification for Gold Projects
S C Dominy, A E Annels, J S Petersen, G F Johansen and J M Currie

The Use of Geological Data in the Classification of Mineral Resources for Public Reporting
W J Shaw

The Use of the GIS-Based Weights-of-Evidence Method for Subsidence Impact Assessment
H Zahiri and G Brassington

Time-Lapse Ground Penetrating Radar Survey for Monitoring Ground Subsidence Control at Baal Bone Mine
B Zhou, B Shen, H Guo and D Wallace

Using GPS Technology to Aid in Blending and Reconciliation at the Douglas Mineral Sand Mine
D Whitworth