

2005 New Zealand Minerals and Mining Conference Proceedings

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Keynote addresses

Title	Author	Paper	Presentation
Our mineral future: a political perspective	Hon. H. Duynhoven		 [15.0 kB PDF]
Coping with mining success - a comeback for the Club of Rome?	I. Gould		 [97.7 kB PDF]
The minerals industry and its contribution to New Zealand's economic development	L. Holden		 [20.4 kB PDF]
Closing the gaps: the challenge for the mining industry and other tradable goods	K. McDonald		 [25.6 kB PDF]
China-New Zealand relationships	L. Quan		 [12.6 kb PDF]

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Coal


















Title	Author	Paper	Presentation
Coal's place in New Zealand's energy future	M. Aliprantis		 [12.8 kB PDF]
Our coal mining future: a key industry player's perspective	D. Elder		 [101 kB PDF]



The value opportunity for New Zealand's lignite deposits	G. Hooper	 [416 kB PDF]	 [1.78 MB PDF]
South Island lignite: a major source of energy	M. Isaac		 [4.1 MB PDF]
Pike River Coal - project management challenges	L. McCracken	 [5.2 MB PDF]	
Ashes-Waituna and Hawkdun lignite deposits: their resources and use potential	D. Manhire and A. Sherwood	 [1.9 MB PDF]	 [1.4 MB PDF]
Relevance of the Liquid Fuels Trust Boad work to present-day energy issues	D. Natusch	 [94.8 kB PDF]	 [34.3 kB PDF]
Cypress Mine project: consenting in the 21st Century	M. Pizey		 [3.4 MB PDF]
New Zealand's thermal generation options	J. Small		 [92.2 kB PDF]
Pike River Coal - modern mine design	P. Whittall	 [512 kB PDF]	 [1.31 MB PDF]
Coal mining opportunities: the perspective of a new entrant to New Zealand	P. Williams	 [23.0 kB PDF]	 [1.05 MB PDF]

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Gold and other minerals





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Arc-backarc systems of nerthen Kermadec-Tonga	R. Arculus	 [3.1 MB PDF]	 [7.6 MB PDF]
Platinum-bearing magmatic rocks of the southern Brook Street Terrane, South Island, New Zealand	R. Arculus, C. Spandler, K. Worden, S. Eggins & J.Mavrogenes	[493 kB PDF]	 [2.2 MB PDF]
New constraints on the chemistry of magmas and fluids associated with intrusion-related gold deposits	T. Baker	 [1.0 MB PDF]	 [3.6 MB PDF]
Tectonic controls on magmatic-hydrothermal gold mineralization in the magmatic arcs of SE Asia and the SW Pacific	M. Barley and R. Hall	 [44.4 kB PDF]	 [8.7 MB PDF]
Lithospheric footprints of giant orogenic gold systems	F. Bierlein, D. Groves, R. Goldfarb and A. Christie	 [55.2 kB PDF]	 [3.4 MB PDF]
OceanaGold: exploration and mining in New Zealand	M. Cadzow		 [1.2 MB PDF]
Structural controls on the superposition of high sulphidation epithermal mineralisation into porphyry copper-molybdenum deposits: lessons from Rosario, northern Chile	D. Cooke, G. Masterman and R. Berry	 [2.1 MB PDF]	
The dynamics of coupling between deformation and fluid flow in the Earth's crust - implications for ore genesis	S. Cox	 [56.0 kB PDF]	 [3.4 MB PDF]
Late metamorphic structural zones in the Otago Schist: prospective hosts for gold mineralization	D. Craw, D. Mackenzie, M. Begbie and R. Norris	 [2.2 MB PDF]	 [7.6 MB PDF]

Geology, geochemistry and exploration implications of hydrothermal alteration associated with epithermal Au-Ag deposits	J. Gemmell and AMIRA P588 Research Team	 [57.9 kB PDF]	
The orogenic gold deposit model and New Zealand: consistencies and anomalies	R. Goldfarb, A. Christie and F. Bierlein	 [71.2 kB PDF]	 [6.2 MB PDF]
Geophysical characteristics of the Karangahake epithermal deposit, Hauraki Goldfield, New Zealand	M. Harris, J. Cassidy, C. Locke and J. Mauk	 [9.7 MB PDF]	
Distinguishing intrusion-related from orogenic gold systems	C. Hart and R. Goldfarb	 [718 kB PDF]	 [9.2 MB PDF]
Glass Earch gold exploration: combining Geoinformatics data intervention processes with ultra-detailed geophysical prospecting	S. Henderson	 [2.2 MB PDF]	
Geology, geochemistry, and geochronology of the Midas epithermal gold system, Nevada	E. Leavitt and G. Arehart	 [900 kB PDF]	
Geochemical signatures of alteration mineral zonation that surrounds adularia-sericite epithermal orebodies: lessons from New Zealand and abroad	J. Mauk, I. Warren and M. Simpson	 [22.9 kB PDF]	
Relationships between New Zealand, Australian and New Caledonian mineralised terranes: a regional geological framework	J. Mortimer, I. Graham, C. Adams, A. Tulloch and H. Campbell	 [1.3 MB PDF]	
Granite gold mineral systems in New Zealand	R. Mustard and G. Partington	 [2.0 MB PDF]	
Violent rupture of mid-crustal barriers by fluidised breccia (Cloncurry Fe-oxide-Cu-Au district, Australia): implications for Cu-Au mineralisation and kimberlites	N. Oliver, T. Blenkinsop, J. Cleverley, L. Marshall, M Rubenach, B. Fu and R. Ridd	 [1.1 MB PDF]	 [7.6 MB PDF]
Structural controls on gold mineralisation, Reefton Goldfield, New Zealand	M. Rattenbury, S. Cox, L. Reynolds, J. Moore and N. Whetter	 [1.7 MB PDF]	
Hydrological controls on mineralisation in the active epithermal environment, Taupo Volcanic Zone, New Zealand	J. Rowland and S. Simmons	 [308 kB PDF]	
Evolution of subaerial magmatic-hydrothermal systems: A comparative study between Koryu Au-Ag deposit and Toyoha polymetallic deposit at Sapporo-Iwanai district, Hokkaido, Japan	T. Shimizu	 [702 kB PDF]	
New prospects from analysis of existing data	R. Smillie		 [5.1 MB PDF]

The Sovereign, Jubilee, Scotia and Jasper Creek prospects, Waitekauri Valley, Hauraki goldfield	M. Simpson and J. Mauk	 [740 kB PDF]
Beyond the Martha Mine	A. van Kersen	 [5.1 MB PDF]









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Offshore exploration

Title	Author	Paper	Presentation
Submarine hydrothermal venting and mineralization associated with Kermadec arc volcanoes, offshore New Zealand	C. de Ronde	 [13.6 MB PDF]	
Ocean mapping for a geologic and legal framework of New Zealand's marine estate	I. Wright	 [7.4 MB PDF]	[11.6 MB PDF]
Seafield Resources' offshore alluvial gold project, Westland, New Zealand	J. Youngson and N. Fraser	 [1.5 MB PDF]	 [3.2 MB PDF]



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Environmental

Title	Author	Paper	Presentation
Taharoa rehabilitation programme	G. Brown and R. Chadwick		 [3.0 MB PDF]
Our mineral future: balancing environmental and economic development priorities	B. Carbon		 [120 kB PDF]
Achieving an environmentally sustainable stream diversion design in an opencast mining area	C. Evans	 [40.2 kB PDF]	 [750 kB PDF]
Pike River Coal - quality environmental management	I. Liddell	 [333 kB PDF]	 [4.2 MB PDF]
Use of small-scale passive systems for treatment of acid mine drainage	D. Trumm, M. Watts and P. Gunn	 [367 kB PDF]	 [5.6 MB PDF]

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Legal and financial











Title	Author	Paper	Presentation
Efficient forms of financing capital goods in New Zealand	J. Chandler		 [1.3 MB PDF]
Creating a successful float. How to survive the first few years	P. Cooke		 [62.2 kB PDF]

Liability issues facing the mining industry today	R. Fisher and J. Morton	 [55.2 kB PDF]	
The Resource Management Amendment Act 2005 - the implications for the mining industry	R. Fisher and M. van Kampen	 [41.4 kB PDF]	
The Asia-Pacific coal industry: NZ and recent trends in commodity prices	A. Harrington		 [674 kB PDF]
Minimising mineral project risk: New Zealand in a global context	M. Lawrence	 [420 kB PDF]	 [653 kB PDF]
The L&M story: an international investor's perspective	G. Loudon		 [1.6 MB PDF]
Recent consenting of mining and quarry developments under the Resource Management Act 1991: case examples	R. Robson	 [409 kB PDF]	 [3.4 MB PDF]
Joint Ventures - taxation risks and opportunities	S. Smith	 [46.5 kB PDF]	 [55.5 kB PDF]

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Poster papers

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Controls on disseminated gold mineralisation at Fosterville, Victoria	K. Allwood	 [6.5 MB PDF]	
Characteristics of gold bearing quartz veins at the historic Morning Star mine, Preservation Inlet, SW Fiordland, New Zealand	M. Begbie, D. Falconer and D. Craw	 [5.0 MB PDF]	
Andesites as resources for roading and concrete industries, North Island, New Zealand	P. Black	 [321 kB PDF]	
The association of low-sulphidation epithermal gold deposits with bimodal volcanism and rifting in New Zealand: implications for exploration	I. Bogie, S. Henderson and J. Lawless	 [292 kB PDF]	
Zeolite deposits in lacustrine tuffs, Ngakuru, Taupo Volcanic Zone	R. Brathwaite and D. Hill	 [2.1 MB PDF]	
Epithermal gold-silver deposits in New Zealand	A. Christie and R. Brathwaite	 [350 kB PDF]	
Orogenic gold deposits in New Zealand	A. Christie and R. Brathwaite	 [142 kB PDF]	
Volcanogenic massive sulphide deposits in New Zealand	A. Christie and R. Brathwaite	 [87.0 kB PDF]	
Pounamu resource assessment and characterisation	S. Cox, C. Adams, T. Popham, A. Goodhall and H. Campbell	 [1.5 MB PDF]	

Investigations of massive sulphide mineralization along the Kermadec Arc 1996-2005	C. de Ronde, I. Graham, R. Ditchburn, K. Faure, G Massoth, A. Reyes and I. Wright	 [4.1 MB PDF]
Mineralization and structural setting of the Rise and Shine Shear Zone, Otago Schist: comparisons to the Macraes deposit	D. MacKenzie, D. Craw, L. Cox and R. Norris	 [1.1 MB PDF]
Fissure vein structures and brecciation in the upper levels of the Broken Hills epithermal Au/Ag deposit, Hauraki Goldfield, New Zealand	J. Mortimer and J. Mauk	 [4.9 MB PDF]
Considering geology in drill and blast operations to optimise ore body value	S. Osborne and L. Maw	 [1.1 MB PDF]
Hydrothermal alteration of the Olaga Cu-Ag skarn deposit and the Oblaga porphyry Cu-Au prospect, Inner Mongolia, China	S. Sen, J. Mauk and D. Muller	 [2.6 MB PDF]
Geology and alternation mineralogy of the Karangahake adularia-sericite epithermal deposit, Hauraki Goldfield, New Zealand	A. Stuart, M. Simpson, J. Mauk and M. Stevens	 [1.4 MB PDF]
Characterisation of coal seam gas waters in New Zealand	M. Taulis, D. Trumm, M. Milke, D. Nobes, D. Manhire and A. O'Sullivan	 [5.2 MB PDF]
New ⁴⁰ Ar/ ³⁹ Ar dates of adularia from epithermal deposits from the the Hauraki Goldfield, New Zealand	K. Ward, J. Mauk and C. Hall	 [374 kB PDF]
Modeling of mineral potentials of gold and base metals using GIS in Mahnesan area, Iran	M. Yousefi and A. Kamkar- Rouhan	 [2.9 MB PDF]
Mining related environmental database for West Coast and Southland: data structure and preliminary geochemical results	J. Pope, B. Singh and D. Thomas	 [108 kB PDF]

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