



Mining photos courtesy OceanaGold & Newmont Waihi Gold

TUESDAY 30TH AUGUST				
FINANCE – GALAXY ROOM 1			GOLD & PLATINUM – GALAXY ROOM 2	
SESSION 9A Chairperson: Tony Haworth			SESSION 9B Chairperson: Richard Barker	
9.00am – 9.20am	Matthew Salthouse OceanaGold	OceanaGold Corporation: funding growth opportunities in different capital markets	Nick Mortimer GNS Science	Potentially platiniferous mafic bodies on the Gondwana margin, New Zealand and Australia
9.20am – 9.40am	Geoff Oldroyd G C Oldroyd & Associates	Delivering more from the mineral resource value chain	Paul Wopereis MWH	Nokomai Gold: a tale of two (or more) sources
9.40am – 10.00am	Michael Lim ANZ	Structured trade finance: providing a stable source of liquidity throughout the economic cycle - Part B	Simone Hood Hills	The structural setting and paragenesis of gold mineralisation at the Big River prospect, Reefton Goldfield, West Coast
10.00am – 10.20am	Paul Richardson BT Asset Management	Mining and commodities investment outlook: 2011 is becoming the year of the deal	Doug MacKenzie University of Otago	Graphitic and hematitic hydrothermal alterations with disseminated gold, Yukon, Canada
10.20am – 10.50am Morning tea				

ENVIRONMENTAL 2 – GALAXY ROOM 1			EPITHERMAL GOLD 2 – GALAXY ROOM 2	
SESSION 10A Chairperson: James Pope			SESSION 10B Chairperson: Dave Craw	
10.50am – 11.10am	Graham Ussher Department of Conservation/ Tonkin & Taylor Ltd	Biodiversity offsets providing for better conservation outcomes: an update on the Department of Conservation's Biodiversity Offsets Research Programme	Mark Simpson University of Auckland	Bonanza-grade epithermal veins from the Coromandel and Thames districts, Hauraki goldfield
11.10am – 11.30am	Duncan Gray Golder Associates	Mine impact rating (MIR): a benthic invertebrate biotic index for assessing coal mining impacts in New Zealand streams	Amy Fleetwood* University of Auckland	Mercury soil gas as a guide to structure and mineralisation at the Ohui epithermal gold-silver prospect, Hauraki Goldfield, New Zealand
11.30am – 11.50am	Maree Drury Golder Associates	GoldSET© Mitigation Evaluation – application of a sustainability decision support tool for the mining industry	Tobias Francis* University of Auckland	Mercury soil gas survey of the Wharekirauponga epithermal Au-Ag prospect, Hauraki Goldfield, New Zealand
11.50am – 12.10pm	Simone Creedy OceanaGold	Substrate modification for enhanced forest restoration, Reefton	Lorraine Torckler Newmont Waihi Gold	Waihi – new discoveries in an old camp
12.10pm – 1.10pm Lunch			Poster presenters in attendance at their posters	

PLENARY 3 – GALAXY BALLROOM		
SESSION 11 Chairperson: Roger Gregg		
1.10pm – 1.30pm	Doug Gordon - CEO NZMIA	Planning to succeed: realising New Zealand's mineral potential
1.30pm – 1.50pm	Rob Robson - New Zealand Petroleum & Minerals	New subsurface data for New Zealand, new opportunities
1.50pm – 2.10pm	Chris Baker - CEO Straterra	Exposing the anti-resource campaign
2.10pm – 2.40pm Afternoon tea		
PLENARY 4 – GALAXY BALLROOM		
SESSION 12 Chairperson: Cam Wylie		
2.40pm – 3.00pm	Julian Hanna – Managing Director & CEO, Western Areas NL	The problem with nickel
3.00pm – 3.20pm	Cam Wylie – Principal RDCL & AusIMM NZ Branch Chairman	Putting the “Chartered” in Professional – why on earth do it?
3.20pm – 3.30pm	Student Paper Award	
3.30pm – 3.40pm	Closing comments	
5.45pm – 10.00pm TSS Earnslaw departs wharf for Walter Peak High Country Farm (Cruise, Dinner & Entertainment)		

WEDNESDAY 31ST AUGUST		
9.00am – 5.00pm SC2 Mine drainage, geochemistry, impact and management by James Pope, Dave Craw, Dave Trumm & Jo Cavangah		
THURSDAY 1ST SEPTEMBER		
9.00am – 6.00pm FT3 Western Southland coal, depart from Millennium Hotel		
*Student Presenter		

POSTER PROGRAMME (SUNDAY 28TH AUGUST TO TUESDAY 30TH AUGUST 2011):

NAME:	ORGANISATION:	TITLE:
Richard Barker & Tony Christie	GNS Science	The value of mineral exploration and research in New Zealand
Bob Brathwaite, David Skinner, Kevin Faure & Ernest Edwards	GNS Science	Pyrite + heavy mineral sand-coated granite cobbles at Lee Bay, Stewart Island

ACCOMPANYING PERSONS PROGRAMME:

TOURS DEPART FROM MILLENNIUM HOTEL.

- Sunday 28th August – 11.00 am to 3.00 pm
- Monday 29th August – 9.00 am to 3.00 pm
- Tuesday 30th August – 9.00 am to 3.00 pm

EXHIBITORS:

OceanaGold, ANZ, New Zealand Petroleum & Minerals, Bathurst Resources Ltd, SGS New Zealand, Golder Associates (NZ) Ltd, Resource Development Consultants Ltd, EXITO, GNS Science, CRL Energy Ltd, Rocklabs, L&M Group, Heritage Gold, Fugro Airborne Surveys, SEG (Society of Economic Geologists), Brown Bros Engineering, MWH

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2011 AusIMM New Zealand Branch Annual Conference

27 - 30 August 2011, Millennium Hotel, Queenstown, NZ

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FRIDAY 26TH AUGUST

7.30am – 7.30pm FT1 Otago gold field trip, depart from Millennium Hotel

SATURDAY 27TH AUGUST

9.00am – 5.00pm SC1 Orogenic gold deposits of Otago by Dave Craw & Nick Mortimer

8.00am – 5.30pm FT2 Wineries and *terroir*, depart from Millennium Hotel

2.00pm – 4.30pm SC3 New Zealand Petroleum & Minerals data by Rebecca Schulz & Raj Vadlamannati

4.00pm – 6.00pm Registration desk open

6.00pm – 8.00pm Welcome & Student Function, Exhibition area and the Gallery at the Millennium Hotel

SUNDAY 28TH AUGUST

8.00am – 9.00am Registration

OPENING & PLENARY 1 – GALAXY BALLROOM

SESSION 1 Chairperson: Les McCracken, Chairman of Conference Organising Committee

9.00am – 9.05am **Les McCracken** – Chairman of Conference Organising Committee Welcome and Introduction

9.05am – 9.10am **Cam Wylie** – Chairman of the AusIMM NZ Branch Conference Opening

9.10am – 9.30am **Hon. Hekia Parata** – Acting Minister of Economic Development, Energy and Resources Minister's Address

9.30am – 9.50am **Wayne Brown** – Mayor, Far North District Council Realising Northland's mineral potential

9.50am – 10.10am **Alice Clark** – President AusIMM Tas McKee Memorial Address

10.10am – 10.30am **Tony Haworth** & Richard Barker – Campbell MacPherson Ltd & Consulting Geologist Overview of the New Zealand mining industry 2010/11

10.30am – 10.50am **Morning Tea**

PLENARY 2 – GALAXY BALLROOM

SESSION 2 Chairperson: Cam Wylie

10.50am – 11.10am **Josh Adams** – Director, Minerals, New Zealand Petroleum & Minerals What happened to Crown Minerals?

11.10am – 11.30am **Michael Lim** – Global Head of Structured Trade Finance, ANZ Structured trade finance: providing a stable source of liquidity throughout the economic cycle - Part A

11.30am – 11.50am **Glen Grindlay** – General Manager Operations, Newmont Waihi Gold Opportunities for Waihi Gold

11.50am – 12.10pm **Don Elder** – CEO, Solid Energy NZ the resource-rich country: lucky is not enough

12.10pm – 12.30pm **Mick Wilkes** – CEO, OceanaGold The future growth of OceanaGold

12.30pm – 1.20pm **Lunch** **Poster presenters in attendance at their posters**



Mining photos courtesy OceanaGold & Newmont Waihi Gold

ENVIRONMENTAL 1 – GALAXY ROOM 1			EPITHERMAL GOLD 1 – GALAXY ROOM 2	
SESSION 3A Chairperson: Ellen Hiscock			SESSION 3B Chairperson: Doug MacKenzie	
1.20pm – 1.40pm	Dave Trumm CRL Energy	Passive treatment of mine drainage antimony through adsorption by AMD precipitates and through sulphate reduction	Shannon Richards Newmont Waihi Gold	Geology and ore control of the Moonlight epithermal gold deposit, Waihi, New Zealand
1.40pm – 2.00pm	Sioban Hartwell URS	Developing the Cypress Mine Water Management Plan	Jeff Mauk University of Auckland	Variable ore mineralogy in the world-class epithermal Waihi vein system, New Zealand
2.00pm – 2.20pm	Andy Mackenzie & Dave Trumm University of Canterbury & CRL Energy	Characterisation of Fanny Creek catchment acid mine drainage and optimal passive treatment remediation options	Lorraine Hamilton* University of Auckland	Textures, mineralogy and geochemistry of the Union, Trio and Amaranth epithermal veins, Waihi
2.20pm – 2.40pm	Kane Inwood & Damian Spring Golder Associates	Coaldale – from concept to resource consent	Steve Law & Ben Hinkle Newmont Waihi Gold & KCGM	Resource modelling of the Moonlight Epithermal Gold Deposit, Waihi Mining District, New Zealand, The impact of geological risk

2.40pm – 3.10pm **Afternoon tea**

MINING – GALAXY ROOM 1			PEOPLE – GALAXY ROOM 2	
SESSION 4A Chairperson: Damian Spring			SESSION 4B Chairperson: Alan Sherwood	
3.10pm – 3.30pm	Geoff Loudon L&M Group	Nautilus Minerals deep sea mining venture: advancing towards production in late 2013	Rick Carter Newmont Waihi Gold	Newmont's experience in implementing Lean Six Sigma
3.30pm – 3.50pm	Shirley Herridge L&M Group	Earnsclough Gold Project: an update	Paul Wilkinson EXITO	Training for a competitive edge
3.50pm – 4.10pm	Kent Anson L&M Energy	Unconventional hydrocarbon potential of Western Southland	Sefton Darby & Kit Wilson Newmont Waihi Gold	Drillers in our midst: a miner issue becomes a major opportunity
4.10pm – 4.30pm	Angelo Leonforte AECOM	Selection of material handling systems and related infrastructure for underground hard rock mining operations		
4.45pm – 6.30pm	AusIMM NZ Branch AGM in Galaxy Room 1			
7.00pm – 8.00pm	WIMnet NZ Function, Exhibition area at the Millennium Hotel			

MONDAY 29TH AUGUST

GEOTECHNICAL – GALAXY ROOM 1			OROGENIC DEPOSITS OF OTAGO – GALAXY ROOM 2	
SESSION 5A Chairperson: Clive Anderson			SESSION 5B Chairperson: Jeff Mauk	
9.00am – 9.20am	Brian Adams Solid Energy	Highwall design in intensely weathered basement rocks on the Stockton Plateau, New Zealand	Dave Craw University of Otago	Lithology and metal sources & sinks, Otago Schist
9.20am – 9.40am	John Taylor & Brodie Klue Solid Energy & Golder Associates	Geophysical techniques for underground coal mine hazard mapping	Anicia Henne* University of Otago	Hydrothermal and porphyroblastic graphite in low grade Otago Schist
9.40am – 10.00am	Stephen Jeric Orica Mining Services	Holistic scientific approach to address wall damage and berm loss from blasting in large open cut metal mines	Anthony Coote Applied Petrologic Services and Research	Mafic volcanic protoliths of the Otago schist as a source of hydrothermal gold: consideration of field and petrologic observations
10.00am – 10.20am	Paul Herbert Solid Energy	Hydraulic coal mining – reliant upon and susceptible to geologic structure	Lauren Farmer* University of Otago	The occurrence of scheelite at Macraes mine, Otago: contrasting two vein morphologies
10.20am – 10.50am	Morning tea			

*Student Presenter

COAL – GALAXY ROOM 1			GEOLOGY & EXPLORATION – GALAXY ROOM 2	
SESSION 6A Chairperson: Les McCracken			SESSION 6B Chairperson: Kerrin Allwood	
10.50am – 11.10am	Marianne Rogers Bathurst Resources	Escarpment Mine Project update	Joanna Druzicka* University of Otago	Experimental turbidity evaluation of Central Otago paleoplacer gold deposits
11.10am – 11.30am	Mark Ellis Golder Associates	The anatomy of mine water management – from the perspective of the Escarpment Mine Project	Ewen Rodway* University of Otago	Titanium-in-quartz geothermometry and sediment provenance in Western Southland basins
11.30am – 11.50am	Nigel Newman CRL Energy	Geochemical studies of waste rock at proposed Escarpment open cast mine, Denniston Plateau West Coast	Kate Mc Kercher* University of Otago	Titanium-in-quartz geothermometry: tracing siliciclastic sediment across the South Island
11.50am – 12.10pm	Al Tattersall & Damian Spring Golder Associates	Selected decision making tools for mine developments	Justin Legg Golder Associates	The use of Acoustic Tele-viewer (ATV) and Optical Tele-viewer (OTV) techniques - putting the "geology" back into down hole geophysics
12.10pm – 1.10pm	Lunch	Poster presenters in attendance at their posters		

LEGAL – GALAXY ROOM 1			IRONSANDS & PHOSPHATE – GALAXY ROOM 2	
SESSION 7A Chairperson: Marianne Rogers			SESSION 7B Chairperson: Vivienne Bull	
1.10pm – 1.30pm	Dave Trueman & Michelle van Kampen Simpson Grierson	Environmental protections for mineral-related activities in New Zealand's waters	Matt Blomfield Fugro Airborne Surveys	Acquisition and modelling of airborne magnetic data for iron sands exploration
1.30pm – 1.50pm	David Coull Bell Gully	Legal and regulatory changes to New Zealand's resources sector	Robin Falconer Chatham Rock Phosphate Ltd	Phosphate: Chatham Rise, New Zealand
1.50pm – 2.10pm	Rachel Devine & Emma Tait Minter Ellison Rudd Watts Lawyers	Consenting strategies for major mining projects and the role of the EPA	Sally Hughes-Allan Kenex Limited	Genesis of the Chatham Rise Phosphorite: an interpretation from current literature
2.10pm – 2.30pm	Daniel Minhinnick Russell McVeagh	Undermining a powerful future? Ensuring that the consent process does not obstruct developments	Paul Viskovic GNS Science	Offshore petroleum data and potential applications to mineral exploration
2.30pm – 3.00pm	Afternoon tea			

GENERAL – GALAXY ROOM 1			EXPLORATION GEOLOGY – GALAXY ROOM 2	
SESSION 8A Chairperson: John St George			SESSION 8B Chairperson: Peter Atkinson	
3.00pm – 3.20pm	Brigid McArthur Greenwood Roche Chisnall	The Schedule 4 debate: where did it end up and how can land be added or removed?	Richard Barker & Tony Christie Consulting Geologist & GNS Science	The value of mineral exploration and research in New Zealand
3.20pm – 3.40pm	John Taylor & Gayla Bonham-Carter Solid Energy & University of Otago	Mining heritage mitigation and tools in the toolbox	Rebecca O'Donnell Kenex Limited	Resource assessment using GIS modelling of orogenic gold mineralisation potential in New Zealand
3.40pm – 4.00pm			Roger Mustard OceanaGold	Exploration progress and potential of the Reefton Goldfield, West Coast New Zealand
4.00pm – 4.20pm			Benjamin Comeskey OceanaGold	Combined structural-geochemical exploration targeting for narrow high grade veins at the Crushington group of mines, Reefton Goldfield

7.00pm – late **Cocktails followed by Conference Dinner in Galaxy Ballroom**

*Student Presenter