

2011 AusIMM New Zealand Branch Conference

27 - 30 August
Millenium Hotel
Queenstown, New Zealand

The annual conference on exploration, mining
and New Zealand's mineral resources

Mining for New Zealand – Creating A Powerful Future

- > Full technical and social programmes
- > Short courses, field trips and
accompanying persons programme
- > Trade display
- > Exciting speakers

This year the conference follows the Eighth
International Mining Geology Conference

Register online at www.ausimm.co.nz
or complete and fax/mail form on back cover

Principal Sponsors



Gold Sponsors



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This conference features a unique grouping of speakers, excellent field trips, short courses and accompanying persons tours



Please visit www.ausimm.co.nz for the full conference programme and details of short courses, field trips and tours



Photos courtesy of Newmont Waihi

The 2011 conference follows the Eighth International Mining Geology Conference (at the same venue; see www.AusIMM.com.au/imgc2011 for details)

The theme for this year's conference is: Mining for New Zealand – Creating a Powerful Future

Supporting this theme:

Industry Associations and Government

- Hon Hekia Parata – Acting Minister of Energy and Resources
- Alice Clark – President AusIMM
- Cam Wylie – NZ Chairman AusIMM
- Michael Catchpole – CEO AusIMM
- Chris Baker – CEO Straterra
- General Manager – New Zealand Petroleum & Minerals
- Rob Robson – New Zealand Petroleum & Minerals
- Alan Sherwood – New Zealand Petroleum & Minerals
- Doug Gordon – CEO NZ Minerals Industry Association

Industry Leaders

- Glen Grindlay – GM Newmont Waihi Gold
- Don Elder – CEO Solid Energy
- Hamish Bohannon – CEO Bathurst Resources
- Mick Wilkes – CEO OceanaGold
- Julian Hanna – MD Western Areas NL
- Geoff Loudon – Chairman L&M Group

Finance

- Michael Lim – Global Head of Structured Trade Finance, ANZ
- Tony Haworth – Campbell MacPherson Ltd
- Paul Richardson – BT Funds Management (NZ) Ltd

Miners, Researchers & Explorers

- Simon Henderson – Glass Earth
- Marianne Rogers – GM Buller Coal Ltd
- Dave Crow – University of Otago
- James Pope – CRL Energy Ltd
- Jeff Mauk – University of Auckland

Conference Dinner

Monday 29 August
Millenium Hotel

Dinner Speaker Joe Bennett:



Joe Bennett is an English-born travel writer and columnist who lives in New Zealand. Joe

blasts every topic with the limpid comic prose which has led to his columns being syndicated throughout New Zealand and induced international publishers Simon and Schuster to publish three collections of his columns and four of his travel books throughout the English-speaking world. Now a freelance writer, he appears with regular irregularity on television and radio.

Earnslaw Cruise & Walter Peak High Country Farm

Tuesday 30 August
On the final night of the conference enjoy a fabulous cruise on the Earnslaw and dinner at Walter Peak High Country Farm.



Joe Bennett appears by arrangement with Celebrity Speakers (NZ) Ltd

Register online at www.ausimm.co.nz

SHORT COURSES

For more detailed information visit www.ausimm.co.nz, or contact those listed below

SC1: Orogenic gold deposits of Otago

Saturday 27 August (one day), 9:00 am – 5:00 pm, Millenium Hotel
Cost: \$200 (includes morning and afternoon coffee/tea and lunch).
Students \$75

Otago is well known for its classic schist geology and the world class Macraes gold deposit, in addition to its many other orogenic (mesothermal) gold, tungsten and antimony deposits, and giant gold placers. This course will cover the regional geological, metamorphic, and tectonic development of the schist belt, and the genesis of the gold deposits as part of that tectonic evolution. In particular, the Macraes and Rise & Shine shear zone deposits are compared to shallower-formed fault-hosted vein systems. Results of recent research by both presenters will be incorporated into the short course including new geochronology.

Presenters:

Dave Crow is a Professor in the Geology Department, University of Otago, and lectures in many aspects of applied geology. He has 30 years research experience in the Otago Schist and related rocks, with emphasis on relationships between tectonics, structure, metamorphism, and gold mineralisation.

Nick Mortimer is a geologist at the Dunedin office of GNS Science. He obtained a BSc from Imperial College London in 1980 and a PhD from Stanford University in 1984. After a postdoc at the University of British Columbia, he joined the NZ Geological Survey, now GNS Science. Nick is interested in all aspects of on-land and offshore New Zealand basement geology and has also worked in Queensland, New Caledonia and Antarctica.

For additional information contact Dave Crow, ph (03) 479-7529, email dave.crow@otago.ac.nz, or Nick Mortimer, ph (03) 479 9686, email n.mortimer@gns.cri.nz

SC2: Mine drainage, geochemistry, impact and management

Wednesday 31 August (one day), 9:00 am – 5:00 pm, Millenium Hotel, Cost: \$200 (includes morning and afternoon coffee/tea and lunch). Students \$75

Mine impacts on drainages are some of the toughest environmental problems that the minerals sector faces. This short course includes:

- > A discussion of mine drainage chemistry, the tests used to predict it and an update on our understanding of the geochemistry of some commonly mined rocks in New Zealand.
- > An introduction to stream ecology and prediction of mine drainage impacts.
- > Information on food web interrelationships in mine impacted streams and latest research on the tolerance of NZ fauna to common components released by mines.
- > A description of management techniques, treatment methodologies and the critical factors used to select between different management or treatment options.
- > Recent development of a Framework to assist the minerals sector with data collection and interpretation of data related to mine drainage prediction, impact assessment and remediation.

Presenters:

James Pope, General Manager (South Island), CRL Energy Ltd. **Dave Crow**, Professor in the Geology Department, University of Otago. **Dave Trumm**, Environmental Scientist, CRL Energy Ltd. **Jo Cavanagh**, Environmental toxicologist and chemist, Landcare Research.

For additional information contact: James Pope, ph (03) 341 2120, email J.Pope@crl.co.nz

SC3: New Zealand Petroleum & Minerals data

Saturday 27 August (half day), 2:00 pm – 4:30 pm, Millenium Hotel
Cost: Free (includes afternoon coffee/tea).

This course will provide an overview of New Zealand Petroleum & Minerals data holdings. It will cover;

- > A brief history of data management policies and initiatives, how we have moved from paper to digital submission;
- > An outline of the data we hold including how to access the digital data through our online database and core held at our core store;
- > An overview of the revised Minerals and Coal Digital Data Submission Standards particularly the use of templates for reporting.

The course will conclude with a discussion session on reporting of Geochemical and Geophysical Data with a focus on emerging technologies and standards.

This course is aimed at those that produce technical reports as part of work programme commitments and users of New Zealand Petroleum & Minerals online exploration data.

Presenters:

Rebecca Schulz, Technical Advisor Spatial Data Services, New Zealand Petroleum & Minerals, Ministry of Economic Development.
Raj Vadlamannati, Geologist Minerals and Coal Data Services, New Zealand Petroleum & Minerals, Ministry of Economic Development.

For additional information contact Rebecca Schulz, ph (04) 474 2614, email rebecca.schulz@med.govt.nz

ACCOMPANYING PERSON TOURS

Visit www.ausimm.co.nz or contact Carla Spring email moreni@xtra.co.nz for more detailed information

- > Queenstown offers a wide variety of sightseeing tours and activities.
- > A full programme of tours will be available for accompanying persons on Sunday 28, Monday 29 and Tuesday 30 August.
- > Additional details will be advertised as they become available. Please watch www.ausimm.co.nz for updates.

FIELD TRIPS

For more detailed information visit www.ausimm.co.nz, or contact Damian Spring, email dspring@golder.co.nz

- > Field trips are open to registered delegates and their accompanying persons.
- > Additional details on the field trips will be advertised as they become available. Please watch www.ausimm.co.nz for updates.

FT1: Otago gold

Full day, Friday, 26 August 2011
Leaders: Damian Spring and Peter Church
Cost: \$115 (includes land transport and packed lunch)

As the gold price continues to soar successful near mine exploration continues to expand Oceana Gold's Macraes mine resource base beyond the depletion by production. It is New Zealand's largest gold mine and has produced more than 3 million ounces of gold from several open pits and one underground mine, since commencement of mining in 1990. Production from the Frasers Underground is in its 4th year of production with successful exploration announced earlier this year fuelling its future. The tour at the mine will commence with a presentation on geology and mining at Macraes, followed by a safety induction, then tours of Frasers pit, Frasers underground and a mill overview. Numbers are limited for the underground section of the tour.

The tour will return to Queenstown via L&M's Earnsclough alluvial gold mine, between Alexandra and Clyde. L&M commenced operations at Earnsclough in 2009 following a long period of development. The tour will take in the stripping operation, mining and restoration activities.

FT2: Wineries and *terroir*

Saturday, 27 August 2011
Leader: Peter Atkinson
Cost: \$110 (includes land transport, winery tasting fees and restaurant lunch)

Central Otago has a reputation for being one of New Zealand's foremost wine regions for Pinot Noir (www.otagowine.com), in addition to some excellent Riesling, Pinot Gris, Chardonnay and Methode Champenoise. The tour will visit several wineries to investigate these regional differences, and will include talks from some experts on the influence of geology as a factor in the *terroir* – "a sense of place".

FT3: Western Southland coal and Milford Sound cruise

Wednesday, 31 August to Thursday, 1 September (two days) Leaders: Damian Spring and Peter Church
Cost: \$490, (Includes transport, accommodation, meals and cruise)

Western Southland produces about 160,000 t of sub bituminous coal annually mainly for Fonterra's dairy factory at Clandeboye, South Canterbury. Production currently is from Takitimu Coal Ltd's (a subsidiary of Bathurst Resources Ltd) coal mine in Nightcaps. The tour will take in the mine operations and the future extension into Coaldale.

Previous production for Clandeboye centred on Solid Energy's Ohai operations. The trip will view significant earthworks currently underway for restoration of the No.6 opencast and provide a recent history of mining at Ohai.

The tour will overnight at Te Anau, the 'gateway to the fiords' before venturing on the next day to take in the beauty and sheer wonder of Milford Sound.

Register online at www.ausimm.co.nz



Please register and pay online at www.ausimm.co.nz or complete the form below.

PERSONAL DETAILS

| | | | |
|------------------------------|------------------------|--------------------------|------------|
| Title (Please circle): | Prof Dr Mr Mrs Miss Ms | AusIMM Membership Number | |
| First Name: | | Last Name: | |
| Position: | | Organisation: | |
| Name to appear on badge: | | | |
| Name of accompanying person: | | | |
| Address: | | | Post Code: |
| Email: | | | |
| Telephone: | | Facsimile: | |

ACCOMMODATION

Please contact the hotels directly to make a reservation.

A substantial discounted rate has been negotiated with the Conference venue, the Millenium Hotel. To obtain this rate you must specify when booking that you are attending the AusIMM NZ Branch 2011 Conference, confirmation number 25000307660. Contact details for accommodation are listed below:

| | |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Millenium Hotel Corner Frankton Road & Stanley Street T: +64 3 441 8888 F: +64 3 441 8889 | Copthorne Hotel Corner Frankton Road & Adelaide Street T: +64 3 450 0260 F: +64 3 442 7472 |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|

For further accommodation listings visit www.queenstown-nz.co.nz/information/accommodation

REGISTRATION FEES

All prices include GST and are in New Zealand currency. Speakers at the conference are invited to register at the members' rate. This concession does not apply to co-authors not presenting a paper. Cancellation and refunds: before July 15 - full, before August 19 - 50%, after August 19 - no refund (no exceptions). Cancellations must be by letter, fax or email.

| | Early-bird (on or before 15 July) | Standard (on or after 16 July) |
|----------------------------------------------|-----------------------------------|--------------------------------|
| AusIMM member | \$400 | \$500 |
| Non-AusIMM member | \$550 | \$700 |
| Student AusIMM member (assistance available) | \$45 | \$45 |
| Student non-AusIMM member | \$90 | \$90 |
| Speaker | \$400 | \$400 |
| Day Registration member* | \$175 | \$175 |
| Day Registration non-member* | \$250 | \$250 |
| *indicate day | 28 August | 29 August |
| | | 30 August |

SOCIAL FUNCTIONS

All prices include GST and are in New Zealand currency. Please indicate number attending

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|-----------------------------------------------------------------------------------------------------------------|
| Welcome and Student Function (Saturday 27 August) Free |
| Conference Dinner (Monday 29 August) \$95pp |
| Farewell Function - Earnslaw Cruise and Walter Peak High Country Farm Dinner (Tuesday 30 August) \$100pp |

SHORT COURSES

All prices include GST and are in New Zealand currency. Please indicate number attending

| |
|------------------------------------------------------------------------------------------------------------|
| SC 1 - Orogenic gold deposits of Otago (Saturday 27 August) \$200, Students \$75 |
| SC 2 - Mine drainage, geochemistry, impact and management (Saturday 27 August) \$200, Students \$75 |
| SC 3 - New Zealand Petroleum & Minerals data (Saturday 27 August) Free |

ACCOMPANYING PERSON TOURS

| | |
|--------|--|
| Name: | |
| Email: | |

FIELD TRIPS

All prices include GST and are in New Zealand currency. Please indicate number attending

| |
|------------------------------------------------------------------------------------------------------------------|
| FT 1 - Otago Gold (Friday 26 August) \$115 |
| FT 2 - Wineries and <i>terroir</i> (Saturday 27 August) \$110 |
| FT 3 - Western Southland coal and Milford Sound cruise (Wednesday 31 August - Thursday 1 September) \$490 |

PAYMENT

All prices include GST and are in New Zealand currency. GST # 55-029-539

Please include payment itemised as follows:

| | |
|----------------------------------------------------------|-------|
| Conference registration fees | |
| Conference dinner | |
| Earnslaw Cruise and Walter Peak High Country Farm Dinner | |
| Field Trips / Short Courses / Accompanying Persons Tours | |
| Payment must accompany registration | Total |

Cheques should be made payable in NZ\$ to - AusIMM Conference Account

Direct credit to account number: 02-0704-0471425-002
Please add the description to your direct credit 'AusIMM - Surname'

| | | |
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| Credit cards (Tick) | <input type="checkbox"/> Visa | <input type="checkbox"/> Mastercard |
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| Expiry date: / / | Signature: |
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| Name on card: | |
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Post or fax to:
AusIMM Conference, c/- PO Box 24 078, Manners Street, Wellington
Phone 04 384 1511. Fax 04 384 1522. Email AusIMM11@confer.co.nz

Payment is required with registration