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## MILLOPS 2018

[milloperators.ausimm.com](http://milloperators.ausimm.com)

The 14th AusIMM Mill Operators' 2018

# Registration Brochure



BRISBANE  
29-31 AUGUST

#millops2018

*Back to Basics*

**AusIMM**  
CONFERENCE

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## Committee

### CONFERENCE CHAIR:

**Katie Barns MAusIMM**

Mineralis Consultants Pty Ltd

### CONFERENCE ORGANISING COMMITTEE:

**Rob Coleman MAusIMM**

Outotec

**Dean David FAusIMM(CP)**

Wood

**Diana Drinkwater MAusIMM**

Mineralis Consulting Pty Ltd

**Stuart Emery MAusIMM**

Solvay Group

**Aidan Giblett FAusIMM**

Newmont Mining

**Bianca Newcombe MAusIMM**

OptiFroth Solutions

**Andrew Newell MAusIMM(CP)**

RungePincockMinarco

**Dave Seaman MAusIMM,**

Newcrest Mining Ltd

### EVENT MANAGEMENT

**The AusIMM**

**Claire Stuart**

Coordinator, Publishing

### WHY ATTEND MILL OPERATORS' 2018

- The leading industry event dedicated to providing practical advice and knowledge sharing to enhance operations across mineral processing plants including extractive metallurgy, process control and environmental issues
- Engage in valuable discussions with the specialised operators presenting real and recent case studies and valuable experiences
- Understand the true value of productivity to your overall operations and the impacts on costs and skill shortages, more complex orebodies and increasing international competitors
- Network with industry providers during the trade show who are keen to share their knowledge with you
- Challenge yourself and attend related professional development workshops to further your knowledge

### WHO SHOULD ATTEND

Managers, operational technical staff, supervisors, engineers, advisors, researchers, consultants and students of:

- Automation
- Energy and resources
- Engineering
- Flotation
- Geology
- Geometallurgy
- Metallurgy
- Mill
- Mineral processing
- Plant
- Technology and innovation

### CONFERENCE THEMES

- Best practice in plant operations
- Operating updates / newly commissioned plants
- Geometallurgy
- Pre-concentration
- Comminution circuit operation and optimisation
- Flotation circuit operation and optimisation
- Gravity circuit operation
- Hydrometallurgical operations
- Emerging technologies
- Dewatering
- Automation

# A message from the chair

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**Katie Barns MAusIMM**  
14th AusIMM Mill Operators'  
Conference Chair

On behalf of the organising committee, it is with great anticipation that I extend the invitation to you to come to Brisbane, Queensland, and join us for the 14th AusIMM Mill Operators' Conference from August 29 to August 31, 2018.

In 2018 we celebrate 40 years since this highly successful conference series started. Inaugurated in Mt Isa in 1978 the Mill Operators' Conference aims to promote the sharing of knowledge in operating practices for mineral processing plants, including extractive metallurgy, process control and environmental issues. This conference provides the opportunity for plant operators, metallurgists, engineers and suppliers to learn, share and network with others in the minerals industry. Technology advances over the last 40 years have changed the way our industry operates. Previous conferences have investigated the evolution and survival of our industry through boom and bust, the experiences gained, the lessons learned and the challenges ahead. We have investigated

how we can optimise our operations, achieving more with less and how technology now gives us the opportunity to measure, manage and improve. Despite 40 years of technology advancements and numerous commodity cycles the fundamentals of our operations remain largely the same, mineralogy and mineral behaviour drives grade and recovery. Throughput, recovery, grade and costs drive the profitability of our operations.

The 14th Mill Operators' Conference is about understanding and getting "Back to Basics" of our business and the conference committee are developing a program with an emphasis on best practice in all areas of plant operations, doing the basics well, operating updates, newly commissioned operations and information on emerging technologies in line with the conference themes.

We look forward to welcoming you to Brisbane in August 2018.

# Program and Papers List

The Organising Committee is currently developing an exciting technical program that will feature a range of topics presented during various keynote and plenary sessions.

The following is a preliminary program outline to assist in your planning. Please note that the program is subject to change. A detailed program will be available shortly

## Preliminary Conference Program 14th AusIMM Mill Operators' Conference 2018

Tuesday 28 August	Wednesday 29 August	Thursday 30 August	Friday 31 August	Saturday 1 September
	<b>Day 1 Mill Ops' 2018</b>  Conference & Exhibition	<b>Day 2 Mill Ops' 2018</b>  Conference & Exhibition	<b>Day 3 Mill Ops' 2018</b>  Conference & Exhibition	
<b>W1: MetSoc Processing Plant Operators Forum</b>	<b>Welcome Reception</b>  Proudly Sponsored by  Mill Refining Systems	<b>Networking Hour</b>  <b>Conference Dinner</b>		<b>W2: Geometallurgy and Mineralogy for Mineral Processing</b>
Pre-conference Tours				<b>W3: Lithium Ore Processing</b>
Exhibition setup				
Pre-conference registration				
G D Delprat Distinguished Lecture				

# Network Functions

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## Welcome reception

This opening networking event sets the tone for the conference as the industry congregates at this function. The Welcome Reception is where you can catch up with old colleagues and form new contacts.

Date: Wednesday 29 August  
Venue: Brisbane Convention Centre  
Time: 5.30 pm – 7.30 pm  
Cost: Complimentary for all delegates  
Guests: A\$74

Proudly sponsored by:



Mill Relining Systems

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## Networking Hour

Following the second day of the conference, the Networking Hour is a superb networking opportunity for all delegates and exhibitors. Held amongst the exhibition, it's a chance to walk through the stands, relax and mingle.

Date: Thursday 30 August  
Venue: Brisbane Convention Centre  
Time: 5.30 pm – 6.30 pm  
Cost: Complimentary for all delegates  
Guests: A\$44

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## Conference Dinner

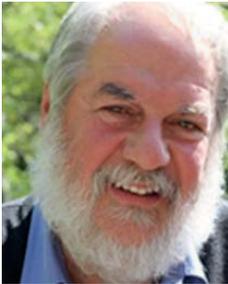
The social highlight of the conference! Join your fellow colleagues and enjoy a fabulous three course meal, beverages and entertainment.

Date: Thursday 30 August  
Venue: Brisbane Convention Centre  
Time: 7.00 pm for a 7.30 pm start  
Cost: Complimentary for all delegates  
Guests: A\$143

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# Keynote speakers

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## **JP Franzidis**

University of Cape Town

JP Franzidis studied chemical engineering at the University of Cape Town (UCT), and worked briefly in the mining industry before obtaining his PhD from the Open University in the U.K.

He joined the Chemical Engineering Department at UCT in 1983, and was involved in flotation research for over 30 years, publishing over 100 papers in refereed journals and conference proceedings. In 1996, he moved to the Julius Kruttschnitt Mineral Research Centre (JKMRC) at the University of Queensland, to lead the AMIRA P9 project.

He returned to UCT in 2007 as the founding Director of UCT's Minerals to Metals Signature Theme and UCT's inaugural South African National Research Chair in Mineral Beneficiation. He was instrumental in establishing UCT's Master of Philosophy (MPhil) degree specializing in Sustainable Mineral Resource Development, now in its fifth year.

He retired from UCT at the end of 2014, and lives in Australia, where he devotes himself to improving the writing skills of postgraduate students (and their supervisors!).

He continues to participate in the MPhil at UCT, as part of the teaching team of the Research Methodology and Communication course.



## **Neville Plint**

Director of the Sustainable Minerals Institute

Professor Neville Plint is the Director of the Sustainable Minerals Institute (SMI) at The University of Queensland (UQ) in Australia.

Neville holds a Chemistry degree, PhD and MBA from the University of Witwatersrand in Johannesburg, and brings extensive leadership experience and a deep understanding of the mining sector having worked for 20 years with Anglo American in South Africa.

His career has focused on delivering improved operational performance on mining sites by developing and implementing new technologies, whilst establishing a global network of research professionals in academic institutes, mining companies and research organisations.

**Andrew Newell MAusIMM(CP)**

Executive Consultant in Processing, RPM Global

Andrew graduated from the University of Melbourne with a B.E. in Metallurgy and a M.Eng.Sc. and more recently a PhD from the University of Cape Town. He has over 40 years of experience in a variety of engineering, operational, managerial and consulting roles in the fields of minerals processing, hydrometallurgy, plant design and process engineering. This includes base-metal, iron ore and industrial mineral concentrators, precious metals, uranium, nickel and copper leaching facilities and base-metal smelting. Andrew has designed flotation equipment (particularly columns) and concentrators, and commissioned flotation and precious metals leach plants. In addition, he has had considerable experience in process, project and process plant evaluations, due diligences, feasibility studies and metallurgical testing and program development.

Andrew is a member of the SME, CIMM, AusIMM (CP) & EA (CP).

He has published 30 papers and holds 13 patents.

Andrew has been with RPMGlobal as an Executive Consultant in Processing, for over 10 years, conducting Due Diligences, Studies and Consulting.

**Peter Munro FAusIMM**

Senior Principal Consulting Engineer, Mineralis Consultants Pty Ltd

Peter Munro graduated in Applied Chemistry from the University of Adelaide and worked in production and technical roles in both the Lead-Zinc Concentrator and Copper Concentrator of Mount Isa Mines Limited from 1970 to 1985. He was the Minerals Processing Research Manager from 1985 to 1987 and the Lead-Zinc Concentrator Manager from 1987 to 1993. From 1993 to 2000 Peter worked in the Brisbane office of M.I.M. Holdings Limited as an "internal consultant". Since 2000 he has been with Mineralurgy Pty Ltd, a specialist processing consultancy to the minerals industry where he is a Senior Principal Consulting Engineer.

# List of papers

## Automation

Developing flotation circuit control and automation at the Phu Kham copper-gold concentrator – D Baas and L Mikhael GuriEFF

## Best practice in plant operations

Increasing throughput at Phu Kham operation – a success story – R Chandramohan, R Braun, G Lane, K Hollis, J Le and D Baas

But will it make a dollar? Quantifying the case for even slurry distribution – S G Doig, S H Algie and I-A Lovatt

Application of a net smelter return model within a polymetallic base metal processing plant – W J Downie

Understanding minerals in mineral processing – the basics and beyond – C L Evans and E M Wightman

Keeping up with the Joneses – the value of industry surveys and benchmarking – T D H McGrath and W P Staunton

Advanced Mine to mill application at the Barrick Cortez mine – M Powell, S Kanchibotla, V Jokovic, M Hilden, P Moyo, E Yalcin, B Gorain, P Yaroshak, J Young, B Bonfils, S Yu and A Musunuri

The designed approach to mill liner optimisation – experience at Pustynnoye mine, Kazakhstan – M Powell, M Yahyaei, J Geronimo, Z Yussupova and P Kuma

Modular SAG mill discharge trommel for maintenance flexibility and performance – J D Pyke, K Katov and S T Ciutina

Metal cap versus steel lining system at Philsaga Mining Corporation's Ø6100 mm SAG Mill – N S Weerasekara, E Lessing, S Town and J A De Torres

## Comminution circuit operation and optimisation

Ahafo SAG mill performance improvements by optimising the pulp discharge system – E Asakpo, A Heath and S Chaffer

An operator's and equipment designer's guide to maximising ball mill circuit classification system efficiency – K M Bartholomew, R E McIvor and O Arafat

Improved forged grinding media performance with carbon content greater than 1.0% – M Bovell, R Bose and G Cheong

Guidelines for grinding circuit optimisation – A Giblett and B Putland

A case study of fine grinding optimisation scaling up from lab test to industrial production – J King, A Wang and R Xu

Quantifying the energy efficiency transformation at Cadia due to HPGR crushing – G S Lane, J Seppelt and E Wang

Going beyond design at Newmont Boddington Gold – C McCamley, P Petrucci and K Blay

SAG mill drive train modernisation at OK Tedi Mining in PNG – M C Neurohr and A Bowler

Shifting the comminution workload from the primary ball mill to TowerMill circuit – S Palaniandy, R Halomoan and H Ishikawa

Mount Carlton comminution circuit design, start-up and optimisation – B Putland, I Lovatt, A Cervillin and D Schwann

The evolution of the Cadia 40' SAG mill to treat the Cadia East orebody – a case study of incremental change leading to operational stability – A Rice, T Waters, B Akerstrom and J Seppelt

21st century relining – the path to greater mine site profitability – P Rubie and J Russell

An economic approach to optimising mill reline frequency – a case study of SAG mill relines at Rasp Mine – C M Standen

# List of papers

Automated, online measurement of bulk material size distribution on conveyor using 3D profile imaging at Boliden Mines – M J Thurley, D Degerfeldt, J Nyström, R Nordenskjöld and L Lindqvist

Getting the most from existing processes – using cleverly designed experiments to optimise the line 3 AG mill at Boyne Smelters Limited – T G Vizcarra, M G Hart, A T Karbowiak and T J Napier-Munn

Process optimisation opportunities in comminution circuits – M Yahyaei and M S Powell

## Dewatering

Tailing filtration practices in Mexican gold and silver mines – R Espinosa-Gomez, S Gomez-Hernandez and P D Munro

## Emerging technologies

Mineral liberation studies of IMPTEC SFC – 130 crushed product – E Baawuah, C Kelsey, J R Kelly, J Addai-Mensah and W Skinner

Toe angle measurement for SAG mill control at Lihir Gold mine – F Burns, C Aisthorpe, M Randall and P Ebzery

## Flotation circuit operation and optimisation

Cleaner circuit optimisation at Cadia Operations – B Akerstrom, J Seppelt, T Waters, J Bubnich and D Seaman

Flotation concentrate launder design and the measurement of critical froth transport parameters – how accurate is industry ‘rule-of-thumb’ at an operational level? – R Coleman and B Wong

Challenging the accepted norms in nickel flotation – S Emery, N Tercero, S Szabo and M Flynn

Effects of pulp chemistry on plant and laboratory flotation modelling – C Greet, A L Randriamanjatosoa, K Selga and G Small

How to find the optimum air rate for flotation cells – K Hadler and J J Cilliers

Nova copper-nickel project optimisation of the copper rougher-scavenger circuit through advanced measurement and control – S W Lam, N Vines, G Gones-Sebastiao, D van der Spuy, P J J Strabos and A P Paine

Pyrite depression at Boliden Tara using F-250 – a biopolymer – R A Lauten, C Burns, Y Mu and Y Peng

A reliable solution for pumping mineral froth with challenging froth volume – P Loderer and A Roudnev

High shear rotor trials in the Mount Isa mines copper concentrator – M Muller and H Law

Flotation circuit efficiency improvement at Northern Star Resources Limited’s Kanowna Belle gold mine – A Nugraha, K Tatetdagat and H Thanasekaran

Optimising flotation plant operation by using a ‘digital twin’ in the control room – S J Oliver

Glencore Mt Isa lead zinc flotation circuit – experiences from the implementation of model predictive control – A Price, D Okle and K Brooks

Improving fine sulphide mineral recovery in the Jaguar zinc circuit – R Smiles and B Lumsden

Flotation control using froth stability – past, present and future – C D Smith, K Hadler and J J Cilliers

## Geometallurgy

Geometallurgy applied to small-scale mining case study – D Lozada and A Salazar

Selectively targeting hydrophobic gangue minerals at the Mount Isa Mines copper concentrator – A R O’Donnell and M Muller

# List of papers

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## Gravity circuits operation

Addressing challenging gravity gold recovery applications – A King and J Carrillo

## Hydrometallurgical operations

The trajectory of a technology – 20 years of the Albion Process™ – M Hourne, P Voight and D Turner

What category cyclone is devastating your plant? – B Wong and T G Vizcarra

## Operating updates / newly commissioned plants

Optimisation of Asanko's Obotan SABC circuit to achieve Project 5M – R Bradford, W Gift-Agbey, E Grobler and P Morgan

Optimise comminution using shovel-based fragmentation analysis – P Cameron, T BoBo and D Kraemer

Carbon kiln selection, operation and maintenance – J K Claflin, S R La Brooy and A M Claflin

The application of secondary crushing at the Jundee gold mine – K Matson, S Tyrrell and B Jackson

Optimizing the operation of paste thickening at Yara Siilinjärvi plant – E Ruhanen, M Kosonen, S Kauvosaari and C Meintjes

## Preconcentration

Characterising energy efficiency of particle sorting – G R Ballantyne, M Hilden, J van Zyl and K Bartram

High voltage pulse pre-concentration study using a low grade Cu-Au ore – W Huang, F Shi, C Antonio, K Runge and D Seaman

Ore preconcentration by bulk sorting using real time elemental analysis – H Kurth and L Balzan

The upgrading of low grade nickel ore stockpiles at Western Areas Ltd's Forrestania Operations using a mobile ore sorting plant – A Parry and C Fitzmaurice

# General information

## Conference venue

### **Brisbane Convention & Exhibition Centre**

Cnr Merivale and Glenelg Streets  
South Bank, Brisbane  
Queensland Australia  
Website: [www.bcec.com.au](http://www.bcec.com.au)

## Accommodation

The OzAccom Group has been appointed as the official accommodation and travel provider for the 14th AusIMM Mill. Should you wish to make a booking, please reserve your room online via:  
<https://ep.ozaccom.com.au/public/MIL18/accommodation.aspx>  
Free call Australia 1800 814 614 or +61 7 3854 1611  
Email: [ozaccom@ozaccom.com.au](mailto:ozaccom@ozaccom.com.au)

## Event management

### **The AusIMM**

#### **Claire Stuart**

Coordinator, Publishing  
The Australasian Institute of Mining and Metallurgy (The AusIMM)  
PO Box 660, Carlton South, VIC 3053, Australia  
Telephone: +61 3 9658 6105  
Email: [conference@ausimm.com.au](mailto:conference@ausimm.com.au)  
Website: [www.ausimm.com](http://www.ausimm.com)

## Registration desk

The registration desk will be open during the following hours:

Tuesday 28 August 2018	4.00 pm – 6.00 pm
Wednesday 29 August 2018	7.30 am – 5.00 pm
Thursday 30 August 2018	7.30 am – 5.00 pm
Friday 31 August	8.00 am – 3.00 pm

## Name badges

Proudly sponsored by:



All participants at the conference will be issued with a name badge upon registration. Your name badge is the official pass to all sessions and must be worn at all times. Lost name tags can be replaced at the registration desk.

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## Special requirements

Every effort is made to ensure people with special requirements are catered for. Should you require any specific assistance or have dietary requirements, please include a notation with your registration form to enable us to make your visit a pleasant and comfortable experience.

## Visa information

All travellers to Australia must have a valid visa before boarding their plane. Travellers to Australia cannot apply for a visa on arrival, with the exception of New Zealand and Norfolk Island passport holders, who will be issued a visa on arrival in Australia.

We strongly advise all participants to apply for a visa at least eight weeks in advance of their intended date of travel. Please see the Department of Immigration and Border Protection's website for further information: [www.border.gov.au](http://www.border.gov.au)

## Dress code

The dress code for the conference, social functions and workshops is smart business casual.

## Justification of Attendance

We know that travel and training budgets are tight and it can be difficult to get approval to attend events and conferences. A letter that helps to justify your attendance can be downloaded from the conference website. It details the reasons why attending the 14th AusIMM Mill Operators' Conference is beneficial for you and your company.



CELEBRATING  
**125**  
YEARS

### Special conference offer

We are pleased to offer non-members attending the conference **complimentary AusIMM membership** for 2018, a saving of more than \$500. Visit the AusIMM stand to complete your application form.



### Benefits of AusIMM membership

AusIMM members receive a significant discount on the conference and its related activities – usually greater than your annual membership fee.

Visit the AusIMM display at the conference to:

- Purchase event proceedings, books and technical journals at the special 25% discounted member rate.
- Find out more about our products, services and activities.
- Join or renew your membership.

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AusIMM  
PD HOURS

Maintaining your knowledge and skills through Professional Development (PD) activities ensures you continue to be a leader in the minerals industry.

AusIMM members can record PD hours in our free online PD logbook available at [www.ausimm.com](http://www.ausimm.com)

Leadership for resources professionals

# Conference Workshop Program

## W1: MetSoc Processing Plant Operators Forum

Tuesday 28 August 2018

The inaugural AusIMM Metallurgical Society (MetSoc) Plant Operators Forum is a one day session that will provide a low cost opportunity for operations personnel to engage in discussions on operational challenges and successes covering a wide range of aspects including metallurgical performance, production, maintenance, safety and environmental management.

Presentations will be given by operations based personnel from a diverse range of companies including Newcrest, Evolution, Independence Group, Goldfields, Newmont, AngloGold, PanAust and Agnico Eagle.

Topics cover several aspects of plant operations including safety, geometallurgy, flotation, process optimisation and tailings management. The program

will allow for opportunities for attendees to discuss the presentations, table specific issues or topics relevant to their site and to participate in discussion forums on all relevant aspects of plant operations.

<b>Cost:</b>	AusIMM member: ABT Non-member: TBA
<b>Time:</b>	9.00 am – 5.00 pm
<b>Venue:</b>	Brisbane Convention Centre



## W2: Geometallurgy and Mineralogy for Mineral Processing

Saturday 1 September 2018

The ultimate goal of a mineral processing project is to recover as much of the valuables as possible from the ore being treated to achieve the best economics. Process selection and plant operation are the most important steps in achieving this goal. However, geological and mineralogical characteristics and parameters of an orebody such as grade, bulk mineralogy, metal deportment and ore hardness often vary vertically and laterally, and the variability has a direct impact on mineral processing and extractive metallurgy. It is important for mineral processors to understand the mineralogy and variability of the ore to be processed in the mill during flowsheet development and plant optimization.

With the aim of doing the right thing – using geometallurgy and mineralogy to pave your way to project success, this workshop will introduce the geometallurgy basics such as the definition, objective, approach and application of geometallurgy, and then focus on the characterisation of mineralogical issues encountered in processing various ores (mainly precious and base metals ores), and demonstrates how to develop the optimum flowsheet for a new ore and to optimize the process for an operating plant through geometallurgical and mineralogical studies. Case studies will be provided from a variety of processing options such as gravity separation, flotation, cyanidation and pre-oxidation.

Participants will have the opportunity to discuss their plant practices and processing problems.

This workshop is designed for process metallurgists and engineers working in process design, flowsheet development and plant operation, however, other staff from exploration, engineering, research and consulting companies can also gain benefit from attending.

### Workshop Presenters:

**Joe Zhou**, Principal Consultant and Managing Director, Joe Zhou Mineralogy Ltd., Canada

**Dr Jing Li**, Manager of Mineralogy Department and Senior Mineralogist, Zijin Mining Group, China

**Dr David A. Steele**, Laboratory Manager, CARF, Queensland University of Technology, Australia

<b>Cost:</b>	AusIMM member: A\$850 (GST inclusive) Non-member: A\$1000 (GST inclusive)
<b>Time:</b>	9.00 am – 5.00 pm
<b>Venue:</b>	Brisbane Convention Centre



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# Conference Workshop Program

## W3: Lithium Ore Processing

Saturday 1 September 2018

This workshop examines the current state of the processing of lithium ores to a battery-ready product. The topics covered include an overview of why there is demand for lithium, lithium geology, comminution, coarse and fine particle separation methods, typical flowsheets, conversion of concentrates and a summary including some specific things to be aware of.

The workshop is primarily about hard rock resources but also has an overview of brine resources and processing.

<b>Cost:</b>	AusIMM member: A\$880 (GST inclusive) Non-member: A\$990 (GST inclusive) Student: A\$220 (GST inclusive)
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<b>Time:</b>	9.00 am – 5.00 pm
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<b>Venue:</b>	TBA
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AusIMM  
PD HOURS

## G D Delprat Distinguished Lecture Series

Tuesday 30 August 2018



### Special Guest, Professor Geoffrey Blainey AC

To celebrate the AusIMM's 125th Anniversary, the Metallurgy Society are pleased to announce that the 2018 Delprat Lecture Series will be delivered by preeminent historian Professor Geoffrey Blainey.

Geoffrey Blainey is one of Australia's most significant historians. His impeccably researched presentations delivered with humour, reveal breathtaking insight. His vast knowledge and historical understanding reinforce his growing reputation as a futurist in both the economic and business milieu and on social and political trends.

A social and economic historian, his book *The Tyranny of Distance* (a history of the effect of isolation on Australia) gave the term international currency. He is equally well-known as a social commentator whose penetrating and often provocative statements have made headlines and stirred national debate.

Naturally, Professor Blainey's lecture will be a historically themed commentary of the Australian mining industry, with a highlight being his memories of personally meeting with GD Delprat and other mining luminaries in the 1950's. Each lecture will be unique, linking local themes relevant to the location with the importance of mining and metallurgy in Australia's history.

# Mill Operators' conference 2018 registration form

All participants are required to officially register to attend the 14th AusIMM Mill Operators' Conference 2018. Please complete the below registration form or visit the conference website to register online.

## 1 PERSONAL INFORMATION

Title - Prof / Dr / Mr / Mrs / Miss / Ms (Please circle) \_\_\_\_\_

Last Name\* \_\_\_\_\_

First Name\* \_\_\_\_\_

Preferred Name\* \_\_\_\_\_

AusIMM, CIM, SAIMM, SME Number (if applicable) \_\_\_\_\_

AusIMM Member Post-nominals (if applicable) \_\_\_\_\_

Organisation\* \_\_\_\_\_

Position\* \_\_\_\_\_

Address\* \_\_\_\_\_

City\* \_\_\_\_\_ State\* \_\_\_\_\_

Post Code\* \_\_\_\_\_ Country\* \_\_\_\_\_

Telephone\* \_\_\_\_\_ Mobile \_\_\_\_\_

Email\* \_\_\_\_\_

- Please indicate (✓) if you do **NOT** wish to appear on the list of participants provided to all delegates at the event containing name, position, company and email address
- Please indicate (✓) if you do **NOT** wish to receive future AusIMM event information, professional development opportunities and discount offers

### Special Requirements

Please advise any special requirements regarding diet and mobility below

## TERMS AND CONDITIONS

I hereby agree to be bound by the registration terms and conditions.

### ATTENDANCE

Only pre-registered, pre-paid registrants will be guaranteed access to the event. Upon receipt of your registration and payment, The AusIMM will send registration confirmation.

### REGISTERING ON-SITE

On-site registrants, with payment only, will be admitted on space availability.

### AusIMM MEMBER RATES

To qualify for the special rates of 'AusIMM Member' as quoted on the registration booking form, you must be a financial (paid) member. AusIMM 2018 Membership Fees were due by 1 January 2018. Non-member registration fees apply to all non-members and non-financial AusIMM members.

### METHOD OF PAYMENT - CREDIT CARD ONLY

Payment must accompany all registrations. We accept the following credit cards: Visa, AMEX, Diners and MasterCard. All enquiries regarding payments, please telephone +61 3 9658 6120

### STUDENT REGISTRATION

A student must be currently enrolled full-time at a tertiary institution. Proof of full-time status must be submitted with the registration form.

### REGISTRATION ENTITLEMENTS

#### Full registration:

- Access to all conference technical sessions (excluding workshops)
- Lunch, morning and afternoon teas daily
- Conference name badge and satchel
- Conference printed or USB memory stick proceedings
- One (1) ticket to the Welcome Reception
- One (1) ticket to the Networking Hour
- One (1) ticket to the Conference Dinner\*

\* Student registration excludes attendance at the Conference Dinner and additional tickets must be purchased to attend.

#### Day registration:

- Access to all conference technical sessions on designated day (excluding workshops)
- Lunch, morning and afternoon teas on designated day
- Conference name badge and satchel
- Conference printed or USB memory stick proceedings
- Attendance at the networking function on the evening of your registration

#### PRIVACY POLICY

The AusIMM is a professional institute that relies on the use of personal information to provide support and services to members and non-member stakeholders and customers of AusIMM services. We rely on comprehensive and accurate personal information about our members and non-members who engage with the AusIMM.

The main purposes for which we collect, hold, use and disclose personal information are to provide services and benefits for our members and to maintain and extend our membership. We collect information from members and non-members so that we can provide services, manage our professional relationships, manage our business, comply with our legal obligations, communicate effectively and enhance the level of service being offered. Please visit the conference website to view the policy.

At the time of registering for this event, you have the option to indicate whether or not you agree to the AusIMM contacting you for promotion of future events, professional development opportunities and discount offers.

### PHOTOGRAPHY

By attending this event, I consent to my image being taken and used at the discretion of the AusIMM.

### CONFIRMATION OF BOOKINGS

Conference registrations will be acknowledged as they are received with payment in full. Please check the confirmation letter and advise of any alterations immediately.

### CANCELLATION POLICY

Cancellations of registration must be in writing only. Refunds will apply as follows:

- More than 28 days before the conference - **Full refund**
- 28-7 days before the conference - **Refund (less A\$500 administration charge)**
- 7 days or less before the conference or non-attendance - **No refund (no exceptions)**

An organisation may send an alternative delegate if registration has been paid and the registered person is unable to attend due to unforeseen circumstances. In such cases, Event Management must be advised of the change prior to the conference.

### WAIVER OF LIABILITY

The AusIMM accepts no liability to any persons or body for any loss, injury or damage caused, organised, promoted or sponsored by the AusIMM.

## 2 CONFERENCE REGISTRATION Please indicate (✓)

Conference fees are quoted in Australian dollars and include 10% Goods and Service Tax (GST).

FULL REGISTRATIONS		Total
AUSIMM MEMBER	<input type="checkbox"/> \$1342	\$
AUTHOR	<input type="checkbox"/> \$1122	\$
NON-MEMBER	<input type="checkbox"/> \$1980	\$
INTERNATIONAL DELEGATE	<input type="checkbox"/> \$1342	\$
NEW PROFESSIONAL MEMBER	<input type="checkbox"/> \$1122	\$
STUDENT AUSIMM MEMBER	<input type="checkbox"/> \$330	\$
STUDENT NON-MEMBER	<input type="checkbox"/> \$440	\$

DAY REGISTRATIONS		Total
AUSIMM MEMBER	<input type="checkbox"/> \$660	\$
NON-MEMBER	<input type="checkbox"/> \$990	\$
Day attending	<input type="checkbox"/> Wed 29 Aug <input type="checkbox"/> Thur 30 Aug <input type="checkbox"/> Fri 31 Aug	
<b>TOTAL</b>		<b>\$</b>

## 3 NETWORKING FUNCTIONS

Please indicate your attendance at all functions and advise if additional tickets are required. Boxes not ticked indicate you will not be attending.

Function	Complimentary Attendance	Guest/Additional Tickets	Total
Welcome reception	<input type="checkbox"/> Yes	\$74 pp ( ) ticket/s	\$
Networking hour	<input type="checkbox"/> Yes	\$44 pp ( ) ticket/s	\$
Conference dinner	<input type="checkbox"/> Yes	\$143 pp ( ) ticket/s	\$
<b>TOTAL</b>			<b>\$</b>

## 4 CONFERENCE PROCEEDINGS

The choice of either one USB proceedings or one printed proceedings is included in full and single-day registration. Please indicate below which format you would like to receive. Additional copies of both formats can be purchased by indicating below.

Please select your preferred proceedings format:

- Printed proceedings  USB proceedings

Proceedings	Additional proceedings	Total
Printed proceedings	\$110 ( ) copies	\$
USB proceedings	\$88 ( ) copies	\$
<b>TOTAL</b>		<b>\$</b>

## 5 WORKSHOPS

Workshop	AusIMM Member	Non-member	Total
W1: MetSoc Processing	<input type="checkbox"/> EOI	<input type="checkbox"/> EOI	\$
W2: Geometallurgy	<input type="checkbox"/> \$850	<input type="checkbox"/> \$1000	\$
W3: Lithium Ore Process	<input type="checkbox"/> \$880	<input type="checkbox"/> \$990	\$
2018 Delprat Lecture	<input type="checkbox"/> \$0	<input type="checkbox"/> \$0	\$
<b>TOTAL</b>			<b>\$</b>

## 6 CONFERENCE TECHNICAL TOURS

Tour	Cost	Tickets	Total
T1: TBA	\$TBA ( ) ticket/s	\$	\$
T2: TBA	\$TBA ( ) ticket/s	\$	\$
<b>TOTAL</b>			<b>\$</b>

## 7 PAYMENT - TAX INVOICE (INC 10% GST) ABN 59 856 002 494

**CREDIT CARD ONLY** - Please (✓) debit my:

Visa  Mastercard  AMEX  Diners Card

Card No. \_\_\_\_\_

Expiry Date: \_\_\_\_\_ CSV Number: \_\_\_\_\_

Signature: \_\_\_\_\_

Please print name of cardholder: \_\_\_\_\_

## How to register