

## Headlines

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## PAST EVENT: Technical Meeting Monday 09 April 2018

**Venue:** The Celtic Club, 48 Ord St, West Perth

**Speakers:** Dr Madeline Wu

**Topic:** the Return on Investment at the organisational levels.

**Speakers:** Jeanne Boles

**Topic:** The CPPD takes the CRM theory and puts it into practice, both at the individual and organisational levels

### The presentations will cover –

Dr Madeline Wu holds a PhD degree in Industrial Psychology from the University of Western Australia, and a BA (Hons) degree from Murdoch University. For the past 17 years Dr. Wu has worked in both academia and risk management consulting in the mining, oil and gas, utilities and transportation (roads/aviation) industries. She is currently developing her PhD study of team leadership into the design and delivery of both crew and maintenance resource management training in high reliability/risk industries. The focus of these programs is on enhancing employee well-being, safety, production and performance at the individual level, which ultimately impacts the Return on Investment at the organisational levels.



Jeanne Boles holds a Masters of Engineering and from Loughborough University and a diploma in Advanced Design, Manufacture and Management from the University of Cambridge. For the past 15 years, Miss Boles has worked in the Oil and Gas industry, in roles varying from field operations, to management and training. Her most recent Technical Training programs include Well Control training for crews that work on well sites. Dr. Wu has developed a hands on Crew Resource Management (CRM) training course and Continuous Personal and Professional Development methodology (CPPD). The CPPD takes the CRM theory and puts it into practice, both at the individual and organisational levels



### Cost:

Free for all Attendees

### Includes:

Networking from 5:00pm

Technical Talk from 6:00pm

This technical meeting is brought to you by The AusIMM Perth Branch and is worth 1 PD hour





## AusIMM Perth Branch partnership with CORE

The AusIMM Perth Branch has committed to a 12-month Network Partner agreement with CORE Innovation Hub in the Perth CBD.

As part of this agreement, Perth Branch members together with visiting Western Australian members are invited to access and utilise a managed, co-working 'hot desking' space, located on the Ground Floor and Basement level of 191 St George's Terrace, Perth.

The purpose of this 12-month arrangement is to encourage inter/intra-member networking, expose members to ongoing collaboration initiatives and strengthen a wide range of partnership and innovation opportunities across the resources sector.

This facility offers 'hot desk' options – desk, quiet corner (including kitchenette and complimentary WiFi) together with access to CORE's event programs.

With a view to accelerating professional development, the Perth Branch will continue hosting its Masterclass Series at the CORE venue, where other events such as hackathons, presentations, sundowners and workshops will also be held.

AusIMM Western Australian members are also encouraged to attend the following regular events:

- **Member Monday Morning Tea:** 10am every Monday in the CORE entrance. [Start the week sharing news and ideas with other members] BYO coffee.
- **Member Happy Hour:** 4.30pm every Friday.
- **Meet the Innovator:** 5pm on the first Wednesday of the month in the Basement. [Each month a guest Innovator shares insights about their work, global opportunities and professional journey].

For both under-utilised and over-utilised members, a significant benefit of co-working is the opportunity it provides to forge new connections. With this in mind, please do introduce yourself to others in the space.

### Member Access

Members can arrange access to CORE's facilities for up to one day at a time. To take advantage of this opportunity, email [PerthCore@ausimm.com.au](mailto:PerthCore@ausimm.com.au) at least one day before you plan to work from CORE, with the date and time you require access. You will be individually provided details on how to access the space, together with relevant CORE contacts.

## ROVING REPORT

Well, it's been a while...

I'm afraid I fell off the world a little when I shifted to Asia – figuratively rather than literally – and in so doing got utterly behind in most things in my life including my good intentions to keep up my roving report. A number of people, well one actually...OK, it was just me, wondered what had happened and I have to be upfront and confess it was down to a couple of the seven deadly sins and certainly sloth that had me miss a few deadlines and get utterly behind. But, for those that didn't even miss me a little bit, here I am maintaining continuity now that I'm happily back in South America.

2018 saw me return to Chile after almost two years in Asia and almost five years since I last worked here full-time. There have been a number of changes since my last three-year stint here. The economy has been through some hard times, not least because GDP remains hugely dependent on the mining industry, which we all know has been suffering terribly for the past few years. However, construction cranes are everywhere and there are so many new buildings in neighbourhoods like Nuñoa that I get very disorientated. Downtown the mix of immigrants from other parts of South America and the Caribbean have lent a new face to street vendors, small cafes and even the city's fountains where it is not unusual to find people washing their clothes and their hair on a warm summer's day.

As far as the mining world is concerned, a new wave of confidence is spreading. I came here to work on the Pascua Lama project – a project that has been around for some twenty years and is owned by the world's biggest gold producer, Barrick Gold. High up in the Andes and spanning both Chilean and Argentinean sides of the border, a project that initially was supposed to have cost \$1Bn has grown to somewhere between \$9Bn and \$11Bn, depending on who you listen to. Opposition has come from environmentalists, concerned as to the effect on pristine glaciers in the area, and from pastoralists and communities concerned as to the potential loss of precious water supplies.



Such opposition, together with fines and conditions imposed by the Chilean SMA and an order to close facilities on the Chilean side of the border have led Barrick to reconsider the development plan for the project from a large, 45ktpd open pit mine to a more modest 15ktpd underground block cave. Barrick announced that they are going back to the drawing board and so I am turning my hand to a few other opportunities while I am here.

These include a resurgence of interest in Perú and I have found myself working on a number of proposals for Nexa Resources (the merger of Votoromin and Milpo), Goldfields and Barrick once again. Projects with exotic native names such as Pukaqaqa, (pronounce that if you can) in far flung and high altitude locations.

I was also reminded of the sheer quality of engineers one encounters in Chile. The last few years have been hard for students in mining-related subjects across the globe as they struggled to find employment after years of hard study. It's encouraging seeing lots of new hiring going on and Chilean engineers are well placed to find good jobs upon graduation and cut their teeth on some of the largest and most challenging projects and mines one might find anywhere.



## Universidad de Chile

“La U” – to use the name of the associated soccer team – is the oldest university in Chile, having been established in 1843. Its five Santiago campuses cover over 1.7 km<sup>2</sup> of land and incorporate museums, theaters, healthcare facilities and sports centres for its 40,000 students.

The mineral and mining engineering schools feature in the top 10 in the world.

I write this at the beginning of March, the month when the schools and colleges reopen after their summer break, and long-faced, but sun-bronzed staff, reluctantly return to their offices after taking their vacations on the coast or at least outside Santiago to the North or South. The roads of Santiago are once again clogged in the morning and evening rush hours. The Chilean expression is “el Taco”, a word that as well as its culinary meaning is the term for a high heel. Very confusing!

Despite the weekday traffic jams, it’s great to see that Santiago has really been promoting cycling as a means of travel.

Not yet the wonderful cycleways of Perth, but moves in the right direction at least. Most communes feature “Boris’ Bikes” that one can register to hire and simply ride for a few hours and return to a docking station.

Delightfully on a Sunday, many roads in Providencia are closed to vehicular traffic and one can cycle along the banks of the Rio Mapocho or explore wonderful tree-lined neighbourhoods along with fellow cyclists, stopping from time-to-time to enjoy a coffee or even a pisco sour. Yum !



Saludos cordiales to all, Richard

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## Students Meet Industry Evening

On the 15<sup>th</sup> of March the AusIMM Perth Student Chapters hosted their annual Students Meet Industry Night. The event brought together over 160 students and professionals to network over canapés and drinks at the Royal Perth Golf Club.

There were 16 companies in attendance on the night showing their ongoing support to students with vacation and graduate work opportunities. Students studying a range of minerals disciplines attended from UWA, Curtin and Murdoch Universities.

There were also 3 amazing keynote speakers who touched on their careers in the industry and passed on some words of wisdom for those starting out. It was a great night for the Perth minerals students who were able to network with future colleagues and get an idea of what it is companies are looking for in their vacation students and graduates.

The AusIMM Perth Student Chapters would like to thank the major sponsors for the night:

- **Northern Star Resources Limited**
- **Rio Tinto**
- **Process I**
- **AngloGold Ashant**
- **ALS**
- **FMG**
- **Auesenco**

Without them, the event would not have been possible.



## 2018 PERTH BRANCH ANNUAL DINNER – SPONSORED BY AGGREKO

The Perth Branch Annual Dinner was kindly sponsored by industrial and commercial power generators **Aggreko**. A big thank you goes out to David Camacho for his personalised address to our attendees and of course the pleasure of meeting Peta, his wife.













## Notice of Ethics Committee finding

As published in the February edition of the AusIMM Bulletin, Mr Brian Davis of Willetton, WA and Mr Allen John Maynard of Subiaco, WA prepared separate public reports on the same early development mineral deposit using a valuation primarily based on the *in situ* value of the metal.

The Ethics Committee found the reports to be in breach of the VALMIN (2015) Code which, consistent with the JORC (2012) Code, specifically excludes the publication of *in situ* valuations (VALMIN Clause 8.4).

The Ethics Committee considered these breaches serious enough to warrant a suspension of membership of four months for Mr Davis who produced the original report, and six months for Mr Maynard who produced a similar subsequent report. Both suspensions commenced in November 2017.

Members are reminded of their obligation to comply with the AusIMM Code of Ethics and all other codes prescribed by the Board, including the JORC and VALMIN Codes.

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## Resourcing our Talent Pipeline

Earth Science Western Australia (ESWA) is delighted to be moving into another year of improving the quality of earth sciences and STEM education for students, teachers and the wider community. This exciting and important work continues thank you to the long-standing support of a number of organisations, such as the AusIMM.

ESWA works to create, produce and deliver innovative, valuable earth sciences education materials and experiences. Education materials are all curriculum-linked and promote student engagement. These include, teacher resource packages full of hands-on activities, animations available on YouTube, and an iPad app. For senior school students, ESWA has produced the textbooks for Earth and Environmental Science, as well as geological field guides for Perth and the Capes region of Southwest, Western Australia (also very popular with geologists and enthusiasts). In support of these materials, ESWA delivers engaging and hand-on incursions across Western Australia and geological field activities across Perth, the Southwest and Kalgoorlie. In 2017 alone, 5,102 students, from Kindergarten to Year 12, were engaged in these activities.

To ensure the earth sciences materials we produce are implemented in the best possible way, ESWA provides professional development opportunities at teaching conferences, network meetings, school development activities and special events. This training is also provided to pre-service teachers at all major universities across WA. As a result of this extensive engagement 1,636 teachers were involved in professional development with ESWA in 2017.

Increasing awareness of the wide range of careers opportunities that earth sciences provide is vital to ESWA's core business. In pursuit of this we provide careers based incursions for students in secondary schools and assist with, and run, careers based events. A recent highlight for us in this space was the live stream event we hosted in celebration of the International Day of Women and Girls in Science. This event allowed us to stream to students across the state (and wider) to share stories from women in a range of science roles and facilitate Q&A sessions. Another popular event we are delighted to be part of is Get Into Resources. A careers event with a difference, one that allows students to engage with industry professionals in small group settings for a hands-on taste of some aspect of what they do.

With a growing focus throughout education and the resources industry on STEM education and skills we continue to strive to further the recognition of earth sciences as an integral part of STEM. This will be ramped up in 2018 with the creation of STEM projects for schools, based on important earth sciences concepts and understandings.

If you are keen to learn more about what is happening in this space or to partner with us please visit [www.earthsciencewa.com.au](http://www.earthsciencewa.com.au) for more information.

## DMP publishes new Guidelines for Mining Proposals in Western Australia

**Date:** Friday, 24 June 2016

Western Australia's resources industry is set to benefit from improved clarity and a reduction in unnecessary regulation as a result of new guidelines published by the Department of Mines and Petroleum (DMP).

The new [Guideline for Mining Proposals in Western Australia](#) aims to establish a risk and outcome-based regulatory framework for environmental assessment and management of mining activities throughout the State.

The document outlines DMP's move towards to an 'activity-based' approval system which is expected to bring a number of significant benefits and mean that each mine site will only need to have one approved Mining Proposal.

Furthermore the new guidelines will prevent unnecessary minor amendments from having to be formally assessed by DMP officers and allow for greater approvals flexibility as well as promoting innovation and best practice.

DMP's Executive Director Environment Dr Phil Gorey said the guidelines were designed to deliver an outcome-based assessment and approval process.

"These new guidelines form an essential part of DMP's ongoing Reforming Environmental Regulation (RER) initiative which aims to provide a framework for risk and outcome-based decision making," Dr Gorey said.

"The new Mining Proposal Guidelines will ensure that the department's regulatory effort is both targeted and proportionate in order to protect environmental values in an effective, efficient and timely manner.

"The new guidelines were drafted following extensive consultation and feedback from stakeholders and have been widely supported by industry."

Link: <http://www.dmp.wa.gov.au/Documents/Environment/ENV-MEB-213.pdf>



## Technical Talk Downloads and DVDs

Dear Members,

All Technical Talks up to February 2014 are filmed and are available for downloading free to members. Please see the AusIMM Shop or AusIMM YouTube channel for these talks.

Selected talks after Feb 2014 have been recorded as podcasts, with accompanying PowerPoint slides. Please contact the branch directly ([perth@ausimm.com.au](mailto:perth@ausimm.com.au)) for details.

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## Perth Women's Auxiliary

- Telephone and Postal Correspondence

Barbara Steemson is now the person to contact for **ALL** information, enquiries or to give apologies.

If phoning please leave message on answering machine if Barbara not available and she will get back to you.

- Email Correspondence

Lorraine Mackay will monitor the email correspondence and forward as necessary.

### Perth Women's Auxiliary Committee 2015

<b>President</b>	Barbara Steemson
<b>Main Contact, Gifts &amp; Speakers</b>	Barbara Steemson
<b>Vice President/Minutes Secretary</b>	Rosemary Morrow
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### NEWSLETTER ADVERTISING RATES

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Advertisements Size	Per Issue/month
Full page (A4):	\$440 (gst excluded)
Half Page	\$220 (gst excluded)
Third Page	\$143 (gst excluded)
Quarter Page	\$110 (gst excluded)
Business Card size	\$55 (gst excluded)

Dimensions are only approximate and will be edited to fit the space available

Inserts (PDF version to be supplied)

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An invoice will be sent to you. Please post payment to the Treasurer,  
Perth Branch The AusIMM, PO Box 1369, West Perth, WA, 6872.

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<b>MinSoc Liaison</b>	Richard Beazley
<b>MetSoc Liaison</b>	Richard Williams Dean David
<b>Editor/Secretariat</b>	Deidre Watson
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Perth Student Chapter Presidents 2017		
<b>Curtin Student Chapter President</b>	Anthony Pietruszko	<a href="mailto:CurtinSC@ausimm.com.au">CurtinSC@ausimm.com.au</a>
<b>Murdoch Student Chapter President</b>	Daniel Dass	<a href="mailto:MurdochSC@ausimm.com.au">MurdochSC@ausimm.com.au</a>
<b>UWA Student Chapter President</b>	Julian Jackson	<a href="mailto:UwaSC@ausimm.com.au">UwaSC@ausimm.com.au</a>



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<b>WASM Liaison</b>	Oktay Erten MAusIMM
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<b>Committee</b>	Tim Mills MAusIMM
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