



8th Drill & Blast Down Under Conference 2024

23rd & 24th October 2024
Crown Perth, Western Australia

Major Event Sponsor :



PLATINUM
BLASTING SERVICES

Introduction from the ISEE Australia Chapter

The International Society of Explosives Engineers (ISEE) Australian Chapter are proud to present the 8th Drill & Blast Down Under 2024 on the 23rd & 24th October at Crown Perth in WA.

The Conference Committee has sourced a diverse mix of topics covering equipment, decarbonisation, fragmentation, risk, underground, explosives and optimisation. The program will feature a Standards Update, a Regulator Panel with questions from the audience and we will hand out the following annual awards – Driller of the Year (DOTY), Shotfirer of the Year (SOTY), Past President Award, Distinguished Service and Paper of the Year. Our keynote speakers will explore the very relevant topics of the importance of good sleep, injury prevention and improved physical health, wellness and mental health. We look forward to welcoming you to the conference in 2024 to share technical information with our industry and learn from experts in the field.

Exhibition spaces and sponsorships are selling quickly. Please contact conference@iseeaustralia.org for more information or visit our online store to purchase your booth: <https://iseeaustralia.store.simplify.com/>

Conference Agenda

Tuesday 22nd October: 5:30pm - Welcome Function – The Merrywell, Crown

Day 1: Wednesday 23rd October

- 7.00am** Exhibitor Set up
- 7.15am** Registration
- 8.00am** Welcoming Address - Sally North
Worksafe Commissioner, DEMIRS
- 8:10am** ISEE Australia President's Address
- 8.20am** ISEE Society Executive Director's Address
- 8.30am** **Technical Session 1**
Keynote Speaker - Nick Mabbot
- 9.30am** Regulators Panel
- 10.30am** Morning Tea and Exhibition Open
- 11.00am** **Technical Session 2**
- 12.30pm** Lunch
- 1.30pm** **Technical Session 3**
- 3.00pm** Afternoon Tea
- 3.30pm** **Technical Session 4**
- 5.00pm** Happy Hour (in Exhibitor Hall)
- 6.00pm** Conference Area Close
- 6.30pm** Conference Networking Dinner at Highline
Rooftop Bar, Crown (Sponsored by BME Australia)

Day 2: Thursday 24th October

- 7.30am** Registration Open
- 8.00am** **Technical Session 5**
Keynote Speaker - Soa Palelei
- 8:40am** Mates4Mining Presentation
- 8:45am** ISEE Australia Awards
- 9:00am** **Technical Session 5**
- 10.30am** Morning Tea
- 11.00am** **Technical Session 6**
- 12.30pm** Lunch
- 1.30pm** **Technical Session 7**
- 3.00pm** Conference Closing Address
- 3.30pm** Conference & Exhibition Close
- 4:30pm** Closing Networking Drinks @ The Camfield

Note: Welcome and closing functions are free to attend, please register for these events when registering for your delegate pass.

Conference Registration Information

Please register for this event using online booking website Humanitix: **ONLINE BOOKING** or copy and paste this URL: <https://events.humanitix.com/8th-drill-and-blast-down-under-conference-2024>

Humanitix issues a tax invoice/receipt. If you require an additional accounting assistance, please email the ISEE Treasurer: conference@iseeaustralia.org

ISEE Member - \$495 (current membership number required)

ISEE Non - Member - \$825

Exhibitor Hall Access Only (No admittance to conference) - \$275

Student Pass (entrance to conference sessions and exhibition hall) - \$108.90

ISEE Society Associate Membership is US\$150 and Full Membership is US\$115. To pay the member rate for the conference, complete the ISEE member application at <https://isee.org/membership-application> and use your membership number for the discounted conference rate (it will take up to 5 business days to receive your ISEE membership number).

When you sign up, nominate Australia as your chapter and you are automatically signed up as an ISEE Australian member for free on the Australian Chapter website at www.iseeaustralia.org

Joining the Australian Chapter will enable you to vote and nominate for the Chapter Board and help your industry body grow. Any questions relating to membership, please email team@iseeaustralia.org



Keynote Speakers



Dr Nick Mabbot –
Fatigue Risk Management Specialist, Beyond Midnight Consulting

Sleep, Injury Prevention and Improved Health & Wellness.

Dr Nick illustrates how sleep cleans the brain of toxins and damaging proteins, resulting in reduced risk of ageing brain diseases such as Alzheimer's, Lewy Body Syndrome and Parkinson's Disease. He further states the homeostatic requirement for sleep in which we recycle brain energy for the following day. This helps to explain what a 'sleep debt' is and how the homeostatic drive for sleep creates the impairment observed in humans, which can lead to errors in the workplace.

Dr Nick also discusses how each stage of sleep provides something wonderful for humans. Walking through the stages of sleep, and how sleep architecture changes with sleep restriction, people are often reflect on how they have felt on different days. With an emphasis on Type II Diabetes, and other human ailments, Dr Nick extracts information from his "Science of Sleep" program, along with healthy eating and physical movement, to illustrate how you can be in more control of your health and wellness.



Soa Palelei – *Wellness Ambassador & mental Health Advocate, Strong Minds, Strong Mines*

Soa Palelei is a professional athlete that has successfully competed in one of the most physical and mentally demanding sports on the modern stage - The Ultimate Fighting Championship (UFC).

Soa is a 3x World Champion (IKBF, KOz Entertainment, and AFC World Champion) and has battled mental health issues throughout his career. Soa's mission is to help raise awareness around mental health, break down the stigma around mental health, connect, support and encourage one another to talk about their feelings and challenges and to assist people in finding a way forward.

Being able to talk at all levels and engaging with workers that are struggling with mental health issues, Soa has not only built the trust and respect of the Resource Industry, but also been the driving force behind the engagement of Strong Minds Strong Mines.

Soa has delivered Mental Health presentations bearing his soul and sharing his darkest moments with people, taking them on a journey through his life's highs and lows, and then providing them with options and support to realise that they have many options and support service to call on.



Technical Topics:

(Presentations subject to change)

TECHNICAL SESSION 2

Theory of Dynamic Confinement

Tristan Worsey & J Silva - Senior Consultant - Dyno Nobel

Investigation of Near Field Blasting Impact on Principal Geological Structures Identifying Dominant Damage Mechanisms and Mitigation Measures

Bill Adamson - Adamsol Engineering & Juan Pablo Mulet - Minera Escondida Limitada

Drilling and Blasting Above Old Underground Workings (Collinsville Open Cut Coal Mine)

Whitlam Moses - Mining Engineer – Drill & Blast & Tristan Fortt - Dragline Drill & Blast Superintendent – Collinsville Coal - Glencore Coal Assets Australia

TECHNICAL SESSION 3

Improving the Efficiency and Quality of the Blasthole QA/QC Process in Underground Production Environments through the Introduction of Digital Technology

Craig Buchanan - Senior Advisor – Digital Optimisation & Vanessa White - Manager Digital Solutions - Global Commercial – Orica

Practical Methods for Drilling and Blasting Through Structured Ground In Underground Mining

Edward Wargem, Senior Technical Consultant & David Tozer, Technical Manager - Dyno Nobel Asia Pacific

What Have We Learnt in Ten Years of Hydrogen Peroxide-Based Explosives Research?

Andrew Kettle - Senior Research Leader - Chemistry - Mining3

TECHNICAL SESSION 4

Changing QAQC Requirements of Open-Pit Mining and Quarrying A Comprehensive Analysis

Chris Loveland - Director - Diptek

Vibration Reduction near Sensitive Structures using Low-Density/Low VOD Explosive in a Copper Mine in the Andes – Case Study

Hossein Asgari - Director - Sun Mining Services

AS 2187.1 Explosives - Storage, Transport and Use - Overview

Anthony Gilchrist – ISEE Board Member and CEO, Flashpoint Consultancy

ISEE Distinguished Service Award

Paul Klaric - ISEE Australia President and Principal Drill and Blast, Fortescue Metals

TECHNICAL SESSION SPONSOR – DAY 1:



Technical Topics:

(Presentations subject to change)

TECHNICAL SESSION 5

Emulsion Breakers for Waste Explosives

James Wiltshire - Technical Manager, Explosives - Clariant Mining Solutions

Enabling Lower-Carbon Blasting in Australia

Nadia Truninger - Sustainability Manager - Orica

TECHNICAL SESSION 6

A Risk Based Approach to Siting Explosives Facilities

Ryan Brogden - Director - Frontier Safety

Ignition Mechanisms of Methane Air Mixtures Using Explosives as an Ignition Source

Duncan Chalmers - Snr Lect., Mining Engineering Minerals, Energy and Resources Engineering - UNSW AUSTRALIA

Flyrock from Charges in Blasted Muckpile

Sarah Foster - Lead Drill and Blast Engineer - Caval Ridge Mine, BMA

TECHNICAL SESSION 7

The Application of Orebody Learning to Retain Site-specific Best Blast Design Knowledge

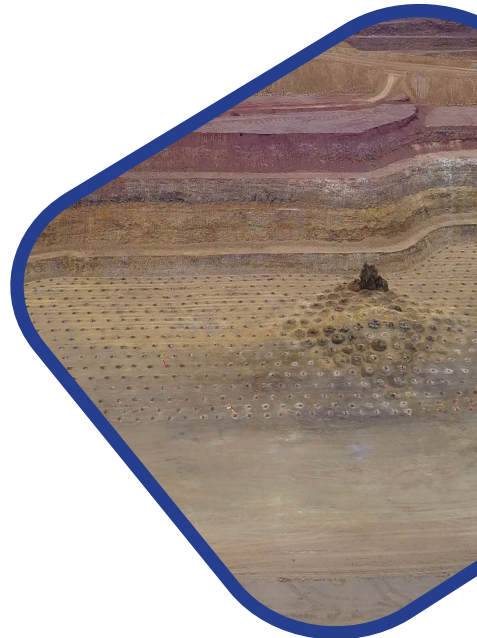
Penny Stewart Chief Executive Officer, PhD BE (Mining) - Petra Data Science & Hu, Xi General Manager - Citic Pacific Mining

Enabling Improved Risk Management and Blasting Outcomes through High-Fidelity Rock Knowledge

John Jackson - Global Technology Manager – Mining - Imdex Limited

Application of Differential Blasting for Value Chain Optimisation

Saran Sankar, Drill & Blast Superintendent & Stephen Mansfield, Principal Drill & Blast Engineer - First Quantum Minerals Ltd



Conference Dinner

This year's conference dinner sponsored by BME Australia, will have a "Tropical" theme and will be held at the HI-LINE Rooftop Bar at the Crown. This casual event will give delegates the chance to unwind and catch up with new and old friends. The dinner will cost \$132.00 per person and can be booked along with delegate registration via online booking.

Partners are welcome.



Venue & Accommodation Information

The conference will be held at:

The Crown, Perth

Great Eastern Hwy, Burswood WA 6100
(08) 9362 7777

We are pleased to advise that The Crown can provide the following accommodation facilities:

- Crown Towers
- Crown Metropol
- Crown Promenade

The best way to book is online here: <https://www.crownperth.com.au/> and select BOOK to see your options. There is alternative accommodation close by, please contact conference@iseeaustralia.org for more information.

For information on Crown parking please visit:

<https://www.crownperth.com.au/plan-your-visit/parking>



Platinum Sponsors



PLATINUM BLASTING SERVICES

Gold Sponsors



Dinner Sponsors



Coffee Cart Sponsors



Event Exhibitors

1. MEC Mining
2. Maxam
3. International Mining Services
4. StemSafe
5. Austmine Limited
6. Osterman
7. Protteam
8. Mining Skills Australia
9. Benchmark Monitoring
10. PR Polymers
11. MATESforMINING
12. ULTERRA Perth
13. DEMIRS
14. Shottrack
15. Hanwha
16. Arrowtail Precision
17. Petra
18. BME
19. MTI Group
20. Dyno Nobel
21. Orica
22. Sun Mining
23. Maptek
24. QMR Blasting Analysis
25. Cenerg
26. Clariant
27. Blast Ability
28. IEE Global
29. Aquirian Group
30. Carlson Software Australia
31. Shockwave Gel Technologies
32. Diptek
33. Australasian Mining Services
34. LiveMine
35. Oresome Products
36. Platinum Blasting Services
37. Platinum Blasting Services
38. Austin Powders
39. Impact Drill & Blast
40. Australian Mining Review
41. IQA
42. Hyundai Everdigm Australia
43. AEISG
44. BlastCon Australia
45. BlastCon Australia
46. Eanex
47. Action DB
48. TBA - Still available
49. Imdex
50. Saros
51. Pheonex
52. Roc-Drill
53. STX Technologies
54. Blink Technology
55. Austin Powders

Exhibition spaces and sponsorships are still available.
Please contact conference@iseeaustralia.org for more information.

About Us

The ISEE Australian Chapter is run entirely by volunteers as a not-for-profit Professional Society to give people in the Drill and Blast industry a forum to discuss and learn about new blasting techniques, standards, legislation, and technology. The Chapter was incorporated in September 2015 and all raised funds stay in the Chapter with the plan to provide sponsorships and student scholarships in the future.

For more information regarding the ISEE, please go to www.isee.org

Membership Information

Society Membership

The Society is based in Cleveland, Ohio, USA

- » Access to Onemine which includes thousands of technical papers, presentation and articles that have been presented all over the world.
- » Print and digital copies of the Journal of Explosive Engineers. This publication is provided quarterly.
- » The ability to vote and nominate for the Society Board.
- » Special rates for the Society Annual Conference and ISEE Bookstore.
- » Access to various templates, information and the ISEE marketplace.
- » Access to online training courses.

ISEE Society Associate Membership is US\$150 and Full Membership is US\$115

Click below to join: <https://www.isee.org/join>

Australian Chapter Membership

Chapter Membership

- » Required to be a Society Member (with fees up to date)
- » Chapter members can nominate and vote for the Chapter Board.
- » Chapter members are encouraged to get involved at Committee level.

The cost is Free.

Click below to join: <https://iseeaustralia.org/membership/>

Chapter Affiliate

- » Any person that is involved in the Drill and Blast Industry.

The cost is Free.

Click below to join: <https://iseeaustralia.org/membership/>

Australian Chapter Officers and Directors

President – Paul Klarić (FMG)

Past President – Ryan Brogden (Frontier Safety)

Vice President – Lee Julian (Blast Ability)

Treasurer – Drew Martin (Blast It Global)

Secretary – Miguel Araos (STX Technologies)

Director – Sarah Foster (BHP)

Director – Paul Ahern (Ahern D & B Solutions)

Director – Anthony Gilchrist (Flashpoint Consultancy)

Director – Maria Sullivan (Pilbara Minerals Limited)

Director – Tristan Worsey, PhD, PE (Dyno Nobel)