

CONFERENCE HANDBOOK



Australian Society of
Exploration Geophysicists



PESA
Petroleum Exploration
Society of Australia



**AUSTRALIAN
INSTITUTE OF
GEOSCIENTISTS**

AUSTRALIA MINERALS

REALISE THE OPPORTUNITY

Australia Minerals is a collaboration of Australia's federal, state and Northern Territory government geoscience agencies working together to offer ground-breaking information, unrivalled expertise and a record of innovation to support mineral explorers and investors to realise investment opportunities.

With a long history of successful mineral exploration and mining, Australia is one of the world's biggest minerals exploration markets. Even so, Australia is one of the world's biggest untapped exploration markets with huge remaining brownfields and greenfields discovery potential. With readily accessible geoscience expertise and research support, Australia Minerals enables investors to tap into Australia's diverse geological potential in a range of commodities to achieve one of the highest exploration returns.

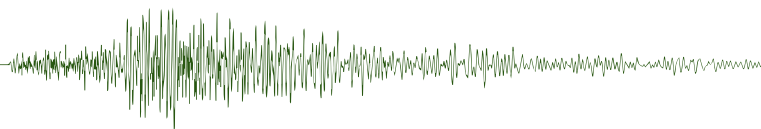
Australia's business, policy and investment processes, proven record of environmental, social, financial, legal and political stability, and its proximity to Asia's fast-growing markets, make it the smart, secure choice for exploration investment.

Australia Minerals offers:

- Assistance to help guide you through the exploration and investment process
- Breadth and depth of data to help you realise opportunities
- Intellect, innovation and technology to apply to opportunities
- Business, policy and investor relations
- Access to effective and efficient sustainable exploration policies, processes and technologies.

www.australiaminerals.gov.au





Welcome to the first Australasian Exploration Geoscience Conference

The Australian Society of Exploration Geophysicists, the Australian Institute of Geoscientists and the Petroleum Exploration Society of Australia, have again joined to run the pre-eminent geoscience conference held in Australia.

Your joint Chairs, Mark Lackie and Max Williamson, wish to extend the warmest of welcomes to you, your partner and your colleagues attending this Conference at the brand new world-class International Conference Centre in Darling Harbour in Sydney.

This is the first running of the Australasian Exploration Geoscience Conference and it incorporates the **26th ASEG Conference and Exhibition** and the **PESA Basin Symposia**. Our conference theme 'Exploration • Innovation • Integration' reflects that if you explore, be it for energy, mineral or groundwater resources, you need be innovative and importantly integrate all aspects of technology, science and history to succeed.

Peter Botten, the Managing Director of Oil Search will be giving the plenary address. We have 15 keynote speakers covering a variety of topics from groundwater, to industrial and strategic minerals, to airborne EM and IP, to multi-component seismic applications and to looking at footprints of ore deposits.

We have eight concurrent streams, three covering the Energy stream, three covering the Mineral Geoscience stream and two covering the Near Surface and Groundwater stream. In the Energy stream we cover a diverse range of topics

from Basin Symposia (Western Australia, Central Australia and Eastern Australia), through to Non-Conventional, PNG and New Technologies in seismics. The Mineral Geoscience theme covers such topics as geophysics and geology case histories, airborne geophysics, magnetics and EM theory and Industrial and Strategic. The Near Surface and Groundwater theme has such topics as innovation, case studies and what is new in groundwater investigations.

We will have over 80 posters on display for the three days of the conference in the foyer. Poster presenters will have a dedicated poster session after lunch, giving delegates ample opportunity to discuss the science with the author.

Complementing the oral presentations and posters is the workshop program. We are offering 12 workshops, either before the technical sessions on the Sunday, or after on the Thursday.

At the time of writing we have over 60 exhibitors and we encourage you to visit them all.

Finally, thank you to all the sponsors who have come on board. Without you this conference simply could not happen. At the time of writing our sponsors are: **Australia Minerals** (Platinum sponsor), **CSIRO** (Sapphire Sponsor), **Oil Search**, **RioTinto** (Gold Sponsors), **Geoscience Australia** (Opal Sponsor), **Bridgeport**, **Geosoft**, **Horizon Oil**, **Kinetic**, **Velseis** (Silver), **GBG Australia**, **Taylor & Francis** (Morning Tea Sponsors), **First Quantum Minerals Ltd** (Best Papers awards Sponsor) and **Wireline Services Group** (Lanyard Sponsor).

On behalf of the whole Conference Organising Committee, we welcome you all to the first Australasian Exploration Geoscience Conference.



Max Williamson
(Joint Chair)



Mark Lackie
(Joint Chair)

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Reputation

Australia has a solid reputation for success in minerals exploration and mining. Australia supports investors to realise exploration and mining opportunities, and is pro-actively making it easier to explore, do business and invest.

- Australia has world-class geoscience information systems to provide (for free) pre-competitive data to define and target minerals
- World's best geoscience and innovation for exploring under cover, with remaining unrealised potential in giant ore camps
- World leading business assistance and investment advice so you can find opportunities that meet your needs and
- Local and federal governments that work together to streamline processes, gain efficiencies and facilitate exploration in Australia.



Sustainability

Australia is committed to efficient and effective, environmentally sound, socially responsible, and economically viable practices for the benefit of communities and investors, and the reputation of the global exploration and mining sector:

- Australia's Leading Practice Sustainable Development Program for the Mining Industry has contributed directly to better exploration, mining, environmental and land practices globally
- Australia is a pioneer in the development and application of non-disruptive, remote sensing exploration technologies such as TEMPEST and FALCON to assess mineral potential prior to drilling
- Australia is delivering a 'one-stop shop' for environmental approvals to simplify the approvals process for businesses and lead to swifter decisions, whilst maintaining high environmental standards and
- Reforms such as the Council of Australian Governments' Land Access for Resources Working Group are improving exploration approvals and access certainty in relation to competing land uses, native title and aboriginal heritage.





Promotional events

Prospectors and Developers Association of Canada Convention

The Prospectors and Developers Association of Canada Convention (PDAC) is held in the first full week of March each year at the Metro Toronto Convention Centre in Toronto, Canada.

PDAC is the world's leading convention for people, companies and organisations in, or connected with, mineral exploration. *Australia Minerals* attends this event to promote Australia's exploration and investment potential to the 24 000 attendees.

China-Australia Resources Investment Forum

Australia Minerals proudly hosts a China-Australia Resources Investment Forum each year in Beijing, China.

Australia Minerals hosts this forum to promote Australia's exploration and investment potential in this key investment market. This event aims to attract increased investment in mineral exploration in Australia by engaging international government agencies and mining/exploration companies.

The seminar includes multiple presentations on Australian minerals/energy commodities and the Australian investment and policy environment. Spoken presentations are simultaneously translated into Chinese or English and PowerPoint presentations are displayed in both Chinese and English. A panel discussion session involving a moderator, an expert panel and the audience follows each presentation. A display area with tables and posters allows attendees to engage with participating government agencies and companies.

China Mining Congress and Expo

Australia Minerals participates in the China Mining Congress and Expo held each September at the Meijiang Convention and Exhibition Centre in Tianjin, China.

China Mining is one of the world's largest mineral investment, cooperation and trading platforms. More than 10 000 delegates attended in 2017, including more than 1100 international visitors. *Australia Minerals* attends this event to promote Australia's exploration and investment potential at this significant convention in a key investment market.

In addition to a large booth, *Australia Minerals* presents a Mining in Australia session during the convention.

If you are in Tianjin at this time please come and visit the *Australia Minerals* booth for more information about pre-competitive geoscience activities and exploration and investment opportunities from every state and territory.

Japan-Australia Mineral Investment Seminar

Australia Minerals hosts a Japan-Australia Mineral Investment Seminar at the Australian Embassy in Tokyo, Japan each year.

Australia Minerals promotes Australia's exploration and investment potential in this significant market in an effort to attract increased investment in mineral exploration in Australia by engaging international government agencies and mining/exploration companies.

The half-day seminar includes a series of presentations on Australian minerals/energy commodities and the Australian investment and policy environment. Spoken presentations are simultaneously translated into Japanese or English with PowerPoint presentations displayed in English. A display area is set up in the foyer to allow attendees to engage with participating government agencies and companies and a networking event is held immediately after the seminar.



Australia-Korea Mineral Investment Seminar

Australia Minerals hosts a Korea-Australia Mineral Investment Seminar in Seoul, South Korea in alternate years.

The *Australia Minerals* team promotes Australia's exploration and investment potential in this important investment market to attract increased investment in mineral exploration in Australia by engaging Korean government agencies and mining/exploration companies.

The half-day seminar includes a series of presentations on Australian minerals/energy commodities and the Australian investment and policy environment. Spoken presentations are simultaneously translated into Korean or English with PowerPoint presentations displayed in English. Time is also allocated for attendees to engage with participating government agencies and companies.

Engagement with the Indian International Mining and Investment Industry

Each year *Australia Minerals* attends a mining and investment convention in India or hosts a series of seminars. In November 2017, *Australia Minerals* participated in a promotional tour organised by Austrade India. The team conducted seminars and meetings in Kolkata, Hyderabad, Mumbai and New Delhi.

India is a key developing trading partner for Australia's mining industry, as a source of investment into Australia, and as a market for export of METs capability.

Science in the Surveys

Science in the Surveys is hosted every two years by one of Australia's state or territory geological surveys. The event aims to highlight the outstanding science being conducted by Australia's geological surveys, CSIRO, UNCOVER and the DET CRC.

Attendees have the opportunity to directly engage with senior government geoscientists and learn how their teams are working to improve understanding of Australia's geology, its mineral potential, and the exploration opportunities it presents. Industry professionals, researchers, government, sector stakeholders and geoscience students are invited to attend.

Australasian Exploration Geoscience Conference

Australia Minerals are Platinum Sponsors of the Australasian Exploration Geoscience Conference to be held from 18–21 February at the International Conference Centre Sydney, in Sydney, Australia.

The conference focusses on exploration geoscience with a technical program based on three overarching themes: Energy, Mineral Geoscience, and Near Surface and Groundwater. *Australia Minerals* will host a large booth at the conference, address the Opening Ceremony and give a keynote presentation.

Contact us

For more details please visit the Australia Minerals website:

www.australiaminerals.gov.au

If you would like some more information about Australia Minerals or are interested in one of the promotional events please email:

mineral.promotions@ga.gov.au



We have the resources to make new discoveries

We're focussed on developing better techniques for resource exploration, delivering innovations in data acquisition & driving integration of geoscience data

- We deliver industry solutions, services and research, partnering with grass-roots explorers to global miners and oil producers
- Our minerals program delivers cost effective exploration through advances in detection technologies, understanding of mineral systems, resource characterisation, data integration and analysis
- Our Energy Program is pioneering low-emission technologies that create value for all Australians and provides the knowledge which will help guide Australia towards a smart, secure energy future
- Our Deep Earth Imaging Future Science Platform is developing expertise to unlock the resource potential of this vast and relatively under-explored continent

Contact: opportunity.minerals@csiro.au

