



appea

the australian petroleum production & exploration association presents

27-30
MAY
BRISBANE

APPEA2019

CONFERENCE AND EXHIBITION



PROGRAM AND REGISTRATION
NAVIGATING THE FUTURE

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APPEA2019

CONFERENCE AND EXHIBITION

BRISBANE CONVENTION & EXHIBITION CENTRE

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JOIN THE BUZZ ON SOCIAL MEDIA

The event's official hashtag is **#APPEAConf**

Be sure to follow us at **@APPEALtd** and **@appeaconference**



INVITATION FROM APPEA CHAIR ZOE YUJNOVICH

Following several years of uncertainty and challenging conditions, there is a renewed confidence in Australia's oil and gas industry, which is highlighted by expanding production, new projects, large-scale investment and stronger revenue.

The upbeat outlook has been fueled by Australia's domestic gas industry which is growing rapidly, creating valuable jobs, export income and tax revenue.

Today, gas is vital to our national economy and modern lifestyles so providing a reliable and affordable supply of gas to local customers remains a focus.

While companies' have experienced growth, there are many challenges facing the industry and the global energy market more broadly. These include producing more and cleaner energy for customers and delivering greater economic value while maintaining competitiveness.

The debate over meeting Australia's and the world's energy needs, while reducing emissions, has never been more important. The APPEA 2019 Conference and Exhibition in Brisbane will provide an exciting opportunity for the industry to meet and engage on key issues.

Embracing the theme *Navigating the Future*, the three-day conference program will include world-class speakers as well as international experts and Australian business leaders outlining the latest case studies, opinions and technical knowledge on key issues facing the industry. APPEA has assembled the largest technical and business program ever, including four additional concurrent sessions.

The plenary program will cover issues such as:

- The future's not what it used to be — the new energy landscape — unprecedented change in the global energy system.
- Domestic gas markets — what is the way forward for the industry and for policymakers?
- Navigating a cleaner energy future — how does the oil and gas industry survive and thrive?

The industry's pursuit of continuous improvements in safety will also be a key focus along with our commitment to high standards to protect the safety, integrity and health of people, the environment and local communities.

This year, we are seeking to deliver another exciting Youth Program and the industry is looking forward to engaging with the Queensland schools to highlight rewarding careers in the oil and gas sector. Once again, there will be a strong emphasis on diversity and inclusiveness, community and stakeholder engagement as well as operational issues.

We sincerely thank our principal sponsors — Woodside and Clough — for their ongoing support. The support from all our sponsors is both appreciated and essential to the success of this annual event. APPEA 2019 will unite oil and gas professionals, industry leaders, politicians, analysts, media and policymakers from around Australia and across the globe.

I look forward to seeing you in Brisbane.

Zoe Yujnovich
APPEA Chairman



INVITATION FROM THE PREMIER OF QUEENSLAND ANNASTACIA PALASZCZUK

Queensland is an energy powerhouse. As the largest onshore gas producer in Australia, we are delighted to host the APPEA 2019 Conference and Exhibition, and as Premier of the state, I warmly welcome you to Brisbane.

With world-class petroleum and gas reserves, our state has developed an unprecedented \$70 billion onshore gas industry in eight years. Gas is now our second largest export commodity, and we are currently ranked as the fourth largest LNG exporter in the world.

Queensland offers significant opportunities for exploration investment with proven gas reserves and access to infrastructure to get the gas from well to market.

We are well and truly open for business.

In June 2018 we announced the release of more than 43 000 km² of land for oil and gas exploration—the largest amount ever released under the state's exploration program. This program, which schedules land releases via competitive tender over 18 months, is part of my government's commitment to build a strong economy, support long-term export contracts, which were worth \$11.4 billion to the local economy last year alone, and create more jobs for Queenslanders.

We have taken action to increase the supply of domestic gas by making a number of land release areas conditional on the gas produced being for domestic use only. Queensland is actively working with the federal government as part of the Gas Acceleration Program to help get more gas into the domestic market by 2020.

Gas is an economic enabler for our industrial and manufacturing sectors. To ensure these sectors and the economy thrives, they need confidence in a reliable and affordable gas supply. Gas is also playing a critical role here and globally as a transition fuel as we move to a renewable energy future.

In Queensland there are opportunities for junior and major explorers with massive gas reserves, plenty of unexplored land in frontier basins, and capacity to tap into existing infrastructure.

I thank you for your support and confidence in our oil and gas industry, and I encourage you to enjoy the sites, and sights, of our resource-filled state.

Annastacia Palaszczuk

Premier of Queensland



Monday 27 May 2019

Registration:
8:30am

APPEA SEMINAR

INDUSTRY EVENT

Seminar:
9:00am–5:00pm

APPEA Introduction to Oil and Gas Industry Seminar

Brisbane Convention & Exhibition Centre

This seminar will give a broad understanding of the Australian oil and gas industry.

Attendees will gain an appreciation of the geological, technical and economic aspects of the industry, features of the onshore and offshore environments, as well as the exploration, development and production phases. The seminars offer an invaluable opportunity to understand the key characteristics and global context of Australia's oil and gas industry, and come to grips with its key concepts and terminology. For further information visit www.appea.com.au/event/intro-to-oil-gas-industry-seminars.

 Registration is not included in the APPEA conference registration fee.
\$430 for members/government, \$490 for non-members, \$150 for full-time students

11:00am–7:00pm

CONFERENCE REGISTRATION

Main Foyer, Brisbane Convention & Exhibition Centre

Join fellow delegates and collect your registration packs prior to attending the Welcome Reception at 6pm.

Registration:
from 12:00pm

PESA DEAL DAY

INDUSTRY EVENT

Seminar:
1:00pm–5:00pm

Brisbane Convention & Exhibition Centre

The Petroleum Exploration Society of Australia (PESA) 'Deal Day' Seminar is the annual showcase for acreage and farm-in opportunities in Australia and the neighbouring region in a presented papers format. This event will deliver a comprehensive Farm-in Report, containing all the relevant information on each opportunity. Registration includes lunch and refreshments.

Not included in the APPEA conference registration fee—please register separately at www.pesa.com.au

For inquiries about sponsorship, presenting acreage, attending or to receive information please contact:
Wendy Ronda, 2019 PESA Deal Day Administrator **t** +61 438 675 562 **e** dealday@pesa.com.au

6:00pm–9:00pm

WELCOME RECEPTION

SPONSORED BY

Brisbane Convention & Exhibition Centre



The Welcome Reception sets the scene for the APPEA Conference and Exhibition. Showcasing the best that Brisbane and Queensland have to offer, this themed event will be sure to impress.

 Complimentary to full delegates.
\$95 per person to all other registration categories and additional guests.

 Includes drinks and light refreshments.

 Smart casual attire.

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Tuesday 28 May 2019

7:30am–8:20am

Presenters' Breakfast — Technical and Business Program

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Brisbane Convention & Exhibition Centre | BY INVITATION ONLY

In recognition of their valuable contribution to the conference program, our technical and business program presenters are invited to attend this opening morning breakfast to meet fellow presenters and receive a technical and audio visual briefing before the event. RSVP to the invitation is essential.

7:30am–5:00pm

Conference Registration

Main Foyer, Brisbane Convention & Exhibition Centre

8:00am–6:00pm

APPEA 2019 Exhibition open

SPONSORED BY **wood.**

Exhibition Hall, Brisbane Convention & Exhibition Centre

Develop your business relationships, initiate deals, collaborate, share ideas, and be inspired as you meet the leading explorers, producers, suppliers and educators of our industry all showcasing their brands and products in the APPEA Exhibition Hall. For the most up-to-date exhibitor listings visit www.appeaconference.com.au

8:00am–6:00pm

APPEA 2019 Technical and Business Poster Presentations open

SPONSORED BY



Exhibition Hall, Brisbane Convention & Exhibition Centre

8:00am–6:00pm

KPMG Meeting Zone open

SPONSORED BY **KPMG**

Exhibition Hall, Brisbane Convention & Exhibition Centre

Need a private place to meet and talk business? APPEA, in partnership with KPMG, is proud to present the KPMG Meeting Zone—a custom built space within the exhibition for attendees to meet in hourly segments. With two private meeting rooms, seating up to eight per room, this complimentary service is available to book in advance or onsite. See www.appeaconference.com.au for details.

8:30am–10:15am

PLENARY

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Navigating the future



The opening session of APPEA 2019 focuses on the conference theme, 'Navigating the future'. This session will set the scene for three days of in depth discussion and debate as the industry considers what it takes to be a resilient business in the new energy market—a market experiencing the most disruptive period in a generation.

Conference Opening Ceremony

Queensland State Government Address

Senior Representative, Queensland Government

Australian Government Address

Senior Representative, Federal Government

Lead Industry Address

Mr Ryan Lance, Chairman and Chief Executive Officer, ConocoPhillips

APPEA Chair's Address

Mrs Zoe Yujnovich, Country Chair, Shell Australia and Executive Vice President, Australia & New Zealand

10:15am–11:00am

MORNING TEA IN THE EXHIBITION HALL

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Tuesday 28 May 2019

11:00am–12:30pm

PLENARY

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**The future's not what it used to be—
the new energy landscape**

FLUOR

PLENARY

Rapid and sustained change is a feature of the global energy system. This transformation is driven by the rise of new and growing sources of demand on Australia's doorstep in Asia, the falling cost of cleaner energy sources, the rise of new technologies and the growth (and resilience) of the US shale industry.

The future is truly not what it used to be. How does the industry succeed in this new future, meeting the needs of our own markets in Australia and also the growing energy needs in our region?

Facilitator: Ms Jennifer Hewett, National Affairs Columnist, The Australian Financial Review

Mr Paul Simons, Deputy Executive Director, International Energy Agency

Mr Peter Coleman, CEO and Managing Director, Woodside

Mr Frank Calabria, CEO and Managing Director, Origin Energy

Mr Matt Rennie, Oceania Power & Utilities Leader, EY

12:30pm–2:00pm

NETWORKING LUNCH IN THE EXHIBITION HALL

SPONSORSHIP AVAILABLE

All delegates are invited to enjoy lunch in the exhibition halls. Explore the exhibits that represent the complete supply chain of the oil and gas industry. Make new industry contacts and expand your business through international and national connections.

12:30pm–2:00pm

APPEA Members' Lunch

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**EXCLUSIVE
MEMBER
EVENT**

Brisbane Convention & Exhibition Centre | BY INVITATION ONLY

Invited senior APPEA member representatives from the full industry supply chain discuss the opportunities and challenges of the oil and gas business in this exclusive members-only luncheon.

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Tuesday 28 May 2019

2:00pm–3:15pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 1–4

CONCURRENT SESSION 1:

Queensland—innovation, development and prospectivity

SPONSORED BY



New deep crustal seismic data acquisition program for NWQs frontier petroleum basins

S Edwards and B Talebi (Department of Natural Resources, Mines and Energy)

A new spatially-continuous basement heat flow map for NW Queensland

C Jorand, K Connors, L Pryer and C Pietrucha (Frogtech Geoscience)

Adavale Basin petroleum plays | A Troup and B Talebi (Department of Natural Resources, Mines and Energy)

Approaches to data driven exploration in Queensland

T Knight (Department of Natural Resources, Mines and Energy)

CONCURRENT SESSION 2:

Fresh applications for reservoir engineering

SPONSORSHIP AVAILABLE

Investigation of permeability change in the Bandanna Coal Formation of the Fairview Field using time-lapse pressure transient analysis

A Salmachi (University of Adelaide) and J Barkla* (Santos)

Impact of capillary trapping on CSG recovery—an overlooked phenomenon

Y Zhu, Z Chen, H Xing and V Rudolph (University of Queensland)

An Australian first initiative to re-develop the first commercial onshore oilfield into a CO₂ miscible-EOR project

S Barakat, B Cook, K D'Amore, A Diaz and A Bracho (Bridgeport Energy)

Panel discussion

**CONCURRENT SESSION 3: National trends—
what have we learnt and where are we going?**

SPONSORED BY Piper Alderman

The Australian Government's liquid fuel security review and National Energy Security Assessment

T Wyndham and S Douglass (Department of the Environment and Energy)

From the Northern Territory to Western Australia—fracking, public policy and social licence

M Tannock (Squire Patton Boggs)

Gas markets—a bridge to where? | G Bethune and R Wilkinson* (EnergyQuest)

Sustainability trends in oil and gas | P Tonge (ERM)

CONCURRENT SESSION 4: Queensland projects from the ground up SPONSORSHIP AVAILABLE

Building regional strength through supporting social and economic activity in Queensland's gasfield communities | T Quinn (Broadspectrum)

Cumulative groundwater impact assessment and management in the Surat Basin—a journey from framework to implementation | S Pandey (Department of Natural Resources, Mines and Energy)

Synergies in the role of the Office of Groundwater Impact Assessment and the Independent Expert Scientific Committee on coal seam gas and large coal mining development in environmental assessments

C Pigram* (Independent Expert Scientific Committee), S Pandey* (Office of Groundwater Impact Assessment) and P Baker (Department of the Environment and Energy)

Panel discussion

3:15pm–3:45pm

AFTERNOON TEA IN THE EXHIBITION HALL

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Tuesday 28 May 2019

3:45pm–5:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 5–9

**CONCURRENT SESSION 5:
Setting the scene: WA basin architecture**

SPONSORED BY



The Lower Goldwyer Formation — potentially Australia’s largest oil discovery, unconventional resource exploration through Extensive Core Analysis and Deep Basin Geology Interpretation, Canning Basin, Onshore Western Australia

J van Hattum* (Finder Exploration), A Bond (Finder Energy), D Jablonski (Discover Geoscience) and R Taylor-Walsh* (Theia Energy)

Stratigraphic and structural architecture across the central North West Shelf — implications for Triassic petroleum systems

S Abbott, C Orlov, G Bernardel, C Nicholson, N Rollet, D Nguyen and M Gunning (Geoscience Australia)

Tailored acquisition and processing providing an enhanced subsurface image of the basin architecture, Exmouth Sub-basin, Northwest Shelf, Australia | A Karvelas (Schlumberger Australia), B J Lim (WesternGeco), L Zhang, H Trihutomo (Schlumberger Australia), O Schenk and S Tewari (Schlumberger Oilfield UK)

Panel discussion

**CONCURRENT SESSION 6: How well do you know your wells?
Impact, management and evolution**

SPONSORSHIP AVAILABLE

Managing well integrity in Queensland

M Scott (Department of Natural Resources, Mines and Energy)

Impact of in-seam drilling performance on coal seam gas production and gas distribution

F Zhou, G Fernandes, J Luft, K Ma, M Oraby, M Guevara, D Kuznetsov, B Pinder and S Keogh (Arrow Energy)

Roma development drilling — evolution of well design and drilling performance

T Dedigama, A Sellars* and M Zaman (Santos)

CONCURRENT SESSION 7: Regulation — legislating for success

SPONSORSHIP AVAILABLE

Onshore gas developments often require state and federal approval. Both governments’ approval processes can intersect. As co-regulators, Queensland and the Federal Department of Environment and Energy will present on the objectives of their respective regulatory frameworks and discuss the opportunity for improved consistency, collaboration and better alignment of regulatory practices.

**Concurrent session 8:
Decommissioning — every end is a new beginning**

SPONSORED BY



Engineering and environmental studies for decommissioning of subsea infrastructure

P Raitt* (Greenlight Environmental), A Selman and C Lanoëlle* (Atteris)

Decommissioning — a path forward for Australia

S Barrymore (Herbert Smith Freehills)

Rigorous decommissioning decision making with strong stakeholder engagement using comparative assessment

P Gordon, E Poot and G O’Connor (Catalyze APAC)

Panel discussion



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Tuesday 28 May 2019

3:45pm–5:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 5–9 cont

**CONCURRENT SESSION 9:
Enhancing productivity through digital solutions**

SPONSORED BY **ABB**

A practical guide to IT OT convergence — getting value from your business analytics
R Byfield (Yokogawa Australia)

Big data for smart safety: applying engineering controls analytics to predictive safety
H B Tay*, N Marshall*, A McColm (Deloitte Risk Advisory) and M Wood (Deloitte Consulting)

Digital twin solutions in oil and gas asset valuations
D Hollett (Nova Systems)

Digitalization driving competitiveness
S Royston (ABB)

5:00pm–6:00pm

HAPPY HOUR IN THE EXHIBITION HALL

Time to network and debrief on the current topics and key discussions of the day. Don't miss the Happy Hour sponsor Yokogawa bring alive APPEA Boulevard with their dynamic 'breaking of the saki' to celebrate Day 1 drawing to a close.

SPONSORED BY



 Complimentary to delegates and exhibitors.

 Includes drinks and light refreshments.

 Business attire.

6:00pm onwards

Evening free: Brisbane is a city with an innovative and vibrant edge, a modern, free spirited outlook and a determination to do things just that little bit differently. This is the night to host your clients or take the opportunity to accept invitations from suppliers, clients or fellow delegates to expand your network, reinforce current partnerships and enjoy the vivacious nightlife of this bustling city.



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Wednesday 29 May 2019

7:30am–5:00pm **Conference Registration**
Main Foyer, Brisbane Convention & Exhibition Centre

8:00am–6:00pm **APPEA 2019 Exhibition open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

SPONSORED BY 

8:00am–6:00pm **APPEA 2019 Technical and Business Poster Presentations open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

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8:00am–6:00pm **KPMG Meeting Zone open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

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APPEA, in partnership with KPMG, are delighted to offer this complimentary custom built space within the exhibition providing private meeting rooms, seating up to eight people. Book your hour long meeting in advance or onsite now. See www.appeaconference.com.au for details.

8:30am–10:30am

PLENARY

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Navigating a cleaner energy future — how does the oil and gas industry survive and thrive?



The UN Climate Change Conference held in Paris at the end of 2015 set the scene for the world’s response to climate change and continues to change the nature of the energy landscape facing the Australian oil and gas industry. Nearly four years on, and following the release at the end of 2018 of the ‘rulebook’ to underpin the Paris Agreement, this new landscape continues to provide both challenges and opportunities for the industry.

This plenary session will bring together local and global experts to consider how the oil and gas industry is to survive and thrive in this cleaner energy future and what it can and is doing to reduce its carbon footprint and provide cleaner energy to Australia and the region.

Facilitator: Mr Paul Welton, General Manager of Strategy, Planning & Commercial, Chevron Australia

Dr Alan Finkel, Chief Scientist, Office of the Chief Scientist, Department of Industry, Innovation and Science

Dr Dominic Emery, Vice-President, Group Strategic Planning, BP, and Board Member of Oil and Gas Climate Initiative (OGCI)

Ms Marlene Motyka, Principal, Deloitte Transactions and Business Analytics LLP, and US & Global Renewable Energy Leader, Deloitte

Ms Emma Herd, Chief Executive Officer, Investor Group on Climate Change

PLENARY

10:30am–11:15am MORNING TEA IN THE EXHIBITION HALL

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11:15am–12:30pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 10–14

CONCURRENT SESSION 10: Advancing Australian exploration

SPONSORED BY 

**NEW LOOK
ACREAGE
RELEASE
SESSION**

Australia — how do we compare as an exploration destination? | M Quinn (IHS Markit)

Exploration for petroleum is critical to ensure ongoing supply In the second half of this this new look acreage release session, delegates will hear about exploration policies, tenure and other initiatives relating to petroleum exploration from the perspective from both federal and state regulatory and geoscience bodies.

Wednesday 29 May 2019

11:15am–12:30pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 10–14 cont.

**CONCURRENT SESSION 11:
Insights and opportunities for southern basins**

SPONSORSHIP AVAILABLE

New insights on Upper Cretaceous stratigraphy and sedimentology of the Bight Basin, Australia from IODP Hole U1512 | C Wainman, P McCabe and S Holford (University of Adelaide)

Regional paleodepositional environment of the Cretaceous in the Great Australian Bight—a support for frontier exploration? | T Reichel, D Klauser-Baumgärtner* and J Hansen (Equinor)

The Bight Basin: a tale of three deltaic megasequences
Strømsøyen, E Schomacker, B Söderstrøm and B Waagan (Equinor)

The Gippsland Basin: reprocessing reveals new opportunities in a ‘mature’ basin
P Baillie (CGG), P Carter (PC Energy), J Grahame, J Zhou and N Mudge (CGG)

**CONCURRENT SESSION 12:
Optimising production from analysis to outcome**

SPONSORED BY 

The use of integrated production modelling to assess network efficiency and production system optimisation
Y Fei (University of Adelaide), G Lydyard, A Mantopoulos, D Marques and M Rondon (Santos)

Multiphase gas compressor to boost non conventional production and reserves
R Perry, J Martini (Hicor Technologies) and P Kulkarni (Equinor)

Rigorous gas field production data analysis | C Evans and A Corrie-Keilig* (RISC Advisory)

Panel discussion

**CONCURRENT SESSION 13: The value of Australian LNG—
global influence and emerging markets**

SPONSORSHIP AVAILABLE

The emergence of China as an LNG super user | J Norman (Santos)

Signposts to a robust liquid LNG market | B Cullinane, S Sakmar and N Hill (Deloitte Consulting)

What’s your gas worth: a thrilling or a taxing matter? | K Wee (Deloitte)

Finding a home for Australian LNG in developing power markets | C Henderson (Advisian)

**CONCURRENT SESSION 14: It’s a matter of safety—
understanding, improving and regulating**

SPONSORED BY 

What were they thinking? How the brain is wired for Limbic Risk™
R Wentzel and N Wentzel (The Jonah Group)

Reflections of a contemporary gas regulator in Queensland
B Date (Department of Natural Resources, Mines and Energy)

Eliminating fatalities from the upstream oil and gas industry
C Hawkes (International Association of Oil & Gas Producers)

Current trends in industry safety performance: applying scrutiny to safety issues associated with ageing facilities | D O’Keeffe (NOPSEMA)

EHS

12:30pm–2:00pm

NETWORKING LUNCH IN THE EXHIBITION HALL

SPONSORSHIP AVAILABLE

1:00pm–2:00pm

MEET THE AUTHORS Poster Presentation Area, Exhibition Hall SPONSORED BY

Enjoy the gallery of technical and business posters inside the exhibition and meet the authors to discuss their work. See p20–23 for the full listing of 2019 Posters Presentations.



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Wednesday 29 May 2019

2:00pm–3:15pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 15–19

CONCURRENT SESSION 15: PESA—2018 in review

SPONSORED BY  PESA

Australian Exploration Review 2018 | D Lockhart and D Spring* (Senex Energy)

Australian petroleum production and development 2018 | K Whittle (Shell Australia)

Australian gas reservation and other protectionist policies—a review | J Plumb (Carter Newell)

CONCURRENT SESSION 16: Australia’s potential

SPONSORSHIP AVAILABLE

East coast gas: Resource potential at different gas price scenarios (Part 1: Quantification of unconventional gas resource potential) | I Cockerill, J Collins and Z Rasheed (RISC Pty Ltd)

Rock properties and in-situ stress state of the Egilabria Prospect, Lawn Hill Platform, Queensland
A Bailey, L Wang, L Hall and P Henson (Geoscience Australia)

The prospectivity of the Cape Vogel Basin, Papua New Guinea (PNG)
S Amiribesheli (Discover Geoscience) and A Weller (Searcher Seismic)

Enabling a CCS industry through research at the CO2CRC National Otway Research Facility
M Raab*, A Qader* (CO2CRC) and C Jenkins (CSIRO)

CONCURRENT SESSION 17: Fracking the way to fresher findings

SPONSORSHIP AVAILABLE

Challenges in modelling of hydraulic fracturing in low-permeability coal seams with complex cleat networks and stress regimes
M Aghighi, R Johnson Jr* and C Leonardi (University of Queensland)

Depletion plan to drain deep coal using ESP—production testing and integration of reservoir and coal properties to optimize production | R Branajaya (Strike Energy)

Influence of elastoplastic embedment on CSG production enhancement using graded particle injection
Z You, D Wang, C Leonardi, R Johnson Jr* (University of Queensland) and P Bedrikovetski (University of Adelaide)

CONCURRENT SESSION 18: It’s a gas

SPONSORED BY  ABB

LNG goes greener with gas, renewables and batteries | T Lukatela (Woodside Energy)

Some economic estimates of gas-fired power generation in a carbon constrained Australia
C McConnell (Advisian)

Renewed energy in Asia’s upstream | G Farruggio and D Dixon (Rystad Energy)

Moomba reset—breathing new life into a 50 year old asset | V Santostefano (Santos)

CONCURRENT SESSION 19:

Environmental approvals—the collaborative approach

SPONSORSHIP AVAILABLE

A regulators vision and perspectives on key environmental management challenges | C Sim (NOPSEMA)

The petroleum-fishing roundtable | J Lovell (Seafood Industry Australia)

Critical success factors for achieving environmental approvals | P Raitt (Green Light Environmental)

Reducing the complexity of environmental approvals—learnings from an industry-wide collaborative effort
M Smith (NERA)



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Wednesday 29 May 2019

3:15pm–3:45pm

AFTERNOON TEA IN THE EXHIBITION HALL

SPONSORSHIP AVAILABLE

3:45pm–5:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 20–24

CONCURRENT SESSION 20: A new Cooper Basin is born

SPONSORSHIP AVAILABLE

Geological and bioregional assessments—enabling future tight, shale and deep-coal gas development—Cooper Basin Case Study

D Robinson, ME Gunning, A Swirepik, A Stacey, D Dann, K Holland, L Hall & B Sundaram (Geoscience Australia)

Old rocks, new tricks—a re-invigorated Cooper Basin offers growth opportunity

B Ovenden (Santos)

Results of hydraulic fracturing design improvements and changes in execution strategies for unconventional tight gas targets in the Cooper Basin, Australia

R Johnson, R Zhong (University of Queensland) and L Nguyen (Real Energy Corporation)

Panel discussion



**CONCURRENT SESSION 21:
Emerging ideas in process safety**

SPONSORED BY

Reducing maintenance burden on established facilities through a targeted risk review of safety critical equipment | B Innes (Upstream Production Solutions)

The hardy perennials of maintenance | N Clegg (Upstream Production Solutions)

Digitisation in the offshore space | J Baker and M Tipping (Lloyds Register)

Offshore structures—why all offshore facilities should have a demanning requirement

M Keys (Atkins SNC-Lavalin)

**CONCURRENT SESSION 22:
Project management 101—fail to prepare, prepare to fail**

SPONSORSHIP AVAILABLE

Australia's shale industry—how we can become globally competitive | P Cox (Worley Parsons)

Better project delivery—Australia's value opportunity | A Rodger (Wood Mackenzie)

Industry 4.0 and the digital transformation journey | D Makin and E Boyle (Jacobs)

Integrated activity planning—a proven approach to optimising operations outcomes

B Farrell and V Mulgund (EY)

**CONCURRENT SESSION 23:
One industry, one workforce, one goal**

SPONSORED BY

Diversity and inclusion—moving the needle in Indigenous employment and engagement

M Williamson* (Broadspectrum) and M Wilson* (INPEX Operations Australia Pty Ltd)

Enhancing indigenous partnerships in an increasingly digitised oil and gas sector

M Lynn* (Deloitte Touche Tohmatsu Australia) and D Wirrpanda* (Wirrpanda Foundation)

How diversity can alleviate sharks and bandwagons in the gas sector

S McAlister Smiley* and J Spanjaard* (Deloitte and Touche Tohmatsu)

Panel discussion

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Wednesday 29 May 2019

3:45pm–5:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 20–24 cont.



CONCURRENT SESSION 24: Environmental monitoring—a dip in the ocean

SPONSORSHIP AVAILABLE

Innovation and technology in marine science: AIMS' North West Shoals to Shore Research Program—an update | M Parsons, K Miller, M Thums, J Gilmour, J Gilmour, L Ferreira (Australian Institute of Marine Science), R McCauley (Curtin University) and M Meekan (Australian Institute of Marine Science)

Biofouling risk management for the importation of a floating, production, storage and offloading (FPSO) facility and the world's largest semi-submersible platform, central processing facility (CPF) | N Gust*, A Coutts, P Lewis, R Tigges (Biofouling Solutions Pty Ltd), J Prout* and S Carter (INPEX Operations Australia Pty Ltd)

How to demonstrate acceptability—assessment of noise impacts to fishes from a seismic survey in an Australian Marine Park

J Edgell, J Colman (ERM Australia), S Jarvis (S2 Services) and O Glade-Wright (Cooper Energy)

Monitoring marine effects of produced formation water discharge in Bass Strait | L Barnes (Cardno), K Hall* (Esso Australia), C Blount, M Hooper, D van Senden, A Costen, C Scraggs, D Provis and D Pygas (Cardno)

5:00pm–6:00pm

HAPPY HOUR IN THE EXHIBITION HALL

SPONSORED BY

This event provides another excellent networking opportunity for all delegates, exhibitors and invited guests. Meet with colleagues and share ideas over a refreshing drink before you prepare for the Conference Dinner.



Complimentary to delegates and exhibitors.

Includes drinks and light refreshments.

Business attire.

7:00pm for
7:30pm–midnight

CONFERENCE DINNER

SPONSORED BY

Plaza Ballroom, Brisbane Convention & Exhibition Centre

The annual APPEA Conference Dinner is the hottest ticket in town, and a highlight of the social oil and gas industry calendar.

In conjunction with presenting Industry Awards, the evening is renowned for providing quality networking and world-class entertainment. Previous years have featured acts such as Marcia Hines, Jessica Mauboy, Tina Arena, Anthony Callea, The Black Sorrows and Jon Stevens to name just a few.

Whether you book a single ticket or a table, this event will impress! Last year the dinner sold out, so book now to avoid disappointment.

\$195 per person (not included in the registration fee).

Cocktail/lounge suit.



PROGRAM IS SUBJECT TO CHANGE | *DENOTES PRESENTER IF NOT LEAD AUTHOR



Thursday 30 May 2019

7:30am–3:00pm **Conference Registration**
Main Foyer, Brisbane Convention & Exhibition Centre

8:00am–6:00pm **APPEA 2019 Exhibition open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

SPONSORED BY **wood.**

8:00am–6:00pm **APPEA 2019 Technical and Business Poster Presentations open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

SPONSORED BY



8:00am–6:00pm **KPMG Meeting Zone open**
Exhibition Hall, Brisbane Convention & Exhibition Centre

SPONSORED BY **KPMG**

Need to escape the buzz for a meeting? APPEA, in partnership with KPMG, presents the KPMG Meeting Zone—a custom built space within the exhibition for attendees to meet in hourly segments. With two private meeting rooms, seating up to eight per room, this complimentary service is available to book in advance or onsite. See www.appeaconference.com.au for details.

8:30am–10:30am **FEDERAL OPPOSITION ADDRESS**
Senior Representative, Federal Opposition

PLENARY

SPONSORED BY

Staying the course — east coast gas market challenges and opportunities

ExxonMobil

Recent years have seen the east coast gas market move to the front of the political and public debate — in a truly unprecedented fashion. The interplay between policy and politics has been a feature of the debate, with outcomes that challenge the foundations upon which the industry has developed. So, what does the future bring? Is there a way to ensure the export market operates without intervention while ensuring that the industry can explore for, find and develop gas for the domestic market in a competitive and sustainable way?

This timely plenary session, will offer views from a variety of experts. Regulators, analysts and industry will deliver an interactive panel session to provide an in-depth analysis of the key issues.

Facilitator: Ms Ticky Fullerton, Anchor, Your Money

Mr Rod Sims, Chair, Australian Competition and Consumer Commission

Mr Kevin Gallagher, Managing Director & Chief Executive Officer, Santos

Mr Richard Owen, Chairman and Lead Country Manager, ExxonMobil Australia

Mr Andrew Hodge, Senior Energy Analyst, Commodities and Global Markets, Macquarie Securities

PLENARY

10:30am–11:15am MORNING TEA IN THE EXHIBITION HALL

SPONSORSHIP AVAILABLE

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Thursday 30 May 2019

11:15am–1:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 25–28

CONCURRENT SESSION 25: Acquisition, processing and interpretation — a job of seismic importance

SPONSORSHIP AVAILABLE

Offshore data acquisition in shallow water — challenges and opportunities

S Molyneux (Molyneux Advisors), S Jarvis (S2 Services) and J Dirstein (Total Depth Pty Ltd)

The evolution of FWI and its perceived benefits | T Martin and A Long* (PGS)

High frequency full waveform inversion as an interpretation solution

L Letki, M Lamont and T Thompson (DownUnder GeoSolutions)

Application of deep learning for seismic horizon interpretation

J Lowell and J Smith (GeoTeric)

Panel discussion

CONCURRENT SESSION 26: Baselines, benefits and bridging — a closer look at environmental engineering

SPONSORSHIP AVAILABLE

The Great Australian Bight right whale study, 1991–2018: Bridging the gap between science and industry to provide baseline data for impact assessment and approvals in oil and gas

C Charlton, R McCauley* and R Ward (Centre for Marine Science and Technology)

Zero waste well — the beneficial use of produced water from CSG projects | P Wybrew (Santos)

From the Beetaloo to West Texas — similarities, differences and lessons learned from water management in coal seam and shale field developments on either side of the pacific

B Webster, H Churman, C Benjamin, J Long and B Goebel (GHD)

Towards the development of a baseline for surface movement in the Surat Cumulative Management Area

M Masoudian, C Leonardi*, Z Chen and J Underschultz* (University of Queensland)

Panel discussion

CONCURRENT SESSION 27: Community engagement — working with our host communities

SPONSORSHIP AVAILABLE

Gladstone Harbour — a case study of building social license-to-operate in a multi-use area

L Llewellyn, R Brinkman (Australian Institute of Marine Science), E McIntosh (Department of Geography and the Environment), N Marshall (CSIRO), U Pinto (Office of Environment and Heritage), J Rolfe (Central Queensland University) and B Schaffelke (Australian Institute of Marine Science)

Ahead of the game — working with local communities in frontier resource basins

J Braithwaite (Department of Natural Resources, Mines and Energy) Presenter only: W Squire* (Department of Natural Resources, Mines and Energy)

360 Degree stakeholder management driving successful CO₂ storage research

A De Fina* (CO2CRC), M Chable* and C Wills (Upstream Production Solutions)

Social license has changed. It is time to build trust with society using the tools of today

A Johnston-Billings*, L Pogmore* and M Kaiser (KPMG Australia)

Constructivism: an answer to activism | T Diamond (Australian Mines and Metals Association)

Panel discussion

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Thursday 30 May 2019

11:15am–1:00pm

TECHNICAL AND BUSINESS PROGRAM SESSIONS 25–28 Cont.

CONCURRENT SESSION 28: The next chapter of Australian energy **SPONSORSHIP AVAILABLE**

Meeting demand in a new era of east coast gas supply | W Pulsford (Poten & Partners)

Australia's unconventional future—where next? | C Meredith (Wood Mackenzie)

Commercial realities of the proposed LNG import terminals on the East Coast of Australia
N Mumford (Mumford Commercial Consulting)

Has the 'Golden Age of Gas' bypassed Australia? | J Stabler (Energy Edge)

East coast gas: Resource potential at different gas price scenarios (Part 2: commercialisation of unconventional gas resources) | J Collins, I Cockerill and Z Rasheed (RISC Advisory)

Panel discussion

1:00pm–2:30pm

NETWORKING LUNCH IN THE EXHIBITION HALL

SPONSORSHIP AVAILABLE

1:00pm–2:30pm

Authors' Lunch | By invitation only

SPONSORED BY ExxonMobil

**EXCLUSIVE
AUTHORS
EVENT**

APPEA takes this opportunity to thank the lead authors who have delivered high-quality papers and presentations as part of our technical and business program contributing to another successful year of producing the prestigious APPEA Journal. This lunch is a superb opportunity to mix with fellow authors before moving into the final conference session.

2:30pm–4:15pm

PLENARY

SPONSORSHIP AVAILABLE

Perceptions of the modern industry

Perception management has never been so important for the oil and gas industry. An increasingly polarised political landscape, new media challenges, and an active public debate have amplified the need for effective and holistic engagement. Our panel from both inside and outside of the industry will deliver their perspectives on how oil and gas is perceived in the market place and the community. Allowing for a free flowing discussion about this crucial challenge that faces the industry.

Facilitator: Ms Ticky Fullerton, Anchor, Your Money

Prof Damian Barrett, Research Director, Onshore Gas Program, CSIRO Energy and Director, CSIRO Gas Industry Social and Environmental Research Alliance, CSIRO

Mr Peter Bennett, Chief Executive Officer and Managing Director, Clough

Mr Ian Davies, Managing Director and Chief Executive Officer, Senex Energy

Ms Melissa Perrow, General Manager Energy, Brickworks

Ms Christine Corbett, Special Advisor, PwC

Conference Closing Address

PLENARY

4:15pm–6:15pm

FAREWELL COCKTAILS

SPONSORSHIP AVAILABLE

The Charming Squire, Grey Street, South Brisbane

The Charming Squire will host delegates for a final farewell after a thought provoking week of technical innovations, discoveries, networking and exhibition engagement. Enjoy this last opportunity to connect with new colleagues and old acquaintances as we say so long at Southbank.

 Complimentary to full delegates. \$50 per person to all other registration categories and additional guests.

 Includes drinks and light refreshments.

 Smart casual attire.



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Technical and Business Poster Presentations

SPONSORED BY



The APPEA Conference technical and business program incorporates an extensive poster series comprising of over 50 outstanding papers. The extended abstracts or full papers of these posters will be included in *The APPEA Journal* (conference proceedings) provided online after the conference.

The poster series will be on display within the Exhibition Hall of the Brisbane Convention & Exhibition Centre from 8:00am to 6:00pm Tuesday and Wednesday, and 8:00am to 3:00pm Thursday. Delegates are encouraged to attend the special 'Meet the Authors Session' in the poster area during lunch on Wednesday 29 May, 1:00pm–2:00pm to meet the authors and discuss their work.



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GEOSCIENCE

How can we reduce the environmental impact of marine seismic surveys?

A Long, M Bastard, E Asgedom, J F Wisloff and M Christiansen (PGS)

The Roebuck Basin and Beagle Sub-basin well folio

D Nguyen, N Rollet, E Grosjean, D Edwards, S Abbott, C Orlov, G Bernardel, C Nicholson, A Kelman, K Khider and T Buckler (Geoscience Australia)

Proxy modelling for multi-well simulations — enabling identification of major input variables and reduced computation time over Monte-Carlo sampling

T McCourt (Craigslea State High School), R Blackmore (Cyber & Electronic Warfare Division), I Rodger, S Hurter, B Thompson, M Reilly and D Donovan* (University of Queensland)

Revisions to the chronostratigraphic framework of the Upper Jurassic Walloon Coal Measures of the Surat Basin, Australia

C Wainman and P McCabe (University of Adelaide)

Integration of biostratigraphy into a sequence stratigraphic framework for the Surat Basin, Eastern Australia

C L A Vieira Filho*, M Reilly*, S Hurter and Z Hamerli (University of Queensland)

An integrated approach to the Surat Basin stratigraphy

M Reilly, S Hurter, Z Hamerli and C LA Vieira Filho, A LaCroix and S Gonzalez (University of Queensland)

Production of groundwater impacts from coal seam gas extraction in the Surat Basin

K Phillipson (Department of Natural Resources, Mines and Energy)

Well log data analytics — overview of applications to improve subsurface characterization

I Emelyanova (CSIRO Energy), C Dyt*, C Viswanathan, S Maslin, B Clennell, M Pervukhina and J Peyaud (CSIRO)

Coal permeability stimulation by NaClO oxidation

R Balucan, Z Jing, J Underschultz and K Steel (The University of Queensland)

Integrating multi-disciplinary data for building fit-for-purpose 3D mechanical earth model

P Boothby (Chevron), R Puspitasari (Schlumberger), S Thakur* (Chevron), Z John (Schlumberger) and C Walton (Chevron)

An integrated approach to determining natural fracture development through time: a case study and new insights from Castle Cove in the eastern Otway Basin

H Burgin, K Amrouch and P Robion (University of Adelaide)

Effect of the number of water alternating CO₂ injection cycles on the CO₂ trapping capacity

E Al-Khdheaw, S Vialle, A Barifcani, M Sarmadivaleh (Curtin University) and S Iglauer (Edith Cowan University)

Estimating smectite content from seismic data

R Beloborodov, M Pervukhina, V Shulakova (CSIRO), D Chagalov (ExxonMobil Australia), M Josh, M Clennell (CSIRO), G Ward, M Waugh (Chevron Australia) and J Hauser (CSIRO)

Variation of vertical stress in the onshore Canning Basin, Western Australia

A Bailey and P Henson (Geoscience Australia)

ENGINEERING

Improving decision making through data analytics to drive best-in-class CSG rig performance

K Koziol (Easternwell)

Coal identification using neural networks with real-time Coalbed Methane (CBM) drilling data

R Zhong, R Johnson Jr, Z Chen and N Chand (University of Queensland)

Real-time drilling optimisation — driving drilling excellence

A Barhate and P Patel (Drill Insight)

Technology and innovation — lined tubing improves CSG well run life

J Martin (Southern Alberta Institute of Technology)

A practical fracability evaluation for tight sandstone reservoir with natural interface

R Feng, R Chen and M Sarmadivaleh (Curtin University)

Experimental investigation of fluid thermal effects on fracture brittleness

A Rezagholilou, H Salemi, N Tarom, P Behnoudfar and M Sarmadivaleh (Curtin University)

Walk to work systems as an enabler of reduced maintenance and manning

D McCarthy (Granherne)

Safe autonomous systems require changes in business relationships

M Shadbolt (Nova Systems)

Natural gas separation at CO2CRC's Otway National Research Facility

A Qader and J Pandit (CO2CRC)

Subsurface engineering of CCUS in Australia (Case Studies)

M Bagheri and M Raab (Cooperative Research Centre for Greenhouse Gas Technologies)

Drilling fluid waste treatment using polysaccharides grafted copolymers

GP Karmakar and K Chandan (Indian Institute of Technology)

Flowing gas material balance — a useful tool to revise subsurface maps

B Haq (King Fahd University of Petroleum and Minerals)

Risk-based asset performance management in CSG production operations

P Carydias and J Gregory* (Wood)

Decision making through Bayesian Network for a pipeline in design

J Zhang (DNV GL Australia), F Ayello and G Lin (DNV GL USA)

LNG production revenue enhancement

M Vines (Esso Australia)

Application of computerised radiography in lieu of film radiography to streamline on-site pipe weld inspection process

M Fernando (McConnell Dowell Constructors) and H Fard (Bureau Veritas)

Managing escape, evacuation and rescue (EER) risk on aging offshore facilities

N Netscher* (ExxonMobil Australia) and J Thompson* (Advisian)

Asset management — listening to your asset

D Walker (Yokogawa Australia)

BUSINESS

State of origin — US Shale vs QLD Coal Seam Gas

A Abramov (Rystad Energy)

Forecasting growth of the Australian unconventional oil and gas services market

R Carbrey (Rystad Energy)

SEAR JIP: the value of sharing of lessons learned on subsea integrity and reliability

A Botto (Wood)

Blockchain in oil and gas — a collaborative approach

L Gallacher (Deloitte Consulting) and D Champion (Nottingham Trent University)

Securing industrial systems in a digital world

B Dickinson and D Wilkinson (ABB)

Oil and gas project management and success — a critical evaluation of oil and gas project management success in Australia | C Ikediashi and B Bjeirmi (Robert Gordon University)

The tax profile of different models of infrastructure asset ownership and funding and investment vehicles

M Chang (EY)

Opportunities for collaboration in the Australian oil and gas industry

J Peacock* and S Dow* (KPMG Australia)

LNG fuels — Australia's big opportunity in small scale LNG

C Jennings (Woodside Energy)

Blue hydrogen production: a case study to quantify the reduction in CO₂ emission in a steam methane reformer based hydrogen plant | N Kritzinger (Fluor Australia), R Ravikumar, S Singhal (Fluor Daniel India Private), K Johnson (Fluor AV) and K Singh (Fluor India)

Enabling regulatory submission workflows on a cloud platform — application of industry standards

J Kozman (Woodside Energy)

From initial advice statement to export — a 10 year retrospective of Queensland's liquefied natural gas industry | P Downey, J Thomas* and M Stone (Department of Natural Resources, Mines and Energy)

Darwin harbour — a partnership approach to understanding and evaluating environmental challenges

R Brinkman, E Butler (Australian Institute of Marine Science), T O'Connor (Darwin Port) and C Streten (Australian Institute of Marine Science)

Competency framework: environmental approval specialists

P Raitt* and S Fidgeon* (Green Light Environmental)

Western Australian marine oil pollution risk assessment — identification of protection priorities

R Morgan (Advisian), E Gifford (WA Department of Transport), A Jacobs (Advisian) and K Swain (Woodside Energy)

'Lawfare' and the oil and gas industry

X McMahon and J Williams (Clayton Utz Brisbane)

The power of digital — workplace tools to modernise safety compliance

N Shibi and K Ahlgren (Techs4biz)

Technical safety – use of concept risk assessment for field development certainty

C Crowley, D Ashton and D Callus (Atkins Global)

Northern gas pipeline project — a case study in safe, professional gas pipeline construction

L Richards (McConnell Dowell Constructors)

Safe and efficient delivery of logistics solutions to coal seam gas well sites, utilising our 'Well in a Box' methodology | E Kunkels, J King* and B Yeong (Arrow Energy)

Friday 31 May 2019

2019 AUSTRALIAN OILFIELD GOLF TOURNAMENT

Organised by the AOGT 2019 Committee

The Australian Oilfield Golf Tournament (AOGT) has been a staple feature that follows the APPEA annual conference and is now in its 53rd year. The tournament is brought to you by a committee of dedicated volunteers from the oil and gas industry and in 2019 aims to raise funds for a nominated Charity.

The 2019 AOGT tournament caters for social and club golfers alike and will be hosted at one of Brisbane's most renowned golf courses. Places will book out fast, so please act quickly.

For those wanting to mix business with pleasure, various sponsorship packages are available, including complimentary registrations.

Further information: Kylie Carre, 0424 582 049 OR kyliecarre@live.com.au



GPinfo Petroleum Permits Map and Book

SUPPLIED BY



GPinfo — CELEBRATING 30 YEARS OF SELLING MAPS

The 30th Anniversary editions of the GPinfo Petroleum Permits of Australasia Map and Book will be released on the opening morning of the APPEA 2019 Conference and Exhibition. Pre-order your collector's copy of these essential and iconic industry publications with your conference registration (online at www.appeaconference.com.au).

The Permits Map is A0 in size and includes permit outlines, oil and gas fields, major discoveries and pipelines for Australia, New Zealand and Papua New Guinea, as well as enlargements over areas of significant exploration interest. Up-to-date information on permit ownership, areas and expiry dates is available in the Permits Book, with listings both by state and by company. The Permits Book is offered in digital format and is available with quarterly updates.

FREE DELIVERY FOR ALL MAP PRE-ORDERS

- A0 permits wall map: \$165 per paper copy, \$200 per laminated copy.
- Digital permits book: \$110 for the APPEA edition, \$275 for the APPEA edition plus three quarterly updates.
- APPEA Bundle: \$420 for a laminated map plus eBook with quarterly updates.

The APPEA Journal

YOUR OFFICIAL RECORD OF APPEA 2019

The APPEA Conference continues to distribute world-class information to the industry through *The APPEA Journal*—the official record of this flagship event.

The APPEA Journal (2019) will be published online three weeks after the conference. Delegates who receive the proceedings as part of their package, will be issued a password to access the highly sought after conference material. It will contain peer-reviewed full papers and extended abstracts of oral and poster presentations, all plenary presentations¹, PESA industry reviews¹ and a selection of material from the social functions.

Abstracts from all available presentations will be accessible to view pre-conference via the APPEA 2019 Mobile App.

APPEA is proud to continue to deliver a conference proceedings that is internationally acclaimed and distributed world-wide.

For more information on accessing the 1961–2018 journal articles online, please contact: Georgia Toirkens, gtoirkens@appea.com.au, t 02 6267 0908

¹ Where consent has been given.



APPEA YOUTH PROGRAM: Fostering the next generation



The next generation of talent will be the one to **Navigate the Future** of our industry, using the Internet of Things, Artificial Intelligence, big data, machine learning, and 3-D printing as part of the everyday toolkit.

APPEA 2019 will deliver a high school-focused education program to connect with this audience and showcase the best of our industry, including the digital revolution that is currently underway.

Proudly supported by leading players in oil and gas, selected high school groups will participate in tailored workshops and interactive activities with industry leaders, learn about the many career pathways available to them now and in the coming decades, and have the unrivalled experience of a guided walk through the APPEA Exhibition.

For more details visit www.appeaconference.com.au

SPONSORED BY



Santos



APPEA MENTOR PROGRAM: Cultivating our new oil and gas professionals

The APPEA 2019 Conference Mentor Program aims to encourage, enable and empower undergraduate tertiary students by linking them with successful peer role models.

APPEA has a strong commitment to the next generation of oil and gas professionals, and BHP's own graduates will act as mentors to the selected students for their time at APPEA 2019— sharing their experiences and advice on entering the industry.

Six tertiary undergraduate students will be selected from local Queensland Universities via a written application form and will experience all that the APPEA Conference has to offer.

For more details visit www.appeaconference.com.au

SPONSORED BY



NEW FOR 2019

APPEA 2019 ONSITE CHILDCARE



Nurturing a partnership between family and work

New for 2019 and proudly sponsored by BHP, APPEA is delighted to offer a **complimentary** childcare facility for registered APPEA 2019 attendees, **onsite at the conference venue**.

The childcare will accommodate children aged 0–5 years and operate 8am–6pm, Tuesday 28 – Thursday 30 May during the conference. Places are strictly limited and can be secured via the APPEA 2019 online delegate and exhibitor registration system.

Attend conference sessions knowing your child is having fun, learning and in safe hands.

For more details visit www.appeaconference.com.au

SPONSORED BY



The APPEA Conference and Exhibition is where you can take your brand to the world of oil and gas. More than 2000 attendees from more than 25 countries register knowing that this event is run *by the industry, for the industry.*



Take your brand to the leaders in oil and gas

EXHIBITION

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Over 95% sold!

As an exhibitor in the largest annual upstream oil and gas conference and exhibition in the southern hemisphere, you'll get a front row seat to meet with the industry's leading explorers, producers and suppliers. The APPEA 2019 Exhibition provides an exceptional opportunity to showcase your brand and offerings alongside leading industry groups while meeting with key decision makers. With a large take up since the floor plan was launched, there are now limited opportunities to part-take in this highly coveted business development platform—because it works.

View the APPEA 2019 Exhibition Prospectus and confirmed exhibitors at www.appeaconference.com.au

To discuss and book available sponsorship packages, please contact: Jason Avery, Event Manager, APPEA on +61 7 3231 0510 or javery@appea.com.au

SPONSORSHIP

As the APPEA Conference and Exhibition is only open to registered attendees and invited guests, our sponsors can be assured of the high calibre of oil and gas professionals that will come through the event doors, allowing for business connections to flow easily. Our plenary, technical and business programs deliver world leaders in their field, attracting the discerning energy professional.

If you only make one sponsorship investment this year, ensure it is at the APPEA 2019 Conference and Exhibition—the only show in Australia that can take your brand to the world of oil and gas, and deliver you a solid return on investment. A range of sponsorship packages are available to suit your company's strategic marketing objectives.

View the APPEA 2019 Sponsorship Prospectus and confirmed sponsors at www.appeaconference.com.au

Technical program judging

At the end of each annual conference, APPEA presents four prestigious awards relating to the technical and business program. These are the:

- 'Alan Prince' Award for Best Peer Reviewed Paper published in *The APPEA Journal*
- Best Extended Abstract published in *The APPEA Journal*
- Best Oral Presentation at the APPEA Conference
- Best Poster Presentation at the APPEA Conference

Would you like to volunteer to assist with the judging process for 'Best Oral Presentation'?

You do not have to be an expert in the field of the presentation. You will be judging the presenter's ability to communicate their message rather than the content of the message.

If you would like to assist, please tick the relevant box during the online registration process in the section which relates to the concurrent sessions.

If you have any questions about this aspect of the APPEA Conference, please feel free to contact:

Dr Steve Mackie, Chair, APPEA Technical Program Committee [e steve.mackie@geosimconsulting.com.au](mailto:steve.mackie@geosimconsulting.com.au)

2018 APPEA Conference award winners



Best oral presentation

Case study: successful disconnection of a traditional floating production storage and off-loading unit (FPSO)

Sashi Gajula (Eni Australia) and Bertrand Peuchot (Technip FMC)



Best poster presentation

Working together to reduce land transport safety risk in the CSG sector — can we ever do enough?

Michelle Zaunbrecher, Jason King and Brandon Yeong (Arrow Energy)



Best extended abstract published in *The APPEA Journal* (2018)

Unravelling the Triassic Mungaroo Formation within the North Carnarvon Basin using Regional Stratal Slice Volumes

Tony Marsh, Bill Kowalik (Chevron Australia), Rhonda Welch (Chevron Energy Technology), Anne Powell (Chevron Australia), Heidi Howe (Independent consultant) and Bill Hallager (Chevron Australia)



Alan Prince Award — Best peer-reviewed paper published in *The APPEA Journal* (2018)

Pluto 4D — Australia's first 4D over a gas field is an outstanding success

Larry Tilbury and Andre Gerhardt (Woodside Energy)



Accommodation

Registration

The registration and enquiry desk will be located in Main Foyer of the Brisbane Convention & Exhibition Centre and will be open:

Monday 27 May	11:00am–7:00pm
Tuesday 28 May	7:30am–5:00pm
Wednesday 29 May	7:30am–5:00pm
Thursday 30 May	7:30am–3:00pm

Communication with delegates

All communication with registered delegates will be by email, wherever an email address is provided. If you register and do not receive a confirmation by email within one working day please contact the conference administrator, Sane Event Group by phone on +61 2 9553 1260 or email appea2019@saneevent.com.au.

Venue

Brisbane Convention & Exhibition Centre, Merivale & Glenelg Sts, South Brisbane Queensland 4101

w www.bcec.com.au

t +61 7 3308 3000

Coming by taxi? Ask for the Merivale Street entrance.

APPEA has block-booked accommodation at a number of hotels and apartments. These include:

- Rydges South Bank
- Mantra South Bank
- Novotel Brisbane
- West End Central Apartments
- Riverside Hotel South Bank
- Emporium Hotel

To take advantage of the special rates negotiated for APPEA 2019 delegates, please complete the accommodation section of the online registration form at www.appeaconference.com.au. All bookings will be accepted on a first-come first-served basis until hotel blocks are full.

If you require further information regarding room inclusions on a specific hotel, please contact the conference administrators, Sane Event Group, directly on +61 2 9553 1260, or email appea2019@saneevent.com.au who will endeavour to locate a hotel to match your requirements or answer any questions that you may have.

Note: for location references, please refer to the map at www.appeaconference.com.au

Categories and inclusions	Full delegate	Day delegate	Student ⁴	Exhibition booth staff
Conference opening session	✓	✓	✓	
Plenary session access	✓	✓	✓	
Concurrent session access	✓	✓	✓	
Exhibition access	✓	✓	✓	✓
Welcome reception ¹	✓			
Farewell cocktails ¹	✓			
Refreshment breaks and networking lunches	✓	✓	✓	✓
Happy hours	✓	✓	✓	✓
Conference Dinner ²				
Satchel	✓	✓	✓	
<i>The APPEA Journal</i> (conference proceedings) ³	✓	✓	✓	

Notes

¹ Tickets/additional tickets for the Welcome reception and the Farewell cocktails can be purchased for \$95 and \$50 respectively during the registration process.

² Tickets for the Conference Dinner can be purchased prior to the event as part of the registration process for \$195 each.

³ *The APPEA Journal* (conference proceedings) will be published online and available three weeks post conference. Recipients will be issued with a unique access code.

⁴ Student registrations will close COB 22 March 2019. Evidence of full-time study in 2019 including the name of the institution and student number must be provided with the registration form. For the full criteria details to secure this special rate, please see www.appeaconference.com.au under 'Attend'.

⁵ Accredited media must be pre-approved by the APPEA Secretariat before registering. Please refer to the media section at www.appeaconference.com.au

⁶ APPEA has negotiated with specific industry bodies and associations for special rates for their members. For more details please refer to the Attend/Registration section on www.appeaconference.com.au

Pricing

		Early bird to 5 April	Standard 6 Apr–24 May	Late 25–30 May
Full delegate	APPEA Member/Government	\$1,620	\$1,845	\$1,995
	Non member ⁶	\$2,095	\$2,295	\$2,495
	Honorary Life Member	\$0	\$0	\$0
Day delegate (price per day)	APPEA Member/Government	\$825	\$970	\$1,040
	Non member ⁶	\$1,095	\$1,190	\$1,290
Exhibition booth staff	APPEA Member/Government	\$310	\$365	\$425
	Non member	\$365	\$425	\$490
Other types of registration	Student ⁴	\$130	\$130	\$130
	Media ⁵	\$0	\$0	\$0
Social and networking functions	Welcome Reception ¹	\$95	\$95	\$95
	Conference Dinner ²	\$195	\$195	\$195
	Farewell Cocktails ¹	\$50	\$50	\$50

APPEA2019

Participant terms and conditions

Registration All registration fees must be paid in full prior to the event or by 5:00pm AEST Friday 24 May 2019 to guarantee and confirm registration. Once payment has been received, an email confirmation and receipt will be provided. If payment is not made at the time a registration is lodged then registration will be deemed provisional and APPEA reserves the right to deal with such registrations in its absolute discretion.

APPEA reserves the right to levy an administration fee for any notice of cancellations by attendees or delegates received in writing. For cancellations received in writing by 5:00pm AEST Wednesday 15 May 2019, a full refund (less \$475 for full registrations, \$235 for day registrations and \$75 for exhibition staff registrations to cover administration costs) will be made.

No refunds will be issued for cancellations received after this date. In addition, full cancellation fees will apply for social functions cancelled 5:00pm AEST Wednesday 15 May 2019. Should you be unable to attend the event, then a substitute delegate or attendee is welcome at no extra charge on the condition that the conference administrators Sane Event Group are notified in writing by 5:00pm AEST Wednesday 22 May 2019. Any request for name changes after this date will incur an administration fee of \$55. All changes and cancellations must be made in writing (email appea2019@saneevent.com.au). No changes or cancellations will be accepted verbally or by fax.

Please note: If a registration is submitted and is unpaid, no cancellation notice is received and the delegate does not attend the event, this will still be considered an active registration and payment will be requested in full by the conference administrators.

In the event of a lost name badge onsite, a replacement fee will apply.

Early bird registration close at midnight on Friday 5 April 2019. If full payment has not been received by 5:00pm AEST Friday 19 April 2019 for an early bird registration, APPEA will charge the standard registration fee for that delegate.

Payment All registrations should be accompanied by an appropriate form of payment. All credit card payments will be accepted except for Diners. Any surcharge applied by the relevant card provider will apply to all credit card transactions. All figures are quoted in Australian dollars and include GST. A tax invoice will be included with your confirmation email.

Please note: Delegates will not be permitted access to the conference unless payment is received in full by the conference administrators, Sane Event Group. Please do not send your payments directly to APPEA.

Behaviour Subject to applicable law (including the Australian Consumer Law), APPEA reserves the right in its absolute discretion to prohibit entry of any person to an APPEA event, or eject any person from an APPEA event based on behaviour deemed inappropriate, unacceptable or unreasonable by APPEA staff and/or its agents and others working under its authority.

Program APPEA reserves the right to change or alter the published program at any time. In such an event APPEA will use every endeavour to ensure a program of equivalent standard is provided.

Cancellation Subject to applicable law including the relevant provisions of the Australian Consumer Law, in the event that APPEA is required to cancel the event or program, the liability of APPEA will be limited to a refund of the registration fee or re-scheduling the event and to the fullest extent permissible under law APPEA will not be liable for any loss, damages, costs, indirect or consequential damages for breaches of these terms and conditions.

Event speakers Any views expressed by speakers remain at all times their own personal views. Subject to applicable law, APPEA does not accept liability for any advice given, or views expressed by any speaker at any event or conference or in relation to any materials provided to delegates or attendees. Delegates or attendees should advise APPEA of any special access requirements at the time of registration.

Force majeure Except as required by law, APPEA will not be liable for any loss, damage, injury, costs or expenses in relation to:

- a acts or omissions of an independent contractor or other party outside of APPEA's control who supplies products or services in connection with the event;
- b events which are unforeseeable or not preventable by reasonable diligence on APPEA's part including but not limited to industrial action, blackouts, fire, war, terrorism, civil or military unrest, explosions, earthquakes, floods, labour disputes, acts of God or any other event or cause beyond APPEA's control; and
- c Unknown or unforeseen defects in any venue, vehicle, device or material used in connection with the event.

Photography All delegates or attendees are advised that APPEA and its agents may take photographs of any individuals attending the event for future promotional purposes and in consideration of payment of the registration fee you consent to the taking of any photographs and waive any rights to the future use of your image by APPEA for these purposes.

Privacy policy APPEA is concerned with the protection of your privacy. We acknowledge and abide by our obligations under the Australian Privacy Principles contained in the *Privacy Act 1988* (Cth) as amended. APPEA collects and stores your personal information for the purposes of providing registration and delegate services, education and training programs, and improving and promoting products and services, and membership status in various ways. To view full details of APPEA's privacy policy please visit our website at www.appea.com.au/privacy-policy.

Delegate list APPEA will distribute a delegate list in the week prior to the event via email and at the event via the Mobile App and to the Principal

sponsors before and after the event. Attendees can opt out of these lists when registering for the conference. Should you not wish to have your details to be provided by way of delegate lists or other communications to the conference sponsors, please email in the first instance akelly@appea.com.au. If you have any questions or concerns about your privacy in relation to this event please contact csutton@appea.com.au.

Accommodation bookings should be made at the time of registration to ensure you obtain accommodation at the property of your choice. Bookings must be made on the applicable section of the online registration form. Delegates will be responsible for payment of their accommodation and all costs incurred during their stay upon check out at the hotel. Some hotels may charge a one night deposit to your credit card prior to the event. This amount will be deducted from the credit card provided directly by the hotel.

Disclaimer: It is your responsibility to review the accommodation provider, the facilities and the conditions in which the booking is offered. APPEA does not accept any liability for any loss or damage that you might suffer due to unsatisfactory accommodation arrangements made by you. Please take care when assessing and booking accommodation arrangements.

Accommodation cancellations and amendments No cancellation fee will be charged if you advise an amendment or cancellation in writing to the conference administrator, Sane Event Group, to appea2019@saneevent.com.au before 5:00pm AEST Tuesday 9 April 2019 (please note variation to the Novotel terms below). A cancellation fee of one night will be charged for cancellations or reduced room nights between 5:00pm AEST Wednesday 10 April 2019 and 5:00pm AEST Friday 26 April 2019 (inclusive). No refunds will be provided for cancellations or reduced room nights 5:00pm AEST Friday 26 April 2019. Please note the above cancellation policy does not apply for the Novotel. No refunds will be provided for cancellations or reduced room nights after 22 April 2019 for the Novotel.

The credit card provided at the time of booking will automatically be charged by the nominated hotel, for any cancellation fees incurred. No new bookings or accommodation changes can be made over the phone. All bookings/changes must be made in writing to appea2019@saneevent.com.au.

After Friday 24 May 2019, accommodation should be booked or amended directly through the hotels. Please note, after Friday 24 May 2019, the conference administrators are not responsible for advising hotels of changed circumstances, even if they are advised of a cancellation/change of registration details. Hotels will directly debit delegates' credit card details for cancellations and no shows (if not advised prior). Please ensure you are aware of the conference registration cancellation policies as outlined above.

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