Monday 27 May 2019

APPEA SEMINAR

APPEA Introduction to Oil and Gas Industry Seminar
Room S1, Sky Level
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. These seminars will also be conducted in Perth, Canberra, Darwin, Melbourne and Brisbane throughout 2019. For further information visit www.appea.com.au/event/intro-to-oil-gas-industry-seminars.

CONFERENCE REGISTRATION

Main Foyer, Ground Level
Join fellow delegates and collect your registration packs prior to attending the Welcome Reception at 6pm.

PESA DEAL DAY

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 is separate from the APPEA Conference and Exhibition and includes lunch and refreshments.

WELCOME RECEPTION

Exhibition Hall 3, Ground Level
Join us for a kaleidoscope of colour at the first official social function of APPEA 2019 as we showcase the best Queensland has to offer. The perfect setting to get a taste of the quality networking the next three days will deliver.

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

Includes drinks and light refreshments.

Smart casual attire.
Tuesday 28 May 2019

7:30am–8:20am  **Presenters’ Breakfast — Technical and Business Program**  
**SPONSORED BY** bp  
**BY INVITATION ONLY**

7:30am–5:00pm  **Conference Registration**  
Main Foyer, Ground Level

8:00am–6:00pm  **APPEA 2019 Exhibition open**  
Exhibition Hall, Ground Level  
**SPONSORED BY** wood.

8:00am–6:00pm  **APPEA 2019 Technical and Business Poster Presentations open**  
Exhibition Hall, Ground Level  
**SPONSORED BY** bp

8:00am–6:00pm  **KPMG Meeting Zone open**  
Need a private place to meet and talk business? With two private meeting rooms, seating up to eight per room, this complimentary service is available for one-hour periods.  
Exhibition Hall, Ground Level

8:30am–10:15am  **PLENARY: Navigating the future**  
**SPONSORED BY** CLough, Woodside

**CHAIR:** Mr Andrew McConville  
Chief Executive, APPEA

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 succeed in the new energy market — a market experiencing the most disruptive period in a generation.

**Conference Opening Ceremony**

**Australian Government Address** (subject to availability)  
Senior Representative, Federal Government

**Queensland State Government Address**  
Hon Dr Anthony Lynham MP, Minister for Natural Resources, Mines and Energy

**Lead Industry Address: Leveraging opportunities in a growing but competitive market**  
Mr Ryan Lance, Chairman and Chief Executive Officer, ConocoPhillips

**APPEA Chair’s Address**  
Mrs Zoe Yujnovich, Country Chair and Executive Vice President, Shell Australia

10:15am–11:00am  **MORNING TEA IN THE EXHIBITION HALL**  
**SPONSORED BY** TRI-STAR
Tuesday 28 May 2019

11:00am–12:30pm

PLENARY: The future’s not what it used to be—the new energy landscape

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

**SPONSORED BY**

IEA perspectives on the global energy landscape
Mr Paul Simons, Deputy Executive Director, International Energy Agency

Unlocking Australia’s natural advantage
Mr Peter Coleman, CEO and Managing Director, Woodside

The role of gas in transforming energy
Mr Frank Calabria, CEO and Managing Director, Origin Energy

No guarantees—setting Australian Energy Policy for 2040
Mr Matt Rennie, Oceania Power & Utilities Leader, EY

12:30pm–2:00pm

**NETWORKING LUNCH IN THE EXHIBITION HALL**

All delegates are invited to enjoy lunch in the exhibition halls while exploring the exhibits, poster presentations, and Collaboration Centre.

12:30pm–2:00pm

**APPEA Members’ Lunch | BY INVITATION ONLY**

1:00pm–2:00pm

**Hot Topics Discussion in the EY Collaboration Centre** (See p31)

**SPONSORED BY**
### TECHNICAL AND BUSINESS PROGRAM SESSIONS 1–4

**Tuesday 28 May 2019**

2:00pm–3:15pm

#### CONCURRENT 1: Queensland — innovation, development and prospectivity

**CHAIR:** Mr Anthony Roe, Head of Digital Technology & Innovation—MEI, Downer

- **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 (Dept of Natural Resources, Mines and Energy)

#### CONCURRENT 2: Fresh applications for reservoir engineering

**CHAIR:** Professor Ray Johnson Jr, Professor of Well Engineering & Production Technology, University of Queensland

- **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 (Bridgeport Energy), A Diaz (Flow Dynamics UK) and A Bracho (Flow Dynamics Australia)

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

**CHAIR:** Mr Ashley Watson, Partner, Piper Alderman

- **The Australian Government’s liquid fuel security review and National Energy Security Assessment**
  T Wyndham (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 too far?**
  G Bethune and R Wilkinson* (EnergyQuest)

- **Sustainability trends in oil and gas**
  D Dique (ERM)

#### CONCURRENT 4: Queensland projects from the ground up

**CHAIR:** Mr Simon Gossmann, Groundwater Manager, Arrow Energy

- **Building regional strength through supporting social and economic activity in Queensland’s gasfield communities**
  T Quinn (Broadspectrum)

- **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, Queensland) and P Baker (Department of the Environment and Energy)

- **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)

**Panel discussion**

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*PROGRAM IS SUBJECT TO CHANGE | *DENOTES PRESENTER IF NOT LEAD AUTHOR
Tuesday 28 May 2019

3:15pm–3:45pm AFTERNOON TEA IN THE EXHIBITION HALL

SPONSORED BY

3:45pm–5:00pm TECHNICAL AND BUSINESS PROGRAM SESSIONS 5–9

CONCURRENT 5: Setting the scene: WA basin architecture

CHAIR: Dr Andrew Heap, Chief of Division—Resources, Geoscience Australia

Exploration of an unconventional petroleum resource through extensive core analysis and basin geology interpretation utilising play element methodology
J van Hattum* (Theia Energy), A Bond (Finder Energy), D Jablonski (Finder Energy) and R Taylor-Walshe* (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, North West Shelf, Australia
A Karvelas (Schlumberger Australia), B J Lim (Schlumberger), L Trihutomo (Schlumberger Australia), O Schenk (Schlumberger GmbH, Germany) and S Tewari (Schlumberger Oilfield UK)

Panel discussion

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

CHAIR: Mr Dylan Stringer, Principal Drilling Engineer, Origin Energy

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

CONCURRENT 7: Regulation—legislating for success

CHAIR: Mr Shaun Ferris, Acting Deputy Director-General, Department of Natural Resources, Mines and Energy

Groundwater management—working with Queensland and EPBC regulation and processes
J Barker* (Department of the Environment and Energy), S Pandey* (Office of Groundwater Impact Assessment, Queensland), J McKeay* and K Birch* (Department of Environment and Science)

CONCURRENT 8: Decommissioning—every end is a new beginning

CHAIR: Mr Michael Vandertuin, Decommissioning Business Development Manager, ABB

Engineering and environmental studies for decommissioning of subsea infrastructure
P Raitt* (Green Light Environmental), A Selman and C Lanoëlle* (Atteris)

Decommissioning—a path forward for Australia | S Barrymore and J Ballard (Herbert Smith Freehills)

Rigorous decommissioning decision making with strong stakeholder engagement using comparative assessment | P Gordon, E Poot (Catalyze APAC) and G O’Connor (Catalyze UK)

Panel discussion
### Tuesday 28 May 2019

#### CONCURRENT 9: Enhancing productivity through digital solutions

**CHAIR:** Mr Nathan Tungseth, Senior Vice President, Global Product Group Manager – Onshore Oil & Gas, ABB

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>A practical guide to IT OT convergence — getting value from your business analytics</td>
<td>R Byfield (Yokogawa Australia)</td>
</tr>
<tr>
<td>Big data for smart safety: applying engineering control analytics to predictive safety</td>
<td>H B Tay*, N Marshall*, A McColm, M Wood (Deloitte Risk Advisory)</td>
</tr>
<tr>
<td>Digitalisation as a critical tool in resource asset valuations, acquisitions and dispositions</td>
<td>D Hollett and C Phasey (Nova Systems)</td>
</tr>
<tr>
<td>Digitalisation driving competitiveness</td>
<td>S Royston (ABB)</td>
</tr>
</tbody>
</table>

**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.

- 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.
Wednesday 29 May 2019

7:30am–5:00pm

**Conference Registration**  Main Foyer, Ground Level

8:00am–6:00pm

**APPEA 2019 Exhibition open**  Exhibition Hall, Ground Level

8:00am–6:00pm

**APPEA 2019 Technical and Business Poster Presentations open**  Exhibition Hall, Ground Level

8:00am–6:00pm

**KPMG Meeting Zone open**  Exhibition Hall, Ground Level

An ideal place for up to eight people to meet for an hour, with two private meeting zones.

8:30am–10:30am

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

**FACILITATOR:** Mr Paul Welton  

General Manager of Strategy, Planning & Commercial, Chevron Australia

**A tale of two gases**  

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

**The Oil and Gas Climate Initiative — delivering solutions for a sustainable low-emissions future**  

Mr Gardiner Hill, Vice President Carbon Management, BP and Senior Representative of Oil and Gas Climate Initiative (OGCI)

**Riding the green wave: Are oil and gas companies jumping on board?**  

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

**Climate change: The investor perspective**  

Ms Emma Herd, Chief Executive Officer, Investor Group on Climate Change
Wednesday 29 May 2019

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

11:15am–12:30pm TECHNICAL AND BUSINESS PROGRAM SESSIONS 10–14

CONCURRENT 10: Advancing Australian exploration

CHAIR: Ms Lisa Schofield, General Manager, Offshore Resources, Department of Industry, Innovation and Science

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

Australian Government exploration initiatives
Seven government agencies will present on initiatives to encourage exploration in their respective jurisdictions
L Schofield* (Department of Industry, Innovation and Science, Federal Government), T Knight* (Department of Natural Resources and Mines, Queensland), K Erzikov* (Department of Planning and Environment, New South Wales), R McGowan* (Geological Survey of Victoria), B Goldstein* (Department for Manufacturing, Innovation, Trade, Resources & Energy, South Australia), I Scrimgeour* (Department of Primary Industry and Resources, Northern Territory) and J Haworth* (Department of Mines, Industry Regulation and Safety, Western Australia)

CONCURRENT 11: Insights and opportunities for southern basins

CHAIR: Mrs Camilla Aamodt, Exploration Manager, Equinor Australia BV

New insights on Upper Cretaceous stratigraphy and sedimentology of the Bight Basin, Australia from IODP Site U1512
C Wainman, P McCabe* and S Holford (University of Adelaide) and the IODP Expedition 369 Scientific Party

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

The Bight Basin — a tale of three deltaic megasequences
I Strømsøyen, E Schomacker, B Søderstrøm 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)
Wednesday 29 May 2019

TECHNICAL AND BUSINESS PROGRAM SESSIONS 10–14 cont.

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

**CHAIR:** Mr Brett Shalders, Executive General Manager, EIM

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

**CHAIR:** Dr Josh Stabler, Managing Director, EnergyEdge

*The emergence of China as an LNG super user*

J Norman (Santos)

*Signposts to a robust liquid LNG market*

B Cullinane (Deloitte Consulting), S Sakmar (University of Houston Law Centre) and N Hill (Deloitte Touche Tohmatsu)

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

**CHAIR:** Mr Peter Allsopp, Head of Zero Harm - MEI, Downer

*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)

12:30pm–2:00pm

**NETWORKING LUNCH IN THE EXHIBITION HALL**

All delegates are invited to enjoy lunch in the exhibition halls while exploring the exhibits, poster presentations, and Collaboration Centre.

12:45pm–2:00pm

**Hot Topics Discussion in the EY Collaboration Centre** (See p31)

1:00pm–2:00pm

**MEET THE AUTHORS Poster Presentation Area, Exhibition Hall**

Enjoy the gallery of technical and business posters inside the exhibition and meet the authors to discuss their work. See p27–29 for the full listing of 2019 Poster Presentations.
### TECHNICAL AND BUSINESS PROGRAM SESSIONS 15–19

#### CONCURRENT 15: PESA — 2018 in review

**CHAIR:** Mr Chris Harwood, Federal Treasurer, PESA

- **PESA Australian exploration review 2018**
  - D Lockhart and D Spring* (Senex Energy)

- **Australian petroleum production and development 2018**
  - G Bethune (EnergyQuest)

- **'Back to the Future' a review of Australian reservation and other natural gas export control policies**
  - J Plumb (Carter Newell)

#### CONCURRENT 16: Australia’s potential

**CHAIR:** Dr Tony Knight, Chief Government Geologist, Department of Natural Resources, Mines and Energy

- **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**
  - S Amiribesheli (Discover Geoscience) and A Weller (Searcher Seismic)

- **Enabling a CCS industry through research at the CO2CRC National Otway Research Facility**
  - M Raab (CO2CRC), C Jenkins (CSIRO Black Mountain), R Pevzner (Curtin University) and A Qader (CO2CRC)

#### CONCURRENT 17: Fracking the way to fresher findings

**CHAIR:** Professor Andrew Garnett, Director – UQ Centre for Coal Seam Gas, University of Queensland

- **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)

- **Pushing the boundaries — development of innovative drilling, completion and production technology to advance a deep coal seam play**
  - R Branajaya, P Archer and A Farley (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 Bedrikovetsky (University of Adelaide)

#### CONCURRENT 18: It’s a gas

**CHAIR:** Mr Juergen Zimmermann, Business Development & Technology Manager Microgrids, ABB

- **Renewables, gas and batteries — reliable and efficient power for industry**
  - T Lukatela (Woodside Energy)

- **Some economic estimates of gas-fired power generation in a carbon constrained Australia**
  - C McConnell and C Dorgelo (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)
### Wednesday 29 May 2019

#### TECHNICAL AND BUSINESS PROGRAM SESSIONS 15–19 cont.

**CONCURRENT 19: Environmental approvals — the collaborative approach**

**CHAIR:** Mr Cameron Grebe, Head of Division, Environment, NOPSEMA

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<tr>
<th>Topic</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>A regulator’s vision and perspectives on key environmental management challenges</td>
<td>C Sim (NOPSEMA)</td>
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<td>Good, bad or ugly — all a matter of perspective?</td>
<td>J Lovell (Seafood Industry Australia)</td>
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<td>Critical success factors for achieving environmental approvals</td>
<td>P Raitt (Green Light Environmental)</td>
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<tr>
<td>Reducing the complexity of environmental approvals — learnings from an industry-wide collaborative effort</td>
<td>M Smith (NERA)</td>
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#### 3:15pm–3:45pm

**AFTERNOON TEA IN THE EXHIBITION HALL**

#### 3:45pm–5:00pm

#### TECHNICAL AND BUSINESS PROGRAM SESSIONS 20–24

**CONCURRENT 20: A new Cooper Basin is born**

**CHAIR:** Dr Tony Knight, Chief Government Geologist, Department of Natural Resources, Mines and Energy

<table>
<thead>
<tr>
<th>Topic</th>
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<tr>
<td>Geological and bioregional assessments — enabling future tight, shale and deep-coal gas development — Cooper Basin case study</td>
<td>D Robinson, ME Gunning, T Evans, L Hall, B Sundaram (Geoscience Australia), A Swirepik, A Stacey, R Dann and K Holland (Department of the Environment and Energy)</td>
</tr>
<tr>
<td>Old rocks, new tricks — a re-invigorated Cooper Basin offers growth opportunity</td>
<td>B Ovenden (Santos)</td>
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<tr>
<td>Results of hydraulic fracturing design improvements and changes in execution strategies for unconventional tight gas targets in the Cooper Basin, Australia</td>
<td>R Johnson Jr, R Zhong (University of Queensland) and L Nguyen (Real Energy Corporation)</td>
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**Panel discussion**

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

**CHAIR:** Mr Andrew Wilson, Principal, DuPont

<table>
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<tr>
<th>Topic</th>
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<tr>
<td>Reducing maintenance burden on established facilities through a targeted risk review of safety critical equipment</td>
<td>B Innes (Upstream Production Solutions)</td>
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<td>The hardy perennials of maintenance</td>
<td>N Clegg (Upstream Production Solutions)</td>
</tr>
<tr>
<td>Reduced Manning with improved safety and reliability — how classification societies and digital solutions can support operators</td>
<td>M Tipping (Lloyds Register) Presenter only: J Baker (Lloyds Register)</td>
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<tr>
<td>Offshore structures — why all offshore facilities should have a demanning requirement</td>
<td>M Keys (Atkins SNC-Lavalin)</td>
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Wednesday 29 May 2019

TECHNICAL AND BUSINESS PROGRAM SESSIONS 20–24 cont.

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

CHAIR: Mr Carl Titchmarsh, Head of Business Development, West Coast and NT, Clough

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

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

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

Integrated activity planning — a proven approach to optimising operations outcomes
B Farrell and V Mulgund (EY)

CONCURRENT 23: One industry, one workforce, one goal

CHAIR: Ms Libby Ferrari, Manager Indigenous Affairs Australia, BHP

Diversity and inclusion — moving the needle in Indigenous employment and engagement
M Williamson* (Broadpectrum) and M Wilson* (INPEX Operations Australia Pty Ltd)

Enhancing Indigenous partnerships in an increasingly digitised oil and gas sector
M Lynn* (Deloitte Consulting) and D Wirrpanda* (Wirrpanda Foundation)

How diversity can alleviate sharks and bandwagons in the gas sector
J Spanjaard* and S McAlister-Smiley* (Deloitte Touche Tohmatsu)

Panel discussion

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

CHAIR: Ms Debbie Morrow, Vice President of HSEQ, Woodside

Innovation and technology in marine science: AIMS’ North West Shoals to Shore research program — an update
M Parsons, K Miller, M Thums, 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 central processing facility (CPF); the world’s largest semi-submersible platform
N Gust*, A Coutts, P Lewis, R Tigges (Biofouling Solutions), J Prout* and S Carter (INPEX Operations Australia)

Demonstrating an acceptable level of impact: An assessment of noise impacts to fishes from a seismic survey in an Australian marine park
J Edgell, J Colman (ERM Australia), S Jarvis (SZ 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)
Wednesday 29 May 2019

5:00pm–6:00pm

HAPPY HOUR IN THE EXHIBITION HALL

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

Plaza Ballroom, Brisbane Convention & Exhibition Centre

Join us as a ‘Confetti of Light’ rains down on the annual APPEA Conference Dinner — the hottest ticket in town!

Whether you book a single ticket or a table, this event will impress!

- Cocktail/lounge suit.

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BROADSPECTRUM
Thursday 30 May 2019

7:30am–3:00pm  Conference Registration
Main Foyer, Ground Level

8:00am–6:00pm  APPEA 2019 Exhibition open
Exhibition Hall, Ground Level

8:00am–6:00pm  APPEA 2019 Technical and Business Poster Presentations open
Exhibition Hall, Ground Level

8:00am–6:00pm  KPMG Meeting Zone open
Exhibition Hall, Ground Level
With two private meeting zones, seating up to eight people, this is not a space to be missed.

8:30am–10:30am  FEDERAL OPPOSITION ADDRESS
Senior Representative, Federal Opposition (subject to availability)

PLENARY: Staying the course — east coast gas market challenges and opportunities

FACILITATOR: Ms Ticky Fullerton

Esso Australia’s long-term contribution to the east coast gas market
Mr Nathan Fay, Chairman, ExxonMobil Australia

State of the east coast gas industry
Mr Rod Sims, Chair, Australian Competition and Consumer Commission

Unlocking the next wave of Australia’s natural gas resources
Mr Kevin Gallagher, Managing Director & Chief Executive Officer, Santos

East coast gas — finding balance
Mr Andrew Hodge, Associate Director—Energy, Macquarie Securities

10:30am–11:15am  MORNING TEA IN THE EXHIBITION HALL  BROUGHT TO YOU BY THE APPEA JOURNAL
Thursday 30 May 2019

TECHNICAL AND BUSINESS PROGRAM SESSIONS 25–28

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

CHAIR: Dr Steve Mackie, Petroleum Advisor, Geosim Consulting

Offshore data acquisition in shallow water — challenges and opportunities
S Molyneux (Molyneux Advisors), S Jarvis (S2 Services) and J Dirstein (Total Depth)

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

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

CHAIR: Mr Jason King, General Manager – Contracting, Procurement and Logistics, Arrow Energy

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 27: Community engagement — working with our host communities

CHAIR: Mrs Justine Neep, Special Projects Manager, Senex Energy

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
W Squire and J Braithwaite (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
Thursday 30 May 2019

11:15am–1:00pm

**TECHNICAL AND BUSINESS PROGRAM SESSIONS 25–28 Cont.**

**CONCURRENT 28: The next chapter of Australian energy**

**CHAIR:** Ms Bernadette Cullinane, Partner and National Oil and Gas Leader, Deloitte

- **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**  
**BROUGHT TO YOU BY THE APPEA JOURNAL**

1:00pm–2:30pm

**Authors’ Lunch**  |  By invitation only  
**SPONSORED BY**  |  ExxonMobil

1:45pm–2:30pm

**Hot Topics Discussion in the EY Collaboration Centre**  (See p31)  
**SPONSORED BY**  |  EY

2:30pm–4:15pm

**PLENARY PANEL: Perceptions of the modern industry**  
**SPONSORED BY**  |  Brightor

**CHAIR:** Mr Brett Woods  
Executive Vice President Development, Santos

- **Opening comments from facilitator Ms Ticky Fullerton**
- **Onshore gas industry coexistence in Queensland**  
  Dr Damian Barrett, Research Director, Onshore Gas Program, CSIRO Energy and Director, CSIRO Gas Industry Social and Environmental Research Alliance, CSIRO
- **The face of energy**  
  Mr Peter Bennett, Chief Executive Officer and Managing Director, Clough
- **Meeting the advocacy challenge**  
  Mr Ian Davies, Managing Director and Chief Executive Officer, Senex Energy
- **Securing competitive gas supply — a manufacturing perspective**  
  Ms Melissa Perrow, General Manager Energy, Brickworks
- **It’s time to get emotional with your customers**  
  Ms Christine Corbett, Special Advisor, PwC

**CEO’s Closing Conference Address**  Mr Andrew McConville, Chief Executive, APPEA

**PROGRAM IS SUBJECT TO CHANGE**

*DENOTES PRESENTER IF NOT LEAD AUTHOR*
Thursday 30 May 2019

**FAREWELL COCKTAILS**

The Charming Squire will host delegates for a final farewell after a thought provoking week of technical innovations, discussion and debate, 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.

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 brought to you by a committee of dedicated volunteers from the oil and gas industry.

This one-day tournament at Indooroopilly Golf Club will be a 4-ball Ambrose, with both team and individual registrations available.

Further information: Kylie Carre  t 0424 582 049  e kyliecarre@live.com.au

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 presentations\(^1\), PESA industry reviews\(^1\) 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,  e gtoirkens@appea.com.au,  t 02 6267 0908

\(^1\) Where consent has been given.
Technical and Business Poster Presentations

The APPEA Conference technical and business program incorporates an extensive poster series comprising of 49 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

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<td>How can we reduce the environmental impact of marine seismic surveys?</td>
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<td>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)</td>
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<td>Safe and efficient delivery of logistics solutions to coal seam gas well sites, utilising our ‘Well in a Box’ methodology</td>
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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 delivers an education program designed to connect high school students with the best of our industry, showcasing the digital revolution that is currently underway.

Proudly supported by Chevron, Santos and Woodside, students 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.

APPEA MENTOR PROGRAM: Cultivating our new oil and gas professionals

The APPEA 2019 Conference Mentor Program sponsored by BHP 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 onsite at APPEA 2019 — sharing their experiences and advice on entering the industry.

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 accommodates children aged 0–5 years and operate 8:00am–6:00pm, Tuesday 28 – Thursday 30 May during the conference. Attend conference sessions knowing your child is having fun, learning and in safe hands.
KPMG MEETING ZONE

Need a place to meet for an hour? Take advantage of the KPMG Meeting Zone in the Exhibition Hall. You can book one-hour meetings for up to eight people.

The Meeting Zone is open:
- Tuesday 28 May 8:00am–6:00pm
- Wednesday 29 May 8:00am–6:00pm
- Thursday 30 May 8:00am–3:00pm

Please note as the Meeting Zone is located in the exhibition hall, all meeting participants must be registered attendees or registered guests of APPEA 2019. All meeting room bookings are for 55 minutes. This allows for cleaning and tidying before the next meeting commences on the hour.

EY COLLABORATION CENTRE

Now in its second year, this featured area hosts scheduled ‘hot topics’ where the industry can explore current industry challenges at the pre-arranged times noted below. This will connect delegates interested in the same topics and provide an opportunity to meet and discuss specific industry issues. Join fellow delegates, APPEA and EY specialists, along with conference speakers (subject to availability) for lively discussion and networking.

HOT TOPICS DISCUSSIONS
Full details on the APPEA Conference website

REIMAGINING THE ENERGY FUTURE
1:00pm, Tuesday 28 May
Participants will discuss the impact on oil and gas companies and what you can do now to prepare for the new energy future.

HOW IS YOUR BUSINESS CLIMATE CHANGING IN A WORLD OF CHANGING CLIMATE?
12:45pm, Wednesday 29 May
This Hot Topic session will explore the current state of climate change reporting for the sector and where it needs to move to, to meet the needs of investors.

IS CULTURE A SPRINGBOARD FOR SUCCESS OR AN ANCHOR WEIGHING YOU DOWN?
1:45pm, Thursday 30 May
Join us for a practical and case-study based perspective on how to drive cultural change in your organisation through coordinated, fundamental change.