

the australian petroleum production & exploration association presents

# 2017 APPEA

conference and exhibition



## HANDBOOK

**ENERGY IN TRANSITION**

PERTH, WESTERN AUSTRALIA | 14-17 MAY 2017

PRINCIPAL SPONSORS

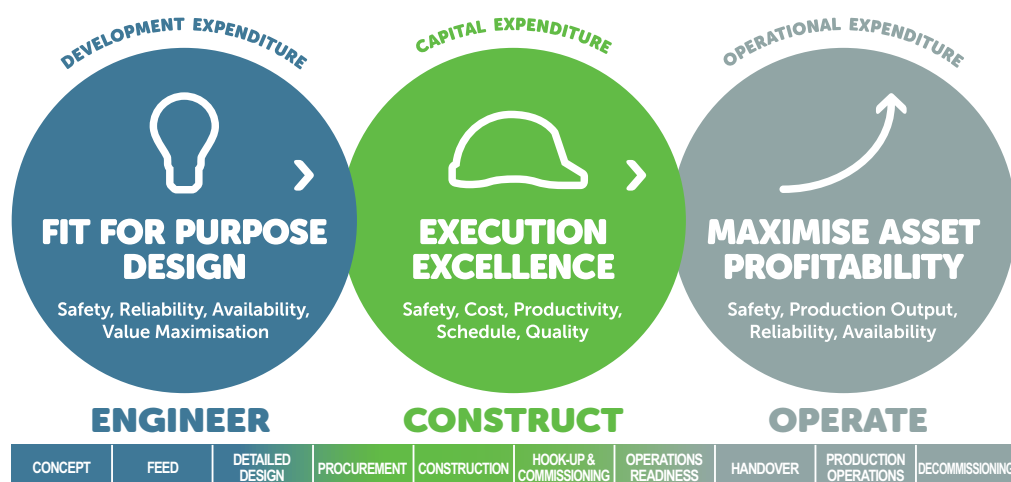




# YOUR LOCAL PARTNER

**CLOUGH PROVIDES ENGINEERING, CONSTRUCTION, COMMISSIONING AND ASSET SUPPORT SERVICES TO THE HYDROCARBONS, MARINE, MINERALS, AND INFRASTRUCTURE MARKETS IN AUSTRALIA; ASIA; EUROPE; MIDDLE EAST AND AFRICA; AND NORTH AMERICA.**

We provide services that span through the full asset lifecycle. We engineer to construct, construct to operate, commission and maintain facilities while maintaining a continuous focus on safety, productivity and quality.



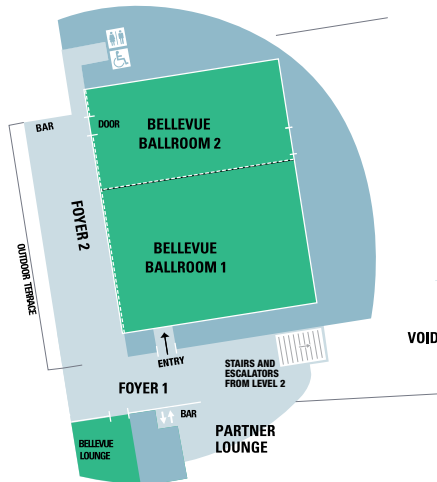
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pursuit of excellence

## LEVEL 3

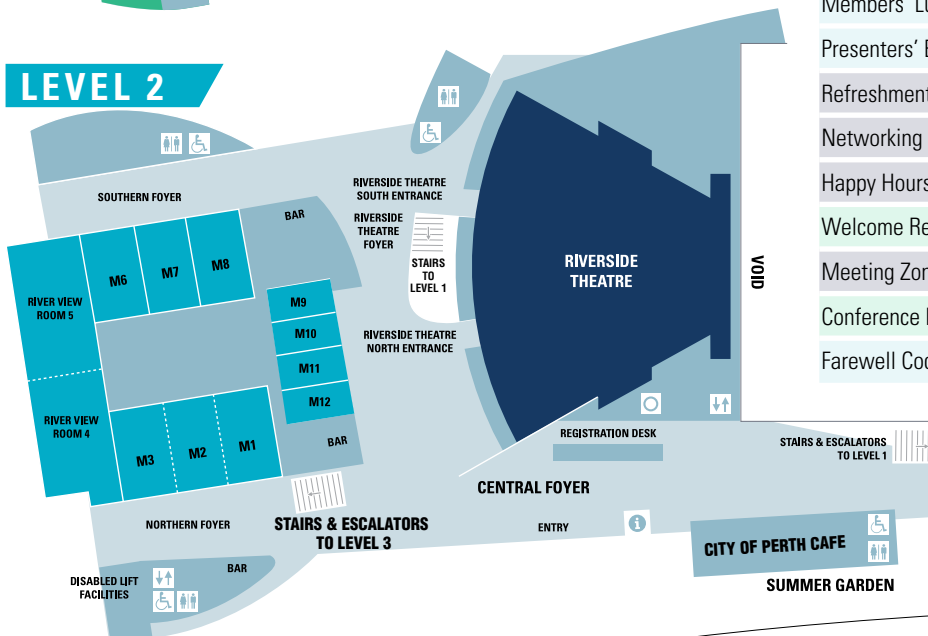
## CONFERENCE ACTIVITY LOCATION



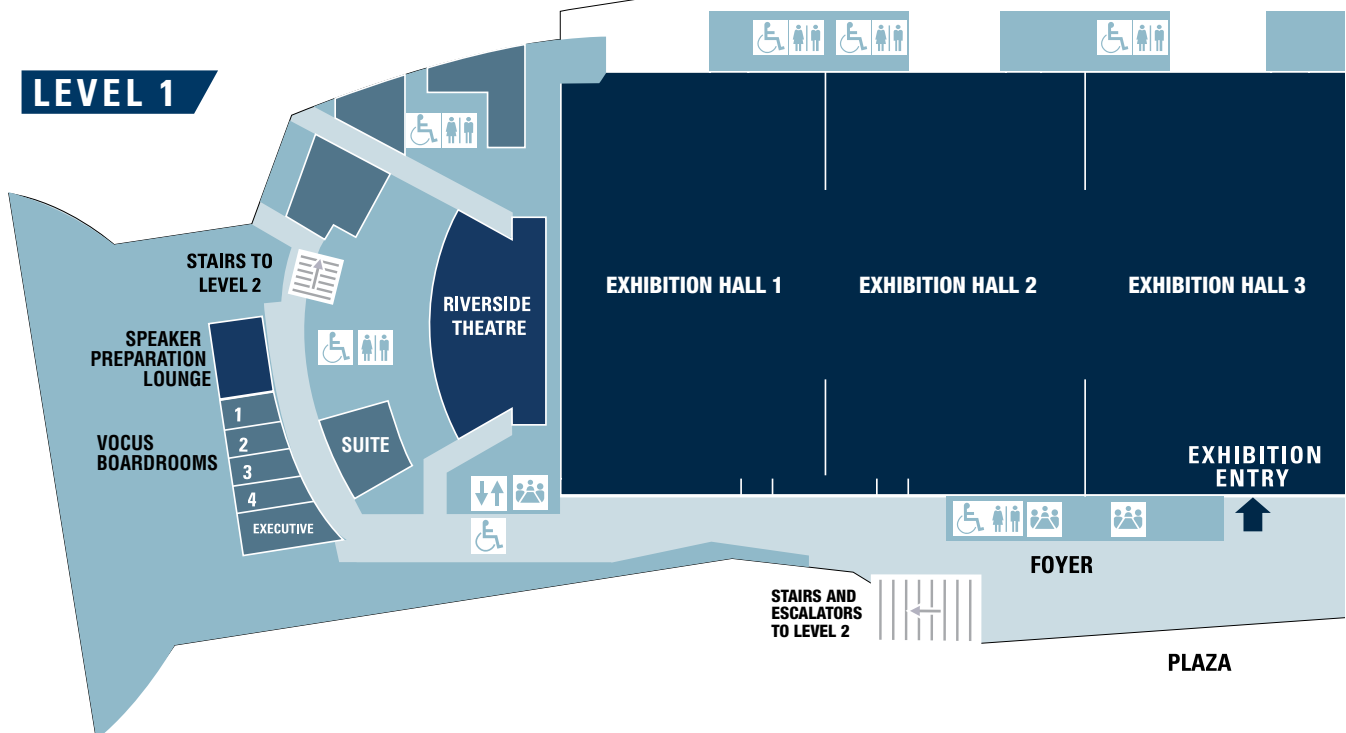
All conference activities will take place in the Perth Convention and Exhibition Centre unless otherwise stated.

Activity	Location	Level
Registration	Central Foyer	2
Exhibition Entry	Exhibition Hall 3	1
Poster Presentations	Exhibition Hall 3	1
Plenary Sessions	Riverside Theatre	2
Concurrent Sessions	See program	2
Speaker Preparation	Speaker Preparation Lounge	1
Partner Lounge	BelleVue Foyer	3
Media Room	Meeting Room 8	2
Authors' Luncheon	River View Room 5	2
Members' Luncheon	River View Room 5	2
Presenters' Breakfast	River View Room 5	2
Refreshment Breaks	Exhibition Hall	1
Networking Lunches	Exhibition Hall	1
Happy Hours	Exhibition Hall	1
Welcome Reception	BelleVue Ballroom	3
Meeting Zone	Exhibition Hall 3	1
Conference Dinner	BelleVue Ballroom	3
Farewell Cocktails	The Summer Garden	2

## LEVEL 2



## LEVEL 1





## Program

Full details of the program can be found on pages 8–24. Conference plenary sessions will be held in the Riverside Theatre of the Perth Convention and Exhibition Centre and will take place in the morning of each full day of the conference and again in the afternoon on the final day of the event.



## Be part of the conversation on social media

Take a moment to join APPEA's social media channels and connect with your industry peers—join the conversation for the industry's key event of the year!

The event's official hashtag is **#APPEA2017**. Be sure to follow us at **@APPEALtd** and **@appeaconference**

**f** APPEA Conference and Exhibition

**in** APPEA Conference & Exhibition

**Twitter** #APPEA2017

Proudly delivered by **Deloitte**, Social Media Partner for APPEA 2017.

## Exhibition

Sponsored by **Shell**

The 2017 APPEA Exhibition will be held in the exhibition halls of the Perth Convention and Exhibition Centre. Following each session, delegates are encouraged to enter the exhibition area to meet with our exhibitors, network in our lounges sponsored by **Broadspectrum, EY** and **NERA**, visit the 2017 Poster Presentations, sponsored by **BP Developments Australia**, or secure space to meet with industry colleagues in the Meeting Zone sponsored by **KPMG**.

Details of exhibitors are listed in the Exhibition section of this handbook. Full details are available at [www.appeaconference.com.au](http://www.appeaconference.com.au) or on the conference mobile app.

	Exhibition open	Happy hour
Monday	8:00am–6:00pm	5:00pm–6:00pm
Tuesday	8:00am–6:00pm	5:00pm–6:00pm
Wednesday	8:00am–3:00pm	

## Poster Presentations

Sponsored by **BP Developments Australia**

The poster presentations are located in the exhibition halls. A list of posters can be found on pages 22–24 with associated abstracts available on the conference mobile app. Authors will be available to discuss their posters on Monday 15 May between 3.15pm–6.00pm at the 'Meet the Authors' session.

## Registration

The conference registration desk is located in the central foyer on level 2 of the Perth Convention and Exhibition Centre.

The registration desk is open at these times:	Sunday	7:30am–7:00pm
	Monday	7:30am–5:00pm
	Tuesday	7:30am–5:00pm
	Wednesday	7:30am–3:00pm

## Assistance/enquiries

Please see the registration desk if you require any assistance or have any enquiries.

## Security

For security reasons, delegates are required to wear their name badges at all times. This policy will be strictly enforced at the conference. Delegates will be refused entry without conference identification. Security will be present and monitoring access to conference activities.

Please note: under no circumstances are the name badges permitted to be transferred to other delegates or individuals without the authorisation of the APPEA Conference Director or Administrator. Personal business cards are also not permitted to replace the official name card provided by APPEA. If you have misplaced your name badge, please see the main registration desk for a replacement — charges may apply.



## Partner Program

All officially registered partners are invited to enjoy select conference events, and meet other partners in the dedicated Partner Lounge located in the BelleVue Foyer on level 3 of the conference venue. The lounge is open 8.00am–4.00pm Monday and Tuesday, and 8.00am–3.00pm on Wednesday. A special morning tea will be held on Monday at 10.15am.

## Cloakroom and luggage

A cloakroom will be available throughout the event. This is located in the central foyer of the Perth Convention and Exhibition Centre, specifically to the right of the main registration desk on Level 2. This cloakroom is operated by the Perth Convention and Exhibition Centre.

## Speaker Preparation Lounge

The Speaker Preparation Lounge is located on Level 1 of the Perth Convention and Exhibition Centre. Please make your way down the stairs at the front of the Riverside Theatre and the room will be located to your right. Access is available from 12 noon to 6pm on Sunday 14 May and from 8am to 6pm from Monday 15 May to Wednesday 17 May.

All speakers are required to load their presentations in the Speaker Preparation Lounge. Loading times have been pre-organised with APPEA. An APPEA representative will be available in the Speaker Preparation Lounge.

## APPEA Lounge

The APPEA Lounge is located in the exhibition halls at one end of the APPEA Boulevard. We invite you to join us on our lounge to learn more about our association, relax with colleagues and enjoy the atmosphere of the 2017 APPEA Exhibition.

## WiFi



A complimentary wifi service is available for all APPEA 2017 delegates. This service is suitable for emails and basic internet work. To connect: Search for available networks and select APPEA DELEGATE. No passwords are required.

## Dress code



The dress code for all conference sessions is business attire. The conference dinner preferred dress code is cocktail or lounge suit. The dress code for the welcome reception and for the farewell cocktails is smart casual.



## Golf

All golfers participating in this year's Australian Oilfield Golf Tournament must register at the Golf desk located on the central foyer level of the Perth Convention and Exhibition Centre. This desk will be open from Monday 15 May.

## Publications

### Access to abstracts

Abstracts from the conference program will be available to download and view via the APPEA 2017 Conference Mobile App. See page 7 for information regarding the mobile app.

### 2017 APPEA Journal and Conference Proceedings

The 2017 *APPEA Journal*, which will contain the proceedings of the conference, will be available to delegates, online, three weeks post event (delegates will be emailed a password to access the information). Further information will be posted on [www.appeaconference.com.au](http://www.appeaconference.com.au) at this time.

### Australasian Petroleum Permit Maps and eBooks

Delegates can collect their pre-ordered Australasian Petroleum Map and eBook from the Pitney Bowes stand, located at booth 195 in the exhibition. This booth will be open from 8.00am Monday 15 May until 2.30pm Wednesday 17 May.

## APPEA Offices

The annual APPEA Conference and Exhibition is brought to you by the Australian Petroleum Production & Exploration Association (APPEA), the peak industry body for the Australian oil and gas industry.

### Canberra

Level 10  
60 Marcus Clarke Street  
Canberra ACT 2600  
+61 2 6247 0960  
[appea@appea.com.au](mailto:appea@appea.com.au)

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There are conditions for entry to social functions, and tickets (if required) are enclosed in the back of your name badge.

Please ensure that you check your name badge and the contents upon collection.

Name badges must be worn to all functions. Business cards are not permitted as replacements for name badges.



## Tickets

If you have purchased additional tickets for any social function you will be required to meet your guests outside the function, and enter together. To purchase additional tickets please see the registration desk in the central foyer (strictly subject to availability).

All delegates attending the dinner are required to have a physical ticket. If you have purchased a ticket, it will have been placed in the back of your name badge.

## Inclusive functions

APPEA is delighted to announce these activities in the exhibition hall:

**Refreshment breaks** SPONSORED BY **AGGREKO**

**Networking lunch: Monday** SPONSORED BY **CIVMEC**

**Networking lunch: Tuesday** SPONSORED BY **PIT CREW MANAGEMENT CONSULTING SERVICES PTY LTD**

**Networking lunch: Wednesday** SPONSORED BY **AGGREKO**

**Happy hour: Monday** SPONSORED BY **YOKOGAWA**

**Happy hour: Tuesday** SPONSORED BY **QUADRANT ENERGY**

## Welcome Reception and Farewell Cocktails

Full Conference Delegates (including student registrations) will need to present their name badge for scanning to enter these events. Physical tickets are not required.

Exhibition staff, partners, guests and day delegates will need to provide a physical ticket to enter these events. These tickets are enclosed in the back of the name badge of the person who has purchased the ticket.

## Ticketed and additional events

**Presenters' Breakfast** (by invitation only)

SPONSORED BY **BP DEVELOPMENTS AUSTRALIA**

The Presenters' Breakfast will be held on Monday 7.30am–8.20am in River View Room 5 of the Perth Convention and Exhibition Centre.

**APPEA Members' Luncheon** (by invitation only)

SPONSORED BY **CLOUGH AND WOODSIDE**

The APPEA Members' Luncheon will be held on Monday 12.30pm–2.00pm in River View Room 5 of the Perth Convention and Exhibition Centre.

**APPEA Conference Dinner: 'A night to remember'**

SPONSORED BY **BROADSPECTRUM**

The APPEA Conference Dinner will take place on Tuesday 7.30pm for 8.00pm in the BelleVue Ballroom of the Perth Convention and Exhibition Centre.

**APPEA Authors' Lunch** (by invitation only)

SPONSORED BY **EXXONMOBIL**

The APPEA Authors' Lunch will be held on Wednesday 1.00pm–2.30pm in River View Room 5 of the Perth Convention and Exhibition Centre.

## APPEA 2017 Conference Mobile App

**Download the APPEA 2017 Mobile App to make the most of your conference experience**

Features include:

- Scan name badges to connect with exhibitors and other delegates
- Plan your schedule with the most up to date program available
- See all of the speakers
- Check out the exhibitors and locate their booths
- View abstracts from the conference program
- Join the conversation on social media
- Receive important updates and special offers
- Free to download on all smart phones and tablets

**Scan the QR code to download the app.**





All events take place at the Perth Convention & Exhibition Centre unless stated otherwise.

## Sunday 14 May

### CONFERENCE REGISTRATION

7:30am–7:00pm

Central Foyer, Level 2, Perth Convention and Exhibition Centre

### PESA DEAL DAY

### INDUSTRY EVENT

Registration:

8:15am

Seminar:

9:00am–1:30pm

#### **PESA Deal Day** River View Room 5, Level 2

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.

### CYCLE TOUR

11:30am–3:00pm

#### **On Your Bike! For APPEA 2017** Meet at main entry, Level 1 (opposite Adina Hotel)

SPONSORED BY **INTERTEK**

This 70km cycle tour is an opportunity for experienced amateur riders from the oil and gas industry to enjoy a preconference cycle tour through Perth and its surrounding picturesque regions. Qualified cycle guides will escort you as part of the group and provide refreshments during scheduled breaks.



### WELCOME RECEPTION

6:00pm –9:00pm

#### **Welcome Reception: 'See how we roll...'** BelleVue Ballroom, Level 3

SPONSORED BY **TELLURIAN**

We bet you'll love our high energy Welcome Reception to kick off the APPEA 2017 Conference and Exhibition. Roll with industry colleagues while helping to support local charities. Not only is this a great opportunity to create new business contacts but to also play hard and win big for a great cause. The odds are high for an enjoyable and memorable evening.



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



Smart casual attire.







## Monday 15 May

6:00am–7:00am

**Cycle Ride**—Meet at main entry, Level 1 (opposite Adina Hotel)SPONSORED BY **INTERTEK**

7:30am–8:20am

**Presenters' Breakfast**—River View Room 5, Level 2 | By invitation onlySPONSORED BY **BP DEVELOPMENTS AUSTRALIA**

7:30am–5:00pm

**Conference registration**—Central Foyer, Level 2

8:00am–6:00pm

**APPEA 2017 Exhibition open**—Exhibition Hall, Level 1SPONSORED BY **SHELL**

8:00am–6:00pm

**APPEA 2017 Poster Presentations open** Exhibition Hall, Level 1SPONSORED BY **BP DEVELOPMENTS AUSTRALIA**

8:00am–6:00pm

**KPMG Meeting Zone open**—Exhibition Hall, Level 1SPONSORED BY **KPMG**

Need a private meeting with your client? With two private meeting rooms, each seating up to six people, the KPMG Meeting Zone can be booked on site with the reception staff at the Meeting Zone.

8:30am

## PLENARY: ENERGY IN TRANSITION

SPONSORED BY **CLOUGH AND WOODSIDE**

RIVERSIDE THEATRE, LEVEL 2

CHAIR: Dr Malcolm Roberts, Chief Executive, APPEA

*Framed around the conference theme of 'Energy in Transition', the opening session of APPEA 2017 will feature high-level addresses from the most senior of representatives from the host state of Western Australia, the Australian Government, and APPEA. Combined with a lead industry address featuring Mr Peter Coleman, Managing Director and CEO, Woodside, this is a 'not to be missed' opening session that will set the scene for three days of in depth discussion and debate as the industry considers its place in a period of rapid, and turbulent, change.*

### Conference Opening Ceremony

#### Western Australia State Government Address

The Hon Mark McGowan MLA, Premier of Western Australia

#### Australian Government Address

Senator the Hon Matt Canavan, Minister for Resources and Northern Australia

#### Lead Industry Address

Mr Peter Coleman, Managing Director and Chief Executive Officer, Woodside

#### APPEA Chairman's Address—Energy in transition

Mr Bruce Lake, Managing Director, Vermilion Oil &amp; Gas Australia Pty Ltd

10:15am – 11:00am

MORNING TEA IN THE EXHIBITION HALL

SPONSORED BY **AGGREKO**

PLENARY

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

## Monday 15 May



11:00am

## PLENARY: ENERGY—THE SHAPE OF THINGS TO COME

SPONSORED BY TOTAL

RIVERSIDE THEATRE, LEVEL 2

CHAIR: The Hon Martin Ferguson AM, Chairman, APPEA Advisory Board

*The future of energy is being shaped by a range of powerful factors—the global shift to cleaner forms of production, the opening up of new sources of supply, geopolitical shifts, technological advances and the relentless pressure of global competition. Speakers will provide perspectives, drawing on their extensive industry experience, to provide a headline session concluding with a truly international panel discussion.*

**A better life with a healthy planet. Pathways to net-zero emissions**

Mr Jeremy Bentham, Vice President Global Business Environment and Head of Shell Scenarios, Royal Dutch Shell

**The digital future of oil and gas**

Mr Thomas Sparks, Vice President, Oil &amp; Gas Strategy, Siemens AG

**Russian gas export strategy in Asia and competition with the Australian LNG projects**

Dr Konstantin Simonov, Director General, National Energy Security Fund (Russia) and Australia Russia Dialogue

**LNG exports from the US—what role will the new Administration play?**

Mr Martin Houston, Vice Chairman, Tellurian

**Panel discussion**

12:30pm–2:00pm

**Networking Lunch in the Exhibition Hall**

All delegates are invited to enjoy lunch in the exhibition hall as you explore the exhibits and poster presentations.

SPONSORED BY CIVMEC

12:30pm–2:00pm

**APPEA Members' Lunch** River View Room 5, Level 2 | By invitation only

SPONSORED BY CLOUGH AND WOODSIDE

2:00pm

## CONCURRENT SESSIONS 1–4

**CONCURRENT SESSION 1: The smart oil and gas industry**

SPONSORED BY SIEMENS

CHAIR: Mr Thomas Sparks, Vice President Strategy Oil &amp; Gas, Siemens

RIVERSIDE THEATRE, LEVEL 2

**Curiosity, creativity and collaboration—creating a digitally integrated supply chain**

C Jordan (Accenture Australia)

**Lloyd's Register—Cyber CBM (Condition based maintenance)**

J Morelos (Lloyds Register Global Technology Centre); Presenter: JG Baker (Lloyds Register International)

**Application of dynamic simulation to assess the effectiveness of well clean-up in a horizontal gas well**

HW Moh, E Dharma Putra and R Yusuf (Schlumberger)





## Monday 15 May

CONCURRENT SESSIONS 1–4 *continued*

2:00pm

**CONCURRENT SESSION 2: Operating in the Great Australian Bight**

CHAIR: Ms Jeanette Roberts, Jeanette Roberts Consulting

RIVER VIEW ROOM 4, LEVEL 2

**Findings from the Great Australian Bight Research Program—an integrated study of the environmental, economic and social values**

BC Baghurst (SARDI), R Lukatelich (BP Australia), D Smith (CSIRO), G Begg (SARDI Aquatic Sciences), R Lewis (Marine Innovation Southern Australia) and R Smith (BP Australia)

**The Great Australian Bight—from AVO prospectivity screening to potentially drillable targets in one of the world's remaining untapped basins**

D Rajeswaran and M Przywara (PGS Australia)

**Building the regional understanding of the deep-water geology and benthic ecology of the Great Australian Bight**

A Ross, A Williams, A Talukder, J Parr, C Trefry, R Kempton, C Stalvies, F Althaus (CSIRO), A Kulpecz (Chevron Australia), C Schaefer (Chevron Europe, Eurasia and Middle East—Exploration &amp; Production Ltd) and P Rarey (Chevron Australia)

**CONCURRENT SESSION 3: Collaboration—we're better together**

SPONSORED BY NERA

CHAIR: Mr Larry Lopez, Director – Accelerating Commercialisation; AusIndustry – Entrepreneurs Programme, Department of Industry, Innovation &amp; Science

MEETING ROOMS 1 &amp; 2, LEVEL 2

**Our energy future: the power of collaboration to transform Australia's energy resources sector**

M Taylor (NERA)

**Open access midstream infrastructure and its effects on the Australian gas market**

S Lewis, J Serfaty, M Brooks and B Smith (ATCO Australia)

**It's not easy to collaborate, but it's essential!**

B Cullinane (Deloitte) and P Harrison\* (EICG)

**Improving success rates for Indigenous business engagement**

M Saylor and D Archbold (Indigenous Supply Chain Connections)

**CONCURRENT SESSION 4: Managing our environment**

CHAIR: Dr Robin Wright, HSE Specialist

MEETING ROOM 3, LEVEL 2

**New system for detecting, mapping, monitoring, quantifying and reporting fugitive gas emissions**

T Tsai, K Du (Picarro Inc) and B Stavropoulos\* (SGS Australia)

**Enhancing environmental performance during Wheatstone dredging through science and innovation**

MJ Marnane, T Elsdon (Chevron), T Rouphael (Western Marine Science), C Pedersen (DHI Water and Environment), K Peat (Jacobs) and C Morgan (TCO)

**Our focus needs more focus: aligning project risks and expenditure for better environmental outcomes**

G Bartrim (Independent Contractor) and L Hahn (Lorax Environmental Services)

3:15pm–3:45pm

## AFTERNOON TEA IN THE EXHIBITION HALL

SPONSORED BY AGGREKO

3:15pm–6:00pm


**Meet the Authors** Poster Presentation Area, Exhibition Hall

SPONSORED BY BP DEVELOPMENTS AUSTRALIA

This is your opportunity to meet the authors of our poster presentations, ask questions and discuss their work. See pages 22–24 for full poster listing.

**Monday 15 May****CONCURRENT SESSIONS 5–8**

3:45pm

**CONCURRENT SESSION 5: Managing ageing facilities**CHAIR: Mr Neil Hamerton, Associate Director, Management Consulting Advisory, KPMG  MEETING ROOMS 1 & 2, LEVEL 2**Stakeholder response to abandonment challenges in Australia** | P Askew and A Lea-Cox (Accenture Australia)**Resurrection at AGL Silver Springs and Wallumbilla: case study of bringing field and surface facilities back to life** | JR Croker\* (AGL Energy Ltd), M Kidd\* (ICD Asia Pacific Pty Ltd), E Nicola and J Dean (AGL Energy Ltd)**Managing integrity of operating FPSOs** | A Barros (Woodside)**CONCURRENT SESSION 6: The shale game**

CHAIR: Professor Peter Moore, Executive Director, Strategic Engagement, Curtin Business School, Curtin University

 RIVERSIDE THEATRE, LEVEL 2**Exploring the Beetaloo: will Australia's first viable shale play be sourced by billion year old gas?**  
D Close, A Côté, E Baruch, C Altmann, F Mohinudeen, B Richards, R Ilett, R Evans and S Stonier (Origin)**Porosity and pore size distribution of shales: a case study of the Carynginia formation, Perth Basin, Western Australia** | MN Testamanti, R Rezaee and J Zou (Curtin University)**Methodology for assessing original gas in place and estimated ultimate recovery from a tight marine formation using hydraulic fracture stimulation modelling**  
M Goldman (Geological Survey of Queensland) and RL Johnson Jr\* (Unconventional Reservoir Solutions)**CONCURRENT SESSION 7: Keeping them safe**SPONSORED BY **DUPONT**

CHAIR: Ms Archana Selva, Consultant, DuPont

 MEETING ROOM 3, LEVEL 2**Nimrod XV230—reflections on leadership, culture and priorities** | M Anderson (Woodside)**Golden safety rules: are they keeping us safe?**

S Fraser (Environmental Resources Management Australia Pty Ltd)

**A step change in safety performance through Critical Control Management**

R Selleck and AW Ryder (Clough Limited)

**CONCURRENT SESSION 8: Communities—the essential relationship**SPONSORED BY **PIPER ALDERMAN**

CHAIR: Mr Ashley Watson, Partner, Piper Aldermen

 RIVER VIEW ROOM 4, LEVEL 2**Can a social licence to operate be regained once lost? A case study of the NSW coal seam gas industry**  
D Snashall and S Genter (ERM)**Learnings and best practices for operator and supplier social engagement in regional areas**  
S Goldsmith (Broadspectrum)**A community's guide to best practice local content solutions** | SP Charles (TSBE)**Galvanising the opposition: social media campaigns and the new risks for the oil and gas industry**  
RE Glindemann (Clifford Chance)

5:00pm–6:00pm

**Happy Hour in the Exhibition Hall**SPONSORED BY **YOKOGAWA**

An ideal time to network and relax at the end of the conference day, and an opportunity to 'Meet the Authors' of posters in the poster presentation area.



Complimentary to delegates, registered partners and exhibitors.



Includes drinks and light refreshments.



Business attire.

6:00pm onwards

**Evening free**—Take the opportunity to host your clients and suppliers in the vibrant city of Perth.





## Tuesday 16 May

6:00am–7:00am

**Cycle Ride**—Meet at main entry, Level 1 (opposite Adina Hotel)

SPONSORED BY **INTERTEK**

7:30am–5:00pm

**Conference registration**—Central Foyer, Level 2

8:00am–6:00pm

**APPEA 2017 Exhibition open**—Exhibition Hall, Level 1

SPONSORED BY **SHELL**

8:00am–6:00pm

**APPEA 2017 Poster Presentations open**—Exhibition Hall, Level 1

SPONSORED BY **BP DEVELOPMENTS AUSTRALIA**

8:00am–6:00pm

**KPMG Meeting Zone open**—Exhibition Hall, Level 1

SPONSORED BY **KPMG**

Need a private meeting with your client? With two private meeting rooms, each seating up to six people, the KPMG Meeting Zone can be booked on site with the reception staff at the Meeting Zone.

9:00am

## PLENARY: DIVERSITY AND INCLUSION: IMPROVING PROFITABILITY, REPUTATION AND EFFECTIVENESS



SPONSORED BY **CHEVRON**

CHAIR: Mr Bruce Lake, Managing Director, Vermilion Oil & Gas Australia Pty Ltd

RIVERSIDE THEATRE, LEVEL 2

***An industry's success is a reflection of the quality and skills of its people and a genuine commitment to workforce diversity and inclusion can improve profitability, reputation and effectiveness. Embracing diversity and inclusion in the workplace can deliver its challenges and requires authentic engagement and transparency. Session speakers and our guest facilitator will explore the role diversity plays in growing a strong business and the opportunities and challenges such an approach may face when an industry is in a period of slower growth.***

### Opening comments by guest facilitator

Mr Michael Schoch, General Manager, Crux, Shell Australia Pty Ltd and Champion—Women in Resources National Awards (2016)

### A contractor's perspective on diversity

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

### Inspiring our employees to reach their full potential

Mr Graham Salmond, General Manager Australia, BHP Billiton Petroleum

### Is oil and gas yet to fully exploit its most valuable resources?

Mrs Lynn Kraus, Oceania Markets Leader, Sydney Office Managing Partner, EY

### Diversity is the calling card, but inclusion is the goal

Ms Yassmin Abdel-Magied, Mechanical Engineer & 2015 Queensland Young Australian of the Year

### Panel discussion facilitated by Michael Schoch

10:30am–11:15am

MORNING TEA IN THE EXHIBITION HALL

SPONSORED BY **AGGREKO**

PLENARY

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

**Tuesday 16 May**

11:15am

**CONCURRENT SESSIONS 9–12****CONCURRENT SESSION 9: 2017 Acreage Releases**SPONSORED BY **AUSTRALIAN GOVERNMENT DEPARTMENT OF INDUSTRY, INNOVATION AND SCIENCE**

CHAIR: Mr Bruce Wilson, Head of Division, Resources, DIIS

 RIVERSIDE THEATRE, LEVEL 2**The 2017 Offshore Petroleum Exploration Acreage Release**

B Wilson, L Schofield (Australian Government Department of Industry, Innovation and Science)

**The 2017 offshore Acreage Release areas: petroleum geological overview**

T Bernecker and T Smith (Geoscience Australia)

**Geology and hydrocarbon prospectivity of the northern Houtman Sub-basin**

I Borissova, C Southby, LS Hall, E Grosjean, G Bernardel, R Owens and C Mitchell (Geoscience Australia)

**Australian onshore petroleum acreage and releases 2017**

J Haworth (Western Australia Department of Mines and Petroleum)

**CONCURRENT SESSION 10: Engineering for nonconventional reservoirs**

CHAIR: Mr Nick Pink, Staff Reservoir Engineer, Santos

 MEETING ROOMS 1 & 2, LEVEL 2**Turn your workover costs into an investment: a case study in an east coast CSG project**

E Boto\*, N Heyes (Accenture Australia), D Merritt\*, N Saremi (3esi–Enersight)

**Gas permeability measurement of shales using the quasi steady-state technique**

MN Testamanti, R Rezaee and CS Wong (Department of Petroleum Engineering, Curtin University)

**Maximising ROI through risk based inspection in the CSG industry**

A Mills, K Reilly, T Lim and G Strike (Wood Group)

**CONCURRENT SESSION 11: Seismic technology**

CHAIR: Dr Steve Mackie, Federal President, PESA

 MEETING ROOM 3, LEVEL 2**Ocean Bottom Node (OBN) seismic survey at Gorgon Gas Field | R Cupich and B Cropp (Chevron)****Marine seismic acquisition; efficiency and environment, new technologies applied in Australia**

M Bayly, M Tham, P Watterson, B LI, K Moran (Schlumberger WesternGeco)

**Australian national ocean bottom seismograph fleet advances conventional exploration**

A Goncharov (Geoscience Australia), M Malinowski (Institute of Geophysics, Polish Academy of Sciences), D Sekulic (ION Geophysical), A Cooper (Geoscience Australia), P Chia (Shell Australia Pty), A Gavrillov (Curtin University of Technology), and G Paskos, (Geoscience Australia)

**CONCURRENT SESSION 12: Decommissioning: the curtain call**

CHAIR: Mr Andrew Taylor, Senior Policy Adviser–Western Region, APPEA

 RIVER VIEW ROOM 4, LEVEL 2**Decommissioning—the next Australian oil and gas boom? | B Cullinane (Deloitte) and S Gourvenec (Centre for Offshore Foundation Systems, University of Western Australia)****Decommissioning of Australia's oil and gas facilities in the 21st century**

S Barrymore (Herbert Smith Freehills)

**Using the ALARP principle to significantly reduce offshore decommissioning costs**

M Goodwin, L Muir, and F Piasentin (S2V Consulting)

**Out of sight out of mind—subsea pipeline decommissioning**

E Jas, A Selman (Atteris Pty Ltd), and V Linton (EPCRC)

12:30pm–2.00pm

**Networking Lunch in the Exhibition Hall**SPONSORED BY **PIT CREW MANAGEMENT CONSULTING SERVICES PTY LTD**

Absorb all that the APPEA 2017 Exhibition has to offer whilst enjoying your lunch with your industry colleagues.





Tuesday 16 May

CONCURRENT SESSIONS 13–16

2:00pm

**CONCURRENT SESSION 13: PESA—2016 in review**SPONSORED BY **PESA**

CHAIR: Mr Toby Colson, Federal President, PESA

RIVERSIDE THEATRE, LEVEL 2

**Australian Exploration Review 2016** | S Mackie (Geosim Consulting Pty Ltd)**Production and development across Australia 2016** | F Cullen (IHS)**PESA's 50 years—the rise and rise of technology** | JD Begg (Bombora Energy Pty Ltd)**CONCURRENT SESSION 14: Process safety**SPONSORED BY **DUPONT**

CHAIR: Mr Andrew Wilson, Principal Consultant, DuPont

MEETING ROOMS 1 &amp; 2, LEVEL 2

**Integrity inspection planning updated with cost of risk** | Y Sokolov (Quanty Pty Ltd)**Innovative inspection techniques for Ultra Deep Water Drill ships and other floating O&G production assets saving costs, enhancing safety, while assuring operational availability and asset integrity**  
P Davies and D Constantinis (EM&I Group)**Process safety management at Woodside—creating a sustainable global approach**  
R Doyle (Woodside)**CONCURRENT SESSION 15: Geoscience technology**

CHAIR: Mr Mark Thompson, VP Exploration Australia &amp; Asia Pacific, Woodside

RIVER VIEW ROOM 4, LEVEL 2

**10 years of CO<sub>2</sub> storage and operations** R Singh (Cooperative Research Centre for Greenhouse Gas Technologies), M Chable\* (Upstream Production Solutions) and A De Fina\* (CO<sub>2</sub>CRC)**Analysis and characterisation of petroleum source rocks in Queensland**

A Troup and J Gorton (Queensland Department of Natural Resources and Mines)

**Woodside's approach to cognitive computing, artificial intelligence and robotics**

RS Potapinski (Woodside); Presenter: S Kalms (Woodside)

**CONCURRENT SESSION 16: Environmental monitoring**CHAIR: Ms Mannie Shea, Executive Officer—Resource Access,  
Western Australia Fishing Industry Council

MEETING ROOM 3, LEVEL 2

**The challenges of obtaining environmental approvals in frontier offshore basins, using the Great Australian Bight as a case study** | G Pinzone (Aventus Consulting Pty Ltd)**Baseline characterisation and monitoring protocols for development of shale and tight gas resources, Northern Perth Basin**

A Hortle (CSIRO), PK Rachakonda (CSIRO Energy), S George (School of Earth and Environment, The University of Western Australia), M Myers and C White (CSIRO)

**5 years on: monitoring of Long Island Point's Western Port wastewater discharge**

M Bok (ExxonMobil Australia), S Chidgey and P Crockett (CEE Consultants)

**Monitoring Demersal Scalefish populations in the Browse Basin region: accounting for spatial variability and detecting change in key fish populations**

RC Babcock, E Lawrence, T van der Velde, R Pticher, M Tonks, C Bessey (CSIRO), E Harvey (Department of Environment and Agriculture, Curtin University) and S Newman (WA Department of Fisheries)

3:15pm–3:45pm

AFTERNOON TEA IN THE EXHIBITION HALL

SPONSORED BY **AGGREKO**

Tuesday 16 May

CONCURRENT SESSIONS 17–20

3:45pm

**CONCURRENT SESSION 17: Coal seam gas**CHAIR: Ms Deidre Brooks, Manager Energy Geoscience,  
WA Dept of Mines and Petroleum

RIVER VIEW ROOM 4, LEVEL 2

**Gauging the confidence in publicly reported oil and gas reserves: introducing the Reserves Confidence Metric (RCM)** | DW McMillan (Oil Gas CBM Services)**Using Precise CA-TIMS Ages of Volcanic Air-Fall Tuff Beds in Correlating the Walloon Coal Measures of the Surat Basin, Australia** | C Wainman and P McCabe (Australian School of Petroleum, Univ of Adelaide)**Ultra-deep Permian coal gas reservoirs of the Cooper Basin: insights from new studies**

E Dunlop\* (Australian School of Petroleum, University of Adelaide), D Warner\*, P Warner, L Coleshill (DSWPet Pty Ltd)

**CONCURRENT SESSION 18: Research innovation**

CHAIR: Mr Derrick O'Keeffe, Head of Division, Safety &amp; Integrity, NOPSEMA

MEETING ROOMS 1 &amp; 2, LEVEL 2

**A case study for cost effective design of relocatable deep dewpoint control gas plant**

B Jung (Fluor AV–Process Engineering), N Kritzing\* (Fluor Australia), S Van Wagenveld and J Mak, (Fluor AV–Process Engineering)

**A practical workflow for performance prediction of low permeability reservoirs**

A McMullen and Steven J Golko (Sproule International Ltd)

**Project overruns—why are we still getting it wrong?** | G Lee, M Wilkes and S Whitaker (RISC)**CONCURRENT SESSION 19: Buying and selling—gas markets**CHAIR: Mr Peter Metcalfe, Director, Upstream External Affairs,  
BP Developments Australia

RIVERSIDE THEATRE, LEVEL 2

**Postcards from Pennsylvania—lessons learned during successful fight over Marcellus Shale operations**

C Tucker (DNRM)

**Jemena's perspective on Australian gas market dynamics: a vision of a fiercely competitive market facilitated by an interconnected supply chain**

D Green and T Allen\* (Jemena)

**A reserves driven view of the Eastern Australian gas supply and demand balance through the 2020s**

W Pulsford (Poten &amp; Partners—Gas and LNG Consulting)

**Energy security, moratoriums and domestic gas: Australia, LNG and its gas policy catch-22**

C Flynn\* and E Tsokos\* (Gilbert + Tobin)

**CONCURRENT SESSION 20: Managing our CO<sub>2</sub>**

CHAIR: Mr Damian Dwyer, Director—Economics, APPEA

MEETING ROOM 3, LEVEL 2

**Carbon capture and storage in the oil and gas industry: 40 years on**

C Consoli, A Zapantis\*, P Grubnic and L Irlam (Global Carbon Capture and Storage Institute)

**Underground storage of carbon dioxide in the Harvey Area—southwest WA**

D Lim, G Strachan (ODIN Reservoir Consultants), D Van Gent (Western Australia Department of Mines and Petroleum) and S Sharma (Carbon Projects Pty Ltd)

**Will Australian LNG demand soar under COP21?**

F Tibi, NB Reid, W Skinner, R Grosvenor and A Smith (The Boston Consulting Group)

**The future is not what it used to be: oil and gas strategies for a carbon-conscious world**

C Graham (Wood Mackenzie)

## Tuesday 16 May

5:00pm–6:00pm



### Happy Hour in the exhibition hall

SPONSORED BY **QUADRANT ENERGY**

Meet with colleagues to share ideas over a refreshing drink before you prepare for the Conference Dinner.



Complimentary to delegates, registered partners and exhibitors.



Includes drinks and light refreshments.



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7:30pm for 8:00pm

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The Girls Academy program works within the school system to drive community-led solutions aimed at reducing the common barriers that prevent Indigenous girls from completing their education and reaching their full potential. 29 Girls Academies have so far been established in 35 schools throughout WA, NT and NSW, with more than 2000 Indigenous girls currently enrolled. Program activities are designed with emphasis on the 'BIG 4' objectives to:

- 1 Increase school attendance
- 2 Advance academic and personal achievement
- 3 Improve year 12 graduation rates
- 4 Facilitate post-school transition planning.

In addition to these tangible outcomes the Girls Academy focuses on overall well-being and cultural connection whilst supporting the development of students' confidence, attitude, leadership and teamwork skills. The use of sport, extracurricular activities, one-on-one mentoring and a structured reward system keep the girls engaged in their education. The Girls Academy equips Indigenous girls with the tools they need to engage in their education, achieve their goals and change their communities.



## Wednesday 17 May



7:30am–3:00pm

**Conference registration**—Central Foyer, Level 2

8:00am–3:00pm

**APPEA 2017 Exhibition open**—Exhibition Hall, Level 1SPONSORED BY **SHELL**

8:00am–3:00pm

**APPEA 2017 Poster Presentations open**—Exhibition Hall, Level 1SPONSORED BY **BP DEVELOPMENTS AUSTRALIA**

8:00am–3:00pm

**KPMG Meeting Zone open**—Exhibition Hall, Level 1SPONSORED BY **KPMG**

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8:30am

**Federal Opposition Address**

Mr Tim Hammond MP, Shadow Minister for Consumer Affairs and Shadow Minister Assisting for Resources

RIVERSIDE THEATRE, LEVEL 2

## PLENARY: INDUSTRY LEADERS PANEL: THE AUSTRALIAN OIL AND GAS INDUSTRY IN TRANSITION

SPONSORED BY **SIEMENS**

RIVERSIDE THEATRE, LEVEL 2

CHAIR: Mr Michael Abbott, Senior Vice-President, Corporate and Legal, Woodside Energy Ltd

*The global energy system is in transition. The world is moving towards cleaner forms of energy, societal expectations continue to shift and lower prices places pressure on existing business models and practices. The Australian oil and gas industry faces a similar transition and the industry is dealing with this transition in a variety of ways, including a greater focus on innovation, exploring opportunities for collaboration and revisiting existing business models. An exclusive Industry Leaders Panel from APPEA's exploration and production member companies will come together to discuss these transitions, what they mean for the industry globally and in Australia and how their business are responding to the challenges and grasping the opportunities that arise when the industry is a period of change.*

**Facilitator:** Ms Maria van der Hoeven, Senior Associate Fellow Clingendael International Energy Programme and former Executive Director of the IEA

**Panelists:** Ms Claire Fitzpatrick, Managing Director, BP Developments Australia  
Mr Richard Owen, Chairman, ExxonMobil Australia  
Mr Ian Davies, Managing Director & Chief Executive Officer, Senex Energy

10:30am–11:15am

**MORNING TEA IN THE EXHIBITION HALL**SPONSORED BY **AGGREKO**



## Wednesday 17 May

## CONCURRENT SESSIONS 21–24

11:15am

**CONCURRENT SESSION 21: Technology innovation**

CHAIR: Mrs Julie Fallon, Senior Vice President—Engineering, Woodside

RIVER VIEW ROOM 4, LEVEL 2

**Learning and development from the world's first operating subsea compression system**

S Yeaw, A Storstenvik and R Vesterkjaer (Aker Solutions)

**An integrated operations team to drill the Prelude big bore gas wells in Western Australia. Working together delivers solutions**

L Bacarreza (Shell), C Singam\* (Schlumberger), M Buchan, A May, A Leung (Shell), Z Pallikathekathil, M Shehryar, K Jansen, M Naveed, O Bafor, S Brigham and S Sadawarte (Schlumberger)

**Novel pipeline integrity inspection of Casino pipeline brings significant benefits**

S Henzell (Advisian) and F Read (Santos)

**Advanced directional CwD system pushes integration envelope to elevate efficiencies and reduce costs**

G van Og and J Burgerhout (Huisman Well Technology)

**CONCURRENT SESSION 22: Greater North West Shelf**SPONSORED BY **GEOSCIENCE AUSTRALIA**

CHAIR: Dr Andrew Heap, Acting Chief, Resources Division, Geoscience Australia

RIVERSIDE THEATRE, LEVEL 2

**Triassic paleogeography and petroleum systems of the North West Shelf, Australia: key insights from new regional study**

JP Grahame (CGG—Multi-client &amp; New Ventures), E Cairns and S Roy (CGG Robertson, North Wales)

**Visualisation of geomorphological features and interpretation of the depositional system of the Brewster Member, Ichthys Field**

IA Syed, K Ichizawa and K Furuya (INPEX—Ichthys Subsurface)

**A re-evaluation of the lower to middle Triassic on the Candace Terrace, Northern Carnarvon Basin**

R McGee, J Goodall and S Molyneux (Carnarvon Petroleum)

**Integrated petroleum systems analysis to understand the source of fluids in the Browse Basin, Australia**

T Palu, LS Hall, E Grosjean\*, D Edwards, N Rollet, K Higgins, C Boreham (Geoscience Australia), A Murray (Murray Partners), D Nguyen, K Khider and T Buckler (Geoscience Australia)

**CONCURRENT SESSION 23: Developments in LNG**

CHAIR: Mr Terry Freckelton, Vice President Development, Shell

MEETING ROOMS 1 &amp; 2, LEVEL 2

**Quantifying host nation benefit from LNG developments**

W Pulsford and P Goel (Poten &amp; Partners—Gas and LNG Consulting)

**The gas hub in Asia**

B Farrell and A Sandilya (EY)

**Uncharted waters: LNG as a Marine Fuel in Australasia**

R Duncanson (Woodside) and WP Purio\* (LNG Marine Fuels Institute)

**Floating liquefied natural gas (FLNG): Is it still a nice niche?**

M Wilkes (RISC)

**FLNG innovation: discover development hotspots with patent landscaping**

R Baddeley (Watermark)

**CONCURRENT SESSION 24: Regulation and taxation**

CHAIR: Ms Anthea McKinnell, VP Global Operations Planning &amp; Performance, Woodside

MEETING ROOM 3, LEVEL 2

**NSW—strategic release of exploration areas**

D Crosdale (NSW Department of Industry Skills and Regional Development)

**The impact of competition law on destination restrictions in Asia-Pacific LNG Contracts**

M Grime, D Poddar\*, and N Kalic (Clifford Chance LLP)

**Achieving tax certainty for oil and gas projects**

K Wee (Australian Taxation Office)

**Australian taxation of offshore hubs: an examination of the law on the ability of Australia to tax economic activity in offshore hubs and the position of the Australian Taxation Office**

M Fry (Allens)

**Tax Transparency is not just about tax**

J Rintoul EY

## Wednesday 17 May

1:00pm–2:30pm

**Networking Lunch in the Exhibition Hall**SPONSORED BY **AGGREKO**

1:00pm–2:30pm

**Authors' Lunch** River View Room 5, Level 2 | By invitation onlySPONSORED BY **EXXONMOBIL**

2:30pm

**PLENARY: ADDRESSING TRUST CHALLENGES AND REGULATORY UNCERTAINTY**SPONSORED BY **ORIGIN ENERGY**

RIVERSIDE THEATRE, LEVEL 2

CHAIR: Mr Ernie Delfos, Managing Director, Eni Australia, EastTimor and PNG

*A more challenging environment for oil and gas investment increases the stakes in addressing above ground risks that prevent or delay exploration and development. Serious trust challenges have been created by incidents such as Macondo and a positioning of all fossil fuels as part of the problem not part of the solution in addressing climate change. A 2013 Gallup poll ranked the oil and gas industry as the least trusted industry tied for last place with the tobacco industry. The loss of trust has been amplified by sophisticated activism. The industry tends to see the solution as better communication of technical issues. However, stakeholders are seeking measures improvement in performance and greater transparency and disclosure by both industry actors and its regulators. This session will directly tackle the issues being faced and the lively panel debate will deliver a 'not to be missed' final session to APPEA 2017.*

**Opening comments by session facilitator** | Ms Ali Moore, Journalist**Improving trust through sharing lessons: Origin Energy and NOPSEMA's perspectives from the Crowes Foot Seismic Survey**

Mr David Baldwin, Chief Executive Officer, Integrated Gas, Origin Energy

Mr Stuart Smith, Chief Executive Officer, NOPSEMA

**Managing social licence in the midst of chaos**

Ms Katherine Teh-White, Managing Director, Futureye

**Operating beyond social compliance**

Mr Richard Boele, Partner and KPMG Global Leader for Human Rights and Social Impact, KPMG Banarra

**Panel discussion with guest facilitator****APPEA closing address** | Dr Malcolm Roberts, Chief Executive, APPEA

4:15pm–6:15pm

**FAREWELL COCKTAILS**SPONSORED BY **UGL****Farewell On Eat Street** Summer Garden, Perth Convention and Exhibition Centre

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**Thursday 18 May & Friday 19 May****2017 AUSTRALIAN OILFIELD GOLF TOURNAMENT**

Now in its 51st year, the 2017 Australian Oilfield Golf Tournament (AOGT) aims to raise funds for a local WA Charity. The 2017 AOGT will be played at Joondalup Country Club and Mount Lawley Golf Club.

Contact: Derek Morrow, Chairman, AOGT2017 **M** +61 419 926 895 **E** aogt2017@westnet.com.au





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Today through our fuel refining distribution and marketing assets we manufacture and sell billions of litres of fuel every year, keeping Australia's road, marine, aviation and off-road sectors supplied with reliable and high quality fuel and lubricants. In 2016, we announced plans, subject to regulatory approval, to enter a new phase of our Australian business through a partnership with Woolworths.

And in the upstream petroleum sector, for more than twenty five years, BP has also been providing clean natural gas to Western Australia and Asia through the North West Shelf Venture. We are continuing to invest in future energy supply through the development of more fields and more infrastructure with our fellow joint venture participants at the North West Shelf Venture and in the Browse Basin, and have begun exploring for new oil and gas resources in the Carnarvon Basin.



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## POSTER PRESENTATIONS

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The APPEA conference technical program incorporates an extensive poster series comprising of over 40 outstanding papers. Extended abstracts or full papers of these posters will be included in the APPEA Journal (conference proceedings) provided after the conference.

The poster series will be on display within the Exhibition Hall of the Perth Convention and Exhibition Centre from 8:00am to 6:00pm Monday and Tuesday, and 8:00am to 3:00pm Wednesday. Delegates are encouraged to meet the authors of the posters on Monday 15 May from 3:15pm to 6:00pm to discuss their work.

### GEOSCIENCE

- G01 Integrated 3D basin and petroleum systems modelling of the Great Australian Bight**  
E Frery (CSIRO), M Ducros (IFPEN), L Langhi, J Strand and A Ross (CSIRO)
- G02 Getting it right the first time in the Ceduna Sub-Basin: regional and target depth imaging in a frontier setting**  
W Koh (Petroleum Geo-Services)
- G03 Evolution of the outer basin high, Ceduna Sub-basin, southern Australia**  
J Cunneen, C Grigg and E Keating (Department of Applied Geology, Curtin University)
- G04 Petroleum migration in the Bight Basin: a fluid inclusion approach to constraining source, composition and timing**  
R Kempton, J Bourdet, S Gong, A Ross (CSIRO) and J Pironon (GeoRessources laboratory, Université de Lorraine)
- G05 Sweet-spot mapping of the Goldwyer Formation through formation evaluation and property modelling in the Canning Basin, Barbwire Terrace case study**  
M Alshakhs and R Rezaee (Department of Petroleum Engineering, Curtin University)
- G06 Lithofacies analysis and sequence stratigraphy of the Roseneath-Epsilon-Murteree gas plays in the Cooper Basin, South Australia**  
F Guo and P McCabe (Australian School of Petroleum, The University of Adelaide)
- G07 Imaging below seafloor canyons and other rugose features**  
D Fell, K Dyal (WesternGeco), T Hallam and S Nixon (Origin)
- G08 Enhancing SAR seep interpretation with broadband seismic data: a case study from the Timor Trough**  
R Edwards, M Sanderson (CGG NPA), P Martinez Duran (CGG Geoconsulting), G Duval (CGG Multiclient New Ventures), M King and H Carey\*(CGG NPA)
- G09 Interpretative filtering**  
L Ajjabou, M Bourdais\*, N Gritsajuk (Estimages), S Lacaze and J-P Adam (Ellis SAS)
- G10 Polynomial amplitude versus azimuth inversion in horizontally transverse isotropic media**  
J Kremor, R Taylor, K Amrouch (Woodside)



## GEOSCIENCE

- G11 South west hub project, Western Australia: appraising 'migration assisted' containment for carbon storage in sandstone strata**  
D Van Gent, M Burke (Department of Mines and Petroleum, Western Australia) and S Sharma (Carbon Projects Pty Ltd)
- G12 When, where and how a field scale 4D geomechanical model should be built**  
A Younessi (Baker Hughes Australasia)
- G13 Impact of faults and compartmentalisation on geological carbon storage estimates in highly faulted basins**  
J Poesse, LP Ricard\* and A Hortle (CSIRO-ARRC)
- G14 Portfolio analysis of petroleum fields and prospects—a robust statistical method**  
A Vujovic (Applied Geology, Curtin University), R Gupta (Mathematics, Curtin University) and GC Smith (Applied Geology, Curtin University)
- G15 Regional parametric sensitivity analysis of Walloon Subgroup CSG production**  
D Shields, F Zhou (Earth Science, University of Queensland) and J Esterle (University of Queensland)
- G16 Using precise CA-TIMS ages of volcanic air-fall tuff beds in correlating the Walloon Coal Measures of the Surat Basin, Australia**  
C Wainman and P McCabe (Australian School of Petroleum, University of Adelaide)
- G17 Petroleum systems analysis of the northern Houtman sub-basin**  
LS Hall, E Grosjean, I Borissova, C Southby, R Owens, G Bernardel and C Mitchell (Geoscience Australia)
- G18 Integrated petroleum systems analysis to understand the source of fluids in the Browse Basin, Australia**  
T Palu, LS Hall, E Grosjean\*, D Edwards, N Rollet, K Higgins, C Boreham (Geoscience Australia), A Murray (Murray Partners), D Nguyen, K Khider and T Buckler (Geoscience Australia)
- G19 Anisotropy parameter inversion from sonic and density logs in horizontally transverse isotropic media**  
J Kremor, K Amrouch (Woodside)

## ENGINEERING

- E01 Not all barrels are created equal: understanding the difference between standards of regulatory disclosure can impact your investment decisions**  
A McMullen, W Chung (Sproule International Ltd)
- E02 Lean offshore platform design**  
D Sage, M Bieganski and A Grant (Aker Solutions ASA)
- E03 How to effectively manage production facility low temperature exposure risk**  
J Bonini (S2V Consulting)
- E04 Natural catastrophe risk modelling for northwest Australia offshore installations**  
T Inamura (Sompo Risk Management & Health Care Inc.), F Lobo, R Hirose and H Sano (Sompo Canopus)
- E05 Green enhanced oil recovery (GEOR)**  
B Haq (King Fahd University of Petroleum and Minerals), J Liu (School of Mechanical & Chemical Engineering, University of Western Australia) and K Liu (Petroleum Geoscience Research and Centre RIPPED, PetroChina)
- E06 Recirculation to improve Progressive Cavity Pumps (PCPs) run life**  
J Martin (Steelhead Energy Services)
- E07 The digital workforce—disruptive technologies changing the way work gets done**  
C Jordan (Accenture Australia)
- E08 Determination of T<sub>2</sub> cut-off for shale reservoirs: a case study from the Carynginia Formation, Perth Basin, Western Australia**  
MN Testamanti, R Rezaee (Department of Petroleum Engineering, Curtin University), Y Yuan (Department of Petroleum Engineering, Curtin University and China University of Petroleum Huadong) and D Pan (Curtin University)



## ENGINEERING

- E09 Cryogenic expansion joint for LNG service**  
M Lu, C Wheeler and S Weir (Clough Ltd)
- E10 Case study: effects on Coal Seam Gas (CSG) well production with installation of wellhead compression (oil flooded rotary screw type)—early outcomes of an Australian trial of 4 wells in the Bowen Basin**  
TM Presley (Johnson Controls Inc), E Kurnia and B Wronski (Origin Energy Ltd)
- E11 Demonstrating good practice in the safe operation of gas assets with predictive analytics**  
H Engelbrecht\* (Woodside) and N Abbaspour\* (Accenture Australia)
- E12 Reservoir to market—generating project value by coupling surface facilities with reservoir data in integrated asset modelling**  
S Stokes (INTECSEA)
- E13 Integrated predrill and real-time geomechanical modelling brings significant benefits to deepwater Wildcat exploration drilling campaign—a case study**  
MS Asadi, A Ghosh (Baker Hughes Australasia), S Bordoloi and MM Reese (Baker Hughes Inc)
- E14 Influence of brine salinity on CO<sub>2</sub>-plume migration and trapping capacity in deep saline aquifers**  
E Al-Khdheawi (Petroleum Engineering, Curtin University), S Vialle (Department of Exploration Geophysics, Curtin University), A Barifcani (Petroleum Engineering, Curtin University), M Sarmadivaleh (Curtin University) and S Iglauer (Petroleum Engineering, Curtin University)
- E15 Correction of laboratory gas permeability measurements using Klinkenberg type correction models**  
TG Hoang (Australian School of Petroleum, The University of Adelaide), P Behrenbruch and MT Do Huu (Bear and Brook Consulting)

## BUSINESS

- B01 What happens when quantum computing re-defines the assessment of investment risk?**  
M Laybourn and J Pascoe (Accenture Australia)
- B02 Ready to collaborate? Operator and supply chain under the spotlight**  
M Lynn, A Samuel, (Deloitte Touche Tohmatsu Australia)
- B03 Decommissioning and remediation challenges for the petroleum industry**  
PF Shaw (Decomrem Holdings Pty Ltd)
- B04 Creating a resilient management system delivering a flexible foundation for growth in an energy organisation**  
S Barlow (Woodside)
- B05 The internet of things (IoT) is transforming the oil and gas industry—reducing cost, improving operational efficiency, increasing safety and helping tap into new markets**  
P Hogarth-Scott (KPMG)
- B06 Faster, higher, stronger: the competitive advantage of efficient data management for front-end decision-making**  
N Blundell (Arrow Energy)
- B07 50 years delivering efficient, cost effective power and temperature/humidity control solutions**  
CJ Wheeler (Aggreko Generator Rentals Pty Ltd)
- B08 Remote operations centres—what next?**  
B Farrell (EY LLP)
- B09 Tax transparency is not just about tax**  
J Rintoul (EY)



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