







# **ENERGY** THE WORLD NEEDS. NOW, **AND INTO** THE FUTURE.





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## CONFERENCE MOBILE APP

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The APPEA 2022 Conference and Exhibition is being held at the Brisbane Convention & Exhibition Centre. All conference activities, unless otherwise stated, will take place within the conference venue.

Registration				
Mon	11:00am-7:00pm			
Tue	7:30am-5:00pm			
Wed	7:30am-5:00pm			
Thu	7:30am-3:00pm			

#### **Exhibition times**

Tue 8:00am—6:00pm (happy hour 5:00pm—6:00pm)

Wed 8:00am-6:00pm (happy hour 5:00pm-6:00pm)

Thu 8:00am-3:00pm

The following program is correct at the time of printing and subject to change without notice.

Event	Location
Registration	Main Foyer
Exhibition entry	Exhibition Hall 1
Poster presentations	Exhibition Hall
Meeting Zone	Exhibition Hall
Collaboration Centre	Exhibition Hall
Refreshment breaks	Exhibition Hall
Networking lunches	Exhibition Hall
Happy hours	Exhibition Hall
Plenary sessions	Great Hall
Concurrent sessions	See program
Speaker Support Centre	M5
Media Room	P4 & P5
Welcome Reception	Plaza Ballroom
Presenters' Breakfast	P1 & P2
Members' Luncheon	P1 & P2
Conference Dinner	Plaza Ballroom
Authors' Luncheon	P1 & P2
Farewell Drinks (offsite)	South Beach, South Bar

# Delivering a safe event

APPEA 2022
IS A COVID
SAFE EVENT

If you feel unwell, or are have symptoms of COVID-19, please isolate and get tested. If isolating, delegates and presenters can participate through the virtual platform.\*









Always maintain good hand hygiene.



If possible, practise physical distancing.



Observe any specified room capacities.



\*This symbol throughout the program denotes a presentation that is anticipated to be a live link or video presentation at the time of printing, however the in-person or virtual nature of any presentation is subject to change as circumstances present.

#### APPEA INTRO TO OIL & GAS SEMINAR

INDUSTRY EVENT

Registration: 8:30am Room M2, Mezzanine Level

Seminar: 9:00am-5:00pm Brisbane Convention and Exhibition Centre

#### CONFERENCE REGISTRATION

Registration: 11:00am-7:00pm Main Foyer, Ground Level

Brisbane Convention and Exhibition Centre

#### PESA DEAL DAY

INDUSTRY EVENT

Registration: from 12:00pm Brisbane Convention and Exhibition Centre

Seminar: 1:00pm-5:00pm

#### WELCOME RECEPTION—APPEA COUNTRY FARE

6:00pm—9:00pm Welcome Reception

SPONSORED BY IOGP

Brisbane Convention and Exhibition Centre

# **ACCESS WIFI at APPEA 2022**

A complimentary wifi service is available for all APPEA 2022 delegates. This service is suitable for emails and basic internet work.

#### TO CONNECT:

- simply select
   APPEA Delegate
   when searching for available networks
- Password: GLJCANADA



#### **TUESDAY 17 MAY**

7:30am— **Presenters' Networking Breakfast**—Rooms P1 & P2, Plaza Level 8:20am SPONSORED BY **BP DEVELOPMENTS AUSTRALIA** BY INVITATION ONLY

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

6:00pm Collaboration Centre—Exhibition Hall | SPONSORED BY TRI-STAR GROUP

APPEA 2022 Exhibition open—Exhibition Hall | SPONSORED BY INPEX

APPEA 2022 Poster Presentations open—Exhibition Hall Sponsored by RP DEVELOPMENTS AUSTRALIA

APPEA 2022 Hydrogen Pavilion—Exhibition Hall SPONSORED BY WORLEY AND ADVISIAN

KPMG Meeting Zone open—Exhibition Hall | SPONSORED BY KPMG

8:30am-10:30am

8:00am-

#### PLENARY 1: Positive Energy for a Changing World

SPONSORED BY **WOODSIDE** AND **EXXONMOBIL** 

GREAT HALL

As Australasia's largest gathering of the oil and gas industry, APPEA 2022 opens with a powerhouse line-up of pre-eminent leaders setting the vision for the future.

#### Conference Opening Ceremony

#### **Queensland State Government Address**

The Hon Scott Stewart MP, Minister for Resources, Qld

#### **APPEA Chairman's Address**

Ian Davies, APPEA Chairman and Chief Executive Officer, Senex Energy

**Election Panel** Facilitated by Ali Moore, Journalist and Broadcaster The Hon Julie Bishop

Chancellor of Australian National University, Former Minister for Foreign Affairs The Hon Stephen Smith

Former Minister for Defence and Former Minister for Foreign Affairs

10:30am— MORNING TEA IN THE EXHIBITION HALL

11:00am SPONSORED BY THE APPEA JOURNAL

11:00am-12:30pm

#### PLENARY 2: Energy Leaders' Panel

SPONSORED BY CHEVRON

GREAT HALL

FACILITATOR: Ali Moore, Journalist and Broadcaster

After a year of recovery and transformation in a turbulent global energy market, this facilitated panel session brings together industry leaders for a frank conversation on challenges and opportunities for oil and gas in a changing global energy landscape.

#### SCENE SETTER: A WORLD IN FLUX—WHAT'S GOING ON AND WHAT DOES IT MEAN?

Merriden Varrall Director, Australia Geopolitics Hub, KPMG

#### PANFLISTS

Kory Judd Director of Operations, Chevron Australia

Meg O'Neill CEO and Managing Director, Woodside Energy

Dylan Pugh Chairman, ExxonMobil Australia

Lucy Snelling Head, Corporate & Commercial, State Gas

Merriden Varrall Director, Australia Geopolitics Hub, KPMG

2.00pm

12:30pm- NETWORKING LUNCH

**EXHIBITION HALL** 

SPONSORED BY THE APPEA JOURNAL

2:00pm

12:30pm- APPEA Members' Lunch | BY INVITATION ONLY SPONSORED BY WOODSIDE AND EXXONMOBIL

ROOMS P1 & P2

2:00pm-3:15pm

#### TECHNICAL AND BUSINESS SESSIONS 1-4

CONCURRENT 1: EXPLORATION—KEEPING THE FUNNEL FULL **ROOM M4** 

A regional chronostratigraphic framework for play-based resource assessments in the Eromanga Basin

The role of faulting in Northern Carnarvon's sub-basins in transferring very high overpressure

Reservoir quality and diagenesis of the West Erregulla Field, North Perth Basin Western Australia

Passive microseismic: Direct hydrocarbon sensing with minimal environmental impact—Canning Basin example

#### PROGRAM TUESDAY 17 MAY

2:00pm-3:15pm

#### TECHNICAL AND BUSINESS SESSIONS 1-4 cont

#### CONCURRENT 2: ENGINEERING THE ENERGY TRANSITION

ROOM M2

ROOM M3

Zero emissions LNG—a credible opportunity for the industry

Feasibility study of adiabatic compressed air energy storage in porous reservoirs

Techno-economic evaluation of blue hydrogen production with carbon capture and storage for onshore Eastern Australia

Naturally derived carbon material for hydrogen storage

#### CONCURRENT 3: AUSTRALIA'S FUTURE ENERGY STRATEGY

The continuing role of gas as the natural companion to renewable energy

Examining the challenges and opportunities for Australia as an LNG producer against the backdrop of rising domestic renewables output and global interest in 'carbon-neutral' LNG

The impact of new supply from the Perth Basin on the supply of natural gas in Western Australia

Well productivity trends in Queensland coal seam gas and the incremental well breakeven

#### **CONCURRENT 4: APPEA PANEL SERIES**

GREAT HALL

# How are global markets responding to the invasion of the Ukraine and what might happen next?

FACILITATOR Ali Moore, Journalist and Broadcaster

#### PANELLISTS

Mr Mukesh Sahdev, Head of Global Downstream Research, Rystad Energy Michael Shoebridge, Director—Defence, Strategy & National Security, Australian Strategic Policy Institute

Clyde Russell, Asia Commodities and Energy Columnist, Thomson Reuters

## 10 PROGRAM TUESDAY 17 MAY

3:45pm-5:00pm

#### TECHNICAL AND BUSINESS SESSIONS 5-8

#### C.5: UNLOCKING RESOURCE VALUE WITH GEOSCIENCE

ROOM M4

Pluto 4D monitor two—a second outstanding success

Uncertainty analysis on environmental impacts of hydraulic fracturing

Seamless in seam—new geosteering technology delivered challenging coal seam gas project with success

Multiple tracers for dis-connectivity of shallow aquifers, alluvium, and coal seam gas wells in the Great Artesian Basin

#### C.6: ARE THERE BETTER WAYS TO DRILL AND COMPLETE?

ROOM M2

Application of heel intersect horizontal well concept in coal bed methane play: A case study

Environmentally assisted fatigue failure of drill pipe connections

Progressive sanding evaluation at different stages of the Geographe field development, Otway Basin

Effects of rapid gas decompression on coal seam gas swellables

#### **CONCURRENT 7: REGULATORY NIRVANA?**

ROOM M3

Climate change litigation—director's duties, legal developments and risk management

Queensland's risk-based petroleum and gas regulator

Co-existence 2.0—maturing the coexistence model in Queensland

Biodiversity Protection Offsets in the Northern Territory—the Ichthys LNG story

#### **CONCURRENT 8: THE BUSINESS OF CCUS**

GREAT HALL

SPONSORED BY SCHLUMBERGER

Australia well positioned to become a CCUS leader

Carbon capture and storage—a review of Australian projects

Collaborative development of the NT low emissions carbon capture, utilisation and storage hub—a blueprint for the rapid decarbonisation of Northern Australia

Create a new CCS industry—unlock Australian CO<sub>2</sub> storage by using CO<sub>2</sub> carriers for transport and floating CCS hub facilities

5:00pm-6:00pm HAPPY HOUR IN THE EXHIBITION HALL

SPONSORED BY MOTOROLA SOLUTIONS

#### **WEDNESDAY 18 MAY**

7:30am-5:00pm Conference Registration—Main Foyer, Ground Level

8:00am-6:00pm APPEA 2022 Exhibition open—Exhibition Hall | SPONSORED BY INPEX

Collaboration Centre—Exhibition Hall | SPONSORED BY TRI-STAR GROUP

APPEA 2022 Poster Presentations open—Exhibition Hall

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APPEA 2022 Hydrogen Pavilion—Exhibition Hall

SPONSORED BY WORLEY AND ADVISIAN

KPMG Meeting Zone open—Exhibition Hall | SPONSORED BY KPMG

8:30am-10:30am

#### PLENARY 3

Ministerial Address—The Hon Keith Pitt MP Minister for Resources, Water and Northern Australia

**GREAT HALL** 

VA.

The Shape of Things to Come

GREAT HALL

SPONSORED BY ABB

FACILITATOR: Ali Moore, Journalist and Broadcaster

As technology and innovation will continue to underpin the industry's growth whilst reducing emissions and continuing to meet our energy needs, we explore the technologies that are driving this transformation.

#### INTERNATIONAL SCENE SETTER AND PANELIST

Iman Hill Executive Director, IOGP

#### TECHNOLOGY AND INNOVATION PRESENTATIONS AND PANEL

Tony Nunan Executive Vice President & Country Chair, Shell Australia Dr Kahina Abdeli-Galinier Business Director for Emissions Management, Schlumberger Limited

Kevin Gallagher Managing Director and CEO, Santos

Dr Patrick Hartley Leader Hydrogen Industry Mission, CSIRO

10:30am-

MORNING TEA IN THE EXHIBITION HALL

11:15am SPONSORED BY THE APPEA JOURNAL

11:15am-12:30pm

#### TECHNICAL AND BUSINESS SESSIONS 9-12

C.9: AUSTRALIA AND ITS RESOURCES: A GOVERNMENT
PERSPECTIVE SPONSORED BY AUSTRALIAN GOVERNMENT
DEPARTMENT OF INDUSTRY, SCIENCE, ENERGY AND RESOURCES

Managing offshore Australia and its resources

Geological context of the 2022 offshore acreage release areas

Australian onshore petroleum acreage and releases 2022

The Queensland Resources Industry Development Plan: A 30-year plan to build a resilient, responsible and sustainable resources industry that grows as it transforms

#### CONCURRENT 10: WHAT'S NEW OFFSHORE?

ROOM M3

 $\label{thm:condition} \mbox{Embracing technology to deliver an intelligent Scarborough offshore facility}$ 

Unlocking Gippsland reserves with a minimum kit solution

Honey, I shrunk the boat: Uncrewed subsea inspections leveraging remote operations technology  $\,$ 

Collaborating to bring new technology on developments

#### CONCURRENT 11: EMBRACING THE 'US' IN OUR INDUSTRY ROOM M4

Fostering employee and community engagement through diversity, equity and inclusion strategic goals

A seismic shift in engagement with the fishing industry? A case study of the Prion 3D marine seismic survey in Bass Strait

Strategies for actively engaging with Indigenous businesses

INPEX-led lchthys joint venture—proudly partnering with Indigenous groups in NT

The future energy leader: A millennial dilemma

#### CONCURRENT 12: OPERATIONS AND MANAGING ASSETS ROOM M2

Recycling of Australian oil and gas assets, an Australian Basel-compliant solution

Strategic decision making for late life assets

Shuts, turns and roundabouts

Exploring the Thai and Malaysian decommissioning landscapes—identifying opportunities and challenges for Australia

#### PROGRAM WEDNESDAY 18 MAY

12:30nm- NETWORKING LUNCH EXHIBITION HALL 2.00pm SPONSORED BY THE APPEA JOURNAL

Meet the Authors EXHIBITION HALL 1:00pm-2:00pm SPONSORED BY RP DEVELOPMENTS AUSTRALIA

TECHNICAL AND BUSINESS SESSIONS 2:00pm-3:15pm

#### CONCURRENT 13: YEAR IN REVIEW SPONSORED BY PESA

Exploration and appraisal year in review 2021

2021 Development and production review

Australia business environment review 2021

#### **CONCURRENT 14: NEW PERSPECTIVES, NEW** INSIGHTS—MATURE BASINS AND ASSETS

ROOM M3

ROOM M2

West Barracouta—50 years in the making

Major geological surfaces of the Exmouth Plateau from the new broadband PreSDM reprocessed 3D seismic data with full waveform inversion

New imaging results and improved interpretation of Late Triassic to Middle Jurassic successions within the Browse Basin, North West Shelf of Australia

The transformation of Australia's first commercial CSG field into a major gas project; how innovation and subsurface understanding has driven its success

#### CONCURRENT 15: ENCOMPASSING THE 'E' IN ESG SPONSORED BY GEOSCIENCE AUSTRALIA

ROOM M4

Trusted environmental and geological information to support Australian energy resource development in a changing world

Technological advances in biosecurity monitoring

Impacts of exposure to a seismic survey on silverlip pearl oysters (Pinctada maxima)

Guidance document: Incident management teams knowledge requirements for responding to marine oil spills

INPEX-led Ichthys Joint Venture—Developing a dynamic adjustment area to identify, time, duration and potential exposure periods related to a 2D Seismic survey offshore Western Australia

2:00pm-3:15pm TECHNICAL AND BUSINESS SESSIONS 13-16 cont

CONCURRENT 16: APPEA PANEL SERIES: Challenges and opportunities for offshore oil and gas decommissioning in Australia SPONSORED BY HALLIBURTON

GREAT HALL

FACILITATOR David Maxwell, Managing Director, Cooper Energy Ltd

Ursula Benson, Manager-Asset Retirement, Chevron Australia Pty Ltd

Stuart Barrymore, Partner, Herbert Smith Freehills

Cameron Grebe, Head of Division-Environment, NOPSEMA

Shane Gaddes, Head of Offshore Resources & Liquid Fuels Division, DISER

Jarrod Pittson, Business Manager Pluto Fpso Wheatstone, Woodside Energy Limited

3:15pm AFTERNOON TEA IN THE EXHIBITION HALL
SPONSORED BY THE APPEA JOURNAL

3:45pm-5:00pm TECHNICAL AND BUSINESS SESSIONS 17-20

CONCURRENT 17: NEW DATA, NEW IDEAS—NEW FRONTIERS ROOM M4
SPONSORED BY SCHLUMBERGER

The story of Esso Australia's push to explore the frontier Gippsland Basin with the ultra-deep water Sculpin-1 exploration well

Petroleum supersystems in the greater McArthur Basin, Northern Territory, Australia: Prospectivity of the world's oldest stacked petroleum systems with emphasis on the McArthur Supersystem

Resource potential of the Carrara Sub-basin from the deep stratigraphic well NDI Carrara 1

Stratigraphic framework and structural architecture of the Upper Cretaceous in the deep-water Otway Basin—implications for frontier hydrocarbon prospectivity

#### CONCURRENT 18: HOW WELL ARE WE PRODUCING?

ROOM M3

Simplicity and digitalisation—using GIS to reduce design and operation costs in gas gathering systems

Co-application of micro-proppants with horizontal well, multi-stage hydraulic fracturing treatments to improve productivity in the permian coal measures, Bowen Basin. Australia

Minimising pipeline leaks and maximising operational life by application of machine learning at Cooper Basin

Wireline Packer remediation using novel Bismuth technology

3:45pm-5:00pm

#### TECHNICAL AND BUSINESS SESSIONS 17-20 cont

#### CONCURRENT 19: LOOKING AFTER OUR PEOPLE

ROOM M2

Viral mutations, vaccine efficacy and rapid tests—COVID-19 risk management in the two largest LNG producing countries, Qatar and Australia

Overcoming COVID challenges in project execution—West Barracouta

Developing an in-depth understanding of PFAS to deliver an effective remediation strategy

Mental health and the resources sector: Findings from a research program to promote effective mental health solutions

#### CONCURRENT 20: PATHWAYS TO HYDROGEN FUTURES

GREAT HALL

Finding winners in the hydrogen hype

The business of growing a hydrogen business: Lessons from disruptive innovation theory

Collocated offshore wind-hydrogen

Suitability of depleted gas fields for underground hydrogen storage in Australia

5:00pm-6:00pm HAPPY HOUR IN THE EXHIBITION HALL

SPONSORED BY MOTOROLA SOLUTIONS

#### CONFERENCE DINNER—TOGETHER WE SHINE

7:00pm for 7:30pm until late

Brisbane Convention and Exhibition Centre

The hottest ticket in town, the
APPEA Conference Dinner, offers fine
food and wines and internationally
acclaimed entertainment. Don't have
your ticket yet? Check availability at
the Registration Desk on Ground Level.

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### THURSDAY 19 MAY

**Conference Registration** 7:30am-4:00pm Main Fover, Ground Level

8:00am-3:00pm

APPEA 2022 Exhibition open—Exhibition Hall | SPONSORED BY INPEX

Collaboration Centre—Exhibition Hall | SPONSORED BY TRI-STAR GROUP

APPEA 2022 Poster Presentations open—Exhibition Hall

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APPEA 2022 Hydrogen Pavilion—Exhibition Hall

SPONSORED BY WORLEY AND ADVISIAN

KPMG Meeting Zone open—Exhibition Hall | SPONSORED BY KPMG

8:30am-10:15am

#### PIFNARY 4

Federal Opposition Address—Ms Madeleine King MP GREAT HALL Shadow Minister for Resources VA.

Our Workforce for the Future

GREAT HALL

VA.

SPONSORED BY ENERGY INFORMATION AUSTRALIA

FACILITATOR: Helen Dalley, Journalist and Broadcaster

In this deep dive session into talent attraction, retention and development, speakers from education, the leading edge of student feedback, companies and expert analysts will deliver a facilitated, open and frank discussion on our pathway forward.

SCENE SETTER: A NEW DAWN FOR ENR TALENT—LOOKING TO THE FUTURE 'WHY'

Nick Ghamgosar Associate Director, Workforce Transformation, KPMG Australia

PANEL

Nick Ghamgosar Associate Director, Workforce Transformation, KPMG Michael Holstrom Chief Executive Officer, STEMPunks

Deanna Jones Chief Human Resources Officer, Baker Hughes Prof Deborah Terry AO Vice Chancellor and President, University of Queensland

10:15am-MORNING TEA IN THE EXHIBITION HALL 11:00am SPONSORED BY THE APPEA JOURNAL

11:00am-1:00pm

#### 11:00am- TECHNICAL AND BUSINESS SESSIONS 21-24

# CONCURRENT 21: GEOSCIENCE FOR

ROOM M4

Ground surface monitoring for CO2 injection and storage

The Petrel Sub-Basin: A world class CO<sub>2</sub> store—mapping and modelling of a scalable and commercially viable CCS development

 $CO_2$ -EOR potential in the Cooper and Surat basins—a cost-effective pathway to reduce  $CO_2$  emissions

Conceptual model of the Lower Permian Kingia Sandstone (northern Perth Basin, Western Australia) as an alternative energy resource

Gold (hydrogen) rush: Risks and uncertainties in exploring for naturally occurring hydrogen

Hydrogen storage potential of depleted oil and gas fields in Western Australia

#### **CONCURRENT 22: NEW WAYS OF ENGINEERING**

ROOM M2

Strength in numbers: How the different satellite systems used to monitor methane emissions from space have different, yet complementary, capabilities to help the oil and gas industry meet its decarbonisation goals

Lessons learned—incorporation of action management for inherent learning and prioritisation through opportunity matrix

Intelligent monitoring of fugitive emissions—comparison of continuous monitoring with intelligent analytics to other emissions monitoring technologies

Extracting events from daily drilling reports using fuzzy string matching

Integrated asset performance management: A true, holistic view of asset health and risk

Central Queensland hydrogen project

11:00am-1:00pm

#### TECHNICAL AND BUSINESS SESSIONS 21-24 cont

#### CONCURRENT 23: DECONSTRUCTING DECOMMISSIONING GREAT HALL

On a mission to decommission

Industry-wide learnings from the independent review of Australia's most complex decommissioning program

Cradle to grave: Planning for all well decommissioning

National decommissioning research initiative outcomes inform offshore decommissioning options

Safety zones and decommissioning in situ/artificial reefing in the Australian regulatory context: A net environmental benefit analysis-based comparative assessment (NEBA-CA) intergenerational value proposition

Building collaborative capacity to address Australia's growing decommissioning needs

# CONCURRENT 24: HOW GREEN IS YOUR GREENHOUSE? SPONSORED BY DSS+

ROOM M3

Net zero hero—five strategies for oil and gas producers

Looking down the (oil) barrel of a class action?

Supporting energy transition as a service contractor

Repurposing Victoria's gas infrastructure for a net-zero future

Greenhouse gases emissions evaluation for prospective energy projects

The infrastructure of net zero: A unique challenge for Australia

	NETWORKING LUNCH SPONSORED BY THE APPEA JOURNAL	EXHIBITION HALL
1	Authors' Lunch   BY INVITATION ONLY SPONSORED BY WOOD	EXHIBITION HALL

2:30pm-4:15pm

#### PLENARY 5: Investing through Unprecedented Change

SPONSORED BY SENEX

GREAT HALL

FACILITATOR: Helen Dalley, Journalist and Broadcaster

In a rapidly changing risk–reward environment, this session will bring together senior government ministers, bankers and analysts to discuss how we can continue to invest for the future of Australia's oil and gas sector and for the Australian economy more widely.

#### PANFI

The Hon Roger Cook MLA

Deputy Premier of Western Australia, Minister for State Development, Jobs and Trade

Mark Samter

Energy Analyst, MST Marquee

Christina Tonkin

Managing Director, Corporate Finance, ANZ

#### **Awards and acknowledgements**

**Closing Conference Address** 

Ian Davies APPEA Chairman and Chief Executive Officer, Senex Energy

4:15pm-6:15pm

#### FAREWELL COCKTAILS—LIFE'S A BEACH

Take a short stroll to our final event for APPEA 2022—

kick back and relax overlooking the stunning city skyline at South Beach, South Bank. A cool drink, great beach bash food and chilled

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# Reimagining Energy for Australia

Reaching net-zero by scaling up investment in alternative energy solutions and technology, partnering with customers on decarbonization, and building on our legacy as a gas producer bp.com

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#### **GEOSCIENCE**

- G01 Origins of hydrogen sulphide (H<sub>2</sub>S) in gas reservoirs by isotopic analyses: The mitigation of operation risks
- GO2 The Reids Dome beds and its coal seam gas characteristics—Queensland's latest coal seam gas target
- **G03** Application of a probability model to detect unrecognised igneous intrusions in sedimentary basins
- **G04** A time series analysis of exploration in the North West Shelf
- G05 Stratigraphic and structural architecture of the deep-water Otway Basin—implications for frontier hydrocarbon prospectivity
- G06 Petrophysical characterisation of the Cambrian and Neoproterozoic successions in the Officer Basin
- **G07** The search for new oil and CO<sub>2</sub> storage resources: Residual oil zones in Australia
- **G08** Geomechanical rock properties of the Officer Basin
- **G09** Optimising value in the mature Turrum Field: Integrating modern seismic, high-resolution sequence stratigraphy and production data in a 3D geological model
- G10 Addressing exploration uncertainties in the southern Bonaparte Basin:
  Enhanced stratigraphic control and post drill analysis for upper Permian plays
- **G11** The Northwest Offshore Otway Basin Well Folio
- G12 Old Basins, new seismic data—architecture of Proterozoic basins in North West Queensland
- **G13** A regional strike-slip fault under the Canning Basin
- G14 Natural hydrogen exploration in Australia—state of knowledge and presentation of a case study
- G15 Seismic, petrophysical and petrological constraints on the alteration of igneous rocks in the Northern Carnarvon Basin, Western Australia: Implications for petroleum exploration and drilling operations
- **G16** Potential field interpretation and modelling in the deep-water Otway Basin

### APPEA2022 POSTER PRESENTATIONS

#### **ENGINEERING**

- E01 The use of corrosion protection measures to extend the service life of lifting equipment in a marine environment
- **E02** Integrity considerations for dehydration of carbon dioxide
- **E03** Developing Australia's underground hydrogen storage through demonstration
- E04 Strength in numbers: How the different satellite systems used to monitor methane emissions from space have different, yet complementary, capabilities to help the oil and gas industry meet its decarbonisation goals
- E05 Digitalisation and automation for the development of modern engineering workflows
- Route Selection with Artificial Intelligence: Pseudocode and demonstration of a multi-use artificial intelligence algorithm to perform offshore pipeline, cable and umbilical route selection and optimisation
- E07 A new approach for production forecasting from individual layers in multi-layer commingled tight gas reservoirs
- **E08** Dynamic Risk Advisor—real-time bowtie risk assessment monitoring system
- **E09** Modelling of high point vents in water gathering systems—a new approach using Simcenter Flomaster
- **E10** Carbon capture clusters
- E11 Using unsupervised machine learning to identify risk of failure at aging oil and gas assets
- E12 A holistic approach to reducing small bore fitting and tubing failures in oil and gas facilities
- E13 Monitoring well cementing operations using distributed fibre optic sensing



#### **FSG**

- ESG01 Design for decommissioning—focusing on preventative strategies and beneficial impact assessment for managing offshore infrastructure in situ
- ESG02 Quantifying the reduction of rehabilitation needs and safety risks in the use of innovative well and flowline decommissioning tools
- **ESG03** Can hologram technology promote family connection and combat anxiety and depression in oil and gas employees?
- ESG04 A quantitative method for evaluating ecological risks associated with long-term degradation of deep-sea plastic-containing infrastructure
- ESG05 An integrated approach to environmental assessment for decommissioning outcomes
- **ESG06** Fish associated with subsea pipelines and artificial rock berms
- ESG07 Marine measurement, monitoring and verification for offshore carbon storage projects—learnings from a coastal Gippsland setting
- ESG08 Enhancing the management decommissioning activities in Joint Development Areas
- ESG09 Fit for work, healthy for life—the science of wellbeing
- ESG10 Key lessons in planning for proactive decommissioning—a review of the Thevenard Island decommissioning project
- **ESG11** Lighting the way

#### **BUSINESS**

- **B01** Measurement best practice 'To the standards and beyond!'
- **B02** Strategic decision making to achieve a path to net zero
- **B03** Global energy outlooks and Australia's net zero energy future
- B04 Environmental genomics applications for environmental management activities in the oil and gas industry: State-of-the-art review and future research needs

6:00pm-9:00pm

Welcome Reception—APPEA Country Fare

SPONSORED BY IOGP

### Wednesday 18 May

7:00pm for 7:30pm Conference Dinner—Together We Shine

SPONSORED BY VENTIA

Tickets available for purchase.

#### Thursday 19 May

4:15pm-6:15pm

Farewell Cocktails—Life's A Beach

SPONSORED BY LIDIAR GROUP

SOUTH BEACH, SOUTH BANK

#### Friday 20 May

For details visit the AOGT stand in the Fover, on the Ground Level 2022 Australian Oilfield Golf Tournament

ORGANISED BY AOGT 2022 COMMITTEE



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