



presents

The ASA, CTL & GTL 2013 Conference

Driving today's energy revolution

22-23 October 2013 | Hilton Brisbane

The Australian Syngas Association (ASA) and Australian Journal of Mining (AJM) are hosting The ASA, CTL & GTL 2013 Conference.

This event is the combining of 2 highly successful industry events (The inaugural Australian Syngas Association Conference 2012 and the AJM annual CTL & Coal Gasification Conference). This unique combined event will bring together the leading players in CTL, GTL and Syngas to share information and discuss the challenges and opportunities ahead, making this the premier event to attend in Australia during this crucial time in the industries development.



www.informa.com.au/ctlgtl2013

Researched and developed by:

informa

TUESDAY 22ND OCTOBER 2013

- 8:30 Conference registration & coffee
- 9:00 Chairman's Introduction
- 9:10 **Opening remarks & welcome address**
Peter Bond, President, Australian Syngas Association / CEO & Managing Director, **Linc Energy Ltd**
- 9:40 **How to successfully position & market UCG & Syngas - Learning from the CSG experience**
 - How to avoid the issues and opposition seen with CSG?
 - Distancing processes and products from CSG
For speaker updates go to www.informa.com.au/ctlgtl2013
- 10:20 **The Arckaringa Project - Multiple energy and feedstock options from Syngas**
Chris Schrape, Managing Director, **Altona Energy Plc**
- 11:00 Morning tea
- 11:30 **Latrobe Fertilizers - Latrobe Valley - Clean coal technology to convert brown coal into Urea**
Allan Blood, Chairman, **Latrobe Fertilisers Limited**
- 12:10 **A Case Study of Carbon Energy's Panel 2 UCG pilot at Bloodwood, Queensland**
 - The Keyseam* UCG design and its advantages
 - Syngas quality and consistency achieved
 - Definition of reactor cavity growth, location and controls
 - Decommissioning plans and progress
Dr Cliff Mallett, Chairman UCG Association / Technical Director, **Carbon Energy Limited**
- 12:50 **PANEL DISCUSSION**
Technology Updates – readiness & transfer
Dr Cliff Mallett, Chairman UCG Association / Technical Director, **Carbon Energy Limited**
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- 1:20 Lunch
- 2:20 **Modular GTL: Transformational gas solution for the upstream industry**
 - Solution for stranded gas and shale oil and gas
 - Industry approved and operating
 - Technology scale up completed
 - Proven project execution capability
 - Projects ready for FEED
Iain Baxter, Director of Business development, **CompactGTL**
- 3:00 **Update on Linc energy's UCG activities and operations worldwide & decommissioning in Queensland**
Senior Executive, **Linc Energy**
- 3:40 Afternoon tea

4:10

Water management: The use of scientific studies and biological indicators to reduce your risk

- An introduction to the use of biological indicators and direct toxicity assessments in the context of CSG Projects
- Gaining a deeper understanding of the environment you are operating in: knowledge is power
- Recent innovations in techniques to assess and monitor impacts to watercourses and aquifers
- The benefits of early investment in studies when negotiating with the regulators and liaising with the community

Nirvana Searle, Senior Ecologist, **frc environmental**

4:50

Updates of the commercialization of Synfuels China's CTL Technology

Dr Yongbin Cui, Director of Australia Office, **Synfuels China**

5:30

Close of conference & networking reception

Happy Hour:

The Australian Syngas Association (ASA) and Australian Journal of Mining (AJM) invite all speakers and delegates to discuss the day's presentations at the informal drinks reception



Official Conference Dinner

Tuesday 22nd October 2013 – 6:30pm

Providing you with the opportunity to do business with your peers and clients whilst enjoying a lavish a la carte dinner and drinks reception.



L 2013 Conference

WEDNESDAY 23RD OCTOBER 2013

8:45 Workshop registration & coffee

9:00am – 5pm

WORKSHOP

IMPLEMENTING CTL & GTL PROJECTS OPPORTUNITIES & CHALLENGES IN IMPLEMENTING GTL PROJECTS AND MARKETING THEIR OUTPUT

Synopsis

The workshop focuses on technology and economics for adding value to coal and gas to produce fuels and chemicals. There has been a considerable amount of activity on the conversion of coal and gas to liquid transport fuels. The conversion of coal and gas to chemicals follows similar paths but emphasize the production of higher value chemical products.

The workshop will cover the technology and economics for the conversion of coal and gas to fuels and chemicals: diesel, petrochemical naphtha, gasoline, fertilizers and ammonium nitrate, methanol, DME and acetic acid, commodity polymers.

Course Program

1. Synthesis Gas

For most technologies, the first step is the conversion of coal and gas into an intermediate comprising hydrogen and carbon monoxide known as synthesis gas. From synthesis gas there is a variety of approaches to the production of fuels and chemicals. The production of synthesis gas is capital and energy intensive and a successful approach is critical to the success of a project. After production the synthesis gas has to be tailored for the particulars of the downstream process and again there are several alternative approaches:

- Coal and gas to synthesis gas – alternative approaches
- Proprietary technology
- Relative performance
- Production economics
- Underground coal gasification
- Raw gas cleaning - water gas shift and acid gas removal.

2. Fuels and chemicals by the Fischer-Tropsch process

The Fischer-Tropsch Process produces extremely clean fuels, especially diesel fuel and is being developed for this purpose. The process has been under development for 80 years but there are few commercial plants. Although the process is simple, the detail of maximizing yield and product quality makes the process complex and costly. The route can be adapted for the production of a wide variety of chemicals.

- History of the FT process
- Modern commercial plants – Sasol, PetroSA (MossGas), Shell Pearl, Oryx - Qatar
- Fuels from the FT process
- Lubricating oil and chemicals
- Value and marketing of products
- Process economics

3. Chemicals containing nitrogen or oxygen

Synthesis gas can be converted to ammonia. This is one of the oldest and long existing coal to chemicals process which was developed during the First World War by Fritz Haber and later improved by Bosch. Newer methods for the production of ammonia employ modern gasifiers or natural gas are far more efficient. Ammonia is the basic chemical for the production of fertilizers and ammonium nitrate.

Synthesis gas can be converted into methanol. Methanol can be traded as a chemical or used as a clean fuel. This session will analyze the process technology and economics for the production of methanol and methanol derivatives DME. Recently Celanese have described improvements in routes to convert methanol to acetic acid using synthesis gas. This route could lead to the conversion of methanol into ethanol.

- Fertilizer and explosives industries
- Ammonia to urea and ammonium nitrate (AN)
- Technology for production of methanol
- Methanol to acetic acid and ethanol
- Value and marketing of products

4. Coal or gas to olefins and polymers

Methanol can be converted to gasoline using the ExxonMobil Process. This can be adapted to produce olefins and potentially aromatics. There are several alternative approaches leading to a range of different hydrocarbon polymers. As well as the methanol route coal can be converted into polymers using acetylene as the intermediate. This can be used to produce ethylene or vinyl chloride or PVC. The session will survey the technology and process economics for these routes.

- Overview of the polymer industry – products and prices
- Coal or gas to LPG and gasoline via methanol: ExxonMobil process
- Coal or gas to olefins and polymers via methanol
- Existing and proposed projects
- Coal to acetylene and PVC

Duncan Seddon, Director, Duncan Seddon and Associates

Dr. Duncan Seddon, (www.duncanseddon.com) is a consultant to the oil, gas and petrochemical industries, has been involved with then production and use of transportation fuels and commodity chemicals for over 30 years. He has a particular interest and expertise in clean fuels, the use of gas and coal derived chemicals in the transport fuel sector and in Gas to Liquids technology and processes. He has published "Gas Usage and Value – The Technology and Economics of Natural Gas Use in the Process Industries", PennWell 2006 and "Petrochemical Economics – Technology Selection in a Carbon Constrained World", ICP 2010. He is a Fellow of the Royal Australian Chemical Institute and a Member of the Society of Petroleum Engineers.

5:00 Close of Workshop



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Sponsorship provides an outstanding opportunity to profile your company as a key player in Australia's ASA, CTL & GTL market.

The branding component in the packages will bring awareness of your company, products and services to this unique industry.

For a copy of the sponsorship prospectus, please contact our

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Please visit the website for regular updates and changes to the program. Be kept in the loop with this event via LinkedIn, Twitter, YouTube and our Blog. Full details at www.informa.com.au/ctlgtl2013

The ASA, CTL & GTL 2013 Conference

Hilton Brisbane | 22-23 October 2013

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	PRICE	GST	TOTAL	SAVE	PRICE	GST	TOTAL
One Day Conference	\$1045	\$104.50	\$1149.50	\$165	\$1195	\$119.50	\$1314.50
One Day Workshop	\$1045	\$104.50	\$1149.50	\$165	\$1195	\$119.50	\$1314.50
Conference + Workshop	\$1845	\$184.50	\$2029.50	\$165	\$1995	\$199.50	\$2194.50
Dinner					\$110	\$11	\$121



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Registration Fees Include

Entrance to the relevant conference package purchased plus refreshments, lunch and online access to available presentations (five working days post event). They do not include airfares or hotel rooms.

Dress Code

Business attire is suggested along with a sweater or jacket in case the conference room is cool.

Cancellation Policy & Substitutions

Cancellations must be advised in writing at least 10 working days prior to the event. An administration fee of \$550 (inc 10% GST) will be incurred for cancellations. A refund will not be given if a delegate fails to attend or cancels within 10 working days prior to the event.

Fully paid delegates unable to attend will be provided with online access to speaker presentations post event. Substitutions can be made at any time before the event without penalty. We do not refund airfares or hotel expenses if the event is cancelled. Informa reserves the right to cancel, alter the content and/or speakers on any program. Paid registration fees will be fully refunded for cancelled events.

Conference Venue

Hilton Brisbane

190 Elizabeth Street, Brisbane, QLD 4000

Phone: (07) 3234 2000

www.hilton.com.au

Accommodation & Travel

Exclusive delegate packages are available, visit the 'Venue, Accommodation & Travel' page on the event website for details. Travel and accommodation costs are not included in the conference fees.

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