

SMi present their 17th annual conference on...

Gas to Liquids

Millennium Gloucester Hotel, London, UK

29th & 30th
OCT
2014

Evaluating recent developments and market trends,
creating a common voice for the industry to progress...



EXPERT SPEAKER PANEL INCLUDES:

- **Gareth Coetzee**, GTL Evaluations Manager, **PetroSA**
- **Roger Williams**, CEO, **Energy Security Partners**
- **Neville Hargreaves**, Business Development Director, **Velocys**
- **Arata Nakamura**, Senior Coordinator, Technical Planning & Coordination Unit, Technical Division, **INPEX Corporation**
- **Mitch Hindman**, Licensing Manager, **ExxonMobil Research & Engineering**
- **Paul Langston**, Business Development Manager, Licensing and Projects, Conversion Technology Centre, **BP**
- **Ramon Gonzalez**, Program Director, Advanced Research Projects Agency- Energy, **U.S. Department of Energy**
- **Jorge Castaneda**, Principal Consultant, EMEA, **Independent Project Analysis (IPA)**
- **Don Pierson**, Business Development Director, **Louisiana Economic Development**
- **Robert Clews**, Head of Oil and Gas Petrochemicals, Project Finance, **SMBC Europe Division**
- **Robert T. Do**, CEO and President, **Solena Fuels**
- **Jeffrey Newton**, President, **Aleph Sciences Group**
- **Zoe Young**, Principal Consultant, **Gaffney, Cline & Associates**

WHY ATTEND THIS EVENT:

- Hear from the **leading large and small scale GTL projects across the globe**
- Discuss methods and strategies on how to **finance your GTL project**
- Understand the fundamental characteristics of **what makes a successful project**
- Network with the **leading technology providers**
- Discover the routes to **market for a variety of GTL products**

Image 'Velocys pilot plant' courtesy of Velocys

PLUS AN INTERACTIVE HALF-DAY PRE-CONFERENCE WORKSHOP • TUESDAY 28TH OCTOBER

Successfully exploiting Gas-to-Liquids opportunities

Presented by: **Alex Forbes**, Director, **Forbes Communications Limited**

1.30pm – 5.00pm

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8.30 Registration & Coffee

9.00 Chairman's Opening Remarks
Alex Forbes, Director, **Forbes Communications**

LARGE SCALE GTL

9.10 PetroSA's GTL activities

- Current GTL commercialisation strategy
- GTL projects from 2000 -2014
- Mosselbay GTL sustainability
- Mozambique GTL (MozGTL)
- Shale gas potential

Gareth Coetzee, GTL Evaluations Manager, **PetroSA**

9.50 Application of JAPAN-GTL Process for Gas Monetization

- JAPAN-GTL Process – Japanese Original Gas To Liquids Technology
- Opportunity of GTL for Gas Monetization
- Synergy between GTL and LNG
- Case Study

Arata Nakamura, Senior Coordinator, Technical Planning & Coordination Unit, Technical Division, **INPEX Corporation**

10.30 Morning Coffee - Sponsorship Opportunities Available

11.00 Producing a compelling proposition for GTL - A look through the key components of a GTL project, difficulties faced and best approach

- Sasol at a glance
- GTL value proposition - Turning concepts into investment decisions
- Technology risks - What are they and how can we overcome them?
- Getting your product to market - Opportunities available

Mark Schnell, Director New Business Development, **Sasol North America***

11.40 GTL Americas – Developing a large-scale independent GTL project in the U.S.

- Goal of project financing dominates decision-making
- Technology integration, scale and risk management determine bankability
- Logistics (location, infrastructure, workforce) decide feasibility
- Ability to manage GTL spread drives investor returns

Roger Williams, CEO, **Energy Security Partners**

12.20 Networking Lunch - Sponsorship Opportunities Available

TECHNOLOGY INNOVATION

13.40 Recent Developments in the BP / JM Davy Fixed Bed Fischer-Tropsch Process

- New GTL technology developments in BP and JM Davy
- Risk management in the deployment of GTL technology
- A licensor's perspective on the GTL market

Paul Langston, Business Development Manager, Licensing and Projects, Conversion Technology Centre, **BP**

14.20 MTG Technology, An Alternative for Gas to Liquid Fuel Conversion

- Organic feedstock Conversion to Liquid Fuels
- EMRE Methanol to Gasoline (MTG) Technology
- Commercial Experience and New Projects
- Key Project Considerations
- EMRE MTG Licensing

Mitch Hindman, Licensing Manager, **ExxonMobil Research & Engineering**

15.00 Afternoon Tea - Sponsorship Opportunities Available

15.30 The rapid conversion of mixed energy and combustion gases, without preprocess separation, at low temperatures and pressures

- The G-44 Gas Conversion Process based on phonon drive p-type chemical semiconductors
- Processes mixtures of natural and acid gases
- Conversion of fossil fuel combustion gases
- Operates at low temperatures, <70°C and pressures, 1 to 4 atm
- Compounds generated: hydrocarbons, alcohols, ammonia, oxygenates, hydrogen
- Economic projections based on thermodynamic analysis of pilot test data

Jeffrey Newton, President, **Aleph Sciences Group**

16.30 Panel Discussion - Dos and don'ts of project development

Paul Langston, Business Development Manager, Licensing and Projects, Conversion Technology Centre, **BP**
Malcolm Wells, Director, **Malwell Corporate Projects**
Gareth Coetzee, GTL Evaluations Manager, **PetroSA**

17.30 Chairman's Closing Remarks and Close of Day One

Alex Forbes, Director, **Forbes Communications**

18.00 Networking Drinks Reception - Sponsoring Opportunities Available

Register online at: www.gas-to-liquids.co.uk • For

Want to know how you can get involved? Interested in promoting your services to this market?

Contact Jula Rotar, SMI Marketing on +44 (0) 207 827 6088, or email: jrotar@smi-online.co.uk

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8.30 Registration & Coffee

9.00 Chairman's Opening Remarks
Malcolm Wells, Director, Malwell Corporate Projects
Small Scale GTL

SMALL SCALE GTL

9.10 **Smaller Scale GTL: Projects, partnerships and opportunities**

- Large-scale economics at smaller scales
- GTL for the mainstream of the industry in upstream, midstream and downstream settings
- Our Joint Venture with Waste Management, NRG Energy and Ventech and other commercial projects and partners

Neville Hargreaves, Business Development Director, **Velocys**

9.50 **Bioconversion of natural gas to liquid fuels: a new GTL learning curve**

- Role of ARPA-E as a catalyst for energy innovation
- Opportunities and challenges for the bioconversion of natural gas to liquids

Ramon Gonzalez, Program Director, Advanced Research Projects Agency - Energy, **U.S. Department of Energy**

10.30 Morning Coffee - Sponsorship Opportunities Available

PROJECT FINANCE & MITIGATION

11.00 **GTL - Solving the finance challenge**

- Overview of project finance
- Commercial structures and risk analysis
- Project economics
- Sources of finance
- Financing terms and documentation

Robert Clews, Head of Oil and Gas Petrochemicals, Project Finance, **SMBC Europe Division**

11.40 **Business Risk Mitigation through Better Project Definition**

- Key Practices Driving Project Results
- Importance of Clear Business Objectives
- Value of Timely Scope Closure
- Addressing Technology and Contracting Strategies Risk

Jorge Castaneda, Principal Consultant, EMEA, **Independent Project Analysis (IPA)**

12.20 Networking Lunch - Sponsorship Opportunities Available

GTL ECONOMICS & PRODUCTS

1.30 **Opportunities for GTL - What are the key drivers for GTL projects - stranded gas monetisation, flared gas utilisation or production of high value liquid products slate?**

- GTL Products – matching the product slate to the project
 - High value product slate versus syncrude
 - The impact of project scale on product slate
 - Comparing GTL products versus the competition - is worthwhile differentiating GTL products versus the competition?
- Commercialising GTL products: Strategies for optimising product value (and maximising project value!)

Zoe Young, Principal Consultant, **Gaffney, Cline & Associates**

2.10 **GTL - great technology, rarely implemented**

- Drivers of the economics of GTL investments
- Global market trends in gas, crude oil and fuel products that will impact GTL decisions
- How capital costs and operating expenses affect returns
- Competitors to GTL

Edward Osterwald, Partner, **CEG Europe**

2.50 Afternoon Tea - Sponsorship Opportunities Available

3.20 **GreenSky London, a Solena Fuels project**

- Introduction to Solena Fuels
- Waste Biomass to FT
- Utilizing Solena's proprietary high-temperature gasification technology

Robert T. Do, CEO and President, **Solena Fuels**

4.00 **US Shale Gas Drives Historic Industrial Growth**

- Current US energy sector developments
- Economic impact and trends
- Potential barriers and challenges
- Dynamic future requires boosting work force training capacity

Don Pierson, Business Development Director, **Louisiana Economic Development**

4.40 **Chairman's Closing Remarks and Close of Day Two**
Malcolm Wells, Director, **Malwell Corporate Projects**

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Successfully exploiting Gas-to-Liquids opportunities

Presented by **Alex Forbes**, Director,
Forbes Communications Limited

Workshop overview

In markets where gas is cheap and oil is expensive – such as North America – or where strategic factors come into play, Gas-to-Liquids (GTL) technology can be used to convert methane molecules into high-value premium oil products, such as diesel and kerosene, and specialities such as waxes. The technology leaders Shell and Sasol have shown that GTL can be highly profitable, in projects such as Pearl and Oryx in Qatar, and other large-scale projects are planned. Meanwhile, several small-scale GTL processes are reaching commercialisation, extending the range of economic applications. This workshop will look at the technologies that are – or soon will be – available, the opportunities they present to monetise natural gas, and the challenges involved in implementing GTL projects and marketing their output.

Agenda

1.30 Registration & Coffee

2.00 Industry Overview

- Why the GTL spotlight has shifted away from the Middle East
- Comparing GTL with other gas monetisation options
- Overcoming the technical and economic challenges
- Existing and future projects

2.40 Technologies – Existing and New

- Playing "Lego" with molecules
- The product "slate"
- Emerging technologies
- Protecting intellectual property – and licensing

3.20 Afternoon Tea

3.50 GTL Economics – What makes a project viable?

- Case studies
- Implications of unconventional gas – and oil
- Is gas/oil price divergence sustainable?
- The economics of developing future GTL projects

4.20 Market opportunities and challenges

- Key markets – by product
- Key markets – by region
- Demonstration projects – past, present and future
- Maximising GTL revenues

**5.00 Discussion & Questions -
A review of the session**

About your workshop leader:

Alex Forbes, Director, **Forbes Communications Limited**

Independent energy journalist and consultant Alex Forbes has been reporting on energy developments and analysing trends for more than three decades. His expertise covers a wide range of energy issues – including oil, natural gas, electricity, policy, regulation and climate change. His specialisms include unconventional fossil fuels, liquefied natural gas (LNG) and gas-to-liquids (GTL).

In 2013, Alex received the annual award presented by the International Association for Energy Economics for Excellence in Written Journalism.

Alex travels frequently to attend, speak at and chair energy conferences, to conduct interviews with ministers and executives, to carry out consultancy assignments, and to visit major energy installations. Alex also takes on training assignments and conducts workshops and executive briefings.



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Aleph Sciences Group (ASG) is an energy technology development group based in Ithaca, New York and Calgary, Alberta. ASG has developed and pilot tested different and unconventional approaches to GTL and GTC scenarios as well the upgrading of heavy oils.

www.alephsciencesgroup.com



BP is one of the world's leading international oil and gas companies, providing its customers with fuel for transportation, energy for heat and light, retail services and petrochemicals products for everyday items.

BP has been actively developing Gas-To-Liquids (GTL) technology since 1981 and has invested over \$500 million to date. BP's Conversion Technology Centre pursues research and development for conversion of unconventional feedstocks, including renewables, into fuels and petrochemicals.

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GAS TO LIQUIDS 2014

Conference: Wednesday 29th & Thursday 30th October 2014, Millennium Gloucester Hotel, London, UK Workshop: Tuesday 28th October 2014, London

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