...the use of GTL for chemical and energy production is envisaged to make a rapid advance in the next few years as even more stringent environmental legislation is enforced. GTL will offer both petroleum refiners and automakers flexibility to meet international agreements.

*Ed Gobina, BCC*

**SMi 5th annual conference**

**Gas to Liquids V**


A unique opportunity to learn from leading energy policy makers including:

- Ken Gibbons, Director, Association of British Oil Industries (ABOI)
- Alexandre Rojey, Director Natural Gas, Institut Français Du Pétrole

Gain an insight from the leading industry experts including:

- Patrick Butcher, Business Venture Manager, Sasol Chevron
- W John Hutton, Business Development Manager, Syntroleum Corporation, Tulsa
- Ray Brooks, Special Projects Adviser, Premier Oil
- Theo Fleisch, Senior Advisor, BP
- Jim Kimble, Senior Research Associate, Phillips Petroleum
- Simon Clarke, Manager Gas to Market Technology, Foster Wheeler Energy
- Steve Worley, Chairman, Worley Engineers Group
- Dr. Roberto Cimino, Project Manager, ENI

Benefits of Attending

1. **IDENTIFY** the key gas to liquids issues in the current economic climate
2. **DISCOVER** major areas of gas reserves, exploration and production
3. **REVIEW** the commercial impact of various GTL technologies
4. **LEARN** how to reduce the costs of GTL transportation and production
5. **KEEP** abreast of the latest GTL research and advancements
6. **ASSESS** the role of GTL as an enabling technology for the production of high-quality clean transportation fuels and chemicals

**PLUS A HALF DAY EXECUTIVE BRIEFING**

**Workshop in the Application of Holistic Risk Management to the Gas To Liquids Industry**

In association with **DBA Risk Management**


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Day One
11th September 2002

8.30 Registration & Coffee

9.00 Chairman’s Opening Remarks
Rodney Pitt, Editor, European Fuels News

GTL ON THE GLOBAL SCALE
9.10 Gas-To-Liquids – An Idea Whose Time Has Come

- Why GTL technology is moving inexorably towards commercial viability
- How advances in technology are making GTL a commercial proposition
- Natural gas as a "bridge fuel" to the zero-carbon energy economy
- Why society will need to monetise remote and stranded gas reserves
- Political pressures to develop environmentally acceptable transportation fuels
- A growing list of proposed projects – but we have yet to see a truly commercial plant begin operation
Alex Forbes, Editor, Gas Matters

GTL projects on the global scale
9.40

- Sources of feedstocks
- Stranded gas opportunities
- Oil deficient/gas rich locations
- Oil rich/gas deficient locations
- Markets and distribution
- Economic/trading issues
Ken Gibbons, Director, Association of British Oil Industries ABOI

PERFORMANCE AND PROPERTIES OF THE DIESEL PRODUCT: SHELL EXPERIENCE
10.20 Development of existing and new projects

- A commercial scale GTL plant
- A case study: Bintulu GTL production plant in Malaysia
- Building a "world-scale" GTL plant
- SMDS diesel: ways of usage and benefits
- Environmental issues
- Looking forward to a brighter future: new strategies and projects SMDS, Shell

11.00 Morning Coffee

GTL: THE ENI – IFP VENTURE
11.20 Co-operation of IFP and ENI on GTL project

- The newest cost-competitive alternative
- Background
- Project main features
- Development work
- Industrial and commercial policy
- Economic benefits
- Future outlook
Alexandre Rojey, Director for Natural Gas, Institut Français Du Pétrole IFP
Dr. Roberto Cimino, Project Manager, ENI

A NEW DIMENSION IN GTL TECHNOLOGY
12.00 NTGG technology development

- Project development perspective
- Future prospects and strategies
Ranjan Ghosh, General Manager, Gas Authority of India GAIL
Ravi Agarwal, Manager, Planning and Projects Development, Gas Authority of India GAIL

12.40 Lunch

GTL SPECIALTIES – HIGH VALUE THREAT OR OPPORTUNITY
1.40 Why the renewed interest in GTL?

- What will GTL basestocks compete with?
- How big will the potential market be?
- What are some of the GTL cost considerations?
- Who will have it?
- Who might need it?
- What does this all mean to the industry?
Geeta S. Agashe, Business Development Director, Petroleum and Energy Practice, Kline & Company USA
William R. Downey, Vice President, Head of Petroleum and Energy Practice, Kline & Company USA

2.20 Sasol Chevron experience

- The role of GTL in the future fuel mix
- The role of Sasol Chevron in delivering GTL
Patrick Butcher, Business Venture Manager, Sasol Chevron

3.00 Update on Alaska test facility

- GTL product values
- GTP greenhouse gas emissions
- GTL economic viability
Theo Fleisch, Senior Advisor, BP

3.40 Afternoon Tea

GTL FACILITY TECHNOLOGIES
4.00 A stand alone GTL plant

- Engineering design
- Local infrastructure integration
- Start up and shut down issues
- Contracting and construction
- Practical problems from an actual design
Simon Clarke, Manager Gas to Market Technology, Foster Wheeler Energy

4.40 The banker’s view

- GTL technologies
- Banker’s view of technology risk
- GTL Project financing
Hurbinder Mudan, Associate General Manager, Head of Oil, Gas & Petrochemicals, Project Finance Department, Sumitomo Mitsui Banking Corporation

5.20 Chairman’s Closing Remarks and Close of Day One

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### Day Two

12th September 2002

#### HALF DAY EXECUTIVE BRIEFING

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9.00</td>
<td>Chairman's Opening Remarks&lt;br&gt;Robert Gough, Editorial Director, Harts Gas to Liquids News</td>
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<tr>
<td>9.40</td>
<td>Research issues&lt;br&gt;- GTL the Current Picture&lt;br&gt;- Capital Cost Analysis&lt;br&gt;- The Future of GTL&lt;br&gt;- New Direct Oxidation Technology&lt;br&gt;- Gas Phase Catalyst&lt;br&gt;<strong>Professor Robert Amin</strong>, Chairman, Woodside Research Foundation, Curtin University of Technology</td>
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<tr>
<td>10.00</td>
<td>Morning Coffee</td>
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<tr>
<td>10.20</td>
<td>A user’s perspective&lt;br&gt;- Phillips Petroleum - a large petroleum company without GTL technology&lt;br&gt;- Issues arising for the characteristics of natural gas as a feedstock&lt;br&gt;- Global commercialisation opportunities&lt;br&gt;- Available technology and technology issues&lt;br&gt;- Technology needs&lt;br&gt;- Technology trends&lt;br&gt;<strong>Jim Kimble</strong>, Senior Research Associate, Phillips Petroleum</td>
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<tr>
<td>11.00</td>
<td>Lunch</td>
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<tr>
<td>11.20</td>
<td>Transportation of GTL products through the Trans-Alaska pipeline system (TAPS) from Alaska North Slope to markets&lt;br&gt;- Modes of GTL transportation through TAPS&lt;br&gt;- Design tests for evaluating GTL transportation modes&lt;br&gt;- Flow modelling and related issues and challenges&lt;br&gt;- Economic analysis and assessment of the transportation modes&lt;br&gt;<strong>Dr. Godwin A. Chukwu</strong>, Professor and Chair, Department of Petroleum Engineering, University of Alaska Fairbanks</td>
</tr>
</tbody>
</table>

#### ULTRA-CLEAN FUELS FOR A CLEANER ENVIRONMENT

12.00 | Syntroleum Corporation GTL technology
---|---
- Impact of EPA Regulations on diesel fuels, clean fuel environment
- What does a GTL fuel actually deliver in terms of performance and emissions?
- GTL as response to possible future shortages of crude oil supply
- GTL growth scenario
- Multiple roles of GTL
**W John Hutton**, Business Development Manager, Syntroleum Corporation Tulsa

12.40 | Lunch

#### WORLEY ENGINEERS’ EXPERIENCES IN GAS TO LIQUIDS PRODUCTION PLANNING

2.00 | Processing considerations for offshore vs. onshore
---|---
- Product selection considerations
- Product finishing considerations
- Selection of oxygen source
- Ideal circumstances for offshore plants
**Steve Worley**, Chairman, Worley Engineers Group

3.20 | Afternoon Tea

#### GTL POTENTIAL AND ISSUES FOR THE INDEPENDENT E & P COMPANY

3.40 | GTL technology on a smaller scale
---|---
- Gas cost/price
- Technology vs. terrain
- Infrastructure issues
- Host country taxation
- Product markets
**Ray Brooks**, Special Projects Adviser, Premier Oil

4.20 | GTL in a Marine Floating Environment
---|---
- Engineering challenges
- Commercial and business factors
- Recent activity
- Future developments
**Ernie Lamza**, Technology Director, PGS Production

5.00 | Chairman’s Closing Remarks and Close of Conference

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### Workshop in the Application of Holistic Risk Management to the Gas To Liquids Industry

13th September 2002, The Hatton, London,

In association with DBA Risk Management

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8.30</td>
<td>Registration &amp; Coffee</td>
</tr>
<tr>
<td>9.00</td>
<td>Introduction&lt;br&gt;- Understanding Risks&lt;br&gt;- Identifying the upside aspects of holistic risks</td>
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<tr>
<td>10.00</td>
<td>Morning coffee</td>
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<tr>
<td>10.45</td>
<td>Methodology of holistic risks&lt;br&gt;- Developing a risk approach&lt;br&gt;- Role of the risk analysis</td>
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<tr>
<td>11:30</td>
<td>Applying risk management techniques: work in-groups&lt;br&gt;- Structured presentations&lt;br&gt;- Utilising the models available&lt;br&gt;- Applying the models to GTL industry</td>
</tr>
<tr>
<td>12:15</td>
<td>Conclusions from individual presentations</td>
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<tr>
<td>12:30</td>
<td>Discussion and questions – review of the session</td>
</tr>
<tr>
<td>1:00</td>
<td>Close of workshop</td>
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</tbody>
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About your workshop leaders:

Charles Bradley, Managing Director, DBA Risk Management

Graduated with an honours degree in Chemical Engineering from the University of the South Bank and went on to complete his doctorate in Chemical Engineering/Computing, under Contract to the Health and Safety Executive in 1984. He is Managing Director of DBA Risk Management Ltd. His specialist fields include Risk Management, Quantitative Risk Assessment, Reliability Engineering and Insurance Surveys of Refineries and Petrochemical Plants both on-shore and off-shore. He has developed mathematical models and written computer programmes for the citing of major high risk installations. His clients include major UK and International Oil and Gas Companies, Engineering and Manufacturing Companies and Port Authorities.

He has lectured widely in subjects ranging from Engineering, Science, Computing to Finance and Investment and Business Studies. He has published widely in both International Journals and at International Conferences. He is a member of the British Safety and Reliability Society and a consultant to the International Safety Council providing specialist material targeted at Safety, Health and the Environment.

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