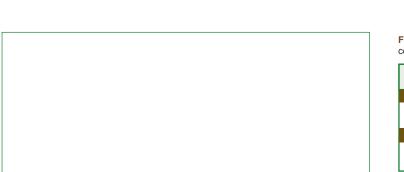
# REGISTRATION





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#### **CONFERENCE VENUE**

CMT has arranged special discounted room rate at QR 1045+17% (Standard Single / Double) per room per night excluding breakfast (subject to room & rate availability) for delegates at Doha Marriott Hotel. Daily Buffet Breakfast available at QR 86 +17% per pax. Please reserve your room with the hotel directly, providing full credit card number and expiry date to:

Minelli De Kretser, Sales Manager, Doha Marriott Hotel

PO Box 1911, Doha, Qatar

Phone: 974 429 8808 Fax: 974 429 8804 Email: minelli.dekretser@marriotthotels.com

Reservation cut off date: 15th Jan 2008

SINGAPORE







Fees: The full Registration Fee includes cost of all sessions, luncheon. coffee/tea & documentation.

1 Person	Group fee for 3 or more* (from the same company)	
Conference Fee		
EUR1,795	EUR1,595 (MIN SAVINGS OF EUR600)	
Conference & Workshop Fee		
EUR2,495	EUR2,295 (MIN SAVINGS OF EUR600)	

Online:

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Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

**TO REGISTER** 

www.gtltec.com cynthia@cmtsp.com.sg (65) 6345 5928 (65) 6346 9132	
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TT must include additional EUR18 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

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7th Annual Gas-to-Liquids Technology &

Commercialization Conference & Exhibition





Pre-Conference

FISCHER-TROPSCH Workshop

17 FEB 08'

Sasol Technology

Shell Global Solutions

Argonne Laboratory

Umicore AG & Co KG

Rohde & Liesenfeld Qatar

Technologies

Eni S.P.A

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Air Products

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Veolia Water Solutions &

Corporation of South Africa (Proprietary) Limited, known as PetroSA, is South Africa's national oil company. It owns, operates and manages the South African government's commercial assets in the petroleum industry, excluding pipelines. The merged company has been in existence since January 2002, and is registered as a commercial, non-listed entity under South African law.

**PetroSA** 

The Petroleum Oil and Gas

The PetroSA group comprises a number of subsidiaries, joint ventures and associated entities operating globally. Its activities extend along the value chain of the petroleum, oil, gas and petrochemical sectors. It is involved in oil and gas exploration and production, and the production and marketing of synthetic fuels and petrochemicals. PetroSA manages the

PetroSA is a pioneer in the field of gas-to-liquids (GTL) technology, recognised around the world for producing the cleanest fuels through an environmentallyfriendly process, with minimal emissions. PetroSA built and operated the world's largest commercial GTL plant at Mossel Bay. Western Cape, for rourteen years. The plant produces synthetic fuels and high value products converted

from natural methane-rich

gas and condensate using a unique GTL Fischer Tropsch technology.

The Petroleum Oil and Gas **Corporation of South Africa** 

Proprietary) Limited

PLATINUM SPONSOR

The company is also a world leader in new GTL technology development. Together with joint-venture partners StatoilHvdro.(the Norwegian national oil company) and engineering company Lurgi (Germany). it is demonstrating new cobalt based Low Temperature Fischer Tropsch technology at a semi-commercial plant in Mossel Bay.

PetroSA has marketing operations in the United States, Europe, the Middle and Far East that supply petrochemicals to customers in more than 40 countries. Customers include major oil companies, chemical distributors and drilling fluid manufacturers.

strategic crude inventory and tankage in Saldanha and Milnerton on behalf of the State, in terms of a service level agreement with the Strategic Fuel Fund. PetroSA plans to diversify into other associated petroleum industry activities such as gas development and associated infrastructure and services. GTL technology commercialisation, and downstream marketing. The organisation's headquarters

are in Cape Town.



Sasol Limited is an innovative and competitive global energy company. Headquartered in Johannesburg, South Africa it is engaged in the commercial production and marketing of chemicals and liquid fuels; with a growing interest in oil and gas exploration.

## **Promoting GTL technology**

Through Sasol Synfuels International and Sasol Chevron, the group is promoting the development of GTL plants in select gas-rich regions of the world using its proprietary Sasol Slurry Phase Distillate™ (Sasol SPD™) process. The first such international GTL plant is the ORYX GTL venture at Ras Laffan, Qatar, in partnership with Qatar Petroleum.

## Bringing more than 50 years' experience

Sasol brings to Qatar and the world more than 50 years of operational experience and innovation in synthetic fuel production. The group is renowned for both its low-temperature and high-temperature processes in South Africa, both of which can convert either natural gas or coal into value-added liquid fuels and chemical feedstocks.

Sasol is committed to sustainable development and is a signatory of Responsible Care®, a worldwide initiative by the chemical industry that strives to improve performance in safety, health and environment



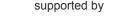
Sasol

**PetroSA** 



>>98 - 19 FEB 08'

Doha Marriott Hotel





**Pearl GTL** 

Oryx GTL

PetroSA

GTL.F1.

Velocys

Ventech

StatoilHydro

SasolChevron

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pars Oil & Gas Institute



Held under the Patronage of H.E. Abdullah Bin Hamad Al-Attivah Second Deputy Prime Minister Minister of Energy & Industry Qatar Petroleum Chairman

## JOIN US IN DOHA FOR THE BIGGEST GTL EVENT OF THE YEAR!

An impressive line up of authoritative speakers to give you the real global picture of GTL developments, technologies & the future of the industry

Why you NEED to attend GTLtec DOHA 2008.

# **Key highlights of the conference**

Bringing together the major players in Qatar to discuss on the recent developments and progress on their

In the latest developments Sasol claims to have substantially overcome the technical problems afflicting its high-profile Oryx GTL joint venture and announced that the plant will hit full capacity by 2008. Has the problems which was estimated to cost 50 mn to fix, deter Sasol's aspiration to apply the GTL technology elsewhere? As the world watches on Oryx performance will this high-profile project become the shop window for the gas-to-liquids industry?

Meanwhile, construction of the 140,000 barrels-per-day Pearl GTL project is on schedule and expected to start up by the end of the decade, according to Shell. This incredible project will employ 35,000 workers during the construction phase. At what stage is this GTL project now? How will Shell expect to see a return on investment?

Commitment of other global players and recent breakthroughs in GTL Technology - GTLF1, PetroSa, StatoilHydro, ENI.

What & where are the other major GTL projects that are coming up? What is the plan of the major oil & gas companies to invest in GTL over the next 20 years? Which countries are highest probabilities for allowing GTL projects to be completed on their soil? Perspective from Iran, Trinidad & Tobago, Australia, Papua New Guinea

## Future of financing for GTL projects

Project costs are affecting the whole industry, not just GTL but also refining, LNG, petrochemicals. With the credit squeeze, what is the views from international bankers regarding how they feel about GTL

"GTLtec is The key event for all serious GTL players 11 Dr. Rolf Ødegård, Manager Business

GTL trends - interest in Small to Mid Sized GTL applications.

With the surge in domestic gas projects from LNG, pipeline to building a fleet of gas-fired power stations this has led to rising concerns on the gas supply issues for the GTL projects in Qatar. Where else will we see development of major field's like the Qatar North Field, or is it really time for smaller remote locations that many have been posturing

#### Driving GTL Costs down

An interesting concept in these cost conscious times is to buy equipment at scrap value and relocate/re-engineer as Ventech is doing for World GTL. Would this be an ideal solution? Will it set the the precedent for developing other small & remote GTL production

## Carbon Efficient GTL processes

The energy and carbon efficiencies of GTL remains a technical challenge. Sasol Technologies will share with us next generation technologies that will see improvements in carbon efficient GTL processes. Argonne Laboratory will give a comparative analysis of the greenhouse gas emissions from the production and use of GTL, CTL & BTL.

Challenges in management of waste process water and recycling of industrial effluents from the Pearl GTL

Register NOW online @ www.gtltec.com. Abundant Networking Opportunities! Meet the key decision makers in the industry.

Letter from the Workshop Leader

The interest in the conversion of syngar (from different carbon sources) to liquid fuels is still in the increase.

New plants under construction like

Shell's Pearl GTL projects (fixed bed reactor, targeting a total of 140 000 bpd) and Sasol Chevron Escravos GTL project (slurry bed reactor, targeting a total of 34 000 ppd) are using their more advanced catalyst and reactor technologies.

On the other hand, now more than ever new synfuels companies are emerging targeting medium and small size plants An example of one of such projects, and currently under construction is the 2 250 barrels per day World GTL Trinida Ltd project in Trinidad, based on fixed bed reactor technology.

This year workshop will try to address topical issues for both large and small size plants, such as the technology available for small companies and whether there is a difference in the technological approach as a function of the plant size, potential problems during the start-up period and differences in th development of catalysts for both fixed and slurry bed reactors. Because of the fact that more capacity is currently being developed for fixed rather than for slurry bed reactors, this year worksho will have more fixed bed reactors content that last year's one.

In this way, we expect to provide some clarity about the different options available for this technology and to contribute towards its successful development and implementation.

I look forward to meeting you at this

Rafael Espinoza

Pre-Conference - 17 Feb 08' **FISCHER-TROPSCH Workshop** 

PROGRAM

#### BRIEF INTRODUCTION TO FISCHER-TROPSCH This section is oriented to the delegates that are not directly involved

in the technical aspects of the conversion of syngas to liquid fuels. It will be a 90 minutes session dealing with aspects such as typical Fischer-Tropsch catalysts, selectivity of the primary Fischer-Tropsch products, reactors (including cooling and catalyst/wax separation, when applicable), hydrotreating, hydrocracking (including selectivities) and final product properties.

#### FUTURE GTL (or CTL, BTL) PLANTS CAPACITY Medium and small size capacity plants as compared to the current large plants approach. Is there room for smaller plants?

- Is there Fischer-Tropsch technology available for emerging GTL/ CTL/BTL small companies?
- Technological approach for small projects as compared to large ones. Possible differences between them.

#### DESIGN RELIABILITY OF THE FISCHER-TROPSCH SECTION & CAPITAL INVESTMENT Identification of the main technological challenges to meet the plant

- design productivity in a short time. Potential problems during the reactors start-up and shut-down Slurry and fixed bed reactors
- Unplanned shutdowns: Slurry and fixed bed reactors
- Primary and secondary catalyst/wax separation for Slurry Bed
- Other potential technological problems

The purpose of this discussion is to identify whether these potential problems can be avoided or minimized by means of e.g. more robust or redundant designs and the effect on the overall investment and project

#### FIXED VERSUS SLURRY BED REACTORS

An updated comparison for the two reactors.

- Effect of the plant capacity on the selection of the Fischer-Tropsch
- Technological risks for both approaches

## DEVELOPMENT OF CATALYSTS FOR FIXED AND SLURRY BED REACTORS

How the approach is different for these two catalysts and the constraints and degrees of freedom for both.

- Effect of the catalyst particle size (mm for fixed bed vs um for
- Influence of the reactor heat transfer characteristics on the
- Desired catalyst properties for both reactors

The participants will have the opportunity to suggest topics for discussion within the main categories. A form will be distributed for this purpose during registration

Dr Rafael L Espinoza



Dr Espinoza has bee He was director of

ponsible for the technical developmen f the FT and Hydroprocessing nnologies, including catalyst elopment and preparation scale-up deling, process development, reacto hnology and products. At Sasol (1986-2000), he had the position of Sasol Research Fellow, Manager of Basic Catalysis Research and Section

Leader for high and low temperature F T (coordinator 1986-1989), commercial designs for new FT plants, optimization of the configuration of the Sasol plant in Sasolburg, etc. Dr Espinoza was also Sr. Chief Research

Officer at CSIR in South Africa where he worked on catalyst development in the fields of acid catalysis, supported transition metals and F

He has numerous refereed papers and nsulting company (RafaelEspinoza.com

Or Espinoza will be assisted by Philip

Phillip Gibson



f Fischer-Tropsch Catalysis Research at the Sasol Technology Research & Developme rison in South Africa

was a Visiting Scientist at the Institute for Technical & Petroleum Chemistry, Aacher Germany 1994/95

His Career Focus Areas are: catalyst for CTL application in Sasolbur Development of Co-based slurry phase catalyst for global GTL application

Development of novel Fe-based catalys

Day 1

Monday, 18th February 2008

8:00 Registration

9:00 Minister's Opening Address H.E Abdullah bin Hamad Al-Attiyah, Deputy Premier, Minister of Energy & Industry, Chairman of Qatar Petroleum

9:20 Coffee Break AN UPDATE ON THE PERFORMANCE

> OF ORYX Senior Representative Orvx GTL

SASOLCHEVRON – BUILDING FROM THE START Pat Butcher, Country Manager

SasolChevron TRANSFERING BINTULU'S

OPERATIONAL COMMERCIAL SUCCESS TO OATAR Lars Carlsson, GM for Assets Pearl GTL

Malcolm Wells. Communications Manager Sasol Chevron

The Qatar Panel Discussion

LOGISTICS SUPPORT FOR OATAR'S GTL INDUSTRY Philipp Luehrs, CEO Rohde & Liesenfeld Qatar

StatoilHvdro International Business

GROWTH THROUGH PARTNERSHIP Jörn Falbe. Vice President New Ventures Midstream PetroSA

12:40 GTL A KEY ELEMENT IN STATOILHYDRO'S GAS CHAIN **DEVELOPMENTS** Dr. Rolf Ødegård, Manager Business Development GTL

Development

PROJECTS Jeff McDaniel, Vice President Velocys GTL VIA RELOCATED FACILITIES & MODULARIZATION Kevin Stanley. President Ventech GTL – A POTENTIAL FUTURE DIRECTION IN WESTERN AUSTRALIA Senior Representative Dept of Industry & Resources Discussion followed by Tea GAS DEVELOPMENT PLANS FOR PAPUA NEW GUINEA Peter Kogl, Assistant Director - Petroleum Engineering Department of Petroleum and Energy. Papua New Guinea IRAN GAS MONETISATION PLANS AND GTL OPPORTUNITIES Dr. Kambiz Sadaghiani, President

Petropars Oil & Gas Institute

Discussion followed by Lunch

Chairman: Alex Forbes

DEMONSTRATION

**Forbes Communications** 

SUCCESSFUL LARGE SCALE

Matthias Wagner, Managing Director

Round Table Discussion of Bankers

Oil. Gas & Petrochemical.

Royal Bank of Scotland

Resources Project Finance

SMALLTO MID-SIZED GTL

**SMBC Europe Limited** 

FISCHER-TROPSCHTECHNOLOGY

FUTURE OF FINANCING FOR GTL

PROJECTS – Round table discussion

Tom Hardy. Head of Project Finance.

Robert Clews, Head of Oil, Gas and

Petrochemicals, Energy & Natural

OFFSHORE APPLICATIONS FOR

Will we see development of major fields, like Qatar's North field, elsewhere, or is it really time for the smaller remote locations that many have been posturing to develop? 6:45 Final Discussion. Close of Day 1 1900 - 2000 hrs. Networking Reception Day 2 Tuesday, 19th February 2008

DEVELOPMENTS

Panel Discussion

Imtiaz Ali, General Manager

Strategy & Business Development

What's next for GTL? Where is the gas?

TRINIDAD & TOBAGO GTL PROJECT 11:10

9:00 Chairman's Remarks 9:10 GASTO LIQUIDS AND THE EMERGING CONVERSION BUSINESS David Robertson, Technology VP Conversion Technology Centre CARBON EFFICIENT GTL CONVERSION PROCESS – THE NEXT GENERATION GTLTECHNOLOGY Andre Stevnberg, GTL Technology Manager Sasol Technology 10:10 Discussion followed by Coffee

Joint Presentation by Philippe Valerio, Sales & Technical Director **Veolia Water Solutions & Technologies** Niels Fabricius, General Manager XTL Technology **Shell Global Solutions** 

PEARL GTL

GHG STUDY ON GTL, CTL & BTL A COMPARATIVE ANALYSIS Dr. Michael Wang, Section Manager & Vehicle & Fuel Systems Analyst **Argonne Laboratory** 

MANAGEMENT OF WATER

RESOURCES & RECYCLING FOR

MECHANICALLY STABLE CATALYST FOR SCALE UP OF FT REACTION Robert Zennaro Exploration & Production Division Eni S.P.A

Discussion followed by Lunch

CATALYST RECYCLING - GIVING EXTRA VALUES AND INCREASING PLANNING RELIABILITY

Andreas Brumby, Knowledge Management

Umicore AG & Co KG

BENEFITS OF HIGH THROUGHPUT SCREENING FOR GAS-TO-LIOUID CATALYST RESEARCH Dr Peter Mangnus, VP

**Business Development Chemicals** Avantium

> GTL CATALYST MARKET 8 TECHNOLOGY DEVELOPMENTS Senior Representative

Albemarle CONTINUED DEVELOPMENTS IN

LARGE SCALE OXYGEN SUPPLY FOR XTL PROJECTS Richard Boocock, Vice President Tonnage Gases - Europe & Middle East

Air Products USING CARBON FINANCE TO

CONVERT BIOGASTO POWER AT PETROSA'S GTL PLANTS Johan van der Berg, Director Climate Change & Carbon Finance

TO GTL CONSUMERS WSP Energy UK/South Africa

Malcolm Wells

4:30 Final Discussion. End of Conference

BRINGING THE MESSAGE ACROSS

Program topics, speakers and schedules published herein are confirmed as at printing time. Please refer to the event's timetable page at www.cmtevents.com for the most up-to-date information