



# Coking & Gasification

Improving performance, reliability and profitability



20-21  
APRIL  
2010

CORINTHIA HOTEL  
PRAGUE

## KEY HIGHLIGHTS

- Developing the right project criteria
- Innovative applications of delayed coking
- Gasification processes to meet demand for hydrogen, electricity and steam production
- Refinery upgrading strategies
- The latest in biomass gasification technology

### This year's Advisory Board members are:

- Michael Schindler, OMV
- Piotr Sputo, GRUPA LOTOS
- Claudio Allevi, SARAS
- Bela Kelemen, MOL

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The 4th ERTC Coking & Gasification Conference covers innovative and evolving technologies in a forum that encourages the exchange of information between delegates. It is the industry-leading event for cokers and gasifiers to discuss solutions to key challenges and how to improve profitability.

## Focus on how to improve performance and reliability

We will look at how configurations can be improved to reduce unit cost. Find out about bottom and top coke drum unheating technologies that are safe, reliable and profitable. Understand your customers needs by examining which by-products from syngas are commercially successful. Environmental concerns will be addressed through examining efficient ways to process renewable feedstocks in your refineries, biomass gasification, and find out how small organisms such as algae can enable the production of replacement fuels for petroleum.

To maintain the high standards of our technical sessions, we have appointed senior people in the industry to our board of advisors. They are your guarantee that each paper delivers genuinely fresh thinking on the innovations and new technologies that will drive this industry. The board members are: Michael Schindler, OMV; Piotr Sputo, GRUPA LOTOS; Claudio Allevi, SARAS; Bela Kelemen, MOL.

### 10 reasons to attend

- Discuss how to develop the right project criteria
- Gain first-hand insights into upgrading strategies
- Discover how you can use the delayed coker to co-process biomass with conventional residues
- Understand the different products from syngas and their commercial applications
- Discover the latest in delayed coking unit design
- Learn cost-effective solutions to support your operations
- Case-studies will enable you to benchmark against the industry
- Get feedback from other gasifiers and cokers on their operating performances
- Participate in a panel discussion that addresses key challenges in the coking and gasification market
- Network with your peers, licensors and service providers



### Who should attend?

- Asset Managers
- Operations Personnel
- Refining and Petrochemical Management
- Refining and Technology Management
- Engineering, Catalyst and Chemical Companies
- Contractors
- Industry Consultants and Analysts
- Maintenance Managers/Staff
- Planning, Scheduling and Economics Personnel
- Process Licensors
- Strategic Planners

DAY 1 20th APRIL 2010	
08.30	Registration
09.00	Welcome remarks
09.10	<b>Future of petroleum coke from a global perspective</b> JACOBS CONSULTANCY
09.50	<b>Gasification to meet refinery hydrogen, electricity and steam demands: availability vs costs</b> <ul style="list-style-type: none"> <li>Evaluating how flexible the gasification plant may be to meet fluctuations in refinery demands for hydrogen, steam and electricity</li> <li>Presenting the results of the availability study performed by Foster Wheeler, aimed at assessing availability of the three products to the refinery via different gasification plant configurations</li> </ul> <b>FOSTER WHEELER</b>
10.30	Coffee break and opportunity to visit the exhibition
11.00	<b>Shell gasification technology – part of refinery upgrading strategies</b> <ul style="list-style-type: none"> <li>Designed for low oxygen consumption and generation of high amount of CO and H<sub>2</sub></li> <li>Shell's experience with gasification as plant operator, different refinery residues processed with Shell's technology</li> <li>Analysing important integration criteria and different refinery upgrading schemes</li> </ul> <b>SHELL</b>
11.40	<b>Cost effective solutions to support your operations</b> <ul style="list-style-type: none"> <li>Need for innovation to optimise costs and operations</li> <li>DC – top and bottom unheating technology</li> </ul> <b>ZIMMERMANN &amp; JANSEN</b>
12.20	Lunch and opportunity to visit the exhibition
13.30	<b>Design and start-up of state-of-the-art delayed cokers</b> <ul style="list-style-type: none"> <li>Cost effective project execution approaches</li> <li>BP Whiting Refining delayed coking unit is being constructed on a totally modular basis</li> <li>Evaluating issues associated with the design and construction of modern delayed coking units</li> </ul> <b>FOSTER WHEELER</b>
14.10	<b>Developing the right project criteria</b> Speaker to be confirmed, please visit website for updates
14.50	Coffee break and opportunity to visit the exhibition
15.20	<b>Application of Cetek's matrix coating system to coker heaters</b> <ul style="list-style-type: none"> <li>Improves the uniformity of the heat flux distribution</li> <li>Reduces the peak to average flux ratio in process tubes of single fired heaters</li> <li>Reduces the maximum tube skin temperature, increases run length and charge rate</li> </ul> <b>FOSBEL</b>
16.00	<b>Panel discussion</b> <b>Overcoming coking and gasification challenges in today's market</b> Speakers from the day will gather to answer your questions
16.40	End of day one
17.00	<b>Cocktail reception</b>

DAY 2 21st APRIL 2010	
08.30	Registration
09.00	Welcome remarks
09.10	<b>Transforming sunlight into fuel for the world</b> PETROALGAE
09.50	<b>Integration/synergy between coking and gasification</b> Speaker to be confirmed, please visit website for updates
10.30	<b>Processing biomass in refineries to produce green diesel</b> <ul style="list-style-type: none"> <li>Efficient ways to process renewable feedstocks in your refineries</li> <li>Production of green diesel utilizing existing refining technology with minimal changes to current operations</li> <li>Utilising the delayed coker to co-process biomass with conventional residues</li> </ul> <b>FOSTER WHEELER</b>
11.10	Coffee break and opportunity to visit the exhibition
11.40	<b>Biomass gasification, cleaning of the product gas and utilising the cleaned gas in advanced systems</b> <ul style="list-style-type: none"> <li>OLGA technology – commercially available method for tar removal downstream biomass or waste gasification</li> <li>Biomass gasification vs coal gasification</li> <li>Biomass to green gas or SNG</li> <li>Short overview of projects and important developments</li> </ul> <b>DAHLMAN</b>
12.20	<b>Rigorous simulation and its practical application to gasification and syngas processing</b> <ul style="list-style-type: none"> <li>Description of the process and simulation from feedstocks (coke, biomass, coal, heavy oil) through to syngas processing (liquid fuels via Fischer Tropsch or Power)</li> <li>Accurate simulation of the energy balance</li> <li>Practical applications of the simulations</li> </ul> <b>KBC</b>
13.00	Lunch and opportunity to visit the exhibition
14.00	<b>Critical Lockhopper service in quench chamber gasification units</b> MOGAS
14.40	<b>Safe, reliable and profitable coke drum unheating in the current economy</b> <ul style="list-style-type: none"> <li>World-class coke drum unheating technology for both the bottom and top of the coke drum</li> <li>Reliable, easy to maintain, and offering significant financial benefits to refiners</li> <li>Two refinery case studies which focus on DCU profitability</li> </ul> <b>DELTA VALVE</b>
15.20	End of conference



# Reservation Form

Promo code: DM2



## ERTC Coking & Gasification Conference

20 – 21 April 2010, Corinthia Towers Hotel, Kongresová 1, Prague 140 69, CZECH REPUBLIC  
Tel: +420 261 191 111 Web: www.corinthia.com

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## Accommodation

Please contact the Corinthia Towers hotel directly for a bedroom reservation. Alternatively, there will be suggestions for other hotels nearby on our website: [www.gtforum.com/coking-and-gasification](http://www.gtforum.com/coking-and-gasification)

I have read and agree to the terms and conditions below

Signature Date

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