

Biobased Feedstocks

For Fuels & Chemicals
28–29 Nov 2011 / Singapore
Goodwood Park Hotel

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DAY 1 - 28 November 2011, Monday

- 08:00 Registration and Coffee
- 09:00 Chairman's Welcome & Remarks
- 09:10 **Asia as the Future Biohub – Mapping Global Demand of Biobased Fuels/Chemicals & Feedstock Availability**
- Prospect of Biorefinery as a one stop solution for feedstocks and multiple end products?
Marco Ziegler, Principal, McKinsey & Company, Inc.
- 09:45 **Price Determinants Underpinning Biobased Feedstocks & their Possible Impact on Biobased Chemical Economics**
- What are global biobased feedstock prices & the determinants underpinning them - in particular sugar & palm oil?
 - How have biofuels impacted traditional agricultural price economics? How might feedstock pricing, influenced by biofuels, impact the biobased chemicals sector?
 - Which global regions can produce sugar most efficiently? How does South East Asian agriculture compete globally on production costs?
 - What are the logistical feedstock challenges the bio-based chemicals sector will need to overcome? Are these major costs factors?
Dr Sarah Hickingbottom, Senior Research Economist, LMC International Ltd.
- 10:25 Discussion followed by Networking Coffee
- 11:10 **Thailand's Directive for Biobased Investment & Project Development**
- Dr Samai Jai-In, Member, National Oil Palm Policy Board, Royal Thai Government*
- 11:35 **Sweet Sorghum as the Emerging Rotational Crops for Sugar/Ethanol Production in China: Yield, Conversion Technology & Economics & Handling**
- Growth of the Chinese markets' for biobased products (fuels & chemicals)
Prof. Shi-Zhong Li, Deputy Director of the Institute of New Energy Technology, Tsinghua University

- 12:05 **Growth Roadmap for Cassava's Plantation & Utilisation in Ethanol & Other Biobased Products in Thailand**
- Associate Prof Dr. Klanarong Sriroth, Cassava & Starch Technology Research Unit, Kasetsart University*
- 12:35 **Accelerase: a Cellulosic Sugar Platform**
- Dr. Mian Li, Senior Applications Scientist, Biomass Applications Group, Genencor*
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- 13:00 Discussion followed by Networking Lunch
- 14:20 **Realizing the Production of Cellulosic Ethanol - Asia's Role**
- 14:45 **Australia's Mackay Renewable Biocommodities Pilot Plant (Bagasse to Ethanol): Development, Economics & Commercial Potential**
- Prof. Sagadevan G. Mundree, Deputy Director, Centre for Tropical Crops & Biocommodities, Queensland University of Technology*
- 15:10 **Sustainability and Life-Cycle Assessment of Jatropha & Camelina Based Biofuels and the Enzymatic Process Pathway**
- Dr William Nolten, CEO, PT Waterland International*
- 15:35 **Bioethanol & Other Bio-Products from Oil Palm Residues**
- 16:00 Discussion followed by Networking Tea
- 16:30 **Roundtable Discussion: Availability & Sustainability of Agricultural Feedstock for the Biobased Value Chain – What has been Committed & Volume Available for Exports/Utilization for Biobased Productions**
- Moderator: Mr Khoo Hock Aun, Vice Chairman, Cosmos Biofuels Sdn Bhd*
- Panelists: Dr Sarah Hickingbottom
Dr. Samai Jai-In
Associate Prof. Dr. Klanarong Sriroth
Prof. Sagadevan G. Mundree*
- 17:30 Discussion followed by End of Day One

DAY 2 - 29 November 2011, Tuesday

- 09:00 Chairman's Remarks
- 09:10 **Strategic/Functional Partnerships to Accelerate Take-off in the Biobased Sector**
- 09:40 **Key Considerations for Private Equity Investment in Asia's Agribusiness for Sustainable Biobased Economy Growth (Criteria, Options & Risk Management)**
- Edgare Kerkwijk, Managing Director, Asia Green Capital*
- 10:10 **Progress & Economic Feasibility of Current Pretreatment (& Fermentation) Technologies**
- 10:35 Discussion followed by Networking Coffee
- 11:05 **1,3-Propanediol Production from Crude Glycerine for the Asian Market**
- Establishing a completely integrated value chain driving innovation from bioinformatics, through strain construction and fermentation R&D to a modular pilot plant
 - Industrialisation & Commercialisation of TEXEROL™ (biobased 1,3-propanediol (PDO) produced from crude glycerine with a proprietary process)
 - TEXEROL™ manufacturing facility in Malaysia, dedicated to the Asian market
 - Next : Industrialisation of other bio-based chemicals such as MPG, also called 1,2-propanediol
Cedric Boisart, Project Manager, Metabolic Explorer
- 11:30 **Feedstock for YXY Building Blocks Used to Make BioBased Polyesters (PEF)**
- Feedstock Selection
 - Conversion technology / introduction into YXY Building Blocks
 - Application areas
 - Properties of biobased PEF compared to PET
Dr Ed de Jong, Vice President Development, Avantium Chemicals BV
- 12:00 **Bioplastic Market Growth & PURAC's Experience in Feedstock Sourcing**
- Derek Atkinson, Business Development Manager PLA Asia, PURAC Asia Pacific*
- 12:30 Final Discussion followed by Closing Lunch
- 14:00 End of Conference