

# 6<sup>th</sup> Biobased Chemicals & Plastics

19-22 June 2017 / Bangkok, Thailand

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## Day 1 - 19 Jun 2017, Monday

### 7TH BIOBASED CHEM ASIA

- 08:00 Morning Registration & Coffee
- 09:00 Chairman's Introduction and Welcome Remarks
- 09:10 **PTT Group's Biochemical Plan Developing a Biochemical Hub in Thailand**  
*Dr. Chaya Chandavasu, Senior Vice President, Science & Innovation PTT Global Chemical Public Company Limited*
- 09:45 **Bio Propylene Market and Supply/Demand Outlook**  
*Mr. Sujit Panvongpaiboon, Vice President, Chemical Department Toyota Tsusho (Thailand) Co., Ltd.*
- 10:15 **ChemBio Route to Produce 1, 3-Butadiene from Sugars**
  - Deconstruction of biomass for glucose and xylose
  - Converting Xylose to Erythritol by using the osmotolerant yeast, Yarrowia Lipolytica
  - Converting Erythritol to 1,3-butadiene through derivatization and chemical catalysis with a yield of > 70%*Dr. Vidhya Rangaswamy, Vice President Reliance Industries Limited*
- 10:45 Discussion followed by Networking Refreshments
- 11:15 **Biobased Chemicals in Asia: Opportunities and Trends**
  - Attractiveness of biorenewables in Asia
  - Important examples of projects and partnerships and challenges in industrialization

- Asian Investments in a global context  
*Ms. Chommanad Thammanayakatip Consultant Nexant Asia Limited*
- 11:45 **Asian Markets for Biobased Chemical Building Blocks and Polymers**
  - Supply & demand
  - Market share and market segment
  - Production capacity*Dr. Wolfgang Baltus, Founder Wobaltextpedition Consultancy*
- 12:15 Discussion followed by Networking Lunch
- 13:40 Afternoon Chairman's Introduction
- 13:45 **Biobased Materials & Chemicals: Where is South East Asia Headed?**
- 14:15 **Latest Production of CO2-based Polyols Building Block**
  - Market response
  - Replacing 20% petroleum with CO2
  - Challenges of using CO2 directly as raw material*Dr. Ruijing Guo, Innovation Manager Covestro Polymers (China) Co., Ltd*
- 14:45 **Bio-MEG – A growth driver for Bio-PET segment**
  - PET/MEG – Market size and forecast
  - Conventional MEG Vs Bio-MEG – A comparison
  - Products attributes, manufacturing and end use applications
  - Renewable bio-based feedstock options
  - Future developments – Gen-2 Bio-MEG from Lignocellulosic Biomass
  - Bio-PET-Current market size, emerging trends and opportunities*Mr. Rajesh Marwaha, SBU Head (International Business) India Glycols Limited*

- 15:15 Discussion followed by Networking Refreshments
- 15:45 **Plant Based Ingredients to Achieve Naturalness and Sustainability in Personal Care**
- 16:15 **Latest E-Certification to Monitor Bio-based Materials in the Chemical Industry**
  - A new online tool to track bio-based raw materials usage in products
  - Certification and assurance for bio-based content across the value chain
  - Example to track biobased ECH in epoxy coatings
  - Increased transparency and encourage companies to use more sustainable raw materials*Mr. Prakrit Sangthongnanotai Epicerol Growth Project Manager Advanced Biochemical (Thailand) Co., Ltd.*
- 16:45 Discussion followed by End of Day One

## Day 2 - 20 Jun 2017, Tuesday

### 7TH BIOBASED CHEM ASIA AND 11TH BIOPLASTICS MARKETS

- 09:00 Chairman's Introduction
- 09:10 **Thailand Bioeconomy & Bioplastics Development – Implication**
  - Industry development trends and its sustainability*Mr. Kittiphong Limsuwanarot, President Thai Bioplastics Industry Association (TBIA)*
- 09:40 **Feedstocks for Biobased Chemicals: Which will be Competitive?**
  - Analysis of individual feedstock and availability
  - Cost competitiveness
  - Logistics and processing*Ms. Henna Poikolainen, Senior Consultant Pöyry Management Consulting Oy*
- 10:10 **Oil Palm Biomass Waste Feedstock Potential for Cellulose, Cellulose Derivative and Bioplastic**
  - Overview of oil palm biomass waste feedstock
  - Optional routes of utilization oil palm waste for biobased material
  - Cellulose from oil palm empty fruit bunches in bioplastic production*Dr. Isroi, Researcher Indonesian Research Institute for Biotechnology and Bioindustry*
- 10:40 Discussion followed by Networking Refreshment
- 11:15 **Availability and Prospects of Cassava for Bioplastics Production**
  - Cassava availability and prospect
  - Regulation of plastic bag in Indonesia
  - Enviplast starch based bioplastics bag from cassava*Dr. Asmuwahyu Saptoraharjo Technical Consultant Enviplast*
- 11:45 **Strategies and Sources to Attract Private Equity for Bio-Based Projects**  
*Ms. Babette Pettersen Chief Business Development Officer Capricorn Venture Partners n.v.*
- 12:15 Discussion followed by Networking Lunch

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## 11TH BIOPLASTICS MARKETS

13:40 Afternoon Chairman's Introduction

### 13:45 Role of Bioplastics in the New Plastics Economy

- Bioplastics industry overview
- Strategies to achieve New Plastics Economy
- New Ingeo application including 3D printing

Mr. Ian Toh, Commercial Director, APAC  
*NatureWorks LLC*

### 14:15 Market Demand for Bioplastics in India

- Regulations and drivers for bioplastics in India
- Plastics waste management
- New applications and markets
- Natur-Tec latest innovation and technology

Dr. Sunder Balakrishnan, Director  
*Natur-Tec India Pvt Ltd*

### 14:45 China's Emerging PLA Production & an Update on Total Corbion Project in Thailand

- China's corn surplus and opportunity
- China PLA commercial plants capacity and update
- Total Corbion's plan and production in Thailand
- Latest conversion technology

Dr. Jim Jem, Greater China GM  
*Total Corbion PLA Ltd.*

15:15 Discussion followed by  
Networking Refreshments

### 15:45 PEF Polymer and PEF Film - 100% Bio-based Gas Barrier Material

- 100% Bio-based polyester
- PEF Improved gas barrier properties

- Latest and innovative applications
- Toyobo's collaboration with Synvina & Mitsui and future plans

Mr. Shoichi Gyobu, Manager, Planning  
Group, Corp R&D Administration Dept  
*Toyobo Co., Ltd.*

Dr. Katsuya Ito, Senior Chief Researcher  
of Films Tecnology Center  
*Toyobo Co., Ltd.*

### 16:15 Latest PBAT Trends and Application in Courier Delivery

- China booming market and demand for biobased courier packaging
- China's adoption of bioplastics, penetration level and challenges
- Prospect and demand in Asia region

Ms. Janice Li, President  
*JinHui ZhaoLong High Technology  
Co. Ltd.*

16:45 Discussion followed by End of Day Two

## Day 3 - 21 Jun 2017, Wednesday

## 11TH BIOPLASTICS MARKETS

09:00 Chairman's Introduction

### 09:10 Prospects of Bamboo Fiber-PP Composites for Automotive & Construction Applications

- Environmentally friendly process for natural bamboo production
- Bamboo fiber-PP composite for package tray production
- Bamboo fiber composite for acoustic insulation applications
- Prospects of bamboo fiber and other natural fiber composites

Dr. Suteera Witayakran, Researcher  
*Kasetsart University*

09:40 **Nestle's Packaging Innovation and Materials Optimisation**  
*Ms. Kasma Torrarit, Head of Packaging  
Nestle Thai Ltd*

### 10:10 Brand Owner's Perspective on the Next Level of Sustainable Packaging

Mr. Marcel Keuenhof  
Packaging Manager  
*Wessanen Nederland Holding BV*

10:40 Discussion followed by  
Networking Refreshments

### 11:10 BioPBS Drop in Polymer Applications Growth Potential

- Key Applications
  - Market share and demand in the region
  - PTT MCC's production capacity
- Fabien Resweber, VP, Sales & Marketing  
PTT MCC Biochem Co., Ltd*

### 11:40 Packaging Material, Recycling Potential and End of Life Options

- Demand and opportunity of Bio-Plastics in packaging
- Special challenges in the home care packaging market
- Bioplastics end-of-life challenges
- How to incorporate bioplastics into existing recycling stream?

Mr. Stefan Barot, Business Director  
*Bio-Plastics Asia-Pacific  
Total Corbion PLA BV*

12:10 Discussion followed by  
Networking Lunch

13:30 End of Conference

22 Jun 2017, Thursday

## SEPARATELY BOOKABLE

### Site Visit to Total Corbion PLA Plant

08:30 Depart from hotel to Total Corbion PLA plant

11:00 Introduction

12:00 Lunch

13:00 Bus tour of the production area

14:00 Depart back to hotel

16:30 Arrive at hotel

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Site Visit to Total Corbion PLA Plant: 22 Jun 125.00

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