

5th Biobased World 2016 Chemicals and Plastics

9 - 11 May
Bangkok, Thailand
Sofitel Bangkok Sukhumvit

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Day One - Monday, May 9th

6th Biobased Chem Asia

- 08:00 Morning Registration & Coffee
- 09:00 Chairman's Welcome & Remarks
Dr. Florian Graichen, Science Leader Biobased Polymers and Chemicals Scion
- 09:10 **Dynamics of the Bio-based Chemical Business**
 - What is driving the development of bio-based chemicals in the midst of low oil prices?
 - Where will the production be located in 2025? (Asia vs. US vs. Europe vs. Latin America)
 - What does the future hold for Biobased Chemicals & BioPlastics, especially in Asia?*Henna Poikolainen, Senior Consultant Poyry Management Consulting*
- 09:40 **Managing Bio-based Investment Amid Low Crude Oil Price: A Palm Producer Perspective**
Dr. Hirzun Mohd. Yusof, Vice President I, Integrative and Applied Biology Sime Darby Technology Centre Sdn Bhd
- 10:15 Discussion Followed by Networking Refreshment
- 10:55 **Partnering Opportunities for the South-East Asian Bioindustry**
 - tkIS' involvement in South East Asia's biobased industry & MitrPhols' interest
 - Partnering concepts in the biobased value chain
 - Joint collaboration between MitrPhol & tkIS on the development & commercialization of a biochemical*Dr. Markus Fritsch, Head of Process Development ThyssenKrupp Industrial Solutions*
Dr. Sansanalak Rachdawong, Senior R&D Manager, Biobased Chemical Energy Mitr Phol Sugar Corp Ltd
- 11:25 **Sustainable Biobased ECH to Improve the Environmental Impact of Products**
Pan-Usa Kongmunwattana, Marketing Manager Advanced Biochemical (Thailand) Co., Ltd.
Rolf Hogan, Executive Director RSB - Roundtable for Sustainable Biofuels / EPFL - Energy Center - Station 5

- 12:05 **BASF & Avantium Joint Venture: Production & Commercial Introduction of PEF**
 - Strategic Rationale for the JV
 - PEF Market Opportunity – Partnership with Mitsui in Asia
 - Plans for the First Commercial FDCA Plant Industrial Roll Out of FDCA & PEF*Nathan Kemeling, Director Business Development Avantium Chemicals BV*
- 12:40 Discussion followed by Networking Luncheon
- 14:05 Afternoon's Chairman
Ken Lai, VP Asia Pacific LanzaTech
- 14:10 **Levulinic Ketals: A New Technology Platform**
Marcel van Berkel, Chief Commercial Officer GFBiochemicals
- 14:40 **Partnerships in Bio-Economy: From Bio-based Monomer to High-Tech Polymers**
 - Biobased TPUs
 - Biobased aliphatic isocyanates for polyurethane applications
 - Biobased aromatics*Dr. Ruijing Guo, Innovation Manager Covestro Polymers (China) Co., Ltd*
- 15:10 **From 30% to 100% Bio-based PET/PEF – Fully Integration of Supply Chain on the Drop-In Approach**
Dr. Fanny Liao, President Far Eastern New Century Corporation
- 15:40 Discussion followed by Networking Refreshment
- 16:10 **Biobased Specialty Chemicals Market Outlook in Asia**
 - Technology advancement, applications & adoption/substitution trends
 - Feedstock proximity advantage in the region*Dr. Aaron Kelley Senior Director, Business Development Amyris Inc.*
- 16:40 **Enabling Biobased Chemicals**
Dr. Daniel Auriel, Investment Manager Capricorn Venture Partners n.v.
- 17:15 Discussion followed by End of Day One

Day Two - Tuesday, May 10th

6th Biobased Chem Asia and 10th BioPlastics Markets

- 08:00 Morning Registration & Coffee
- 09:00 Chairman's Welcome Remarks
Chris DeLavigne, Principal – Strategy KPMG Services Pte Ltd
- 09:10 **Regional Outlook & Availability of Feedstock for Biobased Chemical Development in Asia**
Chris DeLavigne, Principal – Strategy KPMG Services Pte Ltd
- 09:40 **Plantation Forestry – Business Opportunities Beyond Staples**
 - Woody biomass as a sustainable source for biobased products
 - Traditionally – used as staples
 - Today and emerging – feedstock for biobased plastics, source of fibres and high value chemicals
 - The future – tree biotechnology – designing a tree as a “chemical factory”*Dr. Florian Graichen, Science Leader Biobased Polymers and Chemicals Scion*
- 10:00 **Pretreatment & Enzymatic Conversion Technologies for Bioconversion of Oil Palm Biomass Waste**
 - Oil Palm as True Biorefinery Feedstock
 - Key Pretreatment Technologies Used in the Bioconversion
 - Development of Enzyme Cocktails for Bioconversion
 - Opportunity to Improve Enzyme Technologies by Leveraging on South East Asia's Mega Biodiversity*Amadeus Pribowo, Head of Bioentrepreneurship Program; Director of Business Development Indonesia International Institute for Life Sciences*
- 10:30 Discussion followed by Networking Refreshments
- 11:00 **Carbon Smart World: Bio-based Fuels & Chemicals from Waste**
Ken Lai, VP Asia Pacific LanzaTech
- 11:30 **Asia Palm Oil Market Outlook & Value Creation from Palm Biomass Waste**
Mohamad Fadhil Hasan, Executive Director Indonesian Palm Oil Producers Association (GAPKI)
- 12:00 Networking Lunch
- 13:30 Afternoon Chairman's Introduction
Dr. Wolfgang Baltus, Founder Wobaltexpedition Consultancy
- 13:40 **The Current Status of BioPlastic Industry in Thailand**
 - Why we need BioPlastic
 - Thailand as the BioPlastic hub
 - Multibax BioPlastic projects update*Dr. Pisuth Lertvilai, Deputy Managing Director Multibax Co Ltd*
- 14:10 **Entering into Commercialization – Biomass/Lignin Utilization for Biobased Polymers & High Performance Products**
 - 100 % biobased adhesives (formaldehyde free)
 - Lignin-derived carbon fibres
 - Engineered diced pellet with exceptional polymer reinforcement to Polyolefin compounds
 - Bioplastics from biomass residues (wine pomace and kiwi fruit residues)
 - Bioplastic alternative to expanded polystyrene (EPS)
 - The future - 3D printing of biobased polymers*Dr. Florian Graichen, Science Leader Biobased Polymers and Chemicals Scion*
- 14:50 Discussion Followed by Networking Refreshments
- 15:30 **Role of Bio-Polymers in IKEA's Business Direction**
 - IKEA latest gas-to-plastics technology development Prospect of biopolymer use in home furnishing products
 - IKEA's commitment to sustainability*Puneet Trehan Material Innovation & Development Leader IKEA of SWEDEN*

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16:00 **Technology Developments of Biobased Polyamides in Textile**
• Product innovations and applications
• Update on Cathay's diacid, diamine and polyamide commercialization expansion
Alex Kedo, COO
Cathay Industrial Biotech Ltd

16:30 Discussion Followed by End of Day Two

Day Three - Wednesday, May 11th

10th BioPlastics Markets

09:00 Chairman's Introduction
Alex Kedo, COO
Cathay Industrial Biotech Ltd

09:05 **Case Study on Levis' Implementation of Bioplastic Packaging**
Dr. Sunder Rajan Balakrishnan
Senior Technical Manager
Natur-Tec (A division of Northern Technologies International Corporation)

09:35 **Partnering to Advance the Development and Commercialization of Cost-Competitive Bioplastics Beverage Bottles**
Dr. David Sudolsky, President & CEO
Anellotech Inc
Yasuhiko Akanuma, Deputy General Manager
New Packaging Technology Development Dept.
Suntory

10:05 **BioPBS Market Outlook and Applications Development**
• Mitsubishi Chemical's strategy to utilize bio/sustainable resources
• BioPBS present and future applications
• Introduction of a new bio-polycarbonate diol
Dr. Hiroshi Sano, Deputy General Manager
R&D Planning Dept, Petrochemicals Planning Div
Mitsubishi Chemical Corporation

10:35 Discussion Followed by Networking Refreshment

11:15 **Outlook and Trends in BioMEG**
• Bio-MEG acceptance and usage in the bioplastics segment
Sanjeev Gurwara, President (Marketing)
India Glycols Limited

11:45 **PLA and PHAs: Current Market Developments, Applications and Lessons Learned**
Dr. Wolfgang Baltus, Founder
Wobaltpedition Consultancy

12:15 Final Discussion Followed by Closing Lunch

13:45 End of Conference

Who you will network with

- Feedstock suppliers (PX/PTA/MEG)
- PET resin producers & suppliers
 - Polyester manufacturers
 - Polymer/Petrochemical traders
- Converters & preform manufacturers
 - Technology providers
 - Recycling companies
- Bottlers/fillers • Brand owners

Per Person Fee for:

Bundle Deal	(USD)
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Conference 1	(USD)
6th Biobased Chem Asia: 9-10 May	1495.00
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Online Payment Discount (per person)	(USD)
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"Smart Investments in Biobased Economy amid Low-Cost Crude Environment"

"Indonesia, Malaysia, and Thailand – the three largest producers of palm oil – are parlaying their natural strengths into the emerging BBMC space. Malaysia is focusing on new oleochemicals while Thailand is focusing on bioplastics; Indonesia has ample feedstock but presents more challenges due to a lack of government support for bio-based chemicals."
~ Lux Research

With an abundant agriculture biomass feedstock, ready to be value-added to bioplastics and materials, Asia is set to be the ideal production hub to marry technology and feedstock. Against the backdrop of low oil prices, companies are setting goal of long term sustainable returns for their bio-based investments. Recently, Verdezyn and Sime Darby sealed an agreement of a bio-based dodecanedioic acid (DDDA) production plant in Malaysia, and the product is to be distributed through Asia Pacific, especially China, Japan and South Korea.

Gain insights and the latest on the following:

- **Sime Darby's perspective** on how they balance bio-based investment in their palm oil supply chain
- Developing **solid bio-based partnership** as well as **financing secured**
- Prospects of **bio-based specialty chemicals**, especially in Asia

- Evaluate availability & competitive economics of **Asia's bio-based feedstock**
- Commercialized utilization of **Lignin for high performance products**
- **Thailand Bioplastics Industry Association (TBIA)** to reinforce the country's role as the region's bioplastics hub
- **Top Brand owners from - Levis, Suntory, IKEA, Viyellatex, ITC** to share their experience on utilizing bioplastics along their manufacturing and business value chain
- **Cathay Industrial Biotech** to showcase latest Bio-Polyamides technology development and application in textile
- **Anellotech** to share partnering experiences with Suntory for their bioplastics beverage bottles
- Uncover potential future applications of BioPBS with **Mitsubishi Chemical**
- **India Glycols** to discuss the growing prospect of Bio MEG in bioplastics

Do not miss this event that brings together leading Asian and global industry experts to present business case studies, investment opportunities, latest innovations, trends and applications in the bio-based chemicals and materials sphere.

Register NOW with your team to enjoy group discounts!

Contact grace@cmtsp.com.sg for more information.

3 Ways To Register

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