

3rd BiobasedWorld Asia

19 – 22 May 2014, SINGAPORE

Incorporating 4th BiobasedChem Asia & 8th Bioplastics Markets

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Day 1 - May 19th 2014, Monday

Pre-Conference Workshop Biobased Feedstock Conversion - Technologies & Economics

The workshop will cover a comprehensive and current state of affairs in the field of biomass conversion for fuels in general with particular emphasis on higher value bioproducts.

Workshop Facilitators:

*Dr Bhima Vijayendran, Managing Partner, Redwood Innovations, LLC, and
Mr Kalib Kersh, Director, Innovation & Technology, DestinHaus*

Objective & Who Should Attend

To provide a comprehensive view of the developments in the field of biomass conversion to high value products such as monomers, intermediates, polymers and plastics, composites, additives and other chemicals as a viable alternative to fossil derived chemicals estimated to be over 3 trillion dollars per year globally. A critical review of the issues and challenges related to each component along the supply chain -- biomass availability and infrastructure, conversion processes, derisking scale up/manufacturing costs, value proposition of products in the market place, etc, that are of great importance to all the stakeholders will be covered.

The workshop would be of great value to a diverse audience from R&D scientists, process engineers, market and business development executives, senior corporate planning and strategy staff, financial and investment executives including those from NGOs that are interested in this emerging field for developing countries.

Workshop Agenda

1. Introduction & Overview

- Fossil vs. Bio
- Background perspective on Commodity Fuels vs. Higher Value Chemicals
- Drivers
- Changing Landscape

2. Biobased Feedstock

- Types & Sources including Southeast Asian Feedstocks
- Emerging ones
- Supply Chain Issues & Challenges

3. Conversion Technologies

- Catalyst Assisted Thermo Chemical
- Bio Processing
- Hybrid
- Advantages & Disadvantages
- Techno Economic Consideration
- Commercial status

4. Chemical Products

- Drop-in vs. Functionally Equivalent vs. New
- Examples of Commercial Products
- Examples of Products at Pilot / R&D scale

5. Markets

- Why Bioproducts ?
- Market Trends
- Consumer Interest
- Public Policy/ Legislative Initiatives

6. Summary

- What is need for Growth of Bioproducts
- Challenges & Opportunities

Day 2 - May 20th 2014, Tuesday



08:00 Registration & Coffee

09:00 Morning Chairman's Welcome & Remarks

09:10 **From Commercialization to Adoption of Biobased Fuels, Chemicals & Bioplastics: Global Outlook on Key Push-Pull Drivers, Pitfalls & Forward Looking Trends**

- Regulatory Progress on Funding & Adoption
- Production Economics Threats from Fossil & Shale Feedstocks

Andrew Soare, Senior Analyst

Lux Research - Asia Pacific Pte Ltd

09:45 **Macro-Economic Outlook of Asia**

10:15 Discussion followed by Networking Coffee

10:55 **Asia's Role in Aviation Biofuels**

*Skip Boyce, President,
Boeing Southeast Asia*

11:25 **What does it Take to Commercialize Biobased Chemicals**

*Dr. Bhima Vijayendran, Managing Partner
Redwood Innovations, LLC*

11:55 **Commercializing Production of Cellulosic Biomass to Bio-ethanol & Bio-glycols in Anhui Fuyang**

- Introduction & Progress of 2nd Generation Biorefinery Project
- Availability & Sourcing of Biomass Feedstock for the Biorefinery
- Perspective on the partnership
- Prospect of the downstream market potential

Li Yonghua, CEO,

Anhui Guozhen Biomass Power Generation Pte. Ltd.

Li Wei, Chairman,

Anhui Guozhen Group

12:30 Discussion followed by Networking Lunch

Development of Renewable C3, C4 and C5 Chemicals & Business Viability

- Technological & Commercialised Production Development of the Building Blocks
- Downstream Markets' Growth Potential
- Projects in Asia

13:50 **Moving Bio-BDO from Commercial Scale into Commercial Market Applications (Joint Presentation by BASF & Genomatica)**

- The BASF-Genomatica Partnership
- BDO commercial production
- Downstream offtaking of Bio-BDO from global chemical market leader

Bill Baum, Chief Business Development Officer

Genomatica

14:20 **Succinic Acid**

14:50 **Aromatics Chemicals (Bio-PX, PEF)**

15:20 Discussion followed by Networking Tea

15:50 **Bio-based Acrylic Acid**

16:20 **Proven Cellulosic Biomass-to-Fermentable Sugars Technology for Commercial Scale Production**

*Pierluigi Picciotti, Business Development
Director Asia Pacific
Beta Renewables Spa*

16:50 **Obtaining Capital for Projects in Asia: Hurdles to Overcome**

17:30 Discussion followed by End of Day 1

Day 3 - May 21st 2014, Wednesday

(Combined Session with Bioplastics)



08:00 Registration for BioPlastics Markets

09:00 Morning Chairman's Welcome & Remarks

Availability of Feedstock to Commit to Biobased Purposes in Asia

09:10 **Sugar/Starch Feedstock**

- Outlook of feedstock in Asia
- Production of Sugar/Starch
- Strategies for Biobased purposes

Dr. Pipat Weerathaworn, President

Thai Bioplastics Industry Association (TBIA)

09:40 **Palm Biomass**

- Availability & location of Palm Biomass in Malaysia
- Processing Technology Available
- Application Portfolio of Palm Biomass

*Timothy Ong, Interim Chairman for Pellet Association Malaysia and Vice President,
Strategic Innovation*

Agensi Inovasi Malaysia (National Innovation Agency Malaysia)

10:10 **Lignocellulosic Biorefinery to Chemicals Platform**

*Philippe Lavielle, Chief Executive Officer
Virdia*

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- 10:40 Discussion followed by Networking Coffee
- 11:15 **Gen 1 & Gen 2 Sugars – Feedstock Development & Conversion**
- 11:45 **Economics and Advancement in Feedstock Conversion Technologies**
- 12:15 **Converting CO2 or Waste Derived Synthesis Gas to Chemical Products**
- 12:45 Discussion followed by Networking Lunch
- 14:10 **Outlook of the Global Bioplastic Markets**
- 14:40 **India: Bioplastics Gaining Momentum**
- Cashing in on plastic bag ban (legislation and regulations) & opportunities for bioplastics
 - Regulatory and market risks and challenges
 - Current production capacity & future plans
 - Regional export opportunities
- Vineet Dalal, Vice President & Director of Global Market Development
Natur-Tec (A division of Northern Technologies International Corporation)*
- 15:10 **Securing Sustainable Feedstock for Commercial Scale Replacement of Algae-based Polypropylene in South Asia**
- Market access strategies & initiatives
 - Production capacity
 - Application and demand
 - Feedstock sustainability
- Michael Van Drunen, President, CEO and Founder
Algix LLC*
- 15:40 Discussion followed by Networking Tea

- 16:10 **Strategies for Successful Integration of Bioplastics into Product Design**
- Overcoming brand owners' concerns - recyclability, food & hygiene
 - Integration into existing production line
 - Achieving aesthetics and physical properties on par with conventional plastics
 - Case Study
- 16:40 **Latest PLA Blends: Heat Resistant Bioplastics**
- Production characteristics in meeting performance requirement
 - Application in touchscreen computer, computer servers, tableware, high heat coffee cups
 - Ability of production capacity to meet Asian demand
- Derek Atkinson, Business Development Director
PLA Asia
PURAC Asia Pacific Pte Ltd*
- 17:10 **End Users Perspective: Leading Bioplastics Adoption in Asia & Beyond**
- Scaling up for commercial production
 - Consumer adoption trends and the growth drivers
 - Plans for expansion of product line and roadmap to grow global demand
 - Strategies for establishing an efficient global supply chain and distribution network
 - Leveraging on global partnerships
- Aloysius Cheong
Managing Director & Chief Executive Officer,
Olive Green*
- 17:40 Discussion followed by End of Day 3

Day 4 - May 22nd 2014, Thursday



- 09:00 Chairman's Welcome & Remarks
- 09:10 **China: Drivers Behind Asia's Largest Bioplastics Producer**
- Current outlook, market conditions and production capacity
 - Overcoming challenges, identifying and tapping the opportunities
 - Role of legislation and policies
- Iqbal Huq, Managing Director
Cardia Bioplastics (M) Sdn Bhd*
- 09:40 **Supporting the Rapidly Growing Additive Manufacturing Industry**
- Growth pace and potential value of the industry
 - Overcoming challenges and satisfying the demands of the industry
 - Application and product quality requirements
- Rich Weber, Asia Pacific Commercial Director
Natureworks Asia Pacific Limited*
- 10:10 **High Performance Bio-Material for Automotive Application**
- Laurence Dufrancatel
Bio Material Engineering Manager,
Faurecia*

- 10:40 Discussion followed by Networking Coffee
- 11:10 **End Users Perspective – Challenges & Experience of Adopting Bioplastics in Product Line**
- 11:40 **Tackling Product & Food Safety Concerns of Bioplastics Feedstock from Waste Sources**
- Product cost and performance
 - Key concerns of brand owners
 - Testing & certification
- John R. Tersigni, President & CEO
Sierra Resins, Inc.*
- 12:10 **End-of-Life Strategy: Integrating Bioplastics into Existing Waste Management Infrastructure**
- From production to end-of-life management
 - Impact of introducing bioplastics into existing system of plastic disposal, collection and sorting
 - Prospects of bioplastics recycling
 - Waste management options- recycling, composting or incineration
- Dr. Phietoon Trivijitkasem, Honorary President,
Thai Bioplastics Industry Association (TBIA)
Thantawan Industry Public Co Ltd (THIP)*
- 12:40 Final discussion followed by Closing Lunch
- 14:00 End of Conference

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Program details published herein are confirmed as at 12/03/2014. Please visit <http://www.cmtevents.com/main.aspx?ev=14051718> for latest information on speakers & topics.

Activities	19 May 2014 Pre-Conference Workshop	20 - 21 May 2014 4th BiobasedChem Asia	21 - 22 May 2014 8th Bioplastics Markets
Fee Per Person	Fee for Conference Attendee USD995	Regular Fee - USD1495 Group Fee - USD1195* <small>* 3 or more from same company</small>	Regular Fee - USD1495 Group Fee - USD1195* <small>* 3 or more from same company</small>
Bundle Fee 1	Pre-Conference Workshop + 4th BiobasedChem Asia + 8th BioplasticsMarkets = USD2595 per person		
Bundle Fee 2	4th BiobasedChem Asia+8th Bioplastics Markets = USD1995 perperson		
Special Fees for Asian plantation owners, mill owners, biomass producers	Please email grace@cmtsp.com.sg		
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Attendees can opt for ANY individual or combination of 3 activities.			