BioPlastics: The Re-Invention of Plastics
March 4-6, 2013
Caesars Palace
Las Vegas, NV 89103, USA

Conference Chairman: Roger Avakian, VP - Scientific Development, PolyOne

The 2010’s appear to lighting up the spirit of innovation in the field of chemicals/polymers in a manner similar to the one during 1930’s to 1960’s that led to the mighty Plastics Industry. This time the industry is in pursuit of manufacturing the traditional polymers as well as opening the path for newer materials but from renewable food / non-food biomass, thereby reducing dependence on crude oil. Join us on this journey through the world of “BioPlastics: The Re-Invention of Plastics”; an adventure we have not seen in the chemical industry since the 1960’s.

March 4 (Monday), 2013
Optional Pre-Conference Course

1:00-5:00  BioPlastics 2013: State-of-the-Industry & Path Forward
          Don Bari, Vice President, IHS Chemicals Consulting, USA
          Dr. Mark Morgan, Managing Director, IHS Global Renewables, UK

Although the concept of biomass-derived polymers has long been known, the last 5 years have witnessed major industrial developments with products that now perform and meet customer requirements across multiple value chains as well as enabling major brand owners to improve their sustainability performance. This pre-conference course will provide a chronological overview of the developments starting with biodegradable polymers and their building blocks, finishing with a review of the current state of the biodegradable & bioderived plastic products as well as views regarding future growth. In particular, the following topics will be covered:

- Overview of BioPlastics today and their Building Blocks
- Driving Forces Behind the BioPlastics Industry
- Industry Participants and Developers
- Consumption by Polymer Type and Market Segment to 2020
- Discussion of Commodity Polymers and Engineering Resins
- Competitive and Regional Economic
- Strategies for Success
March 5 (Tuesday), 2013

7:00-7:50  Registration and Breakfast

7:50-7:55  Welcome and Opening Remarks

7:55-8:25  **Keynote Address**

*Journey to Future Has Begun: From Reduction to Production of Petroleum Products BioRefineries ➔ PLASTICS ➔ Plastic-Waste ➔ Petro-Fuel*

TBA

**Session I: Green Plastics: Techno-Commercial Update**

8:30-9:00  **The World of PLA:**

*Update on Business, Commercial Applications & New Product Launches*

Frank Diodato, Director-Product Development, *NatureWorks*, USA

9:00-9:30  **The World of PHA:**

*Update on Commercial Production & Applications*

Blake Lindsey, President, *Danimer Scientific*, USA

9:30-10:00  **Green PE: Value Proposition & Success in MarketPlace**

**Green PP: Update on Commercialization**

James Kahn, Commercial Manager, *Braskem* America, USA

10:00-10:30  Coffee Break & Networking

10:30-11:00  **Green Plastics at Toray**

Tatsuya Matsuno, Assistant General Manager, *Toray* Industries, Japan

11:00-11:30  **Green PET: Update on Scaling-Up Production**

TBA

11:30-12:00  **Green Nylons:**

*Fully Biobased Nylons (N5,X) based on Pentamethylenediamine(PMDA)*

Charlie Liu, Director-International Bus Develop, *Cathay* Industrial Biotech, China

12:00-12:30  **Green PBS: Commercial Applications & Future Trends**

TBA, *PTT MCC Biochem*, JV of *PTT* & *Mitsubishi Chemical*, Thailand

12:30-2:00  Lunch & Networking
Session II: BioPolymers in Packaging Applications

2:00-2:30 Ovenable Pan Liners Made from Novel Biobased Copolyester Elastomer: Value Differentiation
Paul Moruzi, Manager-Applications Technology, DSM Engineering Plastics, USA
Joseph Radosta, Manager-New Product Development, M&Q Packaging, USA

2:30-3:00 BoPLA Packaging Films: Successes in Marketplace & Update on Commercial Applications
Frank Ernst, Product Manager-NATIVIA™, Tagleef Industries, Germany

3:00-3:30 New Developments in BioPolymer Coated Paper / Cardboard Packaging
Stefano Facco, Director-New Bus Develop, Novamont, Italy

3:30-4:00 Coffee Break & Networking

Session III: Brand Owners on BioPlastics

4:00-4:30 TBA
TBA

4:30-5:00 TBA
TBA

5:00-5:30 Status Report from Plant PET Technology Collaborative (Coca-Cola, Ford, Heinz, Nike, and Procter & Gamble)
TBA

5:30-7:00 Cocktail Reception & Networking

March 6 (Wednesday), 2013

7:00-8:00 Breakfast

Session IV: Advances in Biobased Building Blocks: Process Technology

8:00-8:30 Non-Food Biomass to Bio-Ethanol (Green PE PP & More); Low Cost Production
Dr. Theodora Retsina, CEO, American Process, USA

8:30-9:00 Bio-Ethanol to Ethylene (Green PE PP) and Ethylene Glycol (Green PET)
Mike Bruscino, Manager-Licensing, Scientific Design Company, USA
9:00-9:30  **Bio-Butanediol from Multiple Renewable Feedstocks**
Damien Perriman, VP-Business Development, *Genomatica*, USA

9:30-10:00  Coffee Break & Networking

10:00-10:30  **Pilot / Commercial Production of Nylon Intermediates** (*Green Nylon 66* & More)
Dr. E. William Radany, President & CEO, *Verdezyne*, USA

10:30-11:00  **Biobased Green Polymers based on High Purity Isosorbide**
Dr. Michael Chen, New Business Development-BioHUB®, *Roquette* America, USA

**Session V: BioPlastics Modification:**
**Biobased Additives, Adhesives & Coatings**

11:00-11:30  **Case Studies in the Development and Commercialization of Bio-Materials**
Roger Avakian (VP-Scientific Develp) & Jim Gray (Director-Marketing), *PolyOne*, USA

11:30-12:00  **Mechanical Reinforcement & Nucleation of BioPlastics**
Dr. Yoshinori Kasai, ……, *Nissan Chemical*, Japan

12:00-1:00  Lunch & Networking

1:00-1:30  **Waste CO₂ based Polyols for High-Performance Coatings, Adhesives & Sealants**
Peter Shepard, Executive VP, *Novomer*, USA

1:30-2:00  **Soy Oil as a Replacement for Mineral Oils in Tires**
Dr. Stephan Rodewald, Senior Research Chemist; The *Goodyear Tire*, USA

2:00-2:30  **Green Modifiers: Portfolio of Performance Additives for BioPlastics**
Kim Stefanisin, Senior Scientist, *Hallstar*, USA

2:30-3:00  Coffee Break & Networking

**Session VI: End-of-Life Options:**
**Value Creation from BioPlastics**

3:00-3:30  **Organics Recycling: How Bioplastics Can Revolutionize Food Waste Management**
Norma McDonald, Manager- Sales NA, *Organic Waste Systems*, USA

3:30-4:00  **ThermoChemical Process to Convert Waste into Ethanol from Methanol: Chemical Building Blocks for Plastics, Adhesives & Coatings**
Timothy Cesarek, SVP-Business Development, *Enerkem NA*, USA

4:00-4:30  **Innovative Technology to Dispose-off Organic Waste in Hospitals including Biodegradable Plastics while Generating Energy for Internal Use**
Peter Kelly, Director-BioPlastics Applications, *Pharmafilter*, The Netherlands
SPONSORS / EXHIBITORS

**PLATINUM SPONSORSHIP** (1 @ $10,000):
Enables complementary attendance up to 5 delegates, an exhibit booth equivalent to two(2) tabletops, company's logo (largest size) on posters and conference material, and acknowledgement at cocktail reception

**GOLD SPONSORSHIP** (3 @ $7,500 each):
Enables complementary attendance up to 3 delegates, a tabletop exhibit, company's logo (larger size) on posters and conference material, acknowledgement at lunch

**SILVER SPONSORSHIP** (5 @ $5,000 each): Hallstar
Enables complementary attendance up to 2 delegates, a tabletop exhibit, company's logo on posters and conference material, acknowledgement at coffee breaks

**TABLETOP EXHIBITS** (15 @ $2,500 each): Hallstar, Nissan Chemical, Organic Waste Systems, BASF, Plastics Color, Ametek, City of Port Colborne,
Enables one(1) delegate and a TableTop display:

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**About the Organizer**

Dr. Yash P. Khanna, recipient of two international awards in the areas of Plastics and Analytical Sciences, has 36 years of highly diversified industrial experience. His career is credited with over 120 research publications, 22 U.S. patents, Society of Plastics Engineer’s International “Engineering/Technology” Award (2001) and North American Thermal Analysis Society’s Fellowship (1988) and its highest honor, the international Mettler Award (1997). A highpoint of Dr. Khanna’s career has been to identify several new phenomena in common polymers, already in existence for 40-60 years. Most recently, Dr. Khanna was Senior Technology Fellow / Director of Technology at Imerys, a $5B minerals company. The majority of his career, 1975-2001, was at AlliedSignal’s (now Honeywell) Corporate Research & Technology Center as a Research Group Leader / Senior Principal Scientist. During 1990-2001, he also held positions as Business Unit Liaison to Specialty Films and key technologist for Packaging Resins, where scientific fundamentals formed the basis of new product / process development as well as technology marketing in North America and Europe. These significant business contributions were recognized through 5 Special Recognition awards and 3 business awards (“Growth,” “Sale of the Year,” and “Save of the Year”). Now at InnoPlast Solutions, Dr. Khanna’s technology driven business experience is playing a key role in offering “Value-Driven” conferences and courses as well as consultation services.