InnoPlast Solutions Presents a **HYBRID** *2-Day Course on …..*

Plastics & Packaging beyond 2026

September 15 (Tue) – **September 16** (Wed) **2026**

Peachtree-Midtown Hotel by **Marriott**

Atlanta, GA 30308, USA

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*WELCOME to Innoplast Solutions 65th Event; **16th** on Re-Invention of Plastics!*

After 90 years of unmatched benefits to human life, our Plastics Industry has come under scrutiny due to issues threatening the future, namely, (1) Detrimental Impact of Plastics on Global Warming and Land -Ocean pollution. (2) Micro-Nano Plastic Particles & Leached Chemicals in our Food Chain, and thereby leading to (3) Stagnation of Business Growth.

Join us to witness the "Actions Needed" to INNOVATE the Stagnant / Commoditized Polymer-Plastics Industry!!!

September 15th (Tuesday) 2026

Theme: How to Re-Shape Plastics Industry

7:30 - 8:30 AM — Registration & Welcome

Session-I

Crash-Course on Polymer Science & Technology

for

Engineers / Chemists / Physicists / Business Executives

8:30 -10:00 AM (1)

Polymeric Materials: Catching Up to Interact at All-Levels of the Industry

Fundamentals of Polymer Science & Technology will be presented at an executive business level, especially the acronyms and parameters controlling the STRUCTURE-PROPERTY-PROCESSING-PERFORMANCE attributes of the polymeric materials; intent being to capture sufficient knowledge enabling one to interact with anyone in the polymer / plastic industry.

Dr. Yash Khanna, ***InnoPlast Solutions***, USA

10:10 - 10:30 — Coffee & Networking

Session-II

Reducing/Eliminating Dependence on Planet-Harming Fossil-Fuels

Alternate Feedstocks for Good-Old Plastics in Commercial Phase

10:30 - 12:00 (2)

Why Plastics Industry Must Go Non-Fossil Route and How ?

(a) Compelling Reason #1: Global Warming & Land-Ocean Pollution
(b) Compelling Reason #2: Supply Issues in Distant Future
(c) Compelling Reason #3: Un-Predictable Pricing
(d) Alternate Feedstocks: BioMass+GHG Emissions+HiTech-Recycled Plastics
(e) Cost of Alternate Feedstocks: a Non-Issue to Consumers

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

12:00 - 1:30 Lunch & Networking

Session-III

What is Going on Micro- and Nano Plastic Particles ?

1:30 - 2:30 (3)

Summary of Media Reports on Micro-Nano Particles:

(a) *Facts vs Fiction*
(b) *Reducing Exposure*

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

2:30 – 3:00 Coffee & Networking

Session-IV

New Product Development: Minimizing Failures for Cost-Effective R&D

3:00 - 5:00 (4)

- Evolution of NPD during 1930-1980's: Lessons Learned
- Popularity of NPD-StageGate Process: 1990's
- Risk Averse NPD based on Conceptual Innovation
- Process Map to Accelerate NPD: Mind-to-Market (or Shelf) in Months

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

5:00 – 6:00 *Cocktail Reception & Networking*

September 16th (Wednesday) 2026

Theme: Packaging Industry-Problem Solving

Session-V

Dimensional Stability Issues: Case-Histories & Solutions

9:00-10:00 (5)

- Roll-Conformity and / or Telescoping issues during storage
- Irreversible & partially reversible changes during transportation
- Unacceptable changes in laminates during thermoforming
- Stabilization of unoriented or highly oriented films

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

10:00-10:30 Coffee & Networking

10:30-12:00

Session-V

Gels / Visual / Adhesion Issues: Case-Histories & Solutions

(6)

Root-Cause Investigative Analysis of Gels & Related Visual Defects

- Study of gels, their classification, and discovering a broad spectrum of contaminating sources
- Role of additives & their incorporation
- Role of polymer phases & architect
- Fish-eye / lensing issues

Root-Cause Analysis of Adhesion Failures & Solutions

Dr. Edgar Leone, Chief Scientist, ***Exel Laboratories***, USA

12:00-1:00 Lunch & Networking

1:00-2:00

Session-VI

Enhancing Optical Performance: Newer Ways

(7)

Balancing Multiple Options to Achieve High-Clarity

- Nucleation vs Film Manufacturing Process: Pros & Cons
- Role of Super-Miscible Blends
- **Two-Step** process to achieve high clarity at high crystallinity & toughness

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

2:00-3:00

Session-VII

Barrier Films & Coatings: Boosting Performance

(8)

Given a Particular Film Construction; What Are Your Options ?

- Role of Crystallinity / Crystal Size & Separating it from Orientation
- Nano-Clays & Clays: Beyond Aspect Ratio; Its Exfoliation
- Clear Barrier Coatings: Achieving intended performance
- Metallized Coatings: Maximizing performance

Dr. Yash Khanna, President, ***InnoPlast Solutions***, USA

Course Instructors

Dr. Yash P. Khanna has around 50 years of highly diversified industrial experience in the areas of Plastics and Analytical Sciences, His career is credited with over 120 research publications, 25 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 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. His industrial affiliations include Chief Technology Officer at **Applied Minerals** (2013-2015), Senior Technology Fellow / Director of Technology at **Imerys** (2005-2009), a $5B minerals company and Manager of Reinforced Engineering Thermoplastics Program at **Rayonier** (2001-2004), a $3B forest products company. The great majority of his career was at **Honeywell** (1975-2001) formerly AlliedSignal, a $40B conglomerate company at its 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** of the Year" "**Sale** of the Year," and "**Save** of the Year"). Of the 5-Nobel Prizes in Polymers during 1901-2025, Dr Khanna had the privilege of technical associations with the **last 2-Nobel Laureates**; Prof DeGenes (1991) and Prof MacDermit (2000)

Now at InnoPlast Solutions, his technology driven business experience is playing a key role in offering "Value-Driven" Conferences, Courses and Consultation.

Dr. Edgar A. Leone has a wide range of experience in the application of advanced surface analytical techniques for industrial problem solving and materials characterization. Ed earned his MS and PhD degrees in Ceramics and Material Science from Rutgers University while working for AlliedSignal, which later merged with Honeywell. As a Principal Scientist in Honeywell's Analytical Science Laboratory, Ed was responsible for the Surface Analysis, Optical, and Electron Microscopy Groups. With over 30 years at Honeywell, Ed gained extensive experience in root cause failure analysis and industrial problem solving methods, and has numerous accomplishments in the Automotive, Aerospace, Polymer, and Engineered Plastics industries. He has broad technical expertise in XPS, Auger, ToF-SIMS, AFM, SEM, EDX, WDX and other surface and microscopy techniques. Ed is widely published, authoring a number of articles on a wide range of topics, and was co-author of a number of chapters in the book, *Guide to Materials Characterization*. In addition, Ed has 4 patents on spark plug tip design advancements and has made numerous presentations at professional meetings.