

Plastic Extrusion: Control & Troubleshooting

9-10 October 2018, Gurnee, IL

Venue: Holiday Inn Gurnee Convention Center
Managed by Czuba Enterprises Inc.

COURSE OVERVIEW :

WWW.PLASTICS-INDUSTRY.ORG

This 2-day course packs the basics of extrusion, importance of materials, design of extruder (and especially the dies), and fundamentals of processing conditions into a concise package. Although the fundamentals will be covered, special emphasis will be given to the most difficult extrusion process, Profile Extrusion. The importance Die Design coupled with the science of Melt Rheology, Fluid Dynamics and Flow related to the various profiles will be explained. This practical & comprehensive course will use real-life examples of how successful companies have resolved their processing problems during an in-depth analysis of "Troubleshooting the Extrusion Process" portion of this course.

COURSE TOPICS :

- Basic Principles
 - Overview of the extrusion process
 - Getting the material from hopper to die
- Common Extrusion Thermoplastics
- Process Equipment
 - Feed section
 - Screw & barrel design
- Processing Conditions
 - Temperature control
 - Importance of pressure control
 - Melt homogeneity
- Die Design Parameters
 - Flat Back dies
 - Semi-streamlined dies
 - Fully streamlined dies
- Sizing Technology
 - How is this done effectively
 - Differential sizing
 - European calibration technology
 - Modular sizing
- Troubleshooting
- The complete extrusion complex
- 5 key components of the process
- Common extrusion problems
- Size variance, flow differentials, aesthetics
- Frequency vs Magnitude
- Use of statistics to find "Root Cause"

INSTRUCTOR : DANIEL CYKANA

Daniel Cykana is the Chief Consultant for Extrusion Solutions, LLC, an organization focusing in on Die Design and extrusion processing problems. (www.extrusionprocessing.com) Daniel has dedicated his career to the plastics industry for the past 53 years.

- 1964-1978 Northland Plastics Inc. Director of Manufacturing
- 1978-2010 Bemis Mfg. Co (Advanced Technology Group) Director of Engineering
- 2010-2018 Extrusion Solutions, LLC, Chief Technology Consultant
- Society of Plastics Engineers 40 years, Senior Member
- SPE Instructor for 25+ years- Profile Extrusion
- Co-Author for SPE (Extrusion Technology & Troubleshooting Guide)
- Contributor to SPE Extrusion Toolbox
- International Speaker/Instructor on Extrusion in 18 countries
- SPE Extrusion Board Member for 4 terms
- Recipient of Distinguished Service Award for SPE
- Elected to Plastics Pioneers Association in 2014



REGISTRATION FEE : 1,000 US\$/Person

The registration fee includes documentation, lunch and refreshments

Earlybird Discount: 15% discount for registrations before 30 August 2018 / 10% discount for registrations before 10 Sept 2018 /5% discount for registrations before 25 Sept 2018

Group Discount: If 3 or more than 3 delegates join from the same organization, 10% discount will be offered on total registration fee

VENUE & ACCOMMODATION :

Holiday Inn Gurnee Convention Center, 6161 West Grand Avenue, Gurnee, IL 60031 Tel: 224-944-0601 www.higurnee.com

HOW TO REGISTER ?

Please download registration form at www.plastics-industry.org send to Mr. Len Czuba

PROGRAM SCHEDULE :

8.30AM TO 4.30PM

To register, please contact

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Organizer

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