

Profile Extrusion Die Design, Sizing & Troubleshooting

6-7 June 2018, Gurnee, IL

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

COURSE OVERVIEW :

WWW.PLASTICS-INDUSTRY.ORG

Profile Extrusion is the most difficult of the extrusion processes. Compared to Sheet & Film, Pipe, Extrusion Blow Molding, Filament, etc., Profile Extrusion requires an in-depth understanding of Die Design coupled with a complete understanding of the mechanics of extrusion processing. This course couples both Die Design parameters with a practical understanding of Melt Rheology, fluid dynamics and flows through various unique profiles. Day Two covers Sizing Technology covers European Calibration Technology, Differential Sizing and Modular Calibration and an in-depth analysis of "Troubleshooting the Extrusion Process."

COURSE TOPICS :

1. Basic Principles
 - ⊙ Common Profile Thermoplastics
2. Die Design Parameters
 - ⊙ Flat Back dies
 - ⊙ Semi-Streamlined Die
 - ⊙ Fully Streamlined Dies
3. Profile Die Considerations
 - ⊙ Drawdown
 - ⊙ Land Length & Land Length Ratios
4. Basic Part Design & Die Design
 - ⊙ Single Wall Profiles
 - ⊙ Unbalanced Wall Profiles,
 - ⊙ Cap coated Profiles
 - ⊙ Hollow Profiles
 - ⊙ Engineering Grade Materials
 - ⊙ How to Eliminate Sink Marks
5. Sizing Technology & Calibration
 - ⊙ History of Sizing
 - ⊙ Differential Sizing
 - ⊙ European Calibration Technology
 - ⊙ Modular Sizing
6. Troubleshooting the Profile Extrusion Process
 - ⊙ The Complete Extrusion Complex
 - ⊙ 5 Key Components of the Process
 - ⊙ Common Profile 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 :

- 950 US\$/Person (register before 30 Apr'18)
- 1,050 US\$/Person (register before 31 May'18)
- 1,200 US\$/Person (register after 31 May'18)

REMARKS :

- The registration fee includes documentation, lunch and refreshments.
- 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 and 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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