

Plastic Films Processing TRAINING WEEK

5-8 March 2018
ATLANTA, GEORGIA

Venue: Hilton Garden Inn Atlanta Airport North

This 4-day event on plastic films processing training week is divided into two separate seminars. One is focusing on "Polymer Science and Melt Rheology" by Prof. Kirk Cantor and other seminar is focusing on "Blown and Cast Films - Processing & Troubleshooting" This program is aimed for owners, plant managers, process engineers, floor supervisors and operators from manufacturing and research environments will benefit from the practical approach to improving quality and optimizing productivity. Senior operators, quality control and maintenance personnel will find the program particularly useful. Managers and owners will learn how to train their employees and how to select equipment for their factories.

Polymer Science and Melt Rheology

5-6 March 2018

Instructor: Prof. Kirk Cantor

Code:
PIDT-183

Contents

- Plastics Industry Overview
- Polymers
 - Introduction to Polymers
 - Polymer Structure
 - Polymer Chemistry
 - Commercial Polymers
- Characterization
 - Introduction to Polymer Properties
 - Physical Properties
 - Mechanical Properties
 - Thermal Properties
- Rheology
 - Key Terms
 - Flow Mechanisms
 - Shear Viscosity
 - Elongational Viscosity
 - Measuring Viscosity
 - Pseudoplastic Behavior
 - Analyzing Process Flow

(Remark: All participants of PIDT-184 will receive a complimentary copy of the 275 page book: Blown and Cast Film Processing and Troubleshooting, written by Paul Waller)

Blown and Cast Films Processing & Troubleshooting

7-8 March 2018

Instructor: Paul Waller

Code:
PIDT-184

Contents

- Basic Polymer Characteristics and Terminology
- Detailed Review of Film Extrusion Technologies
 - Blending systems
 - Grooved vs. smooth bore extruders
 - Blown and cast film die configurations for both single layer and co-extruded film lines
 - Bubble and melt curtain cooling and gauge control techniques
 - Film transport, post extrusion treatment and winding
 - Slitting and bag making technologies
- Troubleshooting Workshops
 - Dust, angle hair and snake skin
 - Screw and barrel wear
 - Surging
 - Melt Fracture
 - Interfacial Instability
 - Gels
 - Bubble and melt curtain instability
 - Surface treatment
 - Wrinkles
 - Roll geometry
 - Delamination of co-extruded structures
 - Heat sealing
 - Gauge variation

Prof. Kirk Cantor

Kirk Cantor is Professor of Plastics and Polymer Engineering Technology at the Pennsylvania College of Technology where he has been since 1990. Prior to joining the faculty at Penn College, he was an aerospace engineer at NASA where he worked with polyethylene film for high altitude scientific balloons. Kirk received his Bachelor of Science in Aerospace Engineering from the University of Maryland and his Master of Science and PhD in Polymer Science from The Pennsylvania State University. He is the author of "Blown Film Extrusion" from Hanser Publications and of numerous articles on polymer extrusion.

Paul Waller, P.Eng., MBA, Cert.P.P.

Paul Waller has been a renowned author and expert in film extrusion for more than 40 years. His clients include raw material suppliers, processors, end users, educational institutions and industry associations on 5 continents. Mr. Waller obtained his B.Eng. in Chemical Engineering at McGill University in Montreal and his MBA at York University Schulich School of Business in Toronto. Mr. Waller started his career at Dow Chemical's polyethylene technical services group before moving to Esso Chemical's Vinyl division. Mr. Waller designed and presented the Film Technology program for the Canadian Plastics Training Centre in Toronto and SENAI in Brazil. He was co-chair of the Canadian Plastics Sector Council, which established occupational standards for film operators and was chair of the Flexible Packaging division of the Society of Plastics Engineers. He has provided intensive in-house training to more than 1,200 operators, technicians and engineers on five continents in the last 17 years.

Trainers

Registration Fee / Person

- Polymer Science and Melt Rheology : \$950
- Blown and Cast Film - Processing & Troubleshooting : \$950
- Both Courses : \$1,750

Early Bird Discount: 10% Discount for Registrations before 31 January 2018

Group Discount: 10% Discount for Group of 3 or more from the same company- for the same program.

Remark: Registration fee includes training documentation, lunch and refreshments as appropriate.

Venue

Hilton Garden Inn Atlanta Airport North

3437 Bobby Brown Parkway, Atlanta, Georgia 30344
Tel: 630-627-9242

To register

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

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