

International Training Program (TechnoBiz)

Blown Film Extrusion

31 July – 1 August 2009, Hotel Borobudur, Jakarta, Indonesia



This training course is designed to provide a thorough overview of blown film extrusion, from introductory through advanced topics. With an emphasis on hardware and processing, the course will benefit all personnel involved with blown film. Other topics covered include blown film materials and troubleshooting. During the course, "The Blown Film Extrusion Simulator" software will be demonstrated.

Program Outline

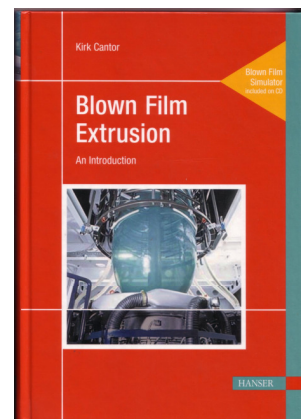
Introduction to Blown Film; Extrusion Fundamentals Overview (Five Hardware Systems, Six Functional Zones); **Blown Film Hardware - Upstream** (Solids Feeding), Grooved Feed Throat, Blown Film Dies - Side Fed Die, Bottom Fed Die, Spiral Mandrel Die, Co-extrusion Dies-Concentric, Stack, Oscillating Dies); Bubble Geometry; Bubble Cooling-General, Air Rings, Internal Bubble Cooling (IBC); Bubble Stabilization, Collapsing Frames, Haul-off, Winders - Surface Winders, Axial Winders; Film Treatment; Line Control; **Blown Film Materials** -Polymer Types, Rheology, Film Properties; **Blown Film Processing**- Melt Quality: Screw Design, Process Variables vs. Bubble Geometry, Process /Structure / Property Relationship; Co-extrusion -Dies, Interfacial Instability; **Troubleshooting - Extruder Problems** (Surging, High Melt Temperature, Excessive Cooling, Low Output), Film Problems (Melt Fracture, Thickness Variation, Bubble Instabilities, Die Lines, Gels, Low Mechanical Properties), Poor Optical Properties



Course Instructor- Prof Kirk Cantor

Dr. Kirk Cantor is a Professor of Plastics and Polymer Engineering Technology at Pennsylvania College of Technology, where he has been teaching for 17 years. His primary area of teaching and consulting is polymer extrusion. Prior to teaching, Dr. Cantor was an aerospace engineer at the National Aeronautics and Space Administration (NASA) where he specialized in polymers and processing of blown film used for

high altitude, scientific research balloons. He is author of well-known book "Blown Film Extrusion"



Registration Fee : 650 US\$/Person

Remark: The course fee includes lecture notes, lunches and refreshments.

FREE Book "Blown Film Extrusion" + "The Blown Film Extrusion" Simulation Software CD !! for all delegates who register before 30 June 2009.

Program Agenda: 08.30 am to 17.00 pm

Organized by:

TechnoBiz Communications Co., Ltd.

No. 300/53, Soi Lardprao 35/1, Lardprao Road,
Chandrakasem, Chatuchak, Bangkok 10900 Thailand

Tel: 66-2-938 2315 Mobile: 66-84-658 1444 Fax: 66-2-513 1301

Email: training@technobiz-asia.com Contact Person: Ms. Saowalak, Training Coordinator



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Registration Form

Instruction: Please fill all the information in English only

Organization Name

Address

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Tel Fax Email

Contact Person Tel Email

Participant Names :

Participant 1: Position Email

Participant 2: Position Email

Participant 3: Position Email

Participant 4: Position Email

Participant 5: Position Email

Registration Fee per Participant: 650 US\$

Payment is required with registration. Walk-in delegates with payment will be admitted subject to space availability.

Payment Method

Bank Transfer to Bangkok Bank, Ratchada-Latphrao Road Branch, A/C No: 177-0-70727-9
A/C Name: TechnoBiz Communications Co., Ltd., Swift Code: BKKBTHBK
(Kindly make payment for all bank related charges)

Credit Card Visa Master Card *(5% creditcard fee applies for processing)*

Card Number

Cardholder Name

Last 3 digits on signature panel Card Expiry Date

Signature of Cardholder

Date

Please send completed registration form to

TechnoBiz Communications Co., Ltd.

No. 300/53, Lardprao Soi 35/1, Lardprao Road, Chandrakasem, Chatuchak, Bangkok 10900 THAILAND

Tel: 66-2-938 2315 Mobile: 66-84-658 1444 Fax: 66-2-513 1301 Email: training@technobiz-asia.com

Website : www.technobiz-asia.com Contact Person: Khun Saowalak, Coordinator

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