

Tentative Agenda: 22-May-2022

**TAPPI: Blown & Cast Film Extrusion Short Course
Hyatt Regency Minneapolis – Minneapolis, Minnesota
Tuesday 4th – Thursday 6th / October / 2022**

Tuesday,

8:00 - 8:15

General Welcome, Course Overview, and TAPPI Antitrust Policy:
Scott Marks --- Dow Chemical

8:15 - 9:00

Intro to Product Structures and Terminology:
Carmelo Declet-Perez --- Dow Chemical

9:00 - 10:15

Polyethylene for Blown & Cast Film:
LD, HD, LMD, LLD, ULD, VLD, Plastomer/Elastomer
Wes Hobson --- Dow Chemical

10:15 - 10:30 --- Break

10:30 - 11:15

Polypropylene for Blown & Cast Film:
Francisco Carlos Ruiz --- Braskem (Brazil)

11:15 - 12:00

Additives for Films:
Slip, Antiblock, Antioxidant, Antifog, etc...
Fraser Waldie --- Nova Chemical

12:00 - 1:00: **Lunch Break**

1:00 - 2:00

Specialty Resins for Blown & Cast Film:
Nick Sturgis --- Dow Chemical

2:00 - 2:45

Understanding Rheology for Processing, & Hot-Stage Microscopy for Troubleshooting
Vipul Padman --- Berry Global

2:45 - 3:00 - Break

3:00 - 3:45

Pneumatic Conveying Technologies:
A Practical Guide for the Plastics Industry
Joseph Lutz --- Pelletron

3:45 - 4:30

Extruder Designs & Configurations for Blown vs Cast
Rich Kanarski --- Davis Standard

4:30 - 5:15

Extruder System Purging / Resin Transitions
Carmelo Declet-Perez --- Dow Chemical

5:30 - 7:00 - Evening activity (TBD)

Wednesday,

8:00 - 8:15 --- Welcome, Housekeeping, Reminders, etc.

8:15 - 9:00

Screw Designs for Blown vs Cast Film
Andy Christie --- SAM North America

9:00 - 9:45

Cast Film Feedblock Technologies:
Fixed Plane, Movable Vanes, Layer Multipliers and Nanolayer
Christine Ronaghan -- Cloeren Incorporated

9:45 - 10:00 --- Break

10:00 - 10:45

Cast Film Die Technologies
Manifold styles, External Deckles, Internal Deckles
Sam Iuliano -- Nordson/Extrusion Dies Inc.

10:45 - 12:00

Blown Film Die Technologies
Nested Spirals, Stacked Plates, Stacked Cones, Nano-Layer, IBC vs non-IBC designs.
John Perdikoulis - Compuplast

12:00 - 1:15 --- **Lunch Break**

1:15 - 2:00

Air Rings for Blown Film:

Single/Dual/Triple lip; Fixed/Elevating/Stacked; Auto adjusting air rings (for gauge control).

Curtis Seto --- Macro Engineering

2:00 - 2:45

Film Casting Section configurations:

Vacuum boxes, air knives, soft boxes, embossing, etc.

Lou Piffer -- Davis Standard

2:45 - 3:00 --- Break

3:00 - 3:45

Processing Parameters... Beyond the Die;

Influence for Blown & Cast Film Properties

Wes Hobson --- Dow Chemical

3:45 - 4:30

Extrusion Processing:

Safety around the Extruder & Polymer Processing Troubleshooting

Scott Weber - LyondellBasell

5:30 - 7:00 - Evening activity (TBD)

Thursday,

8:00 - 8:15 --- Welcome, Housekeeping, Reminders, etc.

8:15 - 9:00

Blown Film Haul-Off systems:

Bubble Cages (stabilizers and bubble sizing systems); Collapsing Systems (rollers/slats/covered slats); and Horizontal & Vertical oscillating systems

Curtis Seto --- Macro Engineering

9:00 - 9:45

Corona & Plasma Systems for Blown & Cast Film Extrusion

Rory Wolf - PackEdgeGlobal

9:45 - 10:00 --- Break

10:00 - 10:45

Online Measurement for Blown & Cast Film Extrusion
Ted Schnackertz -- NDC Infrared Engineering

10:45 - 11:30

Tools for Process Improvement
Andy Christie -- SAM North America

11:30 - 1:00: **Lunch Break**

* Allows extra time for those checking out.

1:00 - 2:00

Winders for Blown & Cast Film:
Surface, Center, Center-Surface, Gap Mode winding, Shafted vs Shaftless, etc...
Mark Wodrich -- Macro Engineering

2:00 - 2:45

Extrusion Processing:
Troubleshooting Gels and Various Other Issues
Lou Piffer -- Davis Standard

2:45 - 3:00 -- Break

3:00 - 4:30

Web Handling/Winding in Blown & Cast Film:
Challenges and Case Study Examples
Duane Smith -- Davis Standard

4:30 - 4:45 Turn in Evaluations / Hand out Certificates

4:45 End of Class