

EMMOUNT Technologies
& Extruder Tech, Inc.
88 Country Downs Circle
Fairport, NY, 14450

In-Plant Training:
Applied Fundamentals
of Plastic Extrusion

In-Plant Training

EMMOUNT
Technologies
&
Extruder Tech,
Inc.
Present

Applied
Fundamentals of
Plastic Extrusion

An intensive 3-day course which applies fundamental engineering understanding to plastic extrusion manufacturing operations.

In-Plant Training

Who Should Attend?

The engineer or engineering manager, new to extrusion or with experience, who is looking for realistic and tested theory, practice, and understanding of extrusion technology and plastic processing.

What they will gain.

They will gain an acute knowledge of the single screw extrusion process, extrusion equipment design and operation through an understanding and skillful application of the basic physical mechanisms.

- Process problems and trouble shooting
- Single screw characterization
- Scale-up
- Screw design principles
- Specification of new equipment
- Selection of the best screw design and extruder

Applied Fundamentals of Plastic Extrusion Instructors

Stephen J. Derezinski, PhD(M.E.)
University of Michigan
Extruder Tech, Inc.

An independent consultant and recognized expert in polymer extrusion with 30 years of practical extrusion design and operational experience with KODAK. He has also published numerous theoretical developments on extrusion technology and several patents.



Eldridge M. Mount III, PhD(Ch.E.)
Rensselaer Polytechnic Institute
EMMOUNT Technologies

An independent consultant and a recognized expert in polymer and film extrusion and metallization. He has over 27 years in extrusion theory, practice, design and operation with ICI Americas and Mobil Chemical Films. He has developed an extrusion melting model and has applied experience in screw and melt system design.



Each represents a unique balance of strong theoretical training and practical ability with a high level of skill and interest in making things work.

Learn extrusion directly from those who developed current technology by applying solid engineering fundamentals for decades as industrial experts.
Let us show you how to make Extrusion Technology=Profit.

Course Outline: 3 days

Day 1

- Introduction to Extrusion Equipment
- Review of Rheological Principles
- Extruder Components
- Extruder Screws
 - Screw Geometry
 - Standard & General Purpose Screws
 - Barrier Screws
 - High Performance Screws
 - Two-Stage & Vented Screws

Day 2

- Extrusion Mechanisms & Models
 - Solids Conveying
 - Melting
 - Metering
 - Mixing
- Extruder Modeling
- Mixer Design
- Scale-Up Modeling: Methods and Procedures

Day 3

- Extruder Performance Characterization
- Comparison of Theory and Measurements
- Troubleshooting Extrusion Problems
- Melt Quality Defined
- Melt Filtration
- Principles and Practice of Screw Design
- Input Data and Material Characterization
- Extruder & Screw Specification

A five-volume set of notes is provided for each student to follow the presentations.

Each instructor has done recent significant original work in extrusion theory, including solids conveying, melting, and metering, and ***much of the technology cannot be found elsewhere.*** Their theoretical developments are tempered by their years of experience to provide a solid platform of understanding that has been constantly proven in industrial applications. ***Learn extrusion from the people that develop the theory and make it work.***

Class size up to 5 students: Fee of \$7500 US plus travel. Additional students \$1300 US per student.

To schedule a course for your plant, contact:

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