

Polymer processing

Organiser

Jean-François AGASSANT

Duration

5 days (30h)

Dates

November 2016

Tuition / Cost

2 500 € net

Location

MINES ParisTech

Centre de Mise en Forme des Matériaux

1, rue Claude Daunesse

CS 10207

06904 Sophia Antipolis Cedex (France)

Prerequisites

Basic knowledge of processing of polymers. This course is proposed as a specialized session in the framework of the European Athens week, open to attendants from industry

Learning Objectives

- To get scientific and technical knowledge of processing of polymers

Programme

Monday

- 9h-9h30 Welcome
- 9h30-12h Introduction to polymer Industry
- 13h30-17h Rheologie of molten polymers

Tuesday

- 9h-12h Polymer Crystallization
Morphological, Thermodynamical and kinetic aspects
Structure development in polymer forming processes
- 13h30-16h30 Lab Works

Wednesday

- 9h-12h Lab Works
- 13h30-15h30 Polymer processing
Single screw extrusion : cast film and film blowing
- 15h45-16h45 Visit of Cemef Labs

Thursday

- 9h-12h Lab Works
- 13h30-16h30 Lab Works

Friday

- 9h-12h Lab Works
- 13h30-15h30 Mechanical properties of polymers
- 15h30-16h Conclusion / Evaluation

5 labs Works done by rotation

- Rheology of molten polymers
- Polymer crystallization
- Mechanical properties
- Injection moulding
- Blow moulding

Information & Registration

Marie-Françoise GUENEGAN

Email : marie-françoise.guenegan@mines-paristech.fr

Department Mechanical and Materials Engineering

Centre de Mise en Forme des Matériaux (CEMEF)

Organiser : Jean-François AGASSANT

Email : jean-francois.agassant@mines-paristech.fr

<http://www.cemef.mines-paristech.fr>