

Europe Polyurethane TRAINING WEEK 2018

8-12 October 2018, Strasbourg, France

Venue: Novotel Strasbourg Centre Halles



PU Formulation Development & Optimisation

Trainer : Dr. Grazyna Mitchener / Course Code: PU-35
REGISTRATION FEE: 750 € / Person



Development of Fire Resistant Polyurethane Products

Trainer : Dr. Grazyna Mitchener / Course Code: PU-36
REGISTRATION FEE: 750 € / Person



Adhesion Science and Isocyanate / Polyurethane Adhesives

Trainer : Dr. Joseph Marcinko / Course Code: PU-37
REGISTRATION FEE: 750 € / Person



Chemistry and Technology of Rigid Polyurethanes

Trainer : Dr. Grazyna Mitchener / Course Code: PU-38
REGISTRATION FEE: 750 € / Person



Polyurethanes: Chemistry, Morphology, and Thermal Analytical Analysis

Trainer : Dr. Joseph Marcinko / Course Code: PU-39
REGISTRATION FEE: 750 € / Person

Agenda: 09.00-17.00 hrs

Organizer

TECHNOBIZ

Media Partners

Polyurethanes
Adhesives & Foams

PU Formulation Development & Optimisation

- Principles of minimizing time and cost of New Product Development (NPD)
- Identifying commercial and technological requirements for the new product
- Researching technical state-of-the-art
- Choosing optimum formulations/technologies
- Selecting optimum raw materials and equipment
- Laboratory scale experimentation techniques
- Scaling-up procedures

Development of Fire Resistant Polyurethane Products

- The nature of fire and theoretical ways to prevent it.
- Fire retardants: types, properties and applications
- Fire resistance testing and standards
- Principles of developing PU formulations and designing PU products with enhanced fire resistance.
- Polyisocyanurate (PIR) chemistry, technologies and manufacturing.
- Novel techniques monitoring manufacturing processes and quality of fire resistant PU products.
- Novel materials and technologies improving PU's fire resistance.

Adhesion Science and Isocyanate / Polyurethane Adhesives

- Overview of Adhesion Concepts and Mechanisms
- Mechanical Properties of Polyurethanes as Related to Adhesives
- PU Adhesive types - Non Reactive Adhesives / Reactive Adhesives
- PU adhesive application examples and case studies
- Protein-Isocyanate Hybrid Adhesives

Chemistry and Technology of Rigid Polyurethanes

- Rigid polyurethanes chemistry theory
- Types of rigid polyurethanes
- Applications of rigid polyurethanes
- Raw materials
- Formulation principles
- Processing methods
- Testing procedures

Polyurethanes: Chemistry, Morphology, and Thermal Analytical Analysis

- Understanding Polymer Principles
- Isocyanate and Polyol Chemistry and Manufacturing
- Developing an Understanding of How Chemical Structure Relates to Polymer Properties
- Polyurethane Chemistry and Characterization
- Thermal Analysis Instrumentation
- Experimental Considerations
- Industrial Problem Solving Using Thermal Analysis

TRAINERS

Dr. Grazyna Mitchener: Dr. Grażyna Mitchener is a director and principal consultant in Polychemtech Ltd. – a technical and business consultancy specialising in innovative PIR/PUR and other polyurethane products and technologies. From 1996 to 2008 she worked for Celotex (UK), developing first in Europe PIR rigid insulation products. For the first ten years of her career she was an academic researcher and lecturer in Poland, where she worked on high performance, fire and heat resistant polymeric materials. She gained her Ph.D. in Polymer Chemistry and Technology in 1992. She is the author of 8 patents, 40 scientific papers, conference presentations and training workshops.

Dr. Joseph Marcinko: Dr. Joseph Marcinko is Principal Scientist and President of Polymer Synergies LLC, and Principal Scientist for BioPolymer Technologies, Ltd. Dr. Marcinko has over 30 years of industrial R&D, research management, and academic experience. His interests and expertise are in the areas of polyurethane chemistry, biopolymers, adhesion science, composite materials, polymer characterization, solid-state NMR spectroscopy, and polymer structure-property relationships. He is an adjunct professor at Cumberland County College where he teaches Physical Science, Environmental Science, and Principles of Science. He also holds a secondary education teaching certification. Dr. Marcinko has authored over 30 publications, and has 6 patents and 7 patents pending.

How to Register:

Please download registration form at www.polyurethane-industry.org and send the filled form to technobiz.europe@gmail.com.

Venue:

Novotel Strasbourg Centre Halles
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EarlyBird / Group Registration:

- *Early Bird Registration* : 5% Discount for the registrations before 30 August 2018
- *Group Registration*: 10% discount for a group of 3 or more delegates for the same program from the same organization.