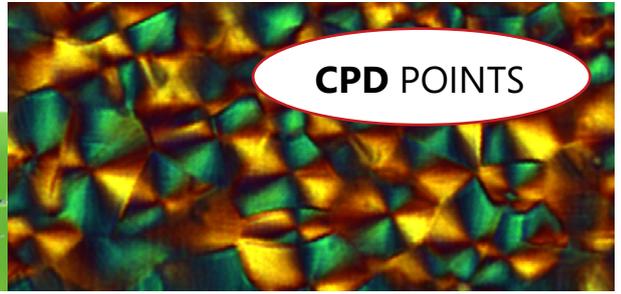




Short Course in Polymer Processing and Plastics Product Development 5–7 August 2015



Career-enhancing training in product development, materials compounding and moulding processes for polymer materials and plastics components

The short course in Polymer Processing and Plastics Product Development provides delegates with an introduction to plastics as materials, including their development and compounding technology. The numerous influences of fillers and filler–matrix interaction, as well as the machine and process design are discussed in-depth with a focus on the design of flame-retardant compounds, polymer modifications, testing and application.

This intensive three-day course is divided into three parts – each with the aim to logically improve delegates' knowledge about plastics engineering. The course also gives than an overview of shaping processes, with a focus on injection moulding. In-depth process-related properties of plastics, special injection moulding technologies and process chains are also reviewed.

Course content

- Day 1: Compounding of multiphase plastics
- Day 2: Shaping of plastics
- Day 3: Processing and product development

Who should enrol?

Managers, entrepreneurs, plastics technologists, engineers, chemists and other delegates involved in the design, manufacture, product design and marketing of plastics products.

Admission requirements

Some prior knowledge or experience in the field of plastics conversion or engineering is recommended.

Learning outcomes

The objective of this course is to review aspects of the current state of the art in polymer compounding, plastics injection moulding and product engineering. On successful completion of the course, delegates will have the knowledge and understanding to place them in a position to deal with aspects of

- principles of polymer compounding and processing and their effects on morphological structure and properties of manufactured plastic products, and
- material and process selection, product design for manufacture, plastics conversion techniques, especially injection moulding and in-mould plastics bonding

The first day of the course is presented by Prof Udo Wagenknecht, Head of Processing at the Leibniz Institute of Polymer Research in Dresden, Germany. Prof Wagenknecht specialises in polymer material development and compounding technology. He has extensive experience as a R & D Manager of a compounding company and as a long-term research leader at the IPF Dresden. He is an Extraordinary Professor at a German university where he lectures under- and postgraduate students in plastics engineering.

Prof Udo Wagenknecht



Dr Ines Kuehnert



The second and third days of the course are presented by Dr Ines Kuehnert, Head of Research: Shaping Processes and Simulation in the Processing Department at the Leibniz Institute of Polymer Research in Dresden, Germany. Dr Kuehnert is a mechanical engineer and completed her PhD degree in the assembly injection moulding process and process-induced interfaces. She specialises in product and process development and her experience stretches over three famous German research institutes. At the IPF she heads her own research group and she also presents lectures at Universities and German Industries.

Course fee (VAT incl.)

R5 000.00 per delegate (for three days)

Delegates can also enrol for Day 1 only or Days 2 and 3 only at R2 000.00 per day.

Course notes provided on a flash drive and refreshments are included.

Registration and enquiries

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