

6th ICPC Short Course on Polyolefin Characterization Techniques Agenda

Sunday, November 6, 2016		GPC - Practical Considerations <i>David Gillespie</i>	
7:30 - 8:15	Registration.	11:40 – 13:00	<ul style="list-style-type: none"> · Sample and System Preparation. · Column Technology. · Detector Technology. · Band Broadening considerations. · Systematic Approach.
Introduction to Polyolefins <i>Joao Soares</i>			13:00 – 14:00 <i>Lunch</i>
8:15 – 9:00	<ul style="list-style-type: none"> · Polyolefin types. · Olefin polymerization reactor types. · Olefin polymerization catalysts. · New polyolefins. · Microstructure – Properties. 	CCD Techniques: TREF, CRYSTAF, CEF and CFC <i>Benjamin Monrabal</i>	
9:00 - 9:30	<ul style="list-style-type: none"> · Polyolefins Microstructure. · IR Spectroscopy, MMD, CCD, Bivariate Distribution. 	14:00 – 15:20	<ul style="list-style-type: none"> · Fundamentals of Crystallization techniques. · TREF. · CRYSTAF. · CEF · Calibration and Calculations. · Hyphenated Techniques. · Cross Fractionation Chrom.
9:30 - 10:30	<ul style="list-style-type: none"> · Basic GPC mechanism. · Molecular Weight average concept. · GPC retention. · Band broadening. · Different ways to do calibrations. · GPC-Light Scattering. · GPC-Viscometry. · Universal calibration. · Triple detector. · Mark Houwink Plot. · Quad detector. 	15:20 - 15:40	<i>Coffee Break</i>
10:30 - 10:50	<i>Coffee Break</i>	High Temperature HPLC <i>Willem Degroot</i>	
10:50 – 11:40	<ul style="list-style-type: none"> · Conventional GPC. · Viscometer. · Light Scattering. · Chemical Composition along the MMD. 	15:40 - 16:30	<ul style="list-style-type: none"> · Fundamentals of Liquid Chromatography. · Background of HT-LC Development. · High Temp. Solvent Gradient Interaction Chromatography. · High Temp. Thermal Gradient Interaction Chromatography. · Applications and New Developments.
GPC - Calculations <i>Alberto Ortín</i>		Preparative Fractionation <i>Benjamin Monrabal</i>	
16:30 - 17:00		16:30 - 17:00	<ul style="list-style-type: none"> · Preparative Fractionation techniques. · Molar Mass Fractionation. · Composition Fractionation.
Applications		17:00 – 18:00	<ul style="list-style-type: none"> · Application examples.