

POLYOLEFIN CHARACTERIZATION

SHORT COURSE PROGRAM

October 15, 2006, Houston
Travis Room - Mezzanine Level

7:30 – 8:00 **Sign In**

8:30 – 9:15 **Introduction to Polyolefin Microstructure**

João Soares
University of Waterloo

- Molecular Weight Distribution
- Chemical Composition Distribution
- Long Chain Branching

9:15 – 10:00 **GPC Analysis of Polyolefins (I)**

David Gillespie
The DOW Chemical Co.

- Experimental, Calibration

10:00 – 10:15 **Coffee Break**

10:15 – 11:00 **GPC Analysis of Polyolefins (II)**

David Gillespie
The DOW Chemical Co.

- LS, Viscometry and IR Detectors, LCB

11:00 – 11:45 **TREF and CRYSTAF Analysis of Polyolefins (I)**

Benjamin Monrabal
Polymer Char

- Theory, Experimental, Calculation

11:45 – 13:00 **Lunch**

13:00 – 13:45 **TREF and CRYSTAF Analysis of Polyolefins (II)**

Benjamin Monrabal
Polymer Char

- Calibration, LS, Viscometry Detectors and Special Techniques

13:45 – 14:45 **Composition – Molar Mass Dependence**

Benjamin Monrabal
Polymer Char

- Preparative Fractionation, TREF-GPC.

14:45 – 15:00 **Coffee Break**

15:00 – 16:00 **Applications to Industrial Problem Solving**

Colin Li Pi Shan
The DOW Chemical Co.

16:00 – 17:00 **Open Discussion**

Closing Session