

Dispersion of Powders in Liquids and Stabilization of Suspensions

November 28-30, 2016 Radisson Blu Hotel - Malmö - Sweden

Lecturer: Prof. Tharwat Tadros

Monday, November 28

08:30 - 08:45	Registration
08:45 - 09:45	General introduction
09:45 - 10:00	Short break
10:00 - 11:00	Powder wetting
11:00 - 11:30	Break with beverages and snacks
11:30 - 12:30	Critical surface tension of wetting, role of surfactants and powder dispersion
12:30 - 13:45	Lunch
13:45 - 14:45	Structure of the solid / liquid interface and electrostatic stabilization
14:45 - 15:00	Break with beverages and snacks
15:00 - 16:00	Electrokinetic phenomena and the zeta potential
19:00 -	Course Dinner at Radisson BLU Hotel. Assembly at the hotel reception.

Tuesday, November 29

09:00 - 10:00	General classification of dispersing agents and adsorption of surfactants at the solid / liquid interface
10:00 - 10:15	Short break
10:15 - 11:15	Adsorption of polymers at the solid / liquid interface
11:15 - 11:30	Break with beverages and snacks
11:30 - 12:30	Stabilization of dispersions using polymeric surfactants and the theory of steric stabilization
12:30 - 13:45	Lunch
13:45 - 14:45	Properties of concentrated suspensions
14:45 - 15:00	Break with beverages and snacks
15:00 - 16:00	Characterisation of suspensions and assessment of their stability

Wednesday, November 30

08:45 - 09:45	Methods of evaluation of suspensions without dilution - Rheological techniques
09:45 - 10:00	Short break
10:00 - 11:00	Rheology of concentrated suspensions
11:00 - 11:15	Break with beverages and snacks
11:15 - 12:15	Sedimentation of suspensions and prevention of formation of dilatant sediments
12:15 -	Lunch