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Kent State's Rheology, Dispersion and Adhesion Courses

The Coatings and Rheology division of the Separation and Surface Science Center in the Chemistry Department of Kent State University will present three short courses in the spring of 1994. The courses are: "Applied Rheology for Industrial Chemists", April 25-29; "Dispersion of Pigments and Resins in Fluid Media", May 9-13; and "Adhesion Principles and Practice for Coatings and Polymer Scientists", May 23-27. These programs will emphasize basic principles as well as their application and practice.

The adhesion program is as follows:

Monday, May 23

"Interfacial Energies and Their Role in Adhesion", Richard J. Ruch, Kent State University; "Deformation and Fracture of Elastomeric Adhesives", Alan N. Gent, The University of Akron; "General Rheology and its Application to Adhesion", Donald L. Hunston, National Institute of Standards and Technology; "Fracture Behavior of Glassy Adhesives", Donald L. Hunston.

Tuesday, May 24

"Fracture Mechanics and Bond Durability Considerations", James Koutsky, University of Wisconsin; "Etching, Cleaning and Surface Modification of Polymer and Other surfaces", James Koutsky; "Principles of Elastomer Tack", Gary R. Hamed, The University of Akron; "Organofunctional Silanes as Adhesion Promoters and Cross-linkers", Bruce A. Waldman, OSi Specialities, Inc.

Wednesday, May 25

"Adhesion in Composite Materials: Principles, Measurement and Effect on Composite Mechanical Properties", Lawrence T. Drzal, Michigan State University; "Microscopic/Spectroscopic Analysis of Adhesion to Solid Substrates", James P. Wightman, Virginia Tech; "Application of Surface Analysis to Adhesion of Coatings", Kenneth D. Bomben, Perkin Elmer Physical Electronics Laboratories; "Bonding and Chemistry of Structural Adhesives", Kurt C. Frisch, Jr., 3M Company.

Information can be obtained from, Carl J. Knauss, Kent State University, Chemistry Department, P.O. Box 5190, Kent, OH 44242-0001, USA; phone 216/672-2327.

Thursday, May 26

“Corrosion Aspects of Paint Adhesion and Adhesive Bond Durability”, Ray A. Dickie, Ford Motor Company; “Surface Chemistry of Release”, Michael J. Owen, Dow Corning Corporation; “Fundamental and Practical Aspects of Pressure Sensitive Adhesives, Caulks and Sealants”, Krishan C. Sehgal, Union Carbide Corporation; “Formulation, Application and Evaluation of Adhesives in Web Form”, James A. Miller, Chemsultants International Network; “Plastic to Plastic Adhesion”, Rose Ann Ryntz, Ford Motor Company.

Friday, May 27

“Bonding Plastics and Elastomers”; “Adhesive Application Methods”, Edward M. Petrie, ABB Transmission Technology Institute.