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Announcement

Polymer Conference Series

Four programs on various aspects of polymer chemistry will be held at the University of Utah, June 10-July 12, 1974. These programs are as follows:

1. Polymer characterization

The purpose of this program is to present to scientific personnel a comprehensive review of the latest theory, instrumentation, and techniques used to characterize and evaluate the chemical properties of polymers.

Special emphasis will be given to the following subjects: Molecular weight and molecular weight distribution Viscosity-molecular weight relationships Elution and gel permeation chromatography Light-scattering X-Ray analysis Electron microscopy Infrared analysis Nuclear magnetic resonance Mass spectroscopy Thermal analysis Pyrolysis techniques Surface characterization

2. Mechanical properties of polymers

The purpose of this program is to provide scientific personnel with knowledge of the fundamentals governing the properties of polymeric materials. The relationship between molecular structure and morphology to physical properties will be reviewed in depth.

Special emphasis will be given to the following subjects: Morphology in bulk polymers at the molecular level Relaxations in hydrocarbon crystals and polymers Theoretical models for relaxations in polymers Strain hardening and prediction of tensile strength Impact characteristics Plastic deformation of fiber structure Reinforcement characteristics of fillers Multi-finite deformations Sliding friction Fracture phenomena Composite structure

3. Adhesion

The purpose of this program is to provide a comprehensive treatment of parameters pertaining to adhesion. Consideration will be given to the function of polymer structure on adhesion properties. The role of molecular forces, electrostatics, surface phenomena, interfacial processes, and failure mechanism will be covered in detail.

Special emphasis will be given to the following subjects: Relationship of viscoelasticity to peel strength Surface preparations and their effects on bonding Mechanical behavior of bonded joints Filler matrix interactions Adhesion of composites and composite structures Sealants Evaluation of adhesives

4. Flammability of materials

This program has been designed to provide a basic insight and in-depth understanding of flammability as it pertains to the built environment. A critical review of government, industry, and university programs will be presented.

Special emphasis will be directed toward the following areas of interest:

Modeling of fire

Scaling analysis of flammability tests

Smoke movement and spread

Measurement and quantification of smoke

Effects of fire retardants on the nature of smoke

Analysis of smoke

Physiological response to smoke and combustion products

Toxicological aspects of combustion

Personnel of the University of Utah's Flammability Research Center will provide demonstratio as pertaining to their extensive research programs.

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