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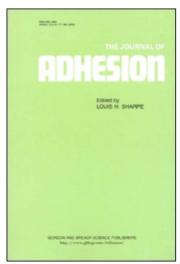
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# 1991 Winter Gordon Research Conferences

#### COMPOSITES

Doubletree Hotel, Ventura, California, U.S.A. A. N. Gent, Chair; R. S. Porter, Vice Chair 14–18 January, 1991

- F. N. Kelley, discussion leader
- W. Zukas, "Surface effects on epoxy cure reactions."
- D. Plazek, "Physical changes in bisphenol a epoxy resins."
- T. L. St. Clair; J. G. Williams, discussion leaders
- J. Schultz, "Role of adhesion and interphase in fiber-matrix composites."
- D. Matsumoto, "New toughness test methods for composites."
- Sir G. Allen, discussion leader
- W. Wu, "Crosslinking processes in bimodal thermosetting resins."
- J. Hedrick, "Fluorine-containing networks as resins for composite boards."
- V. Altstadt, "Interlaminar fracture and damage tolerance."
- E. P. Woo; R. J. Farris, discussion leaders
- D. Allara, "Role of interactions and reactions at interfaces."
- I. Lee David, "Microstructural constitutive theory for granular materials."
- R. M. Ikeda, discussion leader
- W. Shultz, "Fluorene resin composites."
- A. Salem, "Thermoplastic matrix composites from cyclic resins."
- B. C. Benicewicz, "Liquid crystal thermosets."
- R. L. Powell, discussion leader
- J. Kardos, "Suppression of voids during processing of composites."
- H. Kia, "Parameters that affect the appearance of composites."
- L. C. Yanyo, discussion leader
- F. H. J. Maurer, "Role of the interphase in particulate composites."
- H. Ishida, "Interphase engineering in composites."
- N. Sato, "Deformation mechanism of composite interphase."
- A. F. Yee, discussion leader

Short presentations by conferees

- K. M. Liechti, discussion leader
- R. Schapery, "Damage initiation and growth in composites."
- H. Daniel Wagner, "Microcomposites as experimental models."

#### **POLYMERS**

Doubletree Hotel, Ventura, California, U.S.A.

A. D. English, Chair; M. A. Winnik, Vice Chair

6-11 January, 1991

## Novel polymer architecture

- R. S. Irwin, "Influence of macromolecular conformation on physical properties of aramids."
- D. J. Brunelle, "Synthesis and polymerization of cyclic oligomeric carbonates."
- R. D. Miller, "Spectroscopy of polysilanes."

#### Theory

- M. Blanco, "The modeling and property estimation of amorphous polymers in the bulk."
- K. S. Schweizer, "Microscopic theories of the structure and thermodynamics of polymer liquids."
- U. Suter, "An atomistic view of diffusion of gases through glassy polymers."

## Polymer dynamics

- H. W. Spiess, "Elucidating the structure and dynamics of polymers by two and three dimensional solid state NMR."
- E. T. Samulski, "NMR studies of oriented fluid polymer phases."

## Short topics and invited posters

- B. B. Sauer, "Neutron reflection and spectroscopic ellipsometry studies of buried polymer interfaces."
- P. J. Phillips, "New crystalline forms of DNA."

#### Polymer solutions

- M. S. Wolfe, "Structure and rheology of swellable microgels."
- J. Odell, "Molecular solutions in extensional flows."
- R. H. Colby, "Linear viscoelasticity of polymer solutions."

### Creation of macroscopic order on polymeric systems

- J. C. Wittman, "Thin highly oriented polymer films produced by mechanical deposition and their use as orienting substrates."
- H. W. Schmidt, "Orientation of functional guest-molecules in ordered polymer systems."

### Structure/property relationships

- M. Kobayashi, "Effects of conformational and configurational structures of thermodynamic and mechanical properties of crystalline polymers."
- A. S. Hay, "New synthetic approaches to high performance polymers."

R. Simha, "Thermal and pressure properties of polymers and their mixtures: A unified approach."

Surfaces and interfaces

J. T. Koberstein, "Interphase partitioning in multiconstituent polymers."

For further information contact:

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