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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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