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Gordon Research Conferences

POLYMERS

Shiro Matsuoka, Chairman
Matthew Tirrell, Vice Chairman
January 5–9, 1987
Miramar Hotel, Santa Barbara, CA, U.S.A.

5 January. Molecular dynamics (Isaac Sanchez, discussion leader): Lucien Monnerie, “Segmental motions of polymer chains in bulk above T_g ”; Graham Williams, “Molecular dynamics and alignment behavior of thermotropic liquid crystalline polymers as studied by dielectric relaxation spectroscopy.” (M. Tirrell, discussion leader): Poster session.

6 January. Relaxation phenomena (William MacKnight, discussion leader): Glenn H. Fredrickson, “Statistical mechanical modeling of cooperative relaxation phenomena near the glass transition”; Bryan E. Read, “Dynamic mechanical and creep studies of PMMA in the alpha and beta relaxation regions. Physical aging effects and nonlinear behavior.” Structure-properties of polymeric glasses (R. Robertson, discussion leader): Ulrich W. Suter, “Atomistic modeling and estimation of properties of bulk amorphous glassy polymers”; Edward J. Kramer, “Case II diffusion in polymers.”

7 January. Surface and thin layers (F. S. Bates, discussion leader): M. Muthukumar, “Polymer surface interactions—theory and simulations”; John Rabolt, “Structure and topography of polymer monolayers by infrared spectroscopy and scanning tunneling microscopy.” Optical properties (D. Ulrich, discussion leader): Shogo Saito, “Role of polymers in the optical data storage media by using photochromism”; James Stamatoff, “The development of polymers for nonlinear optical devices.”

8 January. Chemical reactions (Donald Paul, discussion leader): Robert Grubbs, "Organometallic routes to monodispersed and block copolymers"; Kohei Sanui, "Synthesis of polyheteroaromatics at the air-water interface." Special anniversary session (S. Matsuoka, discussion leader): Sam Krimm, "From polyethylene to polyalanine: A polymer spectroscopist's odyssey."

9 January. Crystalline polymers (Fred Khoury, discussion leader): David M. Sadler, "New explanation of chain folding"; Bernard Lotz and Jean Wittman, "Interaction between crystalline polymers and selected organic substrates."

COMPOSITES

James C. Seferis, Chairman
Gino Nicolais, Vice Chairman
January 12-16, 1987
Miramar Hotel, Santa Barbara, CA, U.S.A.

Interrelating Design, Manufacturing, and Chemistry

12 January. Integrating matrices and reinforcements (R. F. Landel, discussion leader): S. S. Sternstein, "Continuous fiber reinforced composites from thermosets to thermoplastics"; C. Tucker, "Short vs. continuous fiber composites." Chemical analysis and resistance (R. B. Prime, discussion leader): J. L. Koenig, "Fourier transform infrared spectroscopy of optimized interfacial structure of composites"; D. C. Bonner, "Solvent resistance of fiber reinforced advanced polymeric composites."

13 January. Processing and manufacturing (J. L. Kardos, discussion leader): J. Gotro, "Thermoanalytical characterization of lamination"; T. G. Gutowski, "Mechanics of composite consolidation." Anisotropic analysis and properties (E. F. Fitzgerald, discussion leader): S. Guceri, "Advanced computational methods for complex shape thermoplastic laminates"; D. R. Moore, "Anisotropic characterization of fracture toughness in unidirectional laminates."

14 January. Failure analysis and usage (Z. Hashin, discussion leader): P. S. Theocaris, "The elliptic paraboloid failure criterion in composites"; S. Tsai, "Design of laminates based on limit and ultimate loads." Composite durability (J. K. Lees, discussion leader): C. C. Chamis, "Composite progressive fracture including environmental effects"; L. B. Ilcewicz, "Applied hygrothermal characterization and analysis of composite."

15 January. Composite structural design (J. C. Halpin, discussion leader): K. K. Kedward, "Evaluation of current design practices"; O. A. Bauchau, "Innovative design with composites." (G. Nicolais, discussion leader): Contributions by participants.

16 January. composite long-term durability (W. Knauss, discussion leader): J. Augl, "Non-linear creep effects in relation to physical aging, temperature and moisture"; F. W. Crossman, "Integration of long-term performance considerations in the design process."

For further information contact:

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