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The Adhesion Society: Preliminary Program of the 14th Annual Meeting

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The Adhesion Society: Preliminary Program of the 14th Annual Meeting Clearwater, Florida, U.S.A.

H. M. Clearfield, Program Chairman; J. A. Filbey, Local Arrangements

Sunday, February 17, 1991

2:00–7:00 PM REGISTRATION

6:00–7:30 PM PRESIDENT'S RECEPTION

Monday, February 18, 1991

8:15 AM OPENING REMARKS

8:30 AM SESSION I: POLYMERS

1. *INVITED Theoretical Relevance of Hard-Soft Acid-Base (HSAB) Principles to Solid Adhesion*, L.-H. Lee, Xerox Webster Research Center
2. *Chemistry and Adhesive Properties of Heterocyclic Containing Poly(Arylene Ethers)*, J. W. Connell, NASA-Langley Research Center
3. *Modification of Crosslinked Epoxies by a Polar Monofunctional Additive*, G. Haldankar, E. Shockey and A. Garton, University of Connecticut
4. *Mechanical and Dynamic Mechanical Properties of Films Derived from Thiol Photo-Crosslinked Norbornene Resins*, M. A. Rakas and A. F. Jacobine, Loctite Corporation
5. *Adhesive Properties of Polycyanurates*, D. A. Shimp and S. J. Ising, Rhone-Poulenc, Inc.
6. *PRESENTATION OF THE ADHESION SOCIETY AWARD*

1:45 PM SESSION II: EVALUATION

1. *INVITED Fracture at and Near the Interface between Two Viscoelastic Solids*, W. G. Knauss, California Institute of Technology
2. *Comparison of Methods to Assess Fiber-Matrix Interface Strength*, P. Herrera-Franco, W. L. Wu and D. L. Hunston, National Inst. of Standards and Technology, and L. T. Drzal, Michigan State University

3. *The Effects of Cure and Loading Conditions of Fiber-Matrix Adhesion*, E. Sancaktar, Clarkson University, and A. Turgut, Firat University
4. *Mixed Mode Fracture Under Cathodic Delamination*, K. M. Liechti and W. Adamjee, University of Texas
5. *Durability Characterization and Life Predictions of Cathodically Protected Elastomer to Metal Adhesive Bonds*, R. F. Harnade, Metcal, and D. A. Dillard, VPI & SU
6. *A Fracture Mechanics Approach to Characterizing Cyclic Debonding of Varied Thickness Adhesive Joints to Electroprimed Steel Surfaces*, D. Schmueser, General Motors Research Laboratories

6:00 PM POSTER SESSION

Tuesday, February 19, 1991

8:25 AM SESSION III: INTERFACIAL CHEMISTRY AND CHARACTERIZATION

1. *INVITED The Role of the Interphase on Adhesion of Coatings*, H. Ishida, Case Western Reserve University (tentative)
2. *Characterization of the Surface Chemistry of Poly(benzobisoxazole) Films and Fibers*, L. C. Lopez and R. G. Dillingham, Dow Chemical Company
3. *Manipulation of Fiber-Matrix Adhesion Using Attached Pendent Chains*, C. T. Chou and L. S. Penn. Polytechnic University
4. *Acid-Base Interactions in Adhesion: The Characterization of Surfaces and Interfaces by XPS*, J. F. Watts, M. M. Chehimi, and E. M. Gibson, University of Surrey
5. *An Inverse Gas Chromatographic (IGC) Study of Treated Aluminum Surfaces*, J. H. Burness, Penn State University, and J. G. Dillard, VPI & SU
6. *New Interfacial Chemistry for Durable Epoxy/Steel Adhesion*, R. A. Cayless, B. P. Research

6:45 PM SESSION IV: ORIENTATION AND KINETICS

1. *INVITED Bonding and Orientation in Polymer/Metal Interfaces*, M. Grunze, Universität Heidelberg
2. *Quantitative Surface Analysis of Fluoropolymers by Derivatization and FTIR*, K. R. Ha, J. Marchesi and A. Garton, University of Connecticut
3. *Orientation Phenomena at Polyurethane Surfaces*, Z. Deng and H. P. Schreiber, Ecole Polytechnique

4. *Modeling of Adhesive Functional Group Interactions with Metal Oxides*, J. W. Holubka and R. A. Dickie, Ford Motor Company, and R. D. Bach and J. L. Andres, Wayne State University
5. *Adhesion and Surface Chemistry of Sheet Molding Compounds*, R. S. Farinato, American Cyanamid Company

Wednesday, February 20, 1991

8:25 AM SESSION V: THIN FILMS AND MICROELECTRONICS

1. *INVITED Experimental Determination of the Total State of Stress, Elasticity Coefficients and Adhesion for Coatings*, R. J. Farris, M. Maden, K. Tong and J. Goldfarb, University of Massachusetts
2. *Comparison of Polyimide-on-Chromium and Chromium-on-Polyimide Interfaces*, P. V. Nagarkar, D. Volfson and S. D. Senturia, Massachusetts Inst. of Technology
3. *Self-Assembling Silane Monolayers as Adhesion Promoters*, N. G. Cave, University of Cincinnati, and A. J. Kinloch, Imperial College
4. *Chemical Interactions at Acrylic Polymer-Solid Interfaces*, K. Konstadinidis, M. Tirrell and J. F. Evans, University of Minnesota, and R. G. Nuzzo, AT & T Bell Laboratories
5. *Determination of the Molecular Structure of Polyimide/Silver Interphases Using SERS*, F. J. Boerio and J. T. Young, University of Cincinnati
6. *The Peninsula Blister Test: A High and Constant Strain Energy Release Rate Fracture Specimen for Adhesives*, D. A. Dillard and Y. Bao, VPI & SU

1:25 PM SESSION VI: GENERAL

1. *Adhesive Bonding of Metals with Minimal Pretreatment*, S. G. Hong, N. G. Cave and F. J. Boerio, University of Cincinnati
2. *Relating Polymer/Tackifier/Wax Interactions to Hot Melt Adhesive Bond Strength*, M. F. Tse, M. L. Hendewerk and K. O. McElrath, Exxon Chemical Company
3. *Modification of Polyurethane Adhesion Properties by Adding Silica*, T. Macia-Agullo, N. Pastor-Sempere, J. C. Fernandez-Garcia, and A. C. Orgiles-Barcelo, INESCOP, and J. M. Martin-Martinez, Universidad de Alicante
4. *Characterization of Elliptical Core Optical Fibers for Sensing Strain in Composite Structures*, J. W. Hellgeth and T. C. Ward, VPI & SU

5. *A Fizeau Interferometer for Measuring Moisture Ingression Kinetics in Adhesive Bonds*, Y. H. Lai, R. Czarnek, J. P. Wightman and D. A. Dillard, VPI & SU

6. *Acousto-Ultrasonic (AU) Technique for Assuring Adhesive Bond Quality*, E. G. Henneke, J. C. Duke and T. Anil, VPI & SU

Please do not forget the *Adhesion Society's* superb ADHESION SHORT COURSE. This 2 day short course, held the Saturday and Sunday before the regular *Adhesion Society* meeting, is a great refresher or introduction to adhesion science and technology. Space is limited and traditionally this short course sells out early. For more information contact:

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February 17-20, 1991

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