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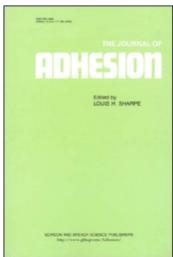
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The Adhesion Society Preliminary Program of the 15th Annual Meeting

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The Adhesion Society Preliminary Program of the 15th Annual Meeting

Hilton Head, South Carolina

F. JAMES BOER(O Program Chairman

R. GILES DILLINGHAM Local Arrangements Chairman

SUNDAY, FEBRUARY 16, 1992

2:00-7:00 PM REGISTRATION 6:00-7:30 PM PRESIDENT'S RECEPTION

MONDAY, FEBRUARY 17, 1992

8:15 Opening Remarks

SESSION I: EVALUATION OF ADHESIVE JOINTS AND COMPOSITES I

Chairman: Donald L. Hunston, NIST

- 8:30 A. N. Gent and S. M. Lai
 The University of Akron
 "Effect of Interfacial Bonds on the Strength of Adhesion"
- 8:55 S. Matsukawa, W. McDonough and D. L. Hunston NIST
 - "Mechanical Properties of Toughened Epoxies"
- 9:20 K. M. Liechti and C-Y Liu
 University of Texas at Austin
 "Viscoelastic Crack Growth in Adhesively Bonded Joints"
- 9:45 P. Commerçon and J. P. Wightman
 Virginia Polytechnic Institute
 "Polyethersulfone/IM7 Carbon Fibers Adhesion Measurements via Microbond Pull-Out Test"
- 10:10 Coffee
- 10:30 F. J. Boerio and N. G. Cave
 University of Cincinnati
 "The Effect of the Interphase on the Performance of Epoxy/Polyamide
 Adhesive Joints"

10:55 D. A. Dillard and J. Z. Wang

Virginia Polytechnic Institute

"Analysis and Design of an Experimental Setup to Obtain Constant G_I for Double Cantilever Beam Specimens"

- 11:20 PRESENTATION OF ADHESION SOCIETY AWARD FOR EXCELLENCE IN ADHESION SCIENCE, SPONSORED BY 3M, TO A. J. KINLOCH
- 11:30 A. J. Kinloch

Imperial College

"Application of Fracture Mechanics to the Failure of Structural Adhesive Joints"

12:10 Lunch

SESSION II: ANALYTICAL TECHNIQUES FOR SURFACES AND INTERFACES

Chairman: Nigel G. Cave, Motorola Inc.

1:45 F. Fondeur and J. L. Koenig INVITED

Case Western Reserve University

"Application of Modern Spectroscopic Techniques to Adhesive-Metal Interfaces"

2:25 M. Kinzler and M. Grunze

University of Heidelberg

"X-Ray Photoelectron Microscopy Applied to Metal/Polymer Laminates"

2:50 M. Lupkowski and J. F. Maguire

Southwest Research Institute

"Molecular Dynamics and Atomic Microscopy of Adhesives at Interfaces"

- 3:15 Coffee
- 3:35 B. D. Ratner INVITED

University of Washington

"Advances in Our Ability to Characterize Subtle Features of Surfaces Important to Adhesion"

4:15 A. Sabata, R. J. Koch and W. J. van Ooij

Armco Research and Technology

"EIS and Time-of-Flight SIMS Study of Phenomena at Normal and Silane-Modified Metal-Paint Interfaces in Painted Automotive Steels During Exposure to a Corrosive Environment"

4:40 F. J. Boerio, W. H. Tsai, P. P. Hong and J. T. Young

University of Cincinnati

"Characterization of Polymer Surfaces and Interfaces Using Surface-Enhanced Raman Scattering"

5:05 Adjourn

6:00-7:30 POSTER SESSION

TUESDAY, FEBRUARY 18, 1992

SESSION III: POLYMER SURFACES AND INTERFACES

Chairman: Howard M. Clearfield, IBM

8:30 T. J. McCarthy INVITED

University of Massachusetts

"Organic Chemistry at Polymer Interfaces"

9:10 T. Buffeteau, B. Desbat, H. Arrlbart and P. Chartier

Saint-Gobain Recherche

"Glass/Polyurethane Adhesion: Characterization of the Interphase"

9:35 G. Garnier and W. G. Glasser

Virginia Polytechnic Institute

"Understanding the Cellulose-Thermoplastic Interface"

- 10:00 Coffee
- 10:20 J. W. Chin

Virginia Polytechnic Institute

"Surface Characterization and Adhesion of Plasma-Modified LaRC-TPI"

10:45 H. P. Schreiber

Ecole Polytechnique

"Specific Interactions and Contact Angle Measurements on Polymer Solids"

11:10 L. T. Drzal, M. Madhukar and M. C. Waterbury

Michigan State University

"Surface Chemical and Surface Energetic Alteration of the IM6 Carbon Fiber Surface and Its Effect on Composite Properties"

11:35 H. M. Clearfield, B. K. Furman, N. Sheth, F. Bailey and S. Purushothaman IBM Research

"Water Transport Across Modified Polyimide Surfaces"

12:00 Lunch

SESSION IV: POLYMERS FOR ADHESIVES AND MATRIX RESINS

Chairman: Paul J. Clark, Loctite Corp.

6:45 F. W. Harris INVITED

University of Akron

"Adhesives and Elastomers via Nucleophilic Additions to Bispropynones"

7:25 K. J. Bruza

Dow Chemical Company

"Benzocyclobutene Based High Performance Polymers"

7:50 J. L. Hedrick

IBM Research Division

"Poly(aryl Ether Benzothiazoles)"

8:15 B. J. Jensen and D. C. Working

NASA Langley Research Center

"Controlled Molecular Weight Imide/Arylene Ether Copolymer Adhesives"

8:40 A. F. Jacobine, D. M. Glaser and P. Salamon

Loctite Corporation

"Novel Photocurable Adhesives Based on Thiol Crosslinked

Norbornene Resins"

9:05 Business Meeting

WEDNESDAY, FEBRUARY 19, 1992

SESSION V: EVALUATION OF ADHESIVE JOINTS AND COMPOSITES II

Chairman: Donald L. Hunston, NIST

8:30 C. K. Riew and A. R. Siebert

B. F. Goodrich

"Thermoset Resin Toughened With Preformed Particles"

8:55 G. L. Anderson

Thiokol Corporation

"Continuum and Fracture Mechanical Studies of Contaminated Bonding Surfaces"

9:20 J. J. Lesko, S. W. Case, G. P. Carman, D. A. Dillard and K. L. Reifsnider Virginia Polytechnic Institute

"Fiber/Matrix Interface Interrogation by Means of Meso-Indentation Testing"

9:45 R. D. Adams and V. Mallick

University of Bristol

"Temperature Stresses in Adhesively-Bonded Composites"

10:10 Coffee

SESSION VI: GENERAL I

Chairman: Kenneth M. Liechti, University of Texas

10:30 D. Katz

Technion-Israel Institute of Technology

"Bioadhesives for Hard Tissues"

10:55 J. L. Rose, J. J. Ditri, D. Galella and T. Grant

Drexel University

"Adhesive Bond Inspection Utilizing Ultrasonic Lamb Waves"

11:20 M. Buck and M. Grunze

University of Heidelberg

"Spectroscopic Identification of Buried Interfaces: New Experimental Approaches"

11:45 H. F. Webster and J. P. Wightman

Virginia Polytechnic Institute

"The Role of the Interphase in Copper/Polyphenylene Sulfide Adhesion"

12:10 Lunch

SESSION VII: GENERAL II

Chairman: Kenneth M. Liechti, University of Texas

1:30 K. W. Stickney, T. D. Lin, A. Prasad, H. Marand, R. M. Davis and J. S. Riffle

Virginia Polytechnic Institute

"Synthesis and Characterization of Controlled Small Particle Sizes in Polyimides"

1:55 C. T. Chou, *U. Gaur* and B. Miller TRI

"Mechanism of Fiber/Resin Debonding in Carbon Reinforced Composites"

2:20 R. Joseph, J. P. Bell and A. J. McEvily

University of Connecticut

"Effects of Variables Upon Fatigue Crack Growth in Aluminum/Epoxy and Steel/Epoxy Joints"

2:45 Y. J. Lee, T. H. Yoon, A. Gungor, C. Smith and J. E. McGrath Virginia Polytechnic Institute "Adhesion Study of Phorphorous Containing Polyimides and Polyethers"

3:10 J. M. Kaltenecker and T. C. Ward Virginia Polytechnic Institute

"A Study of H20 Ingression into Polyimidesiloxane Adhesives"

3:35 Adjourn

POSTER SESSION, MONDAY, FEBRUARY 17, 1992, 6:00-7:30 PM

J. Liu and J. F. Watts

University of Surrey

"Interfacial Characterization of a Laminated Metal/Polymer System"

J. Yang and A. Garton

University of Connecticut

"Primers for Polyolefin/Cyanoacrylate Adhesion"

B. J. Love, R. F. Hochman, and K. E. Starling

Georgia Institute of Technology

"Orthodontic Adhesive Modifications to Enhance After-Treatment Removal"

M. Pastor-Blas, M. S. Sanchez-Adsuar, J. M. Martin-Martinez

Universidad de Alicante

"Chlorination of Styrene-Butadiene Rubber with Trichloroisocyanuric Acid"

J. W. Connell

NASA Langley Research Center

"Chemistry and Adhesive Properties of Blends of Acetylene Terminated Materials"

T. P. Harvey, J. D. Rancourt, and L. T. Taylor

Virginia Polytechnic Institute

"Electrical Detection of the Onset of Delamination in Bonding Applications"

P. A. Percha, G. L. Wilkes, and D. A. Dillard

Virginia Polytechnic Institute

"The Effect of Molecular Orientation on Adhesive Bond Strength"

M. Babai and J. P. Wightman

Virginia Polytechnic Institute

"Solvent Vapors and Cured Sealant Surfaces: Acid-Base Interactions"

C. L. Heisey, P. A. Wood, J. E. McGrath, and J. P. Wightman

Virginia Polytechnic Institute

"A Study of the Adhesion Between Carbon Fibers and BIS (3-Maleimidophenoxy)
Triphenylphosphine Oxide, a Potential High Performance Composite Matrix"

Y. Bao and D. A. Dillard

Virginia Polytechnic Institute

"Application of the Peninsula Blister Test to Study the Adhesion of Thin Polymer Films"

T. Kadowaki and M. H. Litt

Case Western Reserve University

"Synthesis, Characterization and Surface Properties of Block Copolymers with Vic-Diol Groups"

Y. H. Lai and D. Dillard

Virginia Polytechnic Institute

"A Study of High Stress Gradients and Singularity Between Dissimilar Materials"

M. H. McCord and J. C. Duke

Virginia Polytechnic Institute

"Acoustic Microscopy of Adhesively Bonded Surfaces"

R. Sharma, J. K. Lin, and J. Drye

Motorola Inc.

"A New Method to Evaluate Thin Film Adhesion"

K. M. Johnson, J. R. Babu, and J. S. Riffle

Virginia Polytechnic Institute

"Synthesis of Acrylate Functionalized Polyethyloxazoline for Adhesive Applications"

J. C. Wells and J. G. Dillard

Virginia Polytechnic Institute

"Bond Failure in Adhesively Bonded Composites"

B. L. Holmes and J. G. Dillard

Virginia Polytechnic Institute

"Surface Characterization and Durability of Adhesively Bonded Composites"

K. L. Wolfe, J. G. Dillard, J. E. McGrath, and A. Gungor

Virginia Polytechnic Institute

"Adhesive Bonding of Phosphine Oxide Polyimide Polymers to Aluminum"

M. M. Ellison, J. D. Rancourt, and L. T. Taylor

Virginia Polytechnic Institute

"Iron-Modified, Sulfur Containing Polyimide Films"

T. Park and T. C. Ward

Virginia Polytechnic Institute

"Thermal Degradation Behavior of Poly(Arylene Ether Phosphine Oxide)s (PEPO)"

Y. Yang and T. C. Ward

Virginia Polytechnic Institute

"Determination of Fiber Surface Interactions"

J. Cartwright, J. Hellgeth, S. Wilkinson, and T. C. Ward

Virginia Polytechnic Institute

"Preliminary Investigation of the Cure of Toughened Bismaleimides: Kinetics and Morphology"

D. R. Hahn, J. W. Hellgeth, and T. C. Ward

Virginia Polytechnic Institute

"Assessment of Photopolymer Network Formation Via Coupled Remote Sensing Dielectric Spectroscopy/Attenuated Total Reflectance Infrared Spectroscopy"

C. Li and R. A. Dickie

Ford Motor Company

"Bonding Adhesive Joints with Radio-Frequency Dielectric Heating"

M. A. Vrana and T. C. Ward

Virginia Polytechnic Institute

"Synthesis and Characterization of Crosslinked Polyimides Prepared from Maleated Poly(Propylene)"

R. J. Davies and M. Ritchie

Rialtech Limited

"The Development of Pretreatments for the Adhesive Bonding and Surface Protection of Continuous Fibre Reinforced Aluminum Metal Matrix Composite Components"

D. J. Progar and T. L. St. Clair

NASA Langley Research Center

"Polyimide Blends as Adhesives"

C. DiFrancia

Virginia Polytechnic Institute

"Fiber Optic Strain Sensor for Detection of Delamination at Fiber/Resin Interface"

B. R. K. Blackman, A. J. Kinloch and J. P. Dear

Imperial College

"The Environmental and Impact Resistance of Adhesively Bonded Thermoplastic Fibre Composites"

E. Jabbari and N. A. Peppas

Purdue University

"Interfacial Adhesion of Poly(vinyl chloride)/poly(ethyl methacrylate)"

G. Fernlund and J. K. Spelt

University of Toronto

"Fracture Mechanics and Design of Structural Adhesive Joints"

G. M. Porta, B. R. Karas and D. F. Foust

GE Corporate Research and Development

"The Development of Adhesion in Copper-Coated Polyetherimide Films"

D. J. Doyle

GMI Engineering and Management Institute

"Excimer Laser Surface Preparation of Polyethylene"