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1980 Meeting of the Adhesion Society

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1980 Meeting of the Adhesion Society

TECHNICAL PROGRAM

will be held in Savannah, Georgia
at the Savannah Inn and Country Club
February 10-13, 1980

Sunday, February 10, 1980

- 6-9 p.m. Registration
7 p.m. Reception
8 p.m. Slide Presentation—"The Savannah Story"

Monday, February 11, 1980

- Coffee
8:30 a.m. Opening Remarks: A. N. Gent, President The Adhesion Society
8:45 a.m. ADHERENDS
F. W. Fowkes and R. A. Draughn Co-Chairmen
Compositions of Natural Metal Surfaces and Their Effect on
Structural Adhesive Bonds—D. Zalucha and A. Madura,
Hughson Chemicals, Lord Corporation
Morphology of Aluminum Oxide and Its Influence on Bonding
—J. Veneables and D. McNamara, Martin Marietta
Aluminum Joint Durability in Stress and Corrosive Salt Water
Exposure with Varying Surface Pretreatments—D. Minford,
Alcoa
The Relationship Between Surface Energetics and Adhesive
Bond Strength—T. Smith, Rockwell Science Center
Characterization of Acidic Sites on Fe_3O_4 Powders—F. W.
Fowkes, Lehigh University
Corona Discharge Treatment of Polypropylene Films—R.
Kruger, Instit. for Plastics Processing, West Germany

1:30 p.m. POLYMERIC MATERIALS

D. Kaelble and J. Kardos Co-Chairmen

Adhesive Properties of Dimer Acid Polyamides—R. Veazey, Union Camp Co.

Multi-valued Surface Properties of Polymethacrylate: Cause and Effect Studies—H. Schreiber, M. Croucher and C. Prarie, Ecole Polytechnique

Structure-Property Relationships in Epoxies—R. Morgan, Lawrence Livermore Laboratories

Moisture in Epoxy Resins—L. Broutman and G. Marom, IIT and Hebrew University

Semi-rigid Adhesive System in Tension, Shear and Peel and the Effect of Coupling Agents—T. Hasagawa, R. Carpenter and E. Cleland, JPL

Bond Strength Analysis for Low Modulus Polymers—G. Anderson, Thiokol

7:00 p.m. POSTER SESSION

Tuesday, February 12, 1980

Coffee

8:45 a.m. MECHANICS

W. Knauss and D. Jablonski Co-Chairmen

A Review of Numerical Procedures for Calculating Joint Stress Distributions—W. Jones, AFML

Analytical Aspects of Fracture Problems in Adhesively Bonded Joints—F. Erdogan, Lehigh University

Experimental Aspects of Fracture Problems in Adhesively Bonded Joints—W. Knauss, Cal Tech

A Photoelastic Study of the Stress Distribution in Adhesively Bonded Joints with Prebent Adherends—E. Sancaktar and P. Lawry, Clarkson College

Fatigue Crack Growth in Structural Adhesives—D. Jablonski, United Technologies Research Center

Stress Dependence of Creep in Adhesive Joints—E. Hughes, Singer Corp., Kearfott Division

1:30 p.m. PROCESSING

C. May and L. Hill Co-Chairmen

Factors Affecting the Processing of Epoxy Film Adhesives—R. Pike F. Lamm and J. Pinto, United Technologies Research Center, Co-Chairmen

Dielectric Monitoring of the Bonding Process—C. May and A. Wereta

“Slick” Bond Failures—K. Knock, Boeing Commercial Airplane Co.

A Comparison of Anodizing Processes on the Strength and Durability of Adhesively Bonded Aluminum—D. Hennemann, Instit für Angewandte Material Faschung, West Germany
 PABST Processing Test Results—R. Shannon, McDonnell, Long Beach
 PABST Structural Testing Results—E. Thrall, McDonnell, Long Beach

5:00 p.m. ADHESION SOCIETY MEETING

7:30 p.m. BANQUET

Wednesday, February 13, 1980

Coffee

8:45 a.m. ADHESION

Z. Blank and D. Scola Co-Chairmen

Adhesion to Silane Treated Surfaces Through Inter-Penetrating Network Structures—E. Plueddemann and G. Stark, Dow Corning Corp.

Bonding of Wood—A Fracture Mechanics Approach—J. Koutsky, R. Ebewele, B. River and M. Luce, Univ. of Wisconsin
 Role of Adhesion on the Viscoelastic Properties of Composites with Rubbery Matrices—D. Prevorsek and R. Sharma, Allied Chemical Corp.

Is Zero Contact Angle a Prerequisite for Good Adhesion?—L. Penn, Textile Research Institute

Aluminum-Polyethylene Laminates Formed in High Vacuum—H. Perkin and F. Loprest, American Can Co.

Weldability of Dissimilar Thermoplastics—Experiments in Heated Tool Welding—K. Gabler, Instit. for Plastics Processing, West Germany

ADJOURN

Meeting Registration Fee will be \$60.00. This includes a copy of the meeting abstracts, refreshments, banquet and one year's dues to The Adhesion Society. For registration information contact:

Dr. L. T. Drzal
 AFML/MBM
 WPAFB, Ohio 45433
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G+B new book information

Title: ADVANCES IN ENVIRONMENTAL SCIENCE AND ENGINEERING Volume 3

Author: James Pfafflin, *New Jersey Institute of Technology* and Edward N. Ziegler, *Polytechnic Institute of New York*

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