

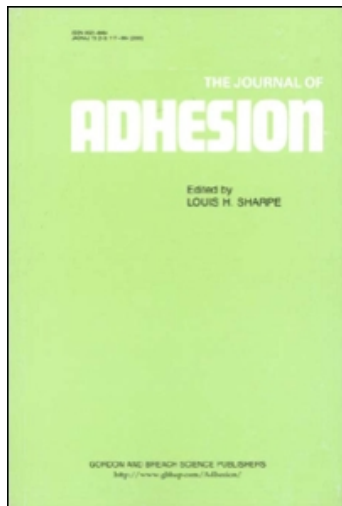
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Gordon Research Conference

Science of Adhesion

August 7–12, 1994

Tilton School, Tilton, New Hampshire, U.S.A.

Ray A. Dickie (Ford Motor Company) *Chair*

Van P. Thompson (U. Maryland)

Vice-Chair

Monday Morning-9:00 a.m.–12:15 p.m. Molecules at Surfaces and Interfaces

M. Chaudhury (Lehigh U.) *Discussion Leader*

A. K. Chakraborty (UC Berkeley): Theoretical Studies of Polymer-

Metal Interfaces: Taking Steps

Toward the Molecular Design of Adhesives

M. Rubinstein (Kodak Research Laboratories) Chain Pull Out and Polymer Adhesion

Monday Evening-7:30 p.m. to 10:00 p.m. Surface Forces and Molecular Films

A. Ulman (Kodak Research Laboratories) *Discussion Leader*

J. Frommer (IBM) Scanning Probe Studies of Surface Forces and Molecular Films

H. Fuchs (U. Münster) Studies of Ultrathin Organic Films: Nucleation in Quasi Two-dimensional Organic Layer Systems

V. P. Thompson Overview of Poster Session

Tuesday Morning-9:00 a.m.–12:15 p.m. Interphase Structure and Adhesion A. Pocius (3M) *Discussion Leader*

J. Adams (U. Illinois) Computer Simulations of Polymer Adhesion to Surfaces

C. Durning (Columbia U.) Adhesion of Incompatible Polymers

J. Koberstein (U. Connecticut) Use of Polymer End Groups for Adhesion Promotion

Tuesday Afternoon-3:30 p.m. to 5:30 p.m. Poster Session: Unsolved Problems and Recent Advances in Adhesion Science Van P. Thompson *Organizer*

Tuesday Evening-7:30 p.m. to 10:00 p.m. Interphase Structure and Adhesion (cont'd) A. Pocius (3M) *Discussion Leader*

F. Faupel (U. Göttingen) Diffusion and Interface Formation at Polymer-Metal Interfaces

L. Piché (NRC Canada) Ultrasonics as a Non-invasive Probe of Interface and Interphase Behavior in Metal-Polymer Adhesive Bonds

Wednesday Morning-9:00 a.m. to 12:15 p.m. Polymer Adsorption and Adhesion J. Watts (U. Surrey) *Discussion Leader*

M. Gee (U. Melbourne) Evanescent Wave and Surface Force Studies of Polyelectrolyte Adsorption

M. Chehimi (CNRS) Adsorption of Molecules and Polymers onto Conducting Polymers

Wednesday Evening-7:30 p.m. to 10:00 p.m. Fracture Processes and Adhesion A. Lesser (Shell) *Discussion Leader*

A. J. Kinloch (Imperial College) A Fracture Mechanics Approach to Studying and Predicting Joint Durability

E. D. Reedy (Sandia) Butt Joint Tensile Strength: Test and Analysis

Thursday Morning-9:00 a.m. to 12:15 p.m. Fracture Processes and Adhesion (cont'd) K. Liechti (U. Texas-Austin) *Discussion Leader*

L. D. Favro (Wayne State U.) Thermal Wave Imaging Studies of Polymer Fracture Processes

P. Fay (Ford Motor Co.) Impact Performance of Adhesively Bonded Structures

D. Yarusso (3M) Quantifying the Relationship between Peel and Rheology for Pressure Sensitive Adhesives

Thursday Evening-7:30 p.m.-10:00 p.m. Bioadhesion A. C. Bush (U. Maryland) *Discussion Leader*

P. Kolenbrander (NIH) Adherence and Colonization by the Oral Bacterial Community

Friday Morning-9:00 a.m. to 12:00 p.m. Durability, Damage Assessment and Adhesion Loss C. A. Berglund (Dow Chemical) *Discussion Leader*

H. F. Brinson (U. Texas-San Antonio) New Approaches for the Assessment of Bond Durability including Damage Effects

J. Martin (NIST) Case Studies of Adhesion Loss