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- “Adhesive Liquid-Crystal Polymers,” p. 115, R.P. Niewhof, A.T.M. Marcelis, E.J.R. Sudhofer, M.W.J. van der Wielen, M.A. Cohen Stuart, G.J. Fleer
- “Surface Modification of Polypropylene: Hydrophilic Finishing with Carbohydrates,” p. 257, S. Knaus, A. Nennadal

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- “Interdiffusion of Deuterated and Protonated Poly (methyl methacrylate),” p. 2155, T.E. Shearmur, A.S. Clough, D.W. Drew, M.G.D. van der Grinten, R.A.L. Jones
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- "Structure Determination of Clay/Methyl Methacrylate Copolymer Interlayer Complexes by Means of ¹³C Solid State NMR," p. 2651, C. Forte, M. Geppi, S. Giamberi, G. Ruggeri, C.A. Veracini, B. Mendez
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- "Layer by Layer Imaging of Diblock Copolymer Films with a Scanning Electron Microscope," p. 2733, C. Harrison, M. Park, P.M. Chaikin, R.A. Register, D.A. Adamson, N. Yao
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- "Oxygen Plasma Induced Degradation of the Surface of Polystyrene, Poly(bisphenol-A-carbonate) and Polyethylene Terephthalate as Observed by Soft X-Ray Absorption Spectroscopy (NEXAFS)," p. 3001, I. Koprinarov, A. Lippitz, J.F. Friedrich, W.E.S. Unger, C. Woll
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- "Surface Biodegradable Copolymers-Poly(D,L-lactide-co-1-methyl-1.3-trimethylene carbonate) and Poly(D,L-lactide-co-2,2-dimethyl-1.3-trimethylene carbonate): Preparation, Characterization and Biodegradation Studies," p. 4409, J. Cai, K.J. Zhu, S.L. Yang
- "Influence of Particle Dispersion on the Matrix Ligament Thickness of Polymer Blends. 1. The Configuration of Well-Dispersed Particles *versus* Simple Cubic Lattice," p. 4433, Z.H. Liu, R.K.Y. Li, S.C. Tjong, Z.N. Qi, F.S. Wang, C.L. Choi
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Volume 68, No. 3, 1998

"Characterizing Spin Finish Layers on Polypropylene Fiber Surfaces by Means of Scanning Force

Microscopy Techniques," p. 193, A. Leijala, J. Hautajarvi

MEETINGS OF INTEREST TO MEMBERS

Rheological Measurements

Application to Polymers, Suspensions and Processing

August 9-14

Minneapolis, MN

Lecturers include:

C. W. Macosko (Minnesota)

James Baker (Imation)

Frank Bates (Minnesota)

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Tim Lodge (Minnesota)

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University of Minnesota

151 Amundson Hall

421 Washington Ave. S.E.

Minneapolis, MN 55455

World Congress on Adhesion and Related Phenomena (WCARP-1)/EURAD '98

September 6-11, 1998

Garmisch-Partenkirchen, Germany

Papers are being requested in the following areas of emphasis:

Fundamentals of Adhesion

Surface Science and Technology

Advances in Adhesive Materials

Supramolecular Structures in Adhesives

Properties of Bonded Joints

Quality Requirements and Testing

Environmental and Ecological Aspects

Innovative Applications

For information contact:

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D-60061 Frankfurt am Main

Germany

A Practical Short Course on Surface Chemistry

September 15-17, 1998

Charlotte, NC

Lecture topics include:

Molecular forces, surfaces, & surface actives
Equilibrium surface and interfacial tensions
Equilibrium surfaces as indicators of molecular interactions in solution
Critical micelle concentration & surfactant synergism
Polymer surfactant interaction
Liquid crystals, micro- and macroemulsions
Contact angles & surface energies for nonporous solids
Contact angles & surface energetics for porous solids
Moisture sorption
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Fundamentals of foams
Adsorption kinetics

For further information contact:

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9305 Monroe Road
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Plastics and Polymeric Composite Welding

October 6-9, 1998

Nondestructive Evaluation

October 5-9, 1998

Columbus Ohio

For information contact:

Edison Joining Technology Center
The Ohio State University
1248 Arthur E. Adams Drive
Columbus, OH 43221

Second International Symposium on Acid-Base Interactions : Relevance to Adhesion

October 19-21, 1998

Newark, NJ

Papers include:

“What is the Hydrophilicity of Hydrophobic Materials?” (T. Ahsan)
“Limits and Problems of Using the van Oss-Good Theory in Treating Contact Angles to Calculate Acidic and Basic Components of Adhesion Work,” C. Della Volpe
“Fundamental Aspects of Acid-Base Interactions,” C. Noguera
“Acid-Base Characterizations of Metallic Materials and the Use of Model Molecules in the Study of Adhesion Mechanisms,” M.G. Barthes
“Acid-Base Interactions as the Driving Force for both Hydrophobic Attraction and Hydrophilic Repulsion,” C. van Oss

“Acid-Base Interactions at the Molecular Level:

Adhesion Studies with Interfacial Force

Microscopy,” T. Michulski

“Acid-Base Characteristics of Polymer Surfaces:

Relevance to Bioadhesion,” M. Morra

“Characterization of Acid-Base Properties of SiC Surfaces Using Huttingers Method. Application to

the Adhesive Bonding of a Sintered Silicon

Carbide,” E. Abdi Rochdi

“Acid-Base Interactions of Cyanurate Prepolymer Molecules with Oxidic Surfaces of Si and Al,” W. Possart

“Acid-Base Properties of Modified Fillers, Adsorbants and Polymers by Means of Inverse Gas Chromatography,” A.M. Voelkel

“Acid-Base Interactions in Organic Polymeric Fibers and Liquids,” Y. Kamath

“Polymer Orientation at Solid Surfaces: Acid-Base Interaction Origins and Some Property Responses,” H.P. Schreiber

“Adhesive Interaction in Water/n-Alcohol Mixtures between Polymer Particles and Silanized Silica,” K. Gotoh

Other Speakers include:

J.C. Berg

J. Remi Butruille

C. Bureau

W.V. Vhang

M.K. Chaudhury

E. Chibowski

R.J. Good

T.B. Lloyd

H. Balard

P. Stenius

S. Wesson

For information and registration contact

Robert Lacombe

Conference Chairman

C4 Technologies

14 Sherwood Heights

Wappingers Falls, NY 12590

Second International Symposium on Silanes and other Adhesion Promoters

October 21-23, 1998

Newark, NJ

Papers Include:

“Modification of Properties of Polymers Using Silane and Some Environment Friendly Natural

Adhesives,” H.T. Deo (Bombay)

“Novel Silane Adhesion Promoters for Hydrosilation Cure Systems,” M. Owen (Dow Corning)

“The Use of Titanates and Zirconates in Thermoplastic and Thermoset Composites and Coatings,” S.J. Monte (Kenrich)

“Surface ‘Intelligraf’ as a New Class of Adhesion Promoters,” E.T. Kang (Singapore)

“New Analytical Method to Determine the Amount of Silane Adhesion Promoters on Substrates,” K.-W. Lee (IBM)

“Surface Enhanced Raman Scattering Study of Polymer/Metal Interface,” G. Xue (Najing)

“Adsorption of Silanes onto Silica Surfaces: Mechanisms of Adsorption,” J.B. Rosenholm (Turku)

“Structure of Silane Deposits on E-Glass and the Nature of their Interactions with Resins,” F.R. Jones (Sheffield)

“Vapor Deposition of Silanes on Metals,” J.J. Weimer, Alabama

“Linking Mechanical Properties to Chemical Structure: An NMR Study of γ -GPS,” F.J. Boerio (Cincinnati)

“Correlations between Solution Hydrolysis Time, Surface Chemistry and Bonded Joint Durability for γ -GPS Treated Aluminum,” R.P. Digby (DERA)

“Silanes and the Immobilization of Oligonucleotides & Gene Sensors and Gene Clips,” M. Thompson (Toronto)

Other Speakers include:

Y. Araujo (Venezuela)
J.P. Bell (Connecticut)
G. Grundmeier (Erlangen)
E.R. Pohl (Witco)
W.J. van Ooij (Cincinnati)
S.P. Wesson (Princeton)

For information contact:

Robert Lacombe
Conference Chairman
C4 Technologies
14 Sherwood Heights
Wappingers Falls, NY 12590

Short Course on Adhesion Measurement Techniques

October 24, 1998
Newark, NJ

Topics include:

“Quantitative Aspects of Adhesion Measurement”

“Semi-quantitative Methods”

“Fully Quantitative Methods”

“Role of Residual Stress and Material Mechanical Properties on Adhesion”

“Problem of Setting Adhesion Requirements for Coating Applications”

For information contact:

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C4 Technologies
14 Sherwood Heights
Wappingers Falls, NY 12590

Adhesive and Sealant Council 1998 Fall Convention and Exhibition

October 25-28, 1998, Chicago, IL

For information contact:

The Adhesive and Sealant Council
1627 K Street NW Suite 1000
Washington, DC 20006

Organic Coatings: Science and Technology

November 8-11, 1998

Hilton Head, SC

For information contact:

Dr. Angelos V. Patsis, Director
The Institute of Materials Science
State University of New York
New Paltz, NY 12561

Mechanical and Tribological Properties of Surface AICHe Annual Meeting

November 15-20, 1998

Miami Beach, FL

For information contact:

Andrew Gellman
Carnegie Mellon University
Pittsburgh, PA 15213

Paul Sides
Carnegie Mellon University
Pittsburgh, PA 15213

Polymers in Interfacing Disciplines and Technologies

November 22-25, 1998

Blacksburg, VA

Speakers include:

M. Saltzman (Cornell)
F. Karasz (Massachusetts)
C. Lee (Air Force)
W. Adams (Wright Patterson)
K. Park (Purdue)
S. Farid (Eastman Kodak)
R. Eby (Akron)

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ACS Division of Polymer Chemistry
Virginia Tech
201 Hancock Hall
Blacksburg, VA 24061-0257

Environmentally Compliant Coatings

January 19-22, 1999
Fort Myers, FL

Topics of emphasis are;

- Modern Aspects of Water Borne and Latex Coatings
- Powder Coatings
- Radiation Curing
- High Solids
- Rheology of Clear and Pigmented Coatings
- Analysis of Coatings
- Crosslink Density
- PVC/CPVC
- Corrosion

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North Dakota State University
Department of Polymers and Coatings
54 Dunbar Hall
Fargo, ND 58105

Joining and Repair of Plastics and Composites

April 13-15, 1999

For information contact:

S. Craven
Institution of Mechanical Engineers
1 Birdcage Walk
London SW1H 9JJ
UK

PSTC TECH XXII

May 5-7, 1999
Washington, DC

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Fracture of Polymers, Composites and Adhesives

September 13-15, 1999
Les Diablerets, Switzerland

Topics of interest include:

- Low rate measurement of K_{Ic} , G_c , and J_c
- Impact testing
- Fatigue testing
- Peel testing
- Delamination in continuous fiber composites
- Evaluation of toughness in short fiber composites
- Measurement of toughness in adhesive joints
- Essential work of fracture method
- Applications of fracture mechanics

For information contact:

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Adhesion '99

Seventh International Conference on the Science and Technology of Adhesion and Adhesives
September 15-17, 1999
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CALL FOR PAPERS:

The Adhesives Section of the Institute of Materials is requesting papers in all areas of adhesion science and adhesives with particular emphasis on:

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Short abstracts (300 words) should be submitted by
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For information contact:

John A. Bishopp
Hexcel Composites
Duxford, Cambridge CB2 4QD
UK
email: john.bishopp@dial.pipex.com

Books of Interest to Members

Pressure Sensitive Adhesive Technology

I. Benedek, L.J. Heymans

Contents include:

- Rheology of PSA
- Physical Basis of the Viscoelastic Behavior of PSA
- Chemical Composition of PSA
- Adhesive Performance Characteristics
- Converting Properties
- Manufacturing of PSA
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