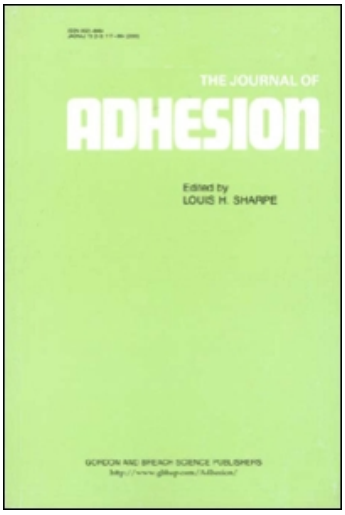

The Journal of Adhesion
Publication details, including instructions for authors and subscription information:
http://www.informaworld.com/smpp/title~content=t713453635

Calendar of Events

To cite this Article (2006) 'Calendar of Events', The Journal of Adhesion, 82: 6, 643 — 647
To link to this Article: DOI: 10.1080/00218460600796159
URL: http://dx.doi.org/10.1080/00218460600796159

The Journal of Adhesion, 82:643–647, 2006

ISSN: 0021-8464 print/1545-5823 online
DOI: 10.1080/00218460600796159

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CALENDAR OF EVENTS

2006

August 6–11, 2006. Science of Adhesion Gordon Conference, Tilton, New Hampshire. This meeting is designed for all scientists, engineers, and physicians whose work involves adhesion or adhesives in any way. It emphasizes recent developments, important outstanding problems, and new directions for the field. Topics to receive emphasis in this year's program include: adhesion at small length scales, interfacial adhesion and fracture, structural uses of adhesives, bio-inspired adhesion, novel uses of adhesion, contact mechanics, and history of adhesion.

Chair: W. N. Unertl (Univ. Maine) unertl@maine.edu
Vice Chair: J. Koberstein (Columbia Univ.) jk1191@columbia.edu

STATUS AND DIRECTIONS

Discussion Leader: Alan Gent (Univ. Akron)
Manoj Chaudhury (Lehigh Univ.) – "Emerging Problems in Adhesion Science"
Michael Grunze (Univ. Heidelberg) – "To Stick or not to Stick, that is the Question"

BIO-ADHESION AND BIO-INSPIRED ADHESION I

Discussion Leader: J. Wilker (Purdue Univ.)
E. Arzt (Max Planck Inst. and Univ. Stuttgart) – "Scaling Effects in Natural and Artificial Adhesion Systems"
Benny Geiger (Weizmann Inst.) – "Focal Adhesion Formation"
P. B. Messersmith (Northwestern Univ.) – "Molecular Mechanics of Mussel Adhesion"

BIO-ADHESION AND BIO-INSPIRED ADHESION II

Discussion Leader: Wendy Thomas (Univ. Washington)
P. Nassoy (Inst. Curie/CNRS) – "Dynamics and Mechanics of Cell Spreading and Unbinding"
Jim Callow (Univ. Birmingham) – "Adhesion Processes in a Marine Alga"
Keith W. Waldron (Inst. Food Research.) – "Plant Cell Adhesion and Food Texture"

CONTACT FORMATION

Discussion Leader: Hugh Brown (Univ. Wollongong)
P. Attard (Univ. Sydney) – "Soft Contact: Elastic and Viscoelastic Interactions at Finite Separations"
Mark Robbins (Johns Hopkins Univ.) – "Breakdown of Continuum Contact Mechanics at Small Dimensions"

APPLICATIONS

Discussion Leaders: D. A. Dillard (Virginia Tech) & J. Stein (GE Research)
Charles R. Frihart (Forest Products Lab) – "Wood, Water & Adhesives"
Steve Bennison (Dupont) – "Architectural Laminated Safety Glass"
Greg Schueneman (Henkel) – "Design and Testing of Silicone Gaskets"

INTERFACES

Discussion Leader: Anand Jagota (Lehigh Univ.)
Christopher M. Stafford (National Institute of Standards and Technology) – "Mechanics of Complex Interfaces: Interfacial Adhesion"
Joelle Frechette (Johns Hopkins Univ.) – "Surface Forces in an Electrochemical Environment"

ENERGY DISSIPATION AND RUPTURE

Discussion Leader: C. Y. Hui (Cornell Univ.)
H. Hoelscher (Univ. Munster) – "Energy Dissipation in Nanoscale Contacts Examined by Atomic Force Microscopy"
J. Feinberg (The Hebrew University of Jerusalem) – "Detachment Front Dynamics: The Initiation of Frictional Motion"

POLYMERS

Discussion Leader: Paul Foreman (National Starch)
Kari Dalnoki-Veress (McMaster Univ.) – "Confined Polymer Films"
A. J. Crosby (Univ. of Mass. Amherst) – "One Size Doesn't Fit All: Geometrically Controlling Interfacial Properties"
Nancy Sottos (Univ. Illinois) – "Self-Healing Adhesives"

PERSPECTIVES

Discussion Leader: J. Koberstein (Columbia Univ.)
R. D. Adams (Bristol Univ.) – "Strength Prediction"
E. Barthel (CNRS/Saint-Gobain) – "Historical Perspectives on the Adhesive Contact"

If you know of someone who would like to be added to the mailing list to receive this information on this conference, please send their email address to unertl@maine.edu

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October 15–18, 2006. World Congress on Adhesion and Related Phenomena, WCARP-III, Beijing, PR China. The 3rd World Congress on Adhesion and Related Phenomena, WCARP-III, is built upon a proven concept and continues the tradition of its two predecessors, in Germany 1998 and in the USA 2002, after its initiation in 1994, during an international meeting of the Japanese Adhesion Society. This quadrennial conference series provides a forum for researchers from around the globe to present papers on recent advances in the overall field of adhesion science and technology and related phenomena such as surface technologies, nano-technology, etc.

Plenary Presentations and Speakers

1. Prof. Dr. Masao Doi, University of Tokyo, Japan
   Rheology at Polymer Surface
2. Prof. Dr. David Dillard, Virginia Tech, USA
   Rate-Dependent Fracture of Adhesive Bonds

3. Dr. R. A. Chivers, Smith & Nephew Research Centre, UK
   Adhesion in the human body

Co-operating Organizations

The American Adhesion Society, USA
The Beijing Adhesion Society, China
The British Society for Adhesion and Adhesives, UK
The French Adhesion Society, France
The German DECHEMA, Germany
The Japanese Adhesion Society, Japan
The Korean Adhesion Society, Korea

TOURS: WCARP-III will offer a variety of tours to suit your needs.

For full information concerning the meeting please visit WCARP-III's Web site: http://www.wcarp.cn

SHORT COURSE

Introduction to Composite Materials Science, 6–10 November 2006. University of Surrey, Guildford, Surrey, UK

The School of Engineering at the University of Surrey invites students and professionals to attend this course, which aims to provide a comprehensive introduction to the science and technology of engineering composite materials.

This is a 5-day intensive residential short course covering the essential concept and practice of Composite Materials. The course is designed for those with no previous formal introduction to the science of composites and nor prior knowledge or experience is assumed. All topics will be introduced from first principles and the emphasis will be on developing an understanding of concept rather than a detailed review of current practice. The course consists of three days of lectures and two days of laboratory and exercise classes.

Students will develop an understanding of the relationship between the constituents of a range of composite materials and composite properties. Students will be aware of important design considerations, processing technologies and test methods, leading to an understanding of the relationship between composite design, fabrication and performance.

Introduction to Composite Materials Science is part of the Advanced Materials Programme: a range of eighteen short courses which may be taken individually or from which seven may be selected

and linked together with assessments and a project, to form a modular MSc Degree programme. The course cost £1,075.

For further information and to book places contact:

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