



Royal Microscopical Society

Patron: Her Majesty the Queen

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Microscopy of Biomaterials III Meeting

Programme

Queen Mary and Westfield College, University of London
Wednesday 14 April 1999

- 9.15 – 9.40 Registration and Coffee
9.40 – 9.45 Welcome and Introduction
9.45 – 10.15 INVITED LECTURE
Professor C. Viney
Herriot Watt University

PRESENTATIONS – SESSION 1

- 10.15 – 10.30 *Energy Filtering Transmission Electron Microscopy of Biological and Synthetic Hybrid Materials*
A. Du Chesne, R. Ulrich, U. Weisner, A. Heiss, W. Jahnen-Dechent & G. Wegner
Max Planck Institute for Polymer Research, Mainz, Germany
- 10.30 – 10.45 *A Comparative Study of the Formation of Two Natural Silks with Different Chemical Composition: Selachian Egg Case and Spider Dragline Silks*
D. P. Knight & F. Vollrath
Department of Zoology, University of Aarhus, Denmark
- 10.45 – 11.00 *Microscopic Examination of Self Assembling Aquatic Silk Proteins*
S. Case
Department of Biochemistry, The University of Mississippi Medical Center,
Jackson, USA

11.00 – 11.15 EXHIBITION, POSTER SESSION AND COFFEE

- 11.15 – 11.45 INVITED LECTURE
Professor J. Richardson
Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry

PRESENTATIONS – SESSION 2

- 11.45 – 12.00 *Neointima in Long-term Implanted Prosthetic Grafts*
I. Schmitz, A. Hil lebrand, T. Pfeiffer, W. Sandmann & K. M. Muller
Institute of Pathology, Bergmannsheil Hospital, University Clinic, Bochum, Germany

- 12.00 – 12.15 *The Organisation of Cytoskeletal Components in Isolated Chondrocytes cultured in Agarose*
B. Idowu, M. Knight, D. Bader & D. Lee
IRC in Biomedical Materials, Institute of Orthopaedics, Stanmore, Middlesex
- 12.15 – 12.30 *A New Sudan Black Staining Procedure to Evaluate Polyurethane Vascular Grafts Microporous Structure*
G. Soldani, C. Milioni & P. Losi
Istituto Di Fisiologia Clinica del CNR, Pisa, Italy
- 12.30 – 12.45 *In situ 3-D Microtomography Loading Stage for the Study of Fracture Behaviour in Chevron Notch Specimens*
G. R. Davis, P. Anderson & K. E. Tanner
Department of Biophysics in Relation to Dentistry, IRC in Biomedical Materials, Queen Mary and Westfield College, London
- 12.45 – 2.00 EXHIBITION, POSTERS and LUNCH
- 2.00 – 2.30 INVITED LECTURE
Professor E. Brès
University of Lille, France

PRESENTATIONS – SESSION 3

- 2.30 – 2.45 *Morphological and Structural Study of Pseudowollastonite Implants*
P. N. De Aza, Z. B. Luklinska, M. R. Anseau, F. Guitan & S. De Aza
Instituto de Ceramica, Universidad de Santiago, Santiago, Santiago de Compostela, Spain
- 2.45 – 3.00 *Use of Microscopy in the Development of Bioresorbable Liquid Crystalline Polymers*
A. Brain, R. Morgan & J. Rose
Smith and Nephew Group Research Centre, Heslington, York
- 3.00 – 3.15 *Effect of Corrosion on Tissue in Contact with Orthopaedic Implants: An X-ray Microanalysis of Implant Surfaces and Tissues*
F. Shahgaldi & A. Warley
Orthopaedic Academic and Electron Microscopy Units, The Rayne Institute, St Thomas' Hospital, London
- 3.15 – 3.30 *Assessment of the Bioactivity of Silicon Substituted Hydroxyapatite using Scanning Electron Microscopy*
I. Gibson, S. Best & W. Bonfield
IRC in Biomedical Materials, Queen Mary and Westfield College, London
- 3.30 – 3.45 *Quantitative Study of Bone Formation Related to Polymer Implants Sterilised by Different methods*
X. S. Zhang, P. Revell, P. Gregson, S. Evans & M. Tuke
Department of Histopathology, Royal Free Hospital School of Medicine, London
- 3.45 – 4.15 TEA and POSTER PRIZE AWARDS