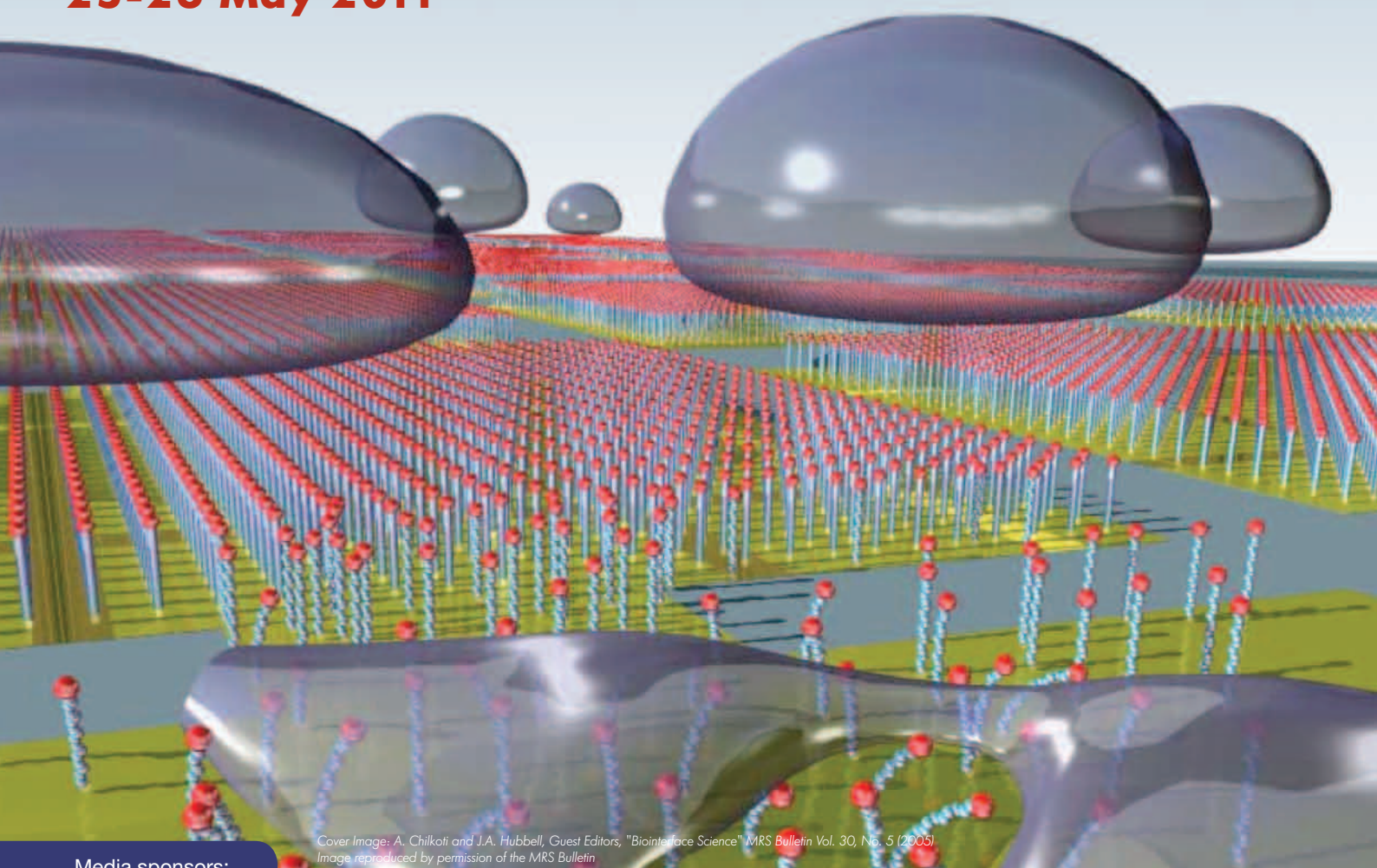


2nd International Conference

Smart Polymer Systems 2011

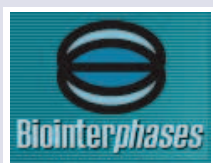
InterCityHotel Mainz, Germany
25-26 May 2011

Early Bird
Offer
Book before
18 March 2011 and save
€300
Academic Discounts Apply



Cover Image: A. Chilkoti and J.A. Hubbell, Guest Editors, "Biointerface Science" MRS Bulletin Vol. 30, No. 5 (2005).
Image reproduced by permission of the MRS Bulletin

Media sponsors:



Organised by:



www.polymerconferences.com

Smart Polymer Systems 2011

Finding the next "blockbuster"...

iSmithers is pleased to announce the second International Conference on **Smart Polymer Systems**, to be held in Mainz, Germany, from 25-26 May 2011.

This technical briefing aims to highlight the most recent advances and developments in this rapidly evolving field, and will provide attendees with an in-depth and comprehensive outlook on the emerging trends, perspectives and limitations of the technological applications of the different classes of stimuli-responsive polymer materials.

In particular, this conference will cover stimuli-responsive polymers applied to layer-by-layer (LBL) thin films and capsules, tethered polymer layers, self-assembled amphiphilic molecules, membranes, nanogels, surface-modified nanoparticles and hybrid systems – all areas in which significant progress has been achieved over the last five years.

An impressive panel of speakers will showcase the scope of these "smart" materials and their potential applications for the future.

Early Registration Offers

Register before **18 March 2011** to take advantage of the special Early Bird Discount registration fee.

Companies sending one or two delegates

€799 + VAT @ 19% per delegate before 18 March 2011

€1099 + VAT @ 19% per delegate after 18 March 2011

Companies sending three or more delegates

€699 + VAT @ 19% per delegate before 18 March 2011

€999 + VAT @ 19% per delegate after 18 March 2011

Academic Fee - please quote code 'AC' (if registering online)

€500 + VAT @ 19% per delegate before 18 March 2011

€650 + VAT @ 19% per delegate after 18 March 2011

Registration includes a copy of the proceedings, lunches and refreshments during the day. The cost of accommodation is not included in the delegate registration fee.

Conference Venue

InterCityHotel Mainz

InterCityHotel Mainz, Binger Strasse 21

55131 Mainz, Germany

Tel: +49 6131 58851-300

<http://www.intercityhotel.com/en/Mainz>

This modern, affordably priced hotel is just 150 metres away from Mainz Central Station. It offers soundproofed rooms, varied breakfast buffets, and free public transport passes for Mainz and Wiesbaden. Wi-Fi is available in all areas, and there is an internet terminal in the InterCityHotel's lobby.

Attractions near the InterCityHotel include the Mainzer Dom Cathedral (1 km) and the Gutenberg Museum (1.5 km).

There are 2 public garages outside the InterCityHotel Mainz.



Accommodation

We are holding a number of rooms at the InterCityHotel Mainz at a specially negotiated rate. Accommodation booking forms will be sent with your joining instructions on receipt of your completed conference registration form.

For further assistance please contact conferences@ismithers.net

Sponsorship & Exhibition

A limited number of cost effective sponsorship opportunities are available to maximise your corporate profile at this important event. For further information please contact Helen Charlesworth, hcharlesworth@ismithers.net.

Conference Language

Please note that the conference will be conducted in English.

iSmithers has been organising world class technical conferences for the polymer and related industries for over 30 years. Drawing authorities from industry and academia, conferences offer the ideal forum to hear original, pioneering technical papers and meet and exchange ideas with like-minded peers from across the world. With topics spanning the latest developments in rubber and plastics technology, legislative changes and market trends, iSmithers conferences continue to attract over 1,200 senior technical executives and decision makers per year.

Conference Agenda

Day One: Wednesday 25 May 2011

- 08.30 COFFEE AND REGISTRATION
- 09.20 Welcome and Introduction to Smart Polymer Systems 2011
- 09.30 **Dynamic colloidal particles: locomotion and actuation**
Prof Joerg Lahann, Departments of Chemical Engineering, Materials Science and Engineering, Macromolecular Science and Engineering and Biomedical Engineering, University of Michigan, US & Institute of Functional Interfaces, Karlsruhe Institute of Technology, Germany
- 10.00 **Polymer assembly on uneven surfaces: fabrication of free standing enclosed microchamber arrays and capsules**
*Gleb B Sukhorukov, School of Engineering & Materials Science, Queen Mary, University of London, UK; Maxim V Kiryukhin & Hong Yee Low, Institute of Materials Research and Engineering, A*Star, Singapore; Andre G Skirtach, Max Planck Institute of Colloids & Interfaces, Germany*
- 10.30 **Superposing structural complexity and smart behaviour in thermo-responsive multiblock copolymers**
Prof André Laschewsky, University of Potsdam, & Fraunhofer Institute for Applied Polymer Research, Germany
- 11.00 COFFEE
- 11.30 **Design of non-ionic polymers with controllable LCST or UCST behaviours in aqueous milieu**
Dr Jean-François Lutz, Precision Macromolecular Chemistry Group, Institut Charles Sadron, France
- 12.00 **Smart conducting polymers for electrooptical devices**
M Salsamendi, A Viñuales, C Pozo-Gonzalo, E Ochoteco & G Cabañero, New Materials Department, CIDETEC-IK4, Spain; A I Mikhaleva & BA Trofimov, A E Favorsky Irkutsk Institute of Chemistry SB RAS, Russia
- 12.30 **Genetically engineered smart polypeptide nanoparticles for drug delivery**
Ashutosh Chilkoti, Theo Pilkington Professor of Biomedical Engineering, Duke University, US
- 13.00 LUNCH
- 14.15 **Packaging DNA – the code for a virus coat**
Prof Dr Martien Cohen Stuart, Laboratory of Physical Chemistry & Colloid Science, Wageningen University, The Netherlands
- 14.45 **Chemical and physical cues in marine fouling**
Dr Axel Rosenhahn, Institute of Functional Interfaces, Karlsruhe Institute of Technology, Germany
- 15.15 **Polymers switches and biological responses**
Prof Cameron Alexander, School of Pharmacy, University of Nottingham, UK
- 15.45 COFFEE
- 16.15 **Functional gels via biocatalytic self-assembly**
Prof Rein Ulijn, WestCHEM, University of Strathclyde, UK
- 16.45 **Synthesis of functional temperature responsive polymers for controlling biomolecular transport systems**
Prof Dirk Kuckling, Universität Paderborn, Germany
- 17.15 **Biopolymer based colloidal particles as functional delivery systems**
Dr Krassimir Velikov, Unilever R&D Vlaardingen, The Netherlands
- 17.45 END OF DAY ONE
- 18.45 EVENING SOCIAL EVENT

Day Two: Thursday 26 May 2011

- 08.30 COFFEE
- 09.00 **Vapour phase methods for functional nanoscale inorganic coatings on textiles**
Prof Jesse S Jur, Department of Textile, Chemistry & Science, NC State University; Joe Spagnola, Bo Gong, William J Sweet III & Gregory N Parsons, Department of Chemical and Biomolecular Engineering, NC State University, US
- 09.30 **Healable supramolecular polymer networks**
S Burattini, B W Greenland, H M Colquhoun and W Hayes, Department of Chemistry, University of Reading, UK
- 10.00 **Smart polymer nanoparticles and nanocapsules**
Prof Katharina Landfester, Max-Planck-Institut für Polymerforschung, Germany
- 10.30 COFFEE
- 11.00 **Redox responsive organometallic polymer brushes: current mediation, and control of adherence and friction**
G Julius Vancso, Jing Song, & Mark Hempenius, University of Twente, MESA+ Institute for Nanotechnology, The Netherlands
- 11.30 **Stimuli-responsive polymer brushes with functional nanoparticles**
Prof Manfred Stamm, Leibniz-Institut für Polymerforschung Dresden eV (IPF), Germany
- 12.00 **Hybrids of polymer colloids and inorganic nanoparticles**
Prof Matthias Ballauff, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany
- 12.30 **Complex polymer topologies: synthesis, characterisation and self-assembly**
Prof Manfred Schmidt, University of Mainz, Germany
- 13.00 LUNCH
- 14.15 **Novel approaches for patterning smart polymer nano- and microstructures: from field-induced nanolithography to colloidal lithography**
Stefan Zauscher, Department of Mechanical Engineering and Materials Science, Duke University, US
- 14.45 **Applications of smart polymers in biotechnology**
Bo Mattiasson & Harald Kirsebom, Department of Biotechnology, Lund University, Sweden
- 15.15 **Polymers for microsystems engineering: from polymer brushes and networks to new biomedical devices**
Prof Dr Jürgen Rühe, Albert-Ludwigs-Universität Freiburg, Germany
- 15.45 QUESTION AND ANSWER SESSION
- 16.00 END OF CONFERENCE

Please note: The conference organisers reserve the right to modify or change the above programme if necessary.

1. Full Name..... Job Title Dr/Prof/Mr/Mrs.....
 2. Full Name..... Job Title Dr/Prof/Mr/Mrs.....
 3. Full Name..... Job Title Dr/Prof/Mr/Mrs.....
 4. Full Name..... Job Title Dr/Prof/Mr/Mrs.....

Contact Address

Company

.....

Address.....

.....

.....

.....

Telephone.....

Fax.....

E-mail.....

Invoice Address (if different)

Company

.....

Address.....

.....

.....

.....

Telephone.....

Fax.....

E-mail.....

Delegate Registration *Registration includes a copy of the proceedings, lunches and refreshments during the day and an evening drinks reception.*

Companies sending one or two delegates

€799 + VAT at 19% per delegate before 18 March 2011

€1099 + VAT at 19% per delegate after 18 March 2011

Companies sending three or more delegates

€699 + VAT at 19% per delegate before 18 March 2011

€999 + VAT at 19% per delegate after 18 March 2011

Academic Fee – Please quote code ‘AC’ (if registering online)

€500 + VAT at 19% per delegate before 18 March 2011

€650 + VAT at 19% per delegate after 18 March 2011

Wallet Service:
€750 (Insertion of one pen or brochure, up to 6 A4 pages, in every delegate conference bag)

Tabletop Exhibition:
€2000 (includes one delegate place)

Members Discount:
Rapra Members are entitled to a further discount off the standard registration fee.

If you have a Promotional Code please enter it here

Payment Information

Please indicate in which currency you wish to pay. If no box has been ticked the default currency will be € Euros.

€ Euro £ Sterling (This will be applicable at the prevailing rate) \$ US (This will be applicable at the prevailing rate)

Please invoice my company - Purchase Order Number (if required)

Cheque - Please make cheques payable to Smithers Rapra Technology Limited

Bank Transfer - Please make direct payment to either of the following National Westminster Bank accounts
 National Westminster Bank, 8 Mardol Head, Shrewsbury, Shropshire, SY1 1HE, Sort Code 55-50-05, Ref. XSPS11
 € Euro Account No: 58879056 Swift No: NWBKGB2L Iban: GB97NWBK60720158879056
 £ Sterling Account No: 55586767 Swift No: NWBKGB2L Iban: GB78NWBK5550055586767
 \$ US Dollars Account No: 58879064 Swift No: NWBKGB2L Iban: GB13NWBK60730158879064

Please enter your company Reg. no. below:

Please enter your company VAT no. below:

Credit Card Payment: MasterCard Visa American Express (please indicate)

Expiry Date: Signature:

Name on Credit Card (in CAPITALS)

Security Number (Visa/Mastercard - last 3 numbers in the signature box on reverse of card. Amex - 4 number code on the front of the card)

Cancellation Terms By completing and returning this form delegates are agreeing to be bound by the cancellation terms and conditions of registration. Substitutions can be made at any time, please inform us in writing prior to the conference. If you wish to cancel your registration please do so in writing. A full refund less 20% administration fee will be applicable 28 days before the conference. Cancellations received after this time will be liable for the full registration fee.

Return to:
 Sharon Garrington, Conference Department,
 Smithers Rapra, Shawbury, Shrewsbury, Shropshire,
 SY4 4NR, United Kingdom.
 Tel: +44 (0)1939 250383 Fax: +44 (0)1939 252416
 E-mail: sgarrington@ismithers.net
www.polymerconferences.com