

Smart Polymer Systems 2011

Second International Conference
25-26 May 2011, Mainz, Germany (location TBC)

Nowadays so called “smart” or “intelligent” materials are breaking new ground in everything from medicine and sportswear to food packaging and the aerospace and automotive sectors.

Prepared from thermo-, light-responsive or pH-sensitive polymer systems, smart materials get their name by responding to small external stimuli with dramatic and predictable structural changes.

The commercial possibilities are literally endless. Whether it be yielding the next blockbuster cancer drug, tagging for food packaging or crime prevention, smart technologies are lucrative and ripe for the taking.

iSmithers' second conference meeting aims to highlight the most recent advances and developments in this rapidly evolving field, and to provide attendees with a broad and comprehensive outlook on the emerging trends, perspectives, and limitations of the technological applications of various classes of stimuli-responsive polymer materials.

The conference aims to provide a comprehensive overview of the current state-of-the-art in the field and demonstrate, via a range of case studies and contributions from leading researchers, how companies might capitalise on this emerging technology. iSmithers is currently recruiting speakers for this conference so if this is your area of expertise please consider submitting a paper.

Specifically, this focused conference will cover stimulus 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 5 years

Recent findings involve new kinds of functionalities, materials responsive to stimuli such as light, electrical and magnetic fields, composites of synthetic and biomolecular materials, hierarchically-organized complex systems with multiple responses, and systems capable of processing multiple signals. Papers are being particularly welcomed on:

- Sensing/ sensors
- Intelligent textiles
- Actuators
- Smart Coatings
- Wetting and Adhesion
- Hierarchically Structured Composites
- Stimuli-Responsive Colloidal systems
- Biomolecular patterning
- Drug delivery
- In vivo gene delivery
- Nanoparticles
- Biomembranes
- Tissue Engineering
- Stents
- Industry case studies and current academic research are welcomed for both days of the conference.

If you are interested in presenting a paper at this event, please complete and return the following abstract form or send a title, short summary, speaker name(s) and company name(s) to Alix Reeves email areeves@ismithers.net or fax +44 (0) 1939 252416 by the deadline of **19 November 2010**.

Conference Language – please note that the conference will be conducted in English.

Sponsorship and Exhibition – A limited number of high profile, cost effective sponsorship opportunities are available to advertise your company alongside this important event. For more information please go to: www.polymerconferences.com or contact the conference department: conferences@ismithers.net
Tel: +44(0) 1939 250383 Fax: +44 (0) 1939 252416.

‘Organising conference for the plastics and rubber industries for over 30 years’

www.polymerconferences.com

Abstract Submission Form – Smart Polymer Systems 2011

If you would like to present a paper at the above event please complete and return this abstract form to the Smithers Rapra Conference department by the **19 November 2010**. Alternatively please email an outline of your proposed paper to Alix Reeves (areeves@ismithers.net)

You will be allowed 30 minutes for the presentation at the conference which includes approximately 5 minutes for questions. Finished papers must be provided prior to the conference for free distribution to all delegates at the event. The programme consultant(s) will review abstracts submitted and authors will be notified of acceptance by 19 December.

Presenting authors at the conference will be entitled to free registration on both days including meals, refreshments and a copy of the conference papers.

Title of Paper	
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Presenting Author	Prof/Dr/Mr/Mrs/Other
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Subject Area

Abstract (approx 200 words)

Co Authors	
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Contact Name (if different from Presenting Author name above)

Company

Address

Tel	Fax	Email
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Please return this form by 19 November 2010 to:

Alix Reeves, Business Manager - Conferences, Smithers Rapra Technology, Shawbury, Shropshire, SY4 4NR, United Kingdom
Fax: +44 (0) 1939 252416 or email your abstract to: areeves@ismithers.net