

## Second Circular and Provisional Conference Programme

The Speciality High Performance Polymer Fibres Conference

# Polymer Fibres 2006

12–14 July 2006, Manchester Conference Centre, University of Manchester, UK

New Applications · New Techniques · New Developments · Future Developments & Trends

Co-Sponsored by The Fiber Society & The Manchester Materials Science Centre

## Scientific Advisory Committee

*Conference Chairman: Professor R.J. Young (Manchester Materials Science Centre, UK)*

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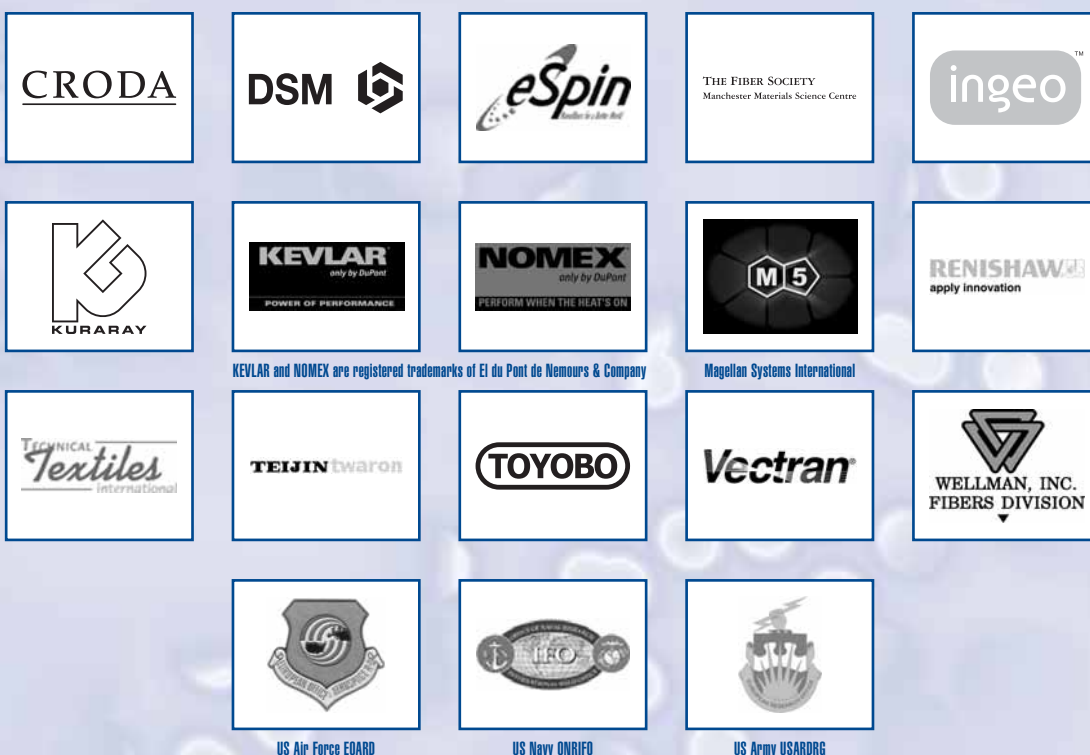
*Ben Drogdt (DSM, The Netherlands) · Dr D. Bott (Oxford Biomaterials, UK)*

*Professor F.R. Jones (University of Sheffield, UK) · Dr S.J. Eichhorn (University of Manchester, UK)*

*Mr A. Schaap (Teijin-Twaron, The Netherlands)*

The **Polymer Fibres 2006** scientific programme will include keynote lectures, contributed papers and poster presentations emphasizing all key aspects of, and new developments in polymer fibre science technology and engineering.

## Closing Date for Poster Abstract Submissions Friday 2<sup>nd</sup> June 2006



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Magellan Systems International

POLYMER FIBRES 2006

The International Polymer Fibre Conference

Register securely on-line at: [www.meetingsmanagement.com/pf\\_2006](http://www.meetingsmanagement.com/pf_2006)

07.30 Onwards

Delegate Registration

09.00–09.10

**Welcome & Opening Remarks**

Professor Robert J. Young (*University of Manchester, UK*)

Polymer Fibres 2006 Conference Chairman

### SESSION 1:

#### BIOMEDICAL FIBRES

Moderator: Robert J. Young (*University of Manchester, UK*)

09.10–09.40

**'Making Polymer fibres for synthetic muscle'**

Anthony J. Ryan (*University of Sheffield, UK*)

09.40–10.10

**'Novel structures in biorelevant fibres'**

Michael Jaffe, Seung-uk Yoo and George Colins  
(*New Jersey Institute of Technology, USA*)

10.10–10.30

**'Self assembled nano-fibrous hydrogels  
for regenerative medicine'**

Rein V. Ulijn (*University of Manchester, UK*)

10.30–10.50

**'Dyneema® purity: An ultra high molecular weight  
polyethylene fibre technology available for  
medical applications'**

Claudia M. Vaz, Nicole Gerrits, Leo Smit and Ben Drogt  
(*DSM Dyneema BV, Geleen, The Netherlands*)

10.50–11.20

Coffee Break & Poster Set-Up

### SESSION 2:

#### HIGH PERFORMANCE FIBRES – I

Moderator: Ian Ward (*University of Leeds, UK*)

11.20–11.50

**'Short-period fluctuation of the characteristics of  
poly(ethylene terephthalate) fibers revealed through the  
on-line measurement of the in-line drawing process and  
the mechanical testing of fibers'**

Wan-Gyu Hahm, Hiroshi Ito, Masatoshi Shioya  
and Takeshi Kitutani (*Tokyo Institute of Technology, Japan*)

11.50–12.10

**'The relationship between fiber structure and mechanical  
properties in high-strength and high-modulus fibers from  
the microscopic point of view'**

Tooru Kitagawa (*Toyobo Research Center Co.Ltd., Shiga, Japan*)

12.10–12.30

**'Fatigue failure of thermoplastic fibres'**

C. Le Clerc, A.R. Bunsell and B. Monasse  
(*Ecole des Mines de Paris, Evry Cedex, France*)

12.30–14.00

Lunch & Posters

### SESSION 3:

#### NATURAL FIBRES – I

Moderator: Stephen J. Eichhorn (*University of Manchester, UK*)

14.00–14.30

**'Spider silk fibres'**

Fritz Vollrath (*University of Oxford, UK*)

14.30–14.50

**'Spinning conditions and properties of regenerated silk  
fibroin fibres'**

E. Marsano, P. Corsini and G. Freddi (*University of Genoa, Italy*)

14.50–15.20

**'Structure/property relationships in wool and hair'**

Franz Josef Wortmann (*University of Manchester, UK*)

15.20–15.50

**'A comparison of the structural mechanics of protein fibres'**

John W.S. Hearle (*University of Manchester, UK*)

15.50–16.20

Tea Break & Posters

### SESSION 4:

#### NANOFIBRES/ELECTROSPINNING – I

Moderator: Michael Jaffe

(*New Jersey Institute of Technology, USA*)

16.20–16.50

**'Nanotube-based fibres: An overview'**

Alan H. Windle (*University of Cambridge, UK*)

16.50–17.10

**'Carbon nanotubes in high strength Dyneema® fibres'**

Harm van der Werff (*DSM Research, Geleen, The Netherlands*)

17.10–17.30

**'Modelling stochastic features of electrospun  
fibrous networks'**

W. Sampson and S.J. Eichhorn (*University of Manchester, UK*)

17.30–18.00

**'Continuous nanofibres'**

Yuris A. Dzenis (*University of Nebraska-Lincoln, USA*)

18.00–19.00

Welcome Reception & Poster Session

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**SESSION 5:**

**NANOFIBRES/ELECTROSPINNING – II**

Moderator: Alan Windle (*University of Cambridge, UK*)

08.30–09.00

**'An integrated model of electrospinning'**

Michael Jaffe, Yuki Imura, H.L. LaNieve and George Colins  
(*New Jersey Institute of Technology, USA*)

09.00–09.30

**'Molecular orientation in macroscopically aligned electrospun polymer nanofibers'**

John F. Rabolt, Meghana Kakade and Steven Givens  
(*University of Delaware, Newark, Delaware, USA*) and Bruce Chase (*DuPont Central Research, Wilmington, Delaware, USA*)

09.30–09.50

**'Electrospinning: three dimensional shaped nanofibre webs through a self-structuring effect'**

Luc Ruys, Jan Laperre (*Centexbel, Zwijnaarde, Belgium*) Etienne Schacht and Luc van Vaeck (*University of Ghent, Belgium*) and Luc Van Vaeck (*University of Antwerp, Belgium*)

09.50–10.10

**'Ceramic fibres from polymer nanofibre precursors'**

Adrian Lowe and Erin Davies  
(*Australian National University, Canberra, Australia*)

10.10–10.30

**'Aramid nanocomposites: Investigation of orientational order in PPTA/SWCNT/H<sub>2</sub>SO<sub>4</sub> solutions'**

D.P.N. Vlasveld, E. Swierenga, H. Boerstoeel, H. Fischer and S.J. Picken (*Delft University of Technology, The Netherlands*)

10.30–11.00

Coffee Break & Posters

**SESSION 6:**

**MODIFICATION/FUNCTIONALIZATION OF FIBRES – I**

Moderator: Robert R. Mather (*Heriot-Watt University, UK*)

11.00–11.20

**'Functionalised PBO fibres for adhesion to resins'**

Frank R. Jones (*University of Sheffield, UK*)

11.20–11.40

**'The modification of PPTA fibres'**

Kazuhiko Kosuge (*Toray-DuPont, Japan*)

11.40–12.00

**'Lewis acid-based complexation of polyamide 66 to control hydrogen bonding, extensibility, crystallinity and modulus'**

David Salem (*ChargedInjection, Princeton, NJ, USA*)

12.00–12.20

**'Surface characterization of hair exposed to heat'**

Chris Carr (*University of Manchester, UK*)

12.20–12.40

**'Adhesion issues in PBO/epoxy composites'**

E. Mader, S. Melcher, J. Liu, S.L. Gao (*Leibniz Institute of Polymer Research Dresden, Germany*) and A.D. Bianchi, T. Herrmannsdoerfer, S. Zherlitsyn, S.A. Zvyagin and J. Wosnitza (*HLD, Dresden, Germany*)

12.40–13.00

**'PP fibers dyeable via nanotechnology'**

L. Toshniwal, Q. Fan, S.C. Ugbohue and F.J. Scarano (*University of Massachusetts, North Dartmouth, Massachusetts, USA*)

13.00–14.00

Lunch & Posters

**SESSION 7:**

**APPLICATIONS**

Moderator: To be confirmed

14.00–14.20

**'The impact of mechanical folding on ballistic armor performance'**

Gale Holmes, Jaehyun Kim, William Blair, Walter McDonough and Chad Snyder (*National Institute of Standards & Technology, Gaithersburg, Maryland, USA*)

14.20–14.40

**'Conductive fibres obtained by carbon black nanoparticles coating'**

Karin Widman, Maarit Peltola, Cedric Cochrane, Bohwon Kim and Vladan Koncar (*GEMTEX/ENSAIT, Roubaix, France*)

14.40–15.00

**'Evaluation of novel electric discharge dissipative fibre'**

Anne Kanervo, Jaana Kriikka and Ali Harlin (*Tampere University of Technology, Tampere, Finland*)

15.00–15.20

**'Mechanics of tirecord reinforced rubber hoses with high strain to serve as shock absorbers in oceanographic buoy moorings'**

Walter Paul  
(*Woods Hole Oceanographic Institution, Massachusetts, USA*)

15.20–15.50

Tea Break & Posters

**SESSION 8:**

**MODIFICATION/FUNCTIONALIZATION OF FIBRES– II**

Moderator: Frank Jones (*University of Sheffield, UK*)

15.50–16.10

**'Melt-spinning of Poly(tetrafluoroethylene) – A Paradigm Shift'**

Theo Tervoort and Paul Smith (*ETH Zurich, Switzerland*)

## Conference Programme – Thursday 13<sup>th</sup> July 2006

16.10–16.30

### 'Combined Roman systems for materials and chemical analysis'

Andrew King (*Renishaw plc, Gloucestershire, UK*)

16.30–16.50

### 'Rheology and phase behavior of low concentrations PPTA in NMP/CaCl<sub>2</sub>'

Erik Westerhof (*Teijin Twaron, Arnhem, The Netherlands*)

16.50–17.10

### 'Modelling the structure–property relationships of auxetic extruded fibres'

A. Alderson, K.L. Alderson and N. Ravirala  
(*The University of Bolton, UK*)

17.10–17.30

### 'Harnessing the melting peculiarities of ultra-high molecular weight polyethylene (UHMWPE) fibers for the processing of compacted fiber composites'

Liron Shavit-Hadar, Dmitry M. Rein, Rafail Khalfin, Yachin Cohen, Ann E. Terry and Sanjay Rastogi  
(*Technion-Israel Institute of Technology, Haifa, Israel*)

17.30–17.50

### 'Chemically modified poly(p-phenylene benzoxazole) fiber by incorporation of sulfoterephthalic or sulfoisophthalic acid salt'

Guang Li et al. (*Donghua University, Shanghai, China*)

Evening

Polymer Fibres 2006 Conference Dinner  
To be announced

## Conference Programme – Poster Session

### 'Covering cotton and silk fibers by polypyrrole and polyaniline to improve conductivity'

A.H. Esfandiari  
(*Islamic Azad University South Tehran Branch, Tehran, Iran*)

### 'Deformation micromechanics of process controlled cellulose fibres using Raman spectroscopy and synchrotron X-ray diffraction'

Kenny Kong and Stephen J. Eichhorn  
(*University of Manchester, UK*)

### 'Mechanical behaviour of PET and PEN fibres and ropes at different scales'

C. Lechat, A. Bunsell, P. Davies and A. Piant  
(*Ecole des Mines de Paris, Evry Cedex, France*)

### 'The effect of processing parameters on the properties of auxetic polypropylene fibres'

K.L. Alderson, A. Alderson, P.J. Davies, G. Smart and G. Simkins  
(*The University of Bolton, UK*)

### 'A study on the performance of a positive pressure attenuator in a nonwoven system'

Hong Wang (*Donghua University, Shanghai, China*)

### 'A study of cross-sectional area distribution along wool from new Sifan'

Chuanming Deng, Lijing Wang and Xungai Wang  
(*Deakin University, Australia*)

### 'Effect of air texturing of polyesters used in cord technology on adhesion behaviour to rubber'

A.S. Hockenberger, S. Koral and M. Acar  
(*Uludag University, Gorukle-Bursa, Turkey*)

### 'Negative-ion generating properties of soybean protein fiber'

P. Bi, Y. Chen and R. Li (*Donghua University, Shanghai, China*)

### 'A study of the miscibility and crystallisation kinetics of polyvinylidene fluoride-hexafluoropropene/polyethylene blends'

V. Agarwal, A.F. Fotheringham and R.R. Mather  
(*Heriot-Watt University, Galashiels, Scotland, UK*)

### 'Surface functionalization of silk fabric by PTFE sputter coating'

F.L. Huang, Q.F. Wei, D.Y. Hou and Y.Y. Wang  
(*Southern Yangtze University, Wuxi, China*)

### 'The role of intractive and resistive forces on hole formation in wet spinning of polyacrylonitrile'

S. Arbab et al. (*Amirkabir University of Technology, Tehran, Iran*)

### 'Spinnability of acrylonitrile copolymer in ionic liquids'

Y. Zhang et al. (*Donghua University, Shanghai, China*)

### 'Application of the polymer fibres in protective clothing'

M. Matusiak and K. Sikorski  
(*Institute of Textile Architecture, Lodz, Poland*)

### 'Thermal insulation properties of textile materials'

M. Matusiak (*Institute of Textile Architecture, Lodz, Poland*)

### 'Electical and mechanical properties of conductive carbon black/polyolefin composites mixed with carbon fiber'

A. Farshidfar and V. Haddadi-Asl  
(*Amirkabir University of Technology, Tehran, Iran*)

### 'Study on the synthesis of a cyclic phosphate and application to the flame retardant PTT fiber'

Wang Xueli (*Donghua University, Shanghai, China*)

### 'Effect of atactic polypropylene content on the properties of polypropylene fibers'

Sh. Kazemi et al.  
(*Amirkabir University of Technology, Tehran, Iran*)

## Polymer Fibres 2006 Conference Secretariat, Meetings Management

The Barn, Rake Meadow, Station Lane, Milford, Surrey, GU8 5AD, United Kingdom  
Conference Manager: Caroline Sumner Telephone: +44 (0)1483 427770 Fax: +44 (0)1483 428516  
Email: [csumner@meetingsmgmt.u-net.com](mailto:csumner@meetingsmgmt.u-net.com) Register securely on-line at: [www.meetingsmanagement.com/pf\\_2006](http://www.meetingsmanagement.com/pf_2006)

**SESSION 9:**

**NATURAL FIBRES – II**

Moderator: John Hearle (*University of Manchester, UK*)

08.30–09.00

**'The micromechanical properties of cellulose fibres:  
An overview'**

Stephen J. Eichhorn (*University of Manchester, UK*)

09.00–09.20

**'All cellulose composites'**

Ton Peijs, N. Soykeabkaew, N. Arimoto and T. Nishino  
(*Queen Mary, University of London, UK*)

09.20–09.40

**'Characterisation of fibrillar and pore structure  
in natural and man-made cellulose fibres by modern  
imaging techniques'**

K. Christian Schuster et al. (*Lenzing AG, Lenzing, Austria*)

09.40–10.00

**'Non-isothermal crystallization kinetics of  
polypropylene/microcrystalline cellulose composite'**

X. Sun (*Donghua University, Shanghai, China*)

10.00–10.30

Coffee Break & Posters

**SESSION 10:**

**MODIFICATION/FUNCTIONALIZATION OF FIBRES – III**

Moderator: Chris Carr (*University of Manchester, UK*)

10.30–10.50

**'Thermal properties comparative analysis of aromatic  
yarns based on polyaramide, polyimide and polyoxadiazole  
polymers by DSC, TGA, TMA and mechanical  
testing methods'**

Kirill E. Perepelkin et al.

(*St. Petersburg State University of Technology & Design, Russia*)

10.50–11.10

**'Online spinning of commingled yarns – equipment and yarn  
modification by tailored fibre surfaces'**

Edith Mader, Christina Rothe, Harald Brunig and Thomas Leopold  
(*Leibniz Institute of Polymer Research Dresden, Germany*)

11.10–11.30

**'Research on dynamic wicking action of shaped polymer  
fiber assembly'**

Yan Zhang et al. (*Donghua University, Shanghai, China*)

11.30–11.50

**'Investigation on the adhesion between treated reinforcing  
cords and rubber'**

W.B. Wennekes, R.N. Datta and J.W.M. Noordermeer  
(*University of Twente, Enschede, The Netherlands*)

11.50–12.10

**'Preparation and characterization of TiO<sub>2</sub>/PP  
nanocomposite fibres'**

Q.F. Wei, F.L. Huang, R.R. Mather and X.Q. Wang  
(*Southern Yangtze University, Wuxi, China*)

12.10–12.30

**'Modelling of capillary flow in shaped polymer fiber bundles'**

Huaping Wang et al. (*Donghua University, Shanghai, China*)

12.30–14.00

Lunch & Posters Breakdown

**SESSION 11:**

**CLOSING PLENARY SESSION**

Moderator: John Hearle (*University of Manchester, UK*)

14.00–14.30

**'Incorporation of carbon nanofibres into single polymer  
propylene composites'**

Ian M. Ward (*University of Leeds, UK*)

14.30–00–15.00

**'Nanotube reinforced polymer fibres'**

Ton Peijs, Z. Wang, P. Ciselli and R. Zhang  
(*Queen Mary, University of London, UK*)

15.00–15.30

**'Investigations of fibre and composite micromechanics  
using synchrotron radiation'**

R.J. Young, R.J. Davies, S.J. Eichhorn, J. Bennett  
and Y-T. Shyng (*University of Manchester, UK*)

15.30–15.40

**Closing Remarks**

Robert J. Young (*University of Manchester, UK*)

Polymer Fibres 2006 Conference Chairman

15.40

**Tea & Departure**

Optional Departmental Visits

\* THIS PROVISIONAL PROGRAMME IS CORRECT AT TIME OF PRINTING. HOWEVER THE ORGANIZERS RESERVE THE RIGHT TO MAKE ANY ALTERATIONS THAT MAY BE REQUIRED IN THE INTERESTS OF THE FINAL CONFERENCE PROGRAMME.

**Polymer Fibres 2006 Conference Secretariat, Meetings Management**

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European Office of Aerospace Research and Development, Air Force Office of Scientific Research, United States Air Force Research Laboratory, Office of Naval Research International Field Office,  
US Army European Research Office, United States Army Research Development and Standardization Group (UK).

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## Information for Delegates

### REGISTRATION

Delegates should register for Polymer Fibres 2006 by completing the form provided on the back page of this brochure. The completed Conference Registration Form plus payment (payment in UK £ Pounds Sterling) should be sent to the Polymer Fibres 2006 Conference Manager – Caroline Sumner at Meetings Management. The Polymer Fibres 2006 Conference Registration Desk will be open from 8.00am on Wednesday 12th July 2006. **Delegates can also register securely on-line at: [www.meetingsmanagement.com/pf\\_2006](http://www.meetingsmanagement.com/pf_2006)**

Under UK HM Customs & Excise regulations, attendees from all countries are required to pay 17.5% Value Added Tax (VAT) on the Conference Registration Fees (see Customs & VAT Refunds section below).

### VENUE & ACCOMMODATION

The Polymer Fibres 2006 conference will be held in Manchester at the Manchester Conference Centre, Weston Building, University of Manchester, Sackville Street, Manchester, M60 1QD, United Kingdom. The conference sessions and accommodation are both within the conference centre. The Manchester Conference Centre is the only purpose built residential conference venue situated in the centre of Manchester.

All oral conference sessions will be held in the main tiered lecture theatre within the Manchester Conference Centre.

To make your accommodation reservation please use the relevant section in the Delegate Reservation Form on the back page of this brochure. Residential accommodation for Polymer Fibres 2006 delegates is priced at £73.97 per night including 17.5% VAT and breakfast.

#### The Manchester Conference Centre

Tel: +44 (0) 161 955 8084 Fax: +44 (0) 161 955 8050

Email: [mcc@manchester.ac.uk](mailto:mcc@manchester.ac.uk) Web: [www.meeting.co.uk](http://www.meeting.co.uk)

**Hotel Accommodation:** Meetings Management has reserved a limited number of rooms at *The Lowry Hotel* in Manchester (located 10 minutes walk from University of Manchester). To take advantage of the reduced rate of £135 per night (single occupancy, inclusive of VAT & service), bookings should be made prior to 12th June direct to the hotel quoting "POLYMER FIBRES 2006".

**Hotel Contact Details:** To reserve rooms at *The Lowry Hotel* please contact reservations:

Tel: +44 (0) 161 827 4000 Fax: +44 (0) 161 827 4001

Email: [vcook@thelowryhotel.com](mailto:vcook@thelowryhotel.com) Web: [www.roccofortehotels.com](http://www.roccofortehotels.com)

### CUSTOMS & VAT REFUNDS

General international travel rules apply. All visitors to the United Kingdom must show proof of citizenship and must be travelling on a valid passport. We recommend that you carry a photocopy of your passport with you, separate from your actual passport.

Under UK HM Customs & Excise regulations, attendees from all countries are required to pay 17.5% Value Added Tax (VAT) on most purchases made within the UK. The attendee's organization may be able to reclaim VAT paid on business expenses such as hotel accommodations, conference registration fees, meals, car hire, telephone and fax expenses. Many organizations doing business internationally have a reclaim system in place. Because VAT reclaim issues are complex, we would strongly encourage you to investigate VAT refund policies and procedures as they pertain to you and your organization, BEFORE your departure for the conference. In some circumstances, it is possible for VAT to be refunded to tourists who purchase goods; however, VAT reclaim procedures for non-business related purchased goods may differ. For further information, please check the following web site: EuroVAT Refund Inc.: [www.eurovat.com](http://www.eurovat.com)

### Poster Papers

Late poster paper submissions are invited and prospective authors should submit a one page abstract of their poster(s) to the Conference organizers (Meetings Management) for consideration. Please send your poster for the attention of John Herriot (Email: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)) at Meetings Management. **Late poster abstracts should be submitted by Friday 2nd June 2006.**

### PUBLICATION

A CD ROM of abstracts of all presentations, oral and poster, will be distributed to delegates when they register at the conference.

Authors will be invited to consider submitting their papers to the *Journal of Materials Science*. Submissions will be peer reviewed and will be considered for publication as a special issue of the journal subsequent to the conference. Authors should contact the Polymer Fibres 2006 Conference Chairman **Professor Robert J. Young** ([robert.young@manchester.ac.uk](mailto:robert.young@manchester.ac.uk)) for further details.

### TABLE TOP EXHIBITION

Table Top Exhibition space is available at the meeting. Exhibitors can showcase their products or services by reserving a table top exhibit. The exhibit area will be located adjacent to the main conference area where all refreshment breaks will be taken to ensure maximum traffic of conference delegates. If you are registering for the conference, you can reserve a table for £795+VAT. If you do not wish to attend the conference sessions, you can reserve a table for £995+VAT (includes admission to all meals/receptions by one company representative).

**PLEASE NOTE: If you wish to have additional representatives on your table top exhibit there will be an additional charge for catering levied per head. Please contact the Conference Manager for this additional price.**

Please make your bookings and payment using the relevant section on the Delegates Registration Form on the back page of this brochure. All general enquiries regarding Table Top Exhibition facilities at Polymer Fibres 2006 should be directed to John Herriot at Meetings Management (Email: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)).

### DELEGATE PACK INSERT SERVICE

Company literature/brochures/conference brochures may be distributed to delegates as part of the documentation issued on arrival/registration. One insertion in the Polymer Fibres 2006 delegate pack is priced at £395+VAT. Please make your booking and payment using the relevant section on the Delegates Registration Form on the back page of this brochure. All general enquiries regarding Delegate Pack Insertion services at Polymer Fibres 2006 should be directed to John Herriot at Meetings Management (Email: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)).

**PLEASE NOTE:** Literature for distribution to Polymer Fibres 2006 delegates is subject to approval by the conference organizers.

### INSURANCE & CANCELLATION

The organizers cannot be held responsible for any personal accident or damage to their private property of participants at Polymer Fibres 2006. The organizers strongly urge participants to ensure they have adequate travel and personal insurance cover before they depart for the conference. The organizers cannot be held liable for any costs incurred should the conference be cancelled for any reason. Maximum notice of cancellation will be given by the organizers to all pre-registered delegates.

### PROGRAMME

The Polymer Fibres 2006 Scientific Advisory Committee and the Polymer Fibres 2006 Conference Organizers reserve the right to alter any part of the published conference programme if this is necessitated by any circumstances outside their control. All efforts will be made to keep any such changes to a minimum. The programme published in the brochure was correct at the time of going to press.

### CANNOT ATTEND?

If you and your colleagues are unable to attend the conference, the conference materials (abstract booklet, speaker handouts, late abstracts, attendee list, pack materials and literature) are available for purchase. While not intended as a substitute for actual attendance, these materials would at least provide a documentary record of the event and allow you to keep you or your organization's library up to date. The cost of providing this non-attendee package is £345+VAT (including postage and packing). To order this package from Meetings Management please use the relevant section in the Delegates Registration Form on the back page of this brochure.

### ANY QUESTIONS?

For further information and assistance, please contact: Caroline Sumner Polymer Fibres 2006 Conference Manager (details below).

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