

# **International Conference on Biodegradable Polymers**

## **Production, Characterisation and Application**

Monday 10 December 2007  
SCI, London, UK



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Organised by the SCI Biotechnology Group

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# PROGRAMME

**09.00 Registration and refreshments**

**09.30 Introduction and welcome**

Dr Ipsita Roy, University of Westminster, UK

Session Chair: Dr Ipsita Roy, University of Westminster, UK

**09.35 Plenary lecture**

**Biopolymers with a wide range of interesting properties from microorganisms: polyesters, polythioesters and polyamides**

Professor A. Steinbuchel, University of Muenster, Germany

**10.35 Biosynthesis and properties of olefinic polyhydroxyalkanoates**

Dr Manfred Zinn, EMPA, Switzerland

**11.10 Refreshment break**

**11.30 PHA granules: In vivo assembly and potential applications**

Prof Bernd Rehm, Massey University, New Zealand

**12.05 Polyhydroxyalkanoate biosynthesis by *Bacillus cereus* SPV**

Dr Ipsita Roy, University of Westminster, UK

**12.40 Lunch and poster session**

Session Chair: Professor Tajalli Keshavarz, University of Westminster, UK

**13.30 The development of phosphate glass-PCL based composites for endodontic surgery**

Professor J. Knowles, Eastman Dental Institute, UCL, UK

**14.05 Bioactive P(3HB)/inorganic phase composites for tissue engineering applications**

Dr A. Boccaccini, Imperial College London, UK

**14.40 Biodegradable polymer scaffolds for cartilage tissue engineering**

Professor P. Hatton, University of Sheffield, UK

**15.15 Refreshment break**

Session Chair: Dr A. Boccaccini, Imperial College, London, UK

**15.45 The use of scaffolding polymers to control the growth and differentiation of mesenchymal stem cells**

Dr Mark Clements, University of Westminster, UK

**16.20 Investigating cellular behaviour at the biomedical implant surface**

Dr V. Salih, Eastman Dental Institute, UCL, UK

**16.55 PLGA hollow fibre membranes as scaffolds for tissue engineering**

Professor J. Chaudhuri, University of Bath, UK

**17.30 Wine mixer and depart**

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## SYNOPSIS

This international conference is on biodegradable polymers, an important area for the development of green technologies. The unique feature of this conference is the emphasis on newly emerging natural biodegradable polymers such as polyhydroxyalkanoates which are produced using microbial fermentation. Professor Alexander Steinbuchel, Director of the Institut für Mikrobiologie at the University of Muester, Germany, a pioneer in the area of biopolymers, is the plenary speaker. Other speakers are eminent researchers covering a wide range of expertise involved in this interdisciplinary conference. The major areas to be covered are biotechnology, material science and biomedical applications including tissue engineering.

### **Who should attend?**

The programme will be of interest to academic group leaders, researchers, research organisations, industry, government laboratories and managers involved in the area of production, synthesis, characterisation and application of biodegradable polymers. This conference provides a broad overview of this newly emerging and exciting interdisciplinary area.

### **ORGANISING COMMITTEE:**

Dr Ipsita Roy, University of Westminster, Professor Tajalli Keshavarz, University of Westminster

## POSTERS

There will be a poster session where participants will be able to present their work. Abstracts (250 words) for the poster session need to be sent to [tamlynne.wilton@soci.org](mailto:tamlynne.wilton@soci.org) by 9 November 2007. The best ten presentations will be short listed.

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