



International Workshop on

BIOMACROMOLECULES 2008

Renewable, Degradable and Biomedical Polymers

Royal Institute of Technology (KTH)
Stockholm, June 1-4, 2008

Welcome to Stockholm

The Department of Fibre and Polymer Technology, School of Chemical Science and Engineering, Royal Institute of Technology organizes an International workshop on Biomacromolecules between Sunday June 1 and Wednesday June 4, 2008. The scientific program covers some of the current key issues in polymer science: development of polymers from renewable resources, degradable polymers and especially their degradation and characterization and finally biomedical polymers with the focus on tissue engineering.

Tentative conference program and Topics

- Polymers from renewable resources
 - Sustainability
- Degradable Polymers
 - Characterization and degradation
- Biomedical Polymers
 - Tissue Engineering

Call for papers Oral and poster presentations on the conference topics are invited.

Language The conference language is English.

Oral presentations Oral presentations will be 20 or 30 minutes long including 5 minutes for questions. Techniques for transparencies or PowerPoint presentations are available.

Posters The poster exhibition will take place in close proximity to the lecture rooms.

Abstract submission All contributions require the submission of a one page abstract (size A4). All abstracts will be printed and available to the participants at the time of the conference. Prepare your abstract according to the [abstract template](#) and submit it by e-mail to: bioconf@polymer.kth.se. The deadline for abstract submission is April 20th.

Get-together The conference will start with informal get-together and registration from 18 to 20 o'clock on Sunday evening June 1 at KTH campus, Osquldas väg 4. The meeting rooms and poster exhibition are also located at Osquldas väg 4.

Conference Reception at the Stockholm City Hall On Monday evening June 2 at 18.00 o'clock all the conference participants are invited to conference reception at the Stockholm City Hall. The Stockholm City Hall is also known for hosting the Nobel Prize festivities every December.

Poster session On Tuesday evening there will be poster session at Osquldas väg 4.

Registration fees inclusive VAT

For registrations before April 20th, 2008

Regular fee: 7500 SEK

Graduate students: 5500 SEK

For registrations after April 20th, 2008

Regular fee: 8500 SEK

Graduate students: 6500 SEK

Click here to access the registration form

<https://www.stocon.se/weraform/receive.csp?kgid=843&lang=2>

General information

Accommodation

There are many different hotels at different price levels available in Stockholm. Please go to the registration form for hotel booking.

Youth hostels and budget accommodation

af Chapman, www.stfchapman.com

Backpackers Inn, www.backpackersinn.se

City Backpackers, www.citybackpackers.se

Långholmens Vandrarhem, www.langholmen.com

Mälaren - Den röda båten www.theredboat.com

Rygerfjord hostel, www.rygerfjord.se

Solna Hotel och Vandrarhem, www.solna-vandrarhem.se

Stockholms official visitors guide www.stockholmtown.com

Arlanda Airport and Transport

Arlanda Airport is located approx. 40 km north of Stockholm. The Arlanda Express is the train service that links Stockholm City with the airport (20 minutes ride). Book your Arlanda Express ticket in advance at the same time you register to the conference. Your confirmation letter will serve as a ticket when presented to the train conductor.

Other ways to reach the city

Taxi: We recommend that you request a fixed price from the airport to the city, approx. SEK 500.

Bus: There is a direct bus connection from the airport to the City Terminal in central Stockholm. The journey takes about 40 minutes and costs SEK 99.

Insurance

Neither the conference organisers nor the conference secretariat accepts any liability for personal injuries sustained, or for loss or damage to property belonging to conference

participants, either during or as a result of the conference. It is strongly recommended that you purchase an insurance policy of your choice as you register for the conference and book your travel. The insurance should be purchased in your country of origin.

Currency

The currency in Sweden is the Swedish Krona, SEK. A currency calculation can be found online at www.x-rates.com/calculator.html

Cancellation

For information about the cancellation rules, see the online registration form.

Information about the conference

E-mail: bioconf@polymer.kth.se

Information about registration

MCI-Stockholm Office

Box 6911

SE-102 39 Stockholm, Sweden

Telephone: +46 8 5465 1500

Fax: +46 8 5465 1599

Email: confirmation-sweden@mci-group.com

Please state « Biomacro 2008 » in the subject field

Local Organizing Committee

Ann-Christine Albertsson

Minna Hakkarainen

Ulrica Edlund

Anna Finne Wistrand

Confirmed speakers

Prof. Luigi Ambrosio, Institute of Composite and Biomedical Materials-C.N.R and Interdisciplinary Research Centre on Biomaterials-University of Naples, Italy, "*Functional biomaterials: from tissue repair to tissue regeneration*"

Prof. Kristi Anseth, Department of Chemical and Biological Engineering, University of Colorado, USA, "*Design of Macromolecular Monomers for Cell Encapsulation and Tissue Regeneration*"

Prof. Walther Burchard, Institute of Macromolecular Chemistry, University of Freiburg, Germany, "*Association Phenomena with Biomacromolecules: Structure and Structure Formation and Influence of Interparticle Interactions on the Measured Quantities*"

Prof. Ruth E. Cameron, University of Cambridge, Department of Materials Science and Metallurgy, UK, "*Resorbable Polymer Ceramic Composites for Orthopaedic Applications*"

Prof. Yoshiharu Doi, Polymer Chemistry Laboratory, RIKEN Institute, Japan, "*Biosynthesis and enzymatic degradation of polyhydroxy alkanoates*"

Prof. Abraham Domb, Department of Medicinal Chemistry & Natural Products, The Hebrew University, Israel, *“Polysaccharides for drug conjugation and gene delivery “ and “Biodegradable polymers derived from fatty and amino acids”*

Prof. Robert Gilbert, Professor, University of Queensland, AUSTRALIA
“Starch as a biological nanoparticle: converting characterization data to structurally meaningful quantities”

Prof. Hyoe Hatakeyama, Department of Applied Physics and Chemistry, Fukui Institute of Technology, Japan, *“Recent Developments of Biopolymers from Plant Resources”*

Prof. Yoshihiro Ito, Nano Medical Engineering Laboratory, RIKEN Institute, Japan
“Combination of biomaterials with growth factors for tissue engineering”

Prof. Xiabin Jing, State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China, *“Cell-targeting nanoparticles of polymeric conjugates of anti-cancer drugs”*

Prof. David Kaplan, Bioengineering and Biotechnology Center, Tufts University, USA,
“Designing Protein Biomaterials for Tissue Specific Needs”

Prof. Helmut Keul, RWTH Aachen, Germany, *“Controlled Synthesis and Degradation of (Biomedical) Materials based on Glycerol derivatives”*

Prof. Young Ha Kim, Dept of Materials Science & Engineering, Gwangju Institute of Science & Technology (GIST), Korea, *“Mechano-active tissue engineering”*

Prof. Costas Kiparissides, Centre for Research and Technology Hellas, Chemical Process Engineering Research Institute, Greece, *“Bioproduction and renewable polymers”*

Prof. Harm-Anton Klok, École Polytechnique Fédéral de Lausanne, Laboratoire des Polymères, Switzerland *“Biofunctional surfaces generated via surface-initiated atom transfer radical polymerization”*

Prof. Shiro Kobayashi, R & D Center for Bio-based Materials, Kyoto Institute of Technology, Japan, *“Green Polymer Chemistry: Synthesis and Properties of Functional Polymers from Plant-Based Resources”*

Prof. Jindrich Kopecek, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, USA *“Swell gels: from hydrogel implants to self-assembled nanomaterials”*

Prof. Randy Lewis, Department of Molecular Biology, University of Wyoming, USA, *“Spider silk ancient biomaterial for the future”*

Assist. Prof. Heather D. Maynard, Department of Chemistry and Biochemistry, University of California, USA, *“Biohybrid Materials by a Combination of Controlled Radical Polymerization and Chemoselective Conjugation”*

Prof. Martin Möller, RWTH Aachen, Germany, *“Biomimetic and Bioactive Polymers and Interfaces”*

Prof. Maria Nowakowska, Faculty of Chemistry, Jagiellonian University, Poland,
“Photoactive Polysaccharides”

Assoc. Prof. Alyssa Panitch, Purdue University, Weldon School of Biomedical Engineering, USA, *"The influence of protein-polysaccharide interactions on scaffold stiffness and morphology and on cell behavior"*

Prof. Stanislaw Penczek Department of Polymer Chemistry, Polish Academy of Sciences, Centre of Molecular and Macromolecular Studies, Poland, *"Peculiarities in Copolymerization of Cyclic Esters"*

Prof. Virgil Percec, Roy & Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania, USA, *"Bioinspired Synthesis of Complex Systems with Biological Functions"*

Prof. Frantisek Rypacek, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Rep.; Czech Republic, *"Nanopattern Biomimetic Polymer Surfaces through a Molecular Self-Assembly of Amphiphilic Block Copolymers"*

Prof. Mariastella Scandola, Department of Chemistry 'G. Ciamician', University of Bologna, Italy, *"Polymeric Nanofibrous Scaffolds for Tissue Engineering"*

Prof. Stanislaw Slomkowski, Center of Molecular and Macromolecular Studies, Department of Engineering of Polymeric Materials, Poland, *"Polyester-polyether block copolymers and their self-assembly into functionalized nanocarriers of bioactive compounds"*

Prof. Alexander Steinbüchel, Institut für Mikrobiologie und Biotechnologie, Westfälische Wilhelms-Universität, Germany, *"Cyanophycin: production and putative applications of a mostly unknown biopolymer"*

Prof. Anders Södergård, University of Turku, Turku Biomaterials Centre, Finland, *"Polylactide by polycondensation - processes, properties and possibilities"*

Prof. Indra K. Varma, Indian Institute of Technology, Center for Polymer Science & Engineering, India, *"Enzymatic polymerization of lactones"*

Prof. Kjell M. Vårum, Department of Biotechnology, Norwegian University of Science and Technology, Norway, *"Biomedical Applications of Chitosans"*