

FP7 Marie Curie Initial Training Network
Shaping and Transformation in the Engineering of Polysaccharides (STEP)

First End-Year Meeting, Friedrich-Schiller University of Jena, Germany
Sep 29-Oct 1, 2009

Tuesday, Sep 29, 2009

08:30 – 09:00 Welcome Address

Chair/Co-Chair: I. Tatarova / F. Wendler

09:00 – 10:30 **Prof. Elena Sashina**, *St. Petersburg University, Russia*
Application of quantum chemistry calculations for intermolecular study of natural polymers with imidazolium based ionic liquids

10:30 – 11:00 Break / Discussion

11:00 – 11:20 **Dr. Katrin Schwikal**, *TITK, Germany*
Paper additives based on Xylan

11:20 – 12:30 **Prof. Thomas Heinze**, *FSU Jena, Germany*
Organic chemistry of cellulose

12:30 – 13:30 Lunch

Chair/Co-Chair: T. Genco / E. Wesolowska or D. Wawro

13:30 – 15:00 **Prof. Stephen Harding**, *University of Nottingham, UK*
Hydrodynamic characterisation

15:00 – 15:30 Break / Discussion

15:30 – 16:30 **Dr. Cornelia Rhomberg**, *University of Innsbruck, Austria*
How to handle IP at Universities – patenting or publishing?
Questions arising in the course of innovation processes

Chair/Co-Chair: O. Kuzmina / T. Heinze, K. Petzold-Welcke or A. Koschella

16:30 – 17:30 Poster Presentations

17:30 – 18:00 Break / Discussion

18:00 – 18:45 Internal meeting for STEP-ITN ESRs and ERs



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Wednesday, Sep 30, 2009

Chair/Co-Chair: N. Koganti / K. Stana-Kleinschek or T. Kreze

- 09:00 – 10:30 **Prof. Björn Lindman**, *University of Lund, Sweden*
Interfacial behaviour of amphiphilic molecules: Adsorption of surfactants and polymers on solid surfaces
- 10:30 – 11:00 **Break / Discussion**
- 11:00 – 11:20 **Luciano Pighinelli**, *IBWCh, Poland*
Properties of a composite with Chitosan-hydroxiapatite-collagen materials
- 11:20 – 11:40 **Dr. Ivana Tatarova**, *University of Innsbruck, Austria*
Non-alkaline swelling solutions for regenerated cellulose
- 11:40 – 12:30 **Dr. Richard Blackburn**, *University of Leeds, UK*
Effect of sodium hydroxide treatment on crystallinity of cellulose II and cellulose I fibres: Analysis using different techniques
- 12:30 – 13:30 **Lunch**

Chair/Co-Chair: L. Pighinelli / T. Foster

- 13:30 – 13:50 **Loan Thi To Vo**, *University of Innsbruck, Austria*
Scientific concept for thermal processing of cellulosic materials
- 13:50 – 14:10 **Antonio Sullo**, *University of Nottingham, UK*
Rheological and physico-mechanical characterization of Starch/Cellulose blends and solution
- 14:10 – 15:00 **Prof. Volker Ribitsch**, *University of Graz, Austria*
Modification of cellulose surfaces using chemical and physical processes
- 15:00 – 15:30 **Break / Discussion**

Chair/Co-Chair: A. Sullo / R. Farr

- 15:30 – 15:50 **Taha Genco**, *FSU Jena, Germany*
Novel aminocellulose derivatives
- 15:50 – 16:10 **Hai Vu Manh**, *University of Innsbruck, Austria*
Swelling and dissolution mechanism of lyocell fiber in alkaline aqueous solution containing ferric tartaric acid complex



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- 16:10 – 16:30 **Olga Kuzmina**, *IBWCh, Poland*
Research of dissolution ability of ionic liquids for polysaccharides such as cellulose. Part 1: Researching of properties of cellulose. Methods and results.
- 16:30 – 16:50 **Nagamani Koganti**, *University of Nottingham, UK*
Solubility and regeneration of polysaccharides and their blends in different solvent/non-solvent systems

Thursday, Oct 1, 2009

Chair/Co-Chair: L.T.T. Vo / K.C. Schuster

- 09:00 – 10:30 **Prof. Patrick Navard**, *CEMEF, France*
Rheology and flow-induced structures in polysaccharide-based products
- 10:30 – 11:00 Break / Discussion
- 11:00 – 12:30 **Dr. Peter Bartsch**, *Lenzing AG, Austria*
Sustainability in the Lenzing Group
- 12:30 – 13:30 Lunch
- 13:30 – 17:30 **TITK Visit** (*followed by dinner*)

Friday, Oct 2, 2009

- 09:00 – 12:00 Internal meeting of STEP-ITN (Executive and Supervisory Board)

