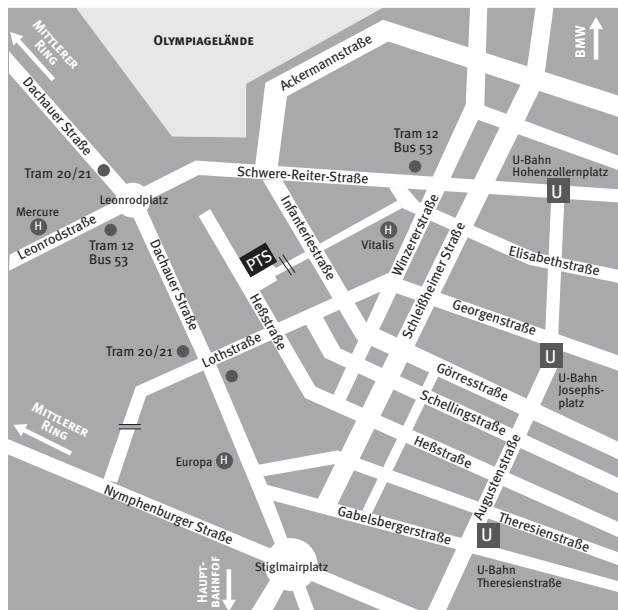
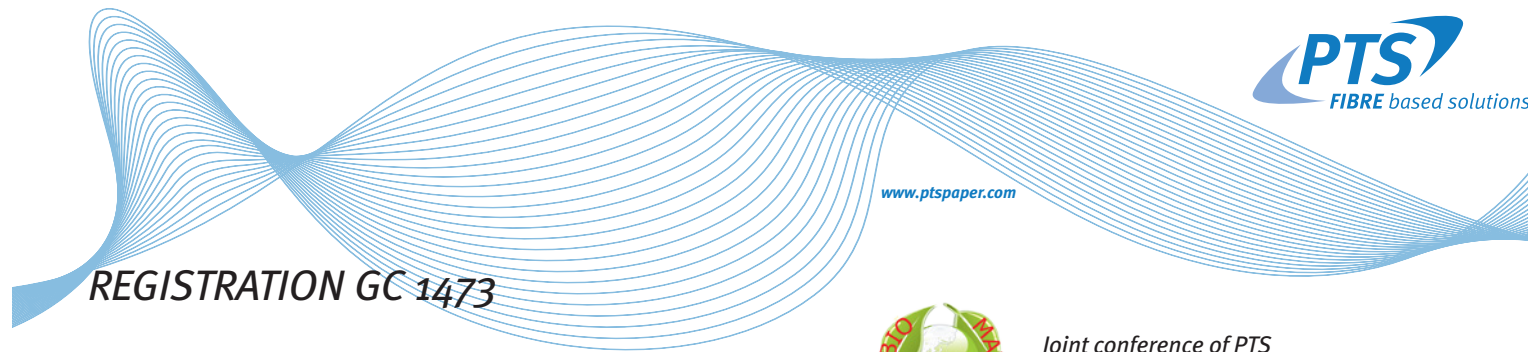


- 14.10 Microfibrillated cellulose in the development of water-based barrier products  
**C. Guézennec, Grenoble INP/LGP2**
- 14.40 Development of paper barrier properties by multi-layer coating with biobased composite formulas  
**T. Balan, GH. Asachi Technical University**
- 15.10 Coffee break
- 15.40 MFC-biopolymers composites as sustainable gas/water barrier films  
**M. Giacinti Baschetti, Università di Bologna**
- 16.10 Application of non-wood pulp substitutes for innovative packaging  
**M. Kleebauer, PTS**
- 16.40 Closing remarks  
**M. Kleebauer, R. Sangl, PTS, K. Johansson, Innventia**
- 16.50 End

## DIRECTIONS



PTS is located in the centre of Munich, not far from the central train station. Please use either tramline 20, 21 or 22 from Munich central station and get off at Lothstrasse. From there it takes 5 minutes to walk to PTS.



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Joint conference of PTS  
and COST Action FP1003



**SYMPOSIUM**  
**INNOVATIVE PACKAGING**  
 20 - 21 May 2014  
 Munich/Germany

# SYMPOSIUM INNOVATIVE PACKAGING JOINT CONFERENCE OF PTS AND COST ACTION FP1003

## DIRECTORSHIP



Dr. Markus Kleebauer



Dr.-Ing. Reinhard Sangl

“Innovative Packaging” is the name of an exquisite PTS Symposium. Installed in 2005, it has regularly attracted the attention of attendees both from industry and university.

The cooperation of PTS with COST Action FP1003 “Impact of renewable materials in packaging for sustainability – development of renewable fibre and bio-based materials for new packaging applications” provides the unique opportunity for the audience to learn about most recent research results from European research institutes as well as practical applications evaluated from an industrial point of view.

The symposium focusses on paper-based packaging materials and will cover recent developments in manufacturing, design and functionalization of packages.

The potentials of fiber based packages are illustrated in all steps of product development: starting with the selection of appropriate raw materials, the application of innovative processes to design new and functional materials and ending with their conversion to powerful packages e.g. via electronic printing.

We are looking forward to welcome an interested audience to discuss new approaches in packaging design!

## TUESDAY, 20<sup>th</sup> MAY 2014

- 09.00 Welcome and introduction  
**M. Kleebauer, R. Sangl, PTS, K. Johansson, Innventia**
- 09.30 What packages need to be like  
**NN, NN**
- 10.00 Packaging trends for carton board and cartons  
**R. Rex, Pro Carton**
- 10.30 Coffee break
- 11.00 Sustainable packaging products from Ryegrass  
**A. Charlton, Bangor University**
- 11.30 Tomato packaging – Packing tomatoes in a box made from tomato side streams, closed loop approach  
**S. Tiekstra, KBK**
- 12.00 Cellulose based packaging recyclability: criteria for a sustainable paper loop  
**G. Elegir, INNOVHUB SSSCCP**
- 12.30 Lunch break with poster session
- 14.00 Atomic layer deposited thin barrier films for packaging  
**M. Pitkänen, VTT**
- 14.30 Novel developments for MAP packaging based on sustainable materials  
**J.M. Alonso, ITENE**
- 15.00 A chemical grafting process for improved barrier properties  
**M. Schmid, Fraunhofer Institut IVV**
- 15.30 Coffee break
- 16.00 Elaboration of a new antibacterial bio-nano-material for food-packaging by using microfibrillated cellulose as controlled release system  
**J. Bras, Grenoble INP/LGP2**

- 16.30 Dispersion-coated paperboard with oxygen-scavenging capacity sandwiched between extruded polymers for heat sealability and low migration  
**L. Järnström, Karlstad University**
- 17.00 Antimicrobial packaging material incorporating active nano-reinforcements  
**H. Zhang, ITENE**
- 20.00 Dinner

## WEDNESDAY, 21<sup>st</sup> MAY 2014

- 09.00 Welcome and introduction  
**M. Kleebauer, R. Sangl, PTS**
- 09.10 Rules and regulation for food packaging  
**J. Ringman-Beck, CEPI Research Committee**
- 09.40 Interactive Printed Electronics - printing the consumer experience?  
**C. Jones, Novalia Cambridge Print**
- 10.10 Printed electronics on paper for future secured packaging  
**G. Eymine-Petot-Tourtoulet, Grenoble INP/LGP2**
- 10.40 Coffee break
- 11.10 Development of water repellent papers by chromatography, first results from pilot trials  
**D. Guerin, Andritz, Grenoble INP/LGP2**
- 11.40 Formable paper-based packaging material  
**A. Vishtal, VTT**
- 12.10 Lunch break
- 13.40 Applied packaging innovation  
**W. Schmahl, Stora Enso Düsseldorf**