



A symposium on the collaboration to bridge challenges in New Fiber Materials Development

November 10, 2015, Tejima Seichi Conference Room, Tokyo Tech Front
Tokyo Institute of Technology, O-okayama Campus

Program Outline

New material development for textile applications must be taken into account when it comes to society's grand challenges. Fiber-reinforced composites, medical products, or daily products from bio-based materials are three categories out of many, which profit from the development of new materials.

The Department of Organic Polymeric Materials (DOPM) at Tokyo Institute of Technology and RWTH Aachen's Institute of Textile Technology (ITA) will work together in a close collaboration, facing the challenges for fibre material development for future products.

1:00 pm	Meet and Greet (Snacks)	
1:30 pm	Opening Ceremony	Prof. Toshio Maruyama, Executive Vice President for Education and International Affairs, Tokyo Tech
1:45 pm	Opening Remarks	Mrs. Svenja Schulze, Minister of Science of North Rhine Westphalia
1:50 pm	Signing of Cooperation Agreement between DOPM and ITA, Group Picture	
2:00 pm	A Look at Biopolymers	Dr. Gunnar Seide (ITA)
2:25 pm	Innovative Application of Bicomponent Spinning	Prof. Takeshi Kikutani (DOPM)
2:50 pm	Coffee Break	
3:00 pm	Microstructure and Properties of Melt-Spun Fibers of Stereocomplex and Stereoblock-Type Polylactides	Prof. Hideki Yamane (KIT)
3:20 pm	Medical Textiles and Their Special Needs	Prof. Stefan Jockenhövel (ITA, AME)
3:40 pm	On-line Measurement of Fiber Structure Development by Using Synchrotron X-ray Beam	Prof. Yutaka Ohkoshi (Shinshu U.)
4:00 pm	Fibre Based Force Sensors for Fibre Reinforced Plastics	M.Sc. Benjamin Glauss (ITA)
4:20 pm	Coffee Break	
4:30 pm	Challenges in Carbon Fibre Production	Dr. Wilhelm Steinmann (ITA)
4:50 pm	Determination of Intrinsic Strength of Carbon Fibers	Prof. Masatoshi Shioya (DOPM)
5:10 pm	Tailored Textiles - Automated Braiding of preforms for composites	Dipl-Ing. Michael Lengersdorf (ITA)
5:30 pm	Fiber Structure Development of PHBH	Dr. Wataru Takarada (DOPM)
6:00 pm	German and Japanese Evening	