

Program

DAY 1: January 22 Friday (The 100th Anniversary Hall)

- 9:00 - 9:15 **Opening Address**
Hiroshi Ito (Professor, Director of GreenMAP and NGAP Research Center, Yamagata University)
- 9:15 - 9:25 **Welcome Speech**
Hiroshi Iizuka (Professor, Dean of Faculty of Engineering, Yamagata University)
- Chairperson: Sathish K. Sukumaran
- 9:30 - 10:15 **Stability and Sensitivity in Rheological Processes: Fiber, Film, and Coating**
Hyun Wook Jung (Korea University, Korea)
- 10:15-11:00 **Dynamic Covalent Polymers with Self-healing and Mechanochromic Properties**
Hideyuki Otsuka (Tokyo Institute of Technology, Japan)
- 11:00-11:45 **High Formable Shape Memory Alloys**
Junpei Sakurai (Nagoya University, Japan)
- 11:45-13:00 Lunch
- Chairperson: **Junichi Takimoto**
- 13:00-14:00 **Preparation and Electrochemical Activity of Graphene Composites**
Toyoko Imae (National Taiwan University of Science & Technology, Taiwan)
- 14:00-14:45 **Nano-alloys**
Sadayuki Kobayashi (Toray Industries, Inc., Japan)
- 14:45-15:00 Coffee Break

Chairperson: Ajit Khosla

15:00-15:45 **PlayersGlobal Cyber Diagnostics and Therapeutics with Nanosensor Systems for Point-of-Human Health Care**
Vijay K. Varadan (The Pennsylvania State University, USA)

15:45-16:30 **Synthesis of Well-defined Aramide Molecules and The Copolymerization with Flexible Aliphatic Polymers**
Yuji Shibasaki (Iwate University, Japan)

17:30-20:00 **Banquet** (Tokyo Dai-ichi Hotel Yonezawa)

DAY 2: January 23 Saturday (The 100th Anniversary Hall)

Chairperson: Masataka Sugimoto

9:00 –10:00 **Biosensing and Oral Drug Delivery Using Micro and Nano Structures**
Anja Boisen (Technical University of Denmark, Denmark)

10:00-10:45 **Intrinsic Strength of Carbon Fibers**
Masatoshi Shioya (Tokyo Institute of Technology, Japan)

10:45-11:00 Coffee Break

Chairperson: Kazuki Fukushima

11:00-11:45 **Printed Nanomaterials for Sensor Applications**
Jin Woo Cho (Louisiana State University, USA)

11:45-12:00 **Group Photo**

12:00-13:00 Lunch

Chairperson: Bungo Ochiai

13:00-14:00 **Slide-ring materials: Novel concept for tough polymers**
Kohzo Ito (University of Tokyo/JST, Japan)

- 14:00-14:45 **Structure Analyses of Rubber/Filler System under Deformation by Using Time Resolved USAXS Method**
Shotaro Nishitsuji (Yamagata University, Japan)
- 14:45-15:00 Coffee Break
- Chairperson: Go Matsuba
- 15:00-15:45 **Impact and Importance of Heat Transfer during Thermoplastic Polymer Processing -Application of Radiation Heating-**
Takushi Saito (Tokyo Institute of Technology, Japan)
- 15:45-16:30 **Applications of Resonance Shear Measurements in Studying Friction of Polymer Hydrogels**
Huaiyin Ren (Ningbo Fwmaterials Co., LTD, China)
- 16:30-16:35 **Closing Remarks**
Hiroshi Ito (Professor, Director of GreenMAP and NGAP Research Center, Yamagata University)