

## Programme on 10<sup>th</sup> June

Time	Day One Sessions
10:10	<b>Registration and Refreshments</b>
10:30	<b>Welcome Address</b> Prof. Keiichiro Sano, Kanto Gakuin University, Japan  Dr. Mohsen Miraftab, University of Bolton, UK
10:45	<b>Keynote Lecture</b> Chair: Dr. Renate Luetzkendorf, TITK, Germany <u>Paper K-1: 'Utilizing of Potential Fibrous Resources for Sustainable Society' –</u> Prof. Teruo Kimura, Kyoto Institute of Technology, Japan 11:35 <u>Paper K-2: 'Fiber Recycling in the United States'–</u> Prof. Youjiang Wang, Georgia Institute of Technology, USA
12:25	<b>Lunch</b>
13:50	<b>Session A - Human Consciousness and Ethic for Fiber Recycling</b> Chair: Prof. Teruo Kimura, Kyoto Institute of Technology, Japan <u>Paper I-1 Invited: 'Manufacturing Challenges Using Discarded Textiles: The Secondary Textile Supply Chain</u> <i>as a Resource Textiles' –</i> Connie Ulasewicz, Gail baugh, San Francisco State University, USA 14:20 <u>Paper O-1: 'Results of a Survey on Clothing Repair Behavior' –</u> Yuka Tamura, Kyoto Seika University, Japan 14:40 <u>Paper O-2: 'Collection Methods of Textile Waste at Home in Japan' –</u> Maki Tamada, Shohei Gakuin University, Japan
15:00	<b>Refreshments</b>
15:15	<b>Session B - Recycling Method of Old Clothes</b> Chair: Dr. Yoichi Kodera, National Institute of Advanced Industrial Science & Technology, Japan <u>Paper I-2 Invited: 'Making use of carpet waste in stabilising clay soils' –</u> Mohsen Miraftab, ATM Faiz, University of Bolton, UK M. Mirzababaei, Central Queensland University, M. Mohamed, University of Bradford 15:45 <u>Paper O-3: 'Proposal of "Colour Recycle System" for Waste Apparel' –</u> Motoko Uchimar, Teruo Kimura, Tetsuya Sato, Kyoto Institute of Technology, Japan 16:05 <u>Paper O-4: 'Recyclability of Waste Apparel as Reinforcement of Composite Materials' –</u> Takayuki Ishise, Teruo Kimura, Kyoto Institute of Technology, Katsunori Osako, L&R Corporation, Satoshi Matsuyama, Nishiki Gousei Co., Ltd., Koji Nakanishi, Osaka Senshu Recovered Fibers Cooperative
16:25	<b>Refreshments</b>
16:40	<b>Session C - Environmental Impact and LCA in Fiber Recycling</b> Chair: Mr. Junichi Kasai, National Institute for Materials Science, Japan <u>Paper I-3 Invited: 'Approach for Environmental Impact Reduction by Teijin's Polyester Technologies' –</u> Ricky Miyatake, Teijin Frontier Co., Ltd., Japan, Yuuichiro Ikeda, Teijin Fibers Ltd., Japan 17:10 <u>Paper O-5: 'LCA Case Study on Fiber Recycling in Japan' –</u> Hiroshi Yagita, Nippon Institute of Technology, Japan 17:30 <u>Paper O-6: 'Used Uniform Recycling and Life Cycle Thinking (Action of CHIKUMA) –</u> Yoshiharu Maeda, Chikuma & Co., LTD., Japan
17:50	<b>Closing Address</b> Prof. Youjiang Wang, Georgia Institute of Technology, USA
19:00	<b>Banquet</b>

## Programme on 11<sup>th</sup> June

Time	Day Two Sessions
10:10	<b>Registration and Refreshments</b>
10:30	<b>Keynote Lecture</b> Chair: Prof. Youjiang Wang, Georgia Institute of Technology, USA Paper K-3: <i>'Composites industries and recycling in Japan'</i> – Prof. Kanemasa Nomaguchi, Kanazawa Institute of Technology, Japan, Hitachi Chemical Co., Ltd. Japan
11:20	Paper K-4: <i>'Mainstream Lightweight Construction - Possibilities of Recycling and Reuse'</i> – Dr. Renate Luetzkendorf, TITK, Germany
12:10	<b>Lunch</b>
13:30	<b>Session D - Fiber Recycling Techniques Such as Feedstock and Mechanical</b> Chair: Dr. Gaiil baugh, San Francisco State University, USA Paper I-4 <b>Invited:</b> <i>'Toray's Action for the Global Environment -To build a sustainable Low-Carbon Society -'</i> – Kouji Mori, Toray Industries Inc., Japan
14:00	Paper O-7: <i>'Used clothes recycling application for automotive industry'</i> – Yuji Watanabe, Nihon Tokusyu Toryo Co., LTD., Japan
14:20	Paper O-8: <i>'Novel recyclable membrane material using kenaf fiber for architectural membrane structure'</i> – Hiroshi Toyoda, Technical Research Center, Taiyo Kogyo Corporation, Japan
14:40	Paper O-9: <i>'Theoretical and experimental comparison of waste-to-energy methods for organic and plastic wastes'</i> - Yoichi Kodera, National Institute of Advanced Industrial Science & Technology, Japan
15:00	<b>Refreshments</b>
15:15	<b>Session E - Recycling for FRP (Fiber Reinforced Plastics)</b> Chair: Dr. Dr. Mohsen Mirafteb, University of Bolton, UK Paper I-5 <b>Invited:</b> <i>'Characterization of CFRP Using Recovered Carbon Fiber from Waste CFRP'</i> – Mitsutoshi, Nakagawa, Katsuji Shibata, Hitachi Chemical Co., Ltd., Japan, Hiroshi Nishikawa, Takayasu Co., Ltd.
15:45	Paper O-10: <i>'CFRP recycling using depolymerization of Amine cured epoxy resin by subcritical fluids process'</i> – Katsuji Shibata, Graduate School of Sci. & Tech., Kumamoto Univ., Japan, Hitachi Chemical Co., Ltd., Japan, Mitsutoshi Nakagawa, Hitachi Chemical Co., Ltd., Japan, Armando T. Quitain, Mitsuru Sasaki, Graduate School of Sci. & Tech., Kumamoto Univ., Japan
16:05	Paper O-11: <i>'Development of functional conductive paper using waste carbon fiber extracted from CFRP'</i> – Haruhiro Ino, Kentaro Shiono, Teruo Kimura, Katsuji Shibata, Kyoto Institute of Technology, Japan
16:25	Paper O-12: <i>'Complete recovery of fibers from fiber reinforced plastics and their recycling utilizing thermally activated oxide semiconductors'</i> – Jin Mizuguchi, Hiroo Takahashi, Yuichiro Tsukada, Shinshu University, Japan
16:45	Paper O-13: <i>'A novel repair method of carbon-fiber reinforced plastics with reinforcing fibers intact'</i> – Yuichiro Tsukada, Yusuke Suzuki, Hiroo Takahashi, Jin Mizuguchi, Shinshu University, Japan
17:05	<b>Refreshments</b>
17:15	<b>Poster Session</b> <b>Short Presentations</b> , Chair: Prof. Keiichiro Sano, Kanto Gakuin University, Japan Paper P-1: <i>'Mothers' Consciousness and Current Situation regarding Reuse and Recycling of Young Children's Clothes'</i> - Mothers of Kindergarteners versus Mothers of Nursery-Schoolers' - Hiroko Yokura, Shiga University, Japan
17:18	Paper P-2: <i>'Approach of Recycling of Textile Waste in Yokohama City'</i> : City of Yokohama, Japan
17:21	Paper P-3: <i>'Exploring of Consumers for Apparel Purchasing and Discarding Choices in Yokohama Bay Area as Compared with San Francisco'</i> - Haruka Miyagi, Keiichiro Sano, Toshie Yamazaki, Kanto Gakuin University, Japan, Teruo Kimura, Kyoto Institute of Technology, Japan, Gail Baugh, San Francisco State University, USA
17:24	Paper P-4: <i>'Ability of Chemically Modified Wool Fibers to Deodorize Amines and Ethanethiol'</i> – Natsuko Kohara, Showa Women's University, Japan
17:27	Paper P-5: <i>'Wet-Laid Technology Application for Textile Residues Revalorization in Composites Industry'</i> – Renate Lutzendorf, TITK, Germany
17:30	Paper P-6: <i>'Antibacterial evaluation of high performance paper using bagasse and scallop particle'</i> ,- Shoto Otsuka, Ryota Oda, Teruo Kimura, Kyoto Institute of Technology, Japan, Hiroshi Inagaki, Kobe Women's University
17:33	Paper P-7: <i>'Characterization of the fibers recovered from FRPs by thermal activation of semiconductors'</i> – Yusuke Suzuki, Yuichiro Tsukada, Hiroo Takahashi, Jin Mizuguchi, Shinshu University, Japan
17:36	Paper P-8: <i>'Compression molding of chemical/thermal resistant composite materials using wastes of glass fiber reinforced PTFE and carbon fiber'</i> - Haruhiro Ino, Ryo Yorifuji, Teruo Kimura, Kyoto Institute of Technology, Japan, Hiroshi Toyoda, Taiyo Kogyo Corporation, Japan, Katsuji Shibata, Hitachi Chemical Co., Ltd., Japan
17:39	Paper P-9: <i>'Production of Button using Fiber Waste of Polyester and Carbon'</i> - Asuka Suminoe, Yuu Usui, Keiichiro Sano, Kanto Gakuin University, Japan, Renate Luetzkendorf, TITK, Germany
17:42	Paper P-10: <i>'Life Cycle Assessment of Waste FRP Processing System By Thermal Decomposition'</i> – Tomokazu Mori, Yamanashi Institute of Environmental Sciences, Japan, Keiichiro Sano, Kanto Gakuin University, Japan, Kiyotaka Tahara, National Institute of Advanced Industrial Science and Technology, Japan
17:45	<b>Discussion Time</b>
18:15	<b>Closing Address</b> Prof. Teruo Kimura, Kyoto Institute of Technology, Japan

**12<sup>th</sup> June 14:00-15:00 Excursion to Nakano & Co., Ltd.** <http://www.nakano-inter.co.jp/en/index.html>