

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

Time	Day One Sessions
10:10	<b>Registration and Refreshments</b>
10:30	<p><b>Welcome Address</b>            Prof. Keiichiro Sano, Kanto Gakuin University, Japan</p> <p>Dr. Mohsen Miraftab, University of Bolton, UK</p>
10:45	<p><b>Keynote Lecture</b>            Chair: Dr. Renate Luetzkendorf, TITK, Germany</p> <p><u>Paper K-1: 'Utilizing of Potential Fibrous Resources for Sustainable Society'</u> –            Prof. Teruo Kimura, Kyoto Institute of Technology, Japan</p>
11:35	<p><u>Paper K-2: 'Fiber Recycling in the United States'</u> –            Prof. Youjiang Wang, Georgia Institute of Technology, USA</p>
12:25	<b>Lunch</b>
13:50	<p><b>Session A - Human Consciousness and Ethic for Fiber Recycling</b>            Chair: Prof. Teruo Kimura, Kyoto Institute of Technology, Japan</p> <p><u>Paper I-1 Invited: 'Manufacturing Challenges Using Discarded Textiles: The Secondary Textile Supply Chain as a Resource Textiles'</u> –            Connie Ulasewicz, Gailbaugh, San Francisco State University, USA</p>
14:20	<p><u>Paper O-1: 'Results of a Survey on Clothing Repair Behavior'</u> –            Yuka Tamura, Kyoto Seika University, Japan</p>
14:40	<p><u>Paper O-2: 'Collection Methods of Textile Waste at Home in Japan'</u> –            Maki Tamada, Shokei Gakuin University, Japan</p>
15:00	<b>Refreshments</b>
15:15	<p><b>Session B - Recycling Method of Old Clothes</b>            Chair: Dr. Yoichi Kodera, National Institute of Advanced Industrial Science &amp; Technology, Japan</p> <p><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</p>
15:45	<p><u>Paper O-3: 'Proposal of "Colour Recycle System" for Waste Apparel'</u> –            Motoko Uchimaru, Teruo Kimura, Tetsuya Sato, Kyoto Institute of Technology, Japan</p>
16:05	<p><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&amp;R Corporation, Satoshi Matsuyama, Nishiki Gousei Co., Ltd.,            Koji Nakanishi, Osaka Senshu Recovered Fibers Cooperative</p>
16:25	<b>Refreshments</b>
16:40	<p><b>Session C - Environmental Impact and LCA in Fiber Recycling</b>            Chair: Mr. Junichi Kasai, National Institute for Materials Science, Japan</p> <p><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</p>
17:10	<p><u>Paper O-5: 'LCA Case Study on Fiber Recycling in Japan'</u> –            Hiroshi Yagita, Nippon Institute of Technology, Japan</p>
17:30	<p><u>Paper O-6: 'Used Uniform Recycling and Life Cycle Thinking (Action of CHIKUMA)'</u> –            Yoshiharu Maeda, Chikuma &amp; Co., LTD., Japan</p>
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 <u>Paper K-3: 'Composites industries and recycling in Japan'</u> – Prof. Kanemasa Nomaguchi, Kanazawa Institute of Technology, Japan, Hitachi Chemical Co., Ltd. Japan
11:20	<u>Paper K-4: 'Mainstream Lightweight Construction - Possibilities of Recycling and Reuse'</u> – 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. Gail Baugh, San Francisco State University, USA <u>Paper I-4 Invited: 'Toray's Action for the Global Environment -To build a sustainable Low-Carbon Society'</u> – Kouji Mori, Toray Industries Inc., Japan
14:00	<u>Paper O-7: 'Used clothes recycling application for automotive industry'</u> – Yuji Watanabe, Nihon Tokusyu Toryo Co., LTD., Japan
14:20	<u>Paper O-8: 'Novel recyclable membrane material using kenaf fiber for architectural membrane structure'</u> – Hiroshi Toyoda, Technical Research Center, Taiyo Kogyo Corporation, Japan
14:40	<u>Paper O-9: 'Theoretical and experimental comparison of waste-to-energy methods for organic and plastic wastes'</u> - 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 Miraftab, University of Bolton, UK <u>Paper I-5 Invited: 'Characterization of CFRP Using Recovered Carbon Fiber from Waste CFRP'</u> – Mitsutoshi Nakagawa, Katsuji Shibata, Hitachi Chemical Co., Ltd., Japan, Hiroshi Nishikawa, Takayasu Co., Ltd.
15:45	<u>Paper O-10: 'CFRP recycling using depolymerization of Amine cured epoxy resin by subcritical fluids process'</u> – 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	<u>Paper O-11: 'Development of functional conductive paper using waste carbon fiber extracted from CFRP'</u> – Haruhiro Ino, Kentaro Shiono, Teruo Kimura, Katsuji Shibata, Kyoto Institute of Technology, Japan
16:25	<u>Paper O-12: 'Complete recovery of fibers from fiber reinforced plastics and their recycling utilizing thermally activated oxide semiconductors'</u> - Jin Mizuguchi, Hiroo Takahashi, Yuichiro Tsukada, Shinshu University, Japan
16:45	<u>Paper O-13: 'A novel repair method of carbon-fiber reinforced plastics with reinforcing fibers intact'</u> – 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 <u>Paper P-1: 'Mothers' Consciousness and Current Situation regarding Reuse and Recycling of Young Children's Clothes'</u> - Mothers of Kindergarteners versus Mothers of Nursery-Schoolers - Hiroko Yokura, Shiga University, Japan
17:18	<u>Paper P-2: 'Approach of Recycling of Textile Waste in Yokohama City'</u> : City of Yokohama, Japan
17:21	<u>Paper P-3: 'Exploring of Consumers for Apparel Purchasing and Discarding Choices in Yokohama Bay Area as Compared with San Francisco'</u> - 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	<u>Paper P-4: 'Ability of Chemically Modified Wool Fibers to Deodorize Amines and Ethanethiol'</u> – Natsuko Kohara, Showa Women's University, Japan
17:27	<u>Paper P-5: 'Wet-Laid Technology Application for Textile Residues Revalorization in Composites Industry'</u> – Renate Luetzkendorf, TITK, Germany
17:30	<u>Paper P-6: 'Antibacterial evaluation of high performance paper using bagasse and scallop particle'</u> - Shoto Otsuka, Ryota Oda, Teruo Kimura, Kyoto Institute of Technology, Japan, Hiroshi Inagaki, Kobe Women's University
17:33	<u>Paper P-7: 'Characterization of the fibers recovered from FRPs by thermal activation of semiconductors'</u> – Yusuke Suzuki, Yuichiro Tsukada, Hiroo Takahashi, Jin Mizuguchi, Shinshu University, Japan
17:36	<u>Paper P-8: 'Compression molding of chemical/thermal resistant composite materials using wastes of glass fiber reinforced PTFE and carbon fiber'</u> - 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	<u>Paper P-9: 'Production of Button using Fiber Waste of Polyester and Carbon'</u> - Asuka Suminoe, Yuu Usui, Keiichiro Sano, Kanto Gakuin University, Japan, Renate Luetzkendorf, TITK, Germany
17:42	<u>Paper P-10: 'Life Cycle Assessment of Waste FRP Processing System By Thermal Decomposition'</u> – 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>