

Asia and Africa Science Platform Program,
Establishment of Collaboration Research
for 'Neo-Fiber Technology' in Asia and Africa+
Seminar Series 10
And
Annual Report Meeting for 'Neo-Fiber Technology' Project 2016-2017

Program

16th March

9:30-9:40 Welcome *Hajime MORI, Vice-President of Kyoto Institute of Technology*

9:40-11:40 Chair: *Tetsuya SATO, Kyoto Institute of Technology*

Wool Re-fashioned

Vien CHEUNG, Univeristy of Leeds, UK

Advanced Compression Textiles for Physiotherapy and Performance Enhancement

Rong LIU, The Hong Kong Polytechnic University, China

Perception of Color of Clothing

Saori KITAGUCHI, Kyoto Institute of Technology, Japan

Turkish Textile Industry, Towel Production and Preferences by Users

Yuksel IKIZ, Pamukkale University, Turkey

11:40-13:00 Lunch time

13:00-14:40 Chair: *Hiroshi URAKAWA, Kyoto Institute of Technology*

Oxygen Permeability and Mechanical Properties of Carboxylated Nanocellulose Films with Various Counter-ions

Michiko SHIMIZU, Kyoto Institute of Technology, Japan

The Importance of Age Dependence Differences in The Crystal Structures of Cellulose for Physical Properties of Bamboo.

Yoko OKAHISA, Kyoto Institute of Technology, Japan

Enzymatic Functionalization of Natural and Synthetic Fabrics

Fusako KAWAI, Kyoto Institute of Technology, Japan

Synthesis and Fiber Formation of The Copolymers Consisting of Poly(L-lactide) and Polyether

Kazunari MASUTANI, Kyoto Institute of Technology, Japan

Degradation Analysis of Polyester Fiber by Spin-Trapping Method with Supercritical Carbon Dioxide

Wataru SAKAI, Kyoto Institute of Technology, Japan

14:40-14:50 Group photo

14:50-15:50 Chair: *Vien CHEUNG, Univeristy of Leeds*

Poly (lactic acid)/Polyamid 11 Binary Bio-based Composites for Meltblown Nonwovens: Morphology, Crystallization, Thermal Behaviors

Bin YU, Zhejiang Sci-Tech University, China

Challenges in The Production of A Vinyl Monomer Itaconic Acid by Metabolically Engineered Bacteria

Yuji ASO, Kyoto Institute of Technology, Japan

15:50-16:10 Refreshment time
16:10-17:40 Poster presentation
18:00-19:30 Party at KIT guesthouse, Kosen Kaikan

17th March

10:30-12:00 Chair: *Yuksel IKIZ, Pamukkale University*

Functional Electrospun Nanofibrous Materials
Bin DING, Donghua University, China

Micro and Nanofibrous Structures Viewed by A Mechanical Engineer: Experimental Characterization and Constitutive Modeling.
Andri ANDRIYANA, University of Malaya, Malaysia

Preparation and Applications of Functional Fibers Using Quaternary Ammonium Salt and Ag Nanoparticles
Jaewoong LEE, Yeungnam University, Korea

12:00-13:30 Lunch time

13:30-15:00 Chair: *Hideki YAMANE, Kyoto Institute of Technology*

Bioplastic Fiber from Poly(lactic acid) and Poly(butylene succinate) Reinforced with Graphene
Prasit PATTANANUWAT, Chulalongkorn University, Thailand

Enhancing Textile Performance Using Plasma
Bahira GABR, Helwan University, Egypt

Evaluation of Whiteness in Case of Highly Tinted White Materials
Michal VIK, Technical University of Liberec, Czech

15:00-15:20 Refreshment time

15:20-16:40 Chair: *Saori KITAGUCHI, Kyoto Institute of Technology*

Drug Release from Polylactide Nanofibers Spun by Laser-Heated Electrospinning
Midori TAKASAKI, Kyoto Institute of Technology, Japan

Preparation and Evaluation of Heat-Sealed Composite Films of Polypropylene (PP) Film with PP Mesh Sheet
Kazushi YAMADA, Kyoto Institute of Technology, Japan

Structure and Properties of The Segmented PLLA/PDLA Blend Melt-spun Fibers
Masaki YAMAMOTO, Kyoto Institute of Technology, Japan

Novel Dyeing Technique and Functional Treatment as Applied to Polyester Fibres
Hidekazu YASUNAGA, Kyoto Institute of Technology, Japan

16:40-16:50 Closing remarks *Hiroshi URAKAWA, Director of The Center for Fiber and Textile Science, Kyoto Institute of Technology, Japan*

Poster Presentation (16:10-17:40, 16th March)

- P-1 Development of Controlled Release Fertilizers Utilizing The Hydrodegradability of Poly(lactic acid)
Hiroaki MORI, Jin Ho SEOK, Masaki YAMAMOTO, Kazunari MASUTANI, Yoshiharu KIMURA, Hideki YAMANE (Kyoto Institute of Technology, Japan)
- P-2 Effect of The Molecular Weight on The Thermal Property of PLLAs and PLLA/PDLA Blends
Esraa El-KHODARY, Ling Ling ZHOU, Masaki YAMAMOTO, Kazunari MASUTANI, Yoshiharu KIMURA, Hideki YAMANE (Kyoto Institute of Technology, Japan)
- P-3 Melt Spinning and Fiber Properties of Multi Stereo-block Poly(lactide)s with Various Block Lengths
Yohanes Windu WIDHIANTO, Masaki YAMAMOTO, Kazunari MASUTANI, Yoshiharu KIMURA, Hideki YAMANE (Kyoto Institute of Technology, Japan)
- P-4 Synthesis and Characterization of Segmented Polyurethanes Consisting of Oligolactides and Polyols
Jin Ho SEOK, Masaki YAMAMOTO, Kazunari MASUTANI, Yoshiharu KIMURA, Hideki YAMANE (Kyoto Institute of Technology, Japan)
- P-5 Formation of Core-shell Microfibers by Means of The Melt Electrospinning
Huaizhou XU, Bendiet BAUER, Masaki YAMAMOTO, Hideki YAMANE (Kyoto Institute of Technology, Japan)
- P-6 Water Modulated Brittle-elastic Alterations for DNA-derived Films
Hidetaka MAKINO, Takashi AOKI (Kyoto Institute of Technology, Japan)
- P-7 Addition of Spin-trapping Reagent into FiberMaterials Using Supercritical Carbon Dioxide and Analysis of Degradation Reaction
Erdenesaikhan BATMUNKH, Rina TAMAI, Kenji KINASHI, Wataru SAKAI, Naoto TSUTSUMI, and Satoko OKUBAYASHI (Kyoto Institute of Technology, Japan)
- P-8 Crystal Structure of *Thermobifida Alba* Cutinase Complexed with Biopolymers.
Kengo KITADOKORO¹, Mizuki KAKARA¹, Shingo MATSUI¹, Ryouhei OSOKOSHI¹, Kensuke NAKATA¹ and Shigeki KAMITANI² (1)Kyoto Institute of Technology, Japan,2)Osaka Prefecture University, Japan)
- P-9 Colorchangeable Sensorial Fibres, Fastness and Dynamic Properties
Viková, M., Vik, M. (Technical University of Liberec, Czech)
- P-10 Comfort Features of Multi-layered Luxicool Plain Woven Fabrics
Gülşah ISARIKAYA¹, Yüksel IKIZ² (1)Beykent University, Turkey,2)Pamukkale University, Turkey)
- P-11 Evaluation of The Relation between Wrinkle Recovery Angle and Tensile Strength of Linen Woven Fabrics Treated with 1,2,3,4-Butanetetracarboxylic Acid (BTCA)
Buket ARIK, Arzu YAVAS, Ozan AVINC (Pamukkale University, Turkey)

- P-12 Flame Retardancy Properties of Cotton Fabric Treated with Acrylate-based Polymer Paste Containing Huntite-hydromagnesite Mixture
Nurhan Onar CAMLIBEL¹, Ozan AVINC¹, Buket ARIK¹, Arzu YAVAS¹, Ismail YAKIN² (1) Pamukkale University, Turkey 2)Setas Company, Turkey)
- P-13 Color Properties of Bamboo Fabric Printed with Reactive Printing Paste Containing UV Absorber
Arzu YAVAS, Ozan AVINC, Ece KALAYCI, Buket ARIK (Pamukkale University, Turkey)
- P-14 Water-oil Repellent Treatment of Viscose Fabric with Microwave Irradiation
Arzu YAVAS, Ece KALAYCI, Ozan AVINC, Buket ARIK, Arif CALISKAN, Berk Ediz BÖREKCI, Ali HACIALI (Pamukkale University, Turkey)
- P-15 Novel Colouration Technique for Silk Fabrics by Utilising Oxidation of Polyphenols
Kaito OKADA, Takanori MATSUBARA (College of Industrial Technology, Japan)
- P-16 Hair Colouring by Utilising Chemical Oxidation of Tea Extracts
Katsuki WATANABE, Chihiro SAKURAI, Takanori MATSUBARA (College of Industrial Technology, Japan)
- P-17 The Relationships between The Degree of Hair Damage and Suppression Effect on Hair Photodamage by Treating with Bio-Reductants
Aya SHOMURA, Hidekazu YASUNAGA (Kyoto Institute of Technology, Japan)
- P-18 Improvement in Dyeability of UHMWPE Fiber Using Supercritical CO₂
Jaehyuk MA, Satoko OKUBAYASHI (Kyoto Institute of Technology, Japan)