Asia-Africa Science Platform Program
Establishment of Collaboration Research for Neo-Fiber Technology' in Asia and Africa
Seminar Series 7
and
Annual Report Meeting for 'Neo-Fiber Technology' Project 2010-2011

Date: 16-19 March, 2011
Venue: University Laboratories for Innovation Research Projects, Kyoto Institute of Technology
Oral Session:4F MULTI PURPOSE ROOM
Poster Session:1F FREE SPACE

2011/3/16(Wed.) 18:00-20:00 Reception at Plaza KIT

2011/3/17(Thus.) 9:30-20:30

9:30-10:00 **Opening Address:** *Yoshimichi EJIMA, President of Kyoto Institute of Technology*
Yoshiharu KIMURA, Director of Center for Fiber and Textile Science

10:00-12:00 **Chair:** *Tetsuya SATO, Kyoto Institute of Technology*

1) *Seung-Soon IM, Hanyang University, Korea*
Current and Future Development Trend of Korean Bioplastics industry

2) *Ahmed EL-Salmawy, Helwan University, Egypt*
Improving Thermo-physiological Comfort of Knitted Nylon

3) *TA Phuong Hoa , Hanoi University of Technology, Viet Nam*
Preparation and Application of Microfibrillated Cellulose for Enhancing the Fatigue Life of Fiber Reinforced Polymer Composite

12:00-13:00 **Lunch Time**

13:00-15:00 **Poster Session**

15:10-16:30 **Chair:** *Hiroshi URAKAWA, Kyoto Institute of Technology*

4) *Anelise EHRHARDT, Kyoto Institute of Technology, Japan*
Preparation of Cellulose-Aerogel by Supercritical CO_2 Drying

5) *Long CHEN, Kyoto Institute of Technology, Japan*
Modification of Polyurethane Nanofibers by Superfine Soluble Egg Shell Membrane Powders

6) *Yoshiharu KIMURA, Kyoto Institute of Technology, Japan*
Recent Progress in Polylactide Synthesis

7) *Hideki YAMANE, Kyoto Institute of Technology, Japan*
Wet-spinning of Cellulose from Ionic Liquid Solutions

16:30-16:50 **Coffee Break**

16:50-17:55 **Chair:** *Hideki YAMANE, Kyoto Institute of Technology*

8) *Shinichi SAKURAI, Kyoto Institute of Technology, Japan*
On the Dark Streak Observed in the SAXS Pattern for Electrospun Micro-Fibers of Styrene-Ethylenebutylene-Styrene Triblock Copolymer

9) *Tetsuya SATO, Kyoto Institute of Technology, Japan*
Colour Matters - Colour Evaluation of Textile and Clothing -

18:00-18:20 **Closing Address:** *Shigeru KUNUGI, Kyoto Institute of Technology*

18:30-20:30 **Official Dinner** at ORTUS (University cafeteria)

2011/3/18(Fri.) 10:00-21:00

10:00-10:05 **Opening Address:** *Yoshiharu KIMURA, Director of Center for Fiber and Textile Science*

10:05-11:45 **Chair:** *Masahiko MINODA, Kyoto Institute of Technology*

1) *Hajime MORI*
Expression of Bombyx mori cypovirus polyhedrin in the posterior silk gland

2) *Takashi AOKI*
Bioplastics derived from DNA

3) *Masatsugu MOCHIZUKI*
Crystallization Behavior of LLA-rich Poly (Lactic Acid), PLA

4) *Tatsuo OIDA*
A Dual Action Finishing Reagent on Allylamine Oligomer

11:45-12:45 **Lunch Time**

12:45-14:00 **Chair:** *Takashi AOKI, Kyoto Institute of Technology*

5) *Hidekazu YASUNAGA*
Colouring by Using Biobased Materials

6) *Masahiko MINODA*
Surface modification of a fibrous PET material by controlled graft polymerization and its hybrid formation with hydroxyapatite

7) *Katsufumi TANAKA*
Effects of Nano-fibers on Liquid Crystalline Behavior and Reflection Spectra for Aqueous Solutions of Hydroxypropyl Cellulose

14:00-14:20 **Coffee Break**

14:20-15:35 **Chair:** *Hidekazu YASUNAGA, Kyoto Institute of Technology*

8) *Hiroshi URAKAWA*
Color Produced by Natural Indigo - Unique beauty of natural indigo color compared with synthetic indigo -

9) *Isao WATAOKA*
Dependence of Cations on Gelation of Carrageenan Aqueous Solutions

10) *Kazuko SAKAMOTO*
The Apparel Product Development which Approaches from the Consumer Characteristics in East Asia

15:35-15:45 **Closing Address**: *Yoshiharu KIMURA, Director of Center for Fiber and Textile Science*

18:45 **Departure of the Shuttle Bus for the Apical Inn (at the west main gate of KIT)**

19:00-21:00 **Party** at Apical Inn

2011/3/19(Sat.) 10:30-17:30 meeting place: at the west main gate of KIT

10:30-17:30 Traditional Arts and Crafts Museum tour, Tondaya etc.

Poster Session

P-1) *Tadashi Hayami, Kyoto Municipal Institute of Industrial Technology and Culture, Kyoto, Japan*
Developments of Electro-Photographic Direct Printing System

P-2) *Yutaka Kawahara, Department of Biological & Chemical Engineering, Gunma University, Gunma, Japan*
Structural Modification of PVA Nanofibers by Water Vapor Annealing

P-3) *S. Sasaki, Graduate School of Science and Technology, Kyoto Institute of Technology, Kyoto, Japan*
Hierarchical Structure Characterization of Softmaterial Thin Films: Development of Synchrotron GISWAXS Experimental Method

P-4) *Jae-Chang Lee, Center for Fiber and Textile Science, Kyoto Institute of Technology, Kyoto, Japan*
Physical Properties of the Stereoblock Poly(lactic acid)s (sb-PLAs) Melt Spun Fibers

P-5) *Saori Kitaguchi, Center for Fiber and Textile Science, Kyoto Institute of Technology, Kyoto, Japan*
Visual Impression of Fabrics

P-6) *Shigeyuki Nakano, Hyogo Prefectural Institute of Technology Technical Support Center for Textiles Industries, Hyogo, Japan*
Ethanol enrichment technology using polyethylene terephthalate fiber sheet prepared by electrospinning

P-7) *Michiko OKADA, Center for Fiber and Textile Science, Kyoto Institute of Technology, Kyoto, Japan*
Relationship between the Twisting of the Optim^{TM} Fine Fiber by the High Temperature Dyeing and the Influence of it by the Optim^{TM} Process

P-8) *TRINH MINH ĐAT, Centre for Organic Materials and Constructional Chemicals, Vietnam Institute for Building Materials, Vietnam*
Structures and Properties of Polymer Composite Materials Based on Unsaturated Polyester Resin and Silicafume

P-9) *Nguyen Dung Tien, Department of Biobased Materials Science, Kyoto Institute of Technology, Kyoto, Japan*
Behavior of Crystalline Lamellae with temperature in poly(D,L-lactic acid)/poly(ethylene glycol) blends as revealed by small-angle X-ray scattering

P-10) *Sung Yeon Hwang, Department of Fiber & Polymer Engineering, College of Engineering Hanyang University, Seoul, Korea*
A study of enzymatic hydrolysis mechanism on Poly(butylene succinate)(PBS)-titanium silicate zeolite (TS-1) hybrid materials

P-11) *Jun Yong Park, Department of Fiber & Polymer Engineering, College of Engineering, Hanyang University, Seoul, Korea*
A study on the physical properties and crystallization behavior of Poly (lactic acid) (PLA)/Poly(ethylene terephthalate glycol) (PETG) blends

P-12) *Matsubara, T., Dept. Biobased Materials Sci., Kyoto Institute of Technology, Japan*
Effect of Cu^{2+} Ion Addition and pH on Production of Catechinone Dye

P-13) *Takubo, M., Dept. Biobased Materials Sci., Kyoto Institute of Technology, Kyoto, Japan*
Ultraviolet Light Irradiation Dyeing by Using Catechin and Its Dyeability

P-14) *Morimoto, S., Dept. Biobased Materials Sci., Kyoto Institute of Technology, Japan*
Dyeability and Colour Fastness of Hair Dyeing by Using Catechin and Iron Compounds

P-15) *Shin Sasaki, Dept. of Macromolecular Engineering, Kyoto Institute of Technology, Kyoto, Japan*
Structure and Properties of Die-drawn Poly(L-lactic acid) Fibers

P-16) *Shin-ichi Yagi, Dept. of Bio-based Materials Science, Kyoto Institute of Technology, Kyoto, Japan*
Effect of the Addition of Organically Treated Montmorillonites on the Properties of Melt-spun Bacterial Polyester