The IFES East Asia Special Symposium on

"Advanced Functional Materials" by Internationally

Recognized Scholars

Program

Day 1 Jan. 24th, 2024(Wed.) Registration

Day 2 Jan. 25th, 2024(Thu.) Symposium @ Auditorium

9:00~9:15 Opening Ceremony

Welcome speech

Distinguished Professor Ick Soo Kim, Director of the Institute for Fiber Engineering, Shinshu University

Professor Hideaki Morikawa, Dean of Faculty of Textile Science and Technology, Shinshu University

9:15~9:45 Invited Speech

Title: Design and applications of functional DNA oligomer

Speaker: Professor Seung Pil Pack, Department of Biotechnology and Bioinformatics, Korea University & Director of Biological Clock-based Anti-Aging Convergence RLRC, NRF

9:45~10:15 Invited Speech

Title: Purinergic receptors and chronic pain

Speaker: Professor Guang-yin Xu, Executive Dean of Suzhou Medical College, Soochow University

10:15~10:30 **Break**

10:30~11:00 Invited Speech

Title: Mechanical properties of carbon nanotube (CNT) and CNT-

based nanomechanical sensors

Speaker: Professor Toshiaki Natsuki, Shinshu University

11:00~11:30 Invited Speech

Title: Antimicrobial polymeric materials for biomedical applications

Speaker: Professor Xuehong Ren, Wuhan Textile University

11:30~12:00 Invited Speech

Title: Spontaneous transition of intrinsically disordered protein (IDP)-based coacervates for vesicle-like compartments

Speaker: Professor Yoo Seong Choi, Chungnam National University

12:00~13:00 Lunch

13:00~13:30 Invited Speech

Title: Nanospectroscopic investigation and electrical modification of individual free-standing semiconductor nanocrystals using insitu nanoprobe-cathodoluminescence technique

Speaker: Associate Professor Kentaro Watanabe, Shinshu University

13:30~14:00 Invited Speech

Title: Research progress on functional fiber and biomaterials

Speaker: Professor Keqin Zhang, Dean of College of Textile and Clothing Engineering, Soochow University

14:00~14:30 Invited Speech

Title: A new strategy for developing the orphan drug of patients with Sjögren syndrome

Speaker: Professor Sang Ho Jun, Korea University Anam Hospital

14:30~15:00 Invited Speech

Title: Introduction of our laser-assisted polymer melt-electrospinning system

Speaker: Professor Koji Nakane, University of Fukui

18:00~21:00 *Banquet* (Ueda Onsen Shouen)

Day 3 Jan. 26th, 2024(Fri.) Symposium @ Auditorium

9:00~9:30 Invited Speech

Title: Preparation of needled nonwoven enhanced silica aerogel for thermal insulation

Speaker: Professor Wei Zhang, Dean of School of Textile and Clothing, Nantong University

9:30~10:00 Invited Speech

Title: Application of nanofiber nonwoven fabric to solid-liquid

separation

Speaker: Associate Professor Yasuhito Mukai, Nagoya University

10:00~10:30 Invited Speech

Title: Investigation of parameters affecting the drape coefficient of silk fabric for Hanbok on 3D virtual image realization

Speaker: Professor Jungsoon Lee, Chungnam National University

10:30~10:45 **Break**

10:45~11:15 Invited Speech

Title: Exploring the potential of microchannel wet-spinning process

Speaker: Professor Tsutomu Ono, Okayama University

11:15~11:45 Invited Speech

Title: History and development of dental zirconia

Speaker: Professor Jinsoo Ahn, Seoul National University School of Dentistry

11:45~13:00 Lunch

13:00~13:30 Invited Speech

Title: Functional nanofibrous materials: controllable fabrication and applications

Speaker: Professor Bin Ding, Dean of Institute of Science and Technology, Donghua University

13:30~14:00 Invited Speech

Title: Adhesive proteinic nanofibrous mats for effective hemostasis and tissue regeneration

Speaker: Professor Hyung Joon Cha, Dean of Engineering, Pohang University of Science and Technology (POSTECH)

14:00~14:30 Free Discussion

14:30~15:00 Closing Ceremony

Day 4 Jan. 27th, 2024(Sat.) Campus Tour

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Hyung Joon CHA
SeAH Chair Professor

Dean of Engineering
Head, Dept. of Chemical Engineering
Director, Biomaterials Research Center
Pohang University of Science and Technology
(POSTECH), Korea
Specialties: Marine Biomaterials, Tissue



Bin DING

Professor
Dean of the Research Institute
Donghua University, China

Engineering, Drug Delivery

Specialties: Molding theory and structural design of functional fiber materials and their applications in protective clothing, environmental protection, flexible energy, biomedicine, food safety and so on



Tsutomu ONO

Professor

Applied Chemistry and Biotechnology Program, School of Engineering Okayama University, Japan

Specialties: Microfluidics, Microcapsule, Nanofiber, Soft matter, Diffusion separation engineering



Seung Pil PACK

Professor

Dept. of Biotechnology and Bioinformatics Director, Biological Clock-based Anti-aging Convergence RLRC

Korea University, Korea

Specialties: Nano-medicine & Biologics, Anti-aging & Healthcare, Biomineral & Biomaterials, Liquid Biocondensation



Guangyin XU

Professor

Executive Dean of Suzhou Medical College
Team Leader of the Institute of Neuroscience
Director of the Translational Pain Medicine Laboratory
Soochow University, China

Specialties: Pain Translational Medicine, Pain mechanism and analgesic principle, Gastrointestinal nerve function and diseases



Koji NAKANE

Professor

Faculty of EngineeringDivision of Engineering Frontier Fiber Technology and Science

Fukui University, Japan

Specialties: Polymer materials, Structural materials and functional materials, Composite materials and interfaces



Yoo Seong Choi

Professor

Dept. of Chemical Engineering & Applied Chemistry Chungnam National University(CNU), Korea Specialties: Intrinsically Disordered Proteins (IDPs), IDP-based biomaterials, Marine tyrosinases



Xuehong Ren

Professor

School of Textile Science and Engineering Wuhan Textile University, China

Specialties: Preparation of N-halamines/metal oxides hybrid nanoparticles and application in antibacterial textiles



Yasuhito MUKAI

Associate Professor

Dept. of Materials science and Engineering School of Engineering

Nagoya University, Japan Specialties: Solid-liquid sens

Specialties: Solid-liquid separation engineering, Membrane separation engineering, Water treatment engineering, Colloid engineering



Sang Ho JUN

Professor

DDS, MS, Ph.D
Dept. of Oral & Maxillofacial Surgery
Korea University Anam Hospital, Korea
Specialties: Applications of Mussel Protein Bio-



Ke-Qin ZHANG

adhesives in Bone Regeneration

Professor

National Engineering Laboratory for Modern Silk
Dean of College of Textile and Clothing Engineering
Dept. of Polymer Chemistry and Physics
Soochow University, China

Specialties: Structurally colored fibers: from photonic to quasi-ordered structures



Toshiaki NATSUKI

Professor

Institute for Fiber Engineering Faculty of Textile Science & Technology Shinshu University, Japan

Specialties: Composite materials, physical properties, material mechanics



Jungsoon LEE

Professor

Former Dean of College of Human Ecology
Dept. of Clothing & Textiles, College of Human Ecology
Chungnam National University, Korea
Specialties: Textile Materials



Wei ZHANG

Professor

Dean of School of Textile and Clothing Nantong University, China

Specialties: advanced fibers and nonwoven materials, dedicated to the fields of biomedical fiber materials, construction fibers and geotechnical materials



Kentaro WATANABE

Associate Professor

Dept. of Mechanical Engineering and Robotics Faculty of Textile Science and Technology Shinshu University, Japan

Specialties: nanomaterial science, nanostructure physics, crystal engineering, applied physical properties, thin film, surface and interface properties



Jinsoo AHN

Professor

Dept. of Dental Biomaterials Science School of Dentistry

Seoul National University, Korea

Specialties: Dental Engineering, Esthetic and Physical Properties of Dental Biomaterials





