

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 Park, 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 Guangyin 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 in-situ 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 Engineering, Drug Delivery



Bin DING
Professor
 Dean of the Research Institute
 Donghua University, China
 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 Engineering Division 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 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-adhesives in Bone Regeneration



Ke-Qin ZHANG
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