

International Symposium on Electrospinning Nanofibers 2021 - ISEN2021

FUTURE PERSPECTIVES in ELECTROSPINNING NANOFIBERS

This symposium will focus on “challenges and innovations in electrospinning and electrowriting of polymeric nanofibers and microfibers.” Electrospinning is a globally recognized method for producing threads from polymer solutions or polymer melts. It enables the creation of fiber with diameters in the hundreds of nanometers, and non-woven mats from nanofibers. These are broadly used for biomedical and environmental cleanup applications. Recently, in addition to the non-designed fabricates, geometrically designed structures are being manufactured using melt electrowriting. We believe that the symposium will be a great opportunity for all audiences to have an inspired and fruitful discussion on new approaches and fresh findings with these innovative textiles.

11 MARCH 2021

Join us on Zoom!

17:00 -19:20 JST / 09:00 -11:20 CET

SPEAKERS



Prof. Paul Dalton
University of Würzburg

“High-resolution 3D printing
of biomedical textiles using
melt electrowriting”

REGISTRATION & MORE INFO

Please access our website from
the QR code or URL below

DEADLINE

MARCH 11, 12:00 JST

[https://www.kit.ac.jp/2021/02/
symposium20210311/](https://www.kit.ac.jp/2021/02/symposium20210311/)



Asst. Prof. Huaizhong Xu
Kyoto Institute of Technology

“Melt electrowriting:
current work and future plan”



Asst. Prof. Yuya Ishii
Kyoto Institute of Technology

“Electromechanically active as-
electrospun polymer fiber mats”

ORGANIZER



**Assoc. Prof.
Takashi Aoki**
Kyoto Institute of
Technology

International Symposium on Electrospinning Nanofibers 2021 Program

TIME TABLE

JST	CET	
17:00	9:00	Opening Address & Overview Prof. Shinichi Sakurai - Kyoto Institute of Technology Chair Assoc. Prof. Takashi Aoki - Kyoto Institute of Technology
17:05	9:05	LECTURE 1 Prof. Paul Dalton - University of Würzburg "High-resolution 3D printing of biomedical textiles using melt electrowriting" This lecture will describe the development of a distinct class of electrohydrodynamic 3D printing, termed melt electrowriting (MEW), for biomedical applications. MEW has been developed with biomaterials in mind and builds on many decades of melt processing for medical devices and textiles from the regulatory perspective. MEW has several perspectives that make it a fascinating high-resolution 3D printing technology for fibers, including the ability to alter the diameter on demand and the exceptional ability to monitor important information during manufacture. The benefit for the biomaterials and biomedical engineering community is a robust, reproducible and low-cost manufacturing technology that will be widely used over the next decade. Check his tweet @meltelelectrospin or https://twitter.com/meltelelectrospin
17:50	9:50	Q&A Session
18:00	10:00	LECTURE 2 Asst. Prof. Huaizhong Xu – Kyoto Institute of Technology "Melt electrowriting: current work and future plan" The work related to the additive manufacturing technology of melt electrowriting that XU is currently dealing with will be introduced. He will also point out the issues that melt electrowriting are facing.
18:30	10:30	Q&A Session
18:40	10:40	LECTURE 3 Asst. Prof. Yuya Ishii – Kyoto Institute of Technology "Electromechanically active as-electrospun polymer fiber mats" Significant direct/converse electromechanical responses from as-electrospun fiber mats composed of non-piezoelectric polymers, which do not show electromechanical properties in their film form, are demonstrated.
19:10	11:10	Q&A Session
19:15	11:15	Concluding Remarks: Prof. Pezzotti Giuseppe / Vice President of Kyoto Institute of Technology

JST: Japan Standard Time

CET: Central European Time