

1st UTokyo-NCEPU Joint Symposium

On behalf of the committee member, I am pleased to inform you that the first UTokyo-NCEPU Joint Symposium is held on March 3rd, 2021 via online. I sincerely welcome all the participants who are interested in state-of-the-art technologies for nuclear engineering.

This symposium is supported by the Department of Nuclear Engineering and Management, The University of Tokyo and the School of Nuclear Science and Engineering, North China Electric Power University and is co-supported by Resilience Engineering Research Center, The University of Tokyo.

Symposium Chair: Prof. Akira Yamaguchi, UTokyo

- **Venue:** Online symposium via Zoom
- **Language:** The official language is English.
- **Important Dates:**
 - Feb. 25th, 2021 Deadline for participant registration
 - Feb. 26th, 2021 Receive Zoom URL
 - Mar. 3rd, 2021 Full-day sessions of the symposium
- **Registration fees:** Free
- **Organizers**
 - UTokyo: Prof Akira Yamaguchi, Prof Mikio Sakai and Dr Guangtao Duan
 - NCEPU: Prof Daogang Lu and Dr Yixian Zhou

■ **Registration contact**

For registration of this symposium, please send your information (full name, affiliation and email address) to reg_symposium@dem.t.u-tokyo.ac.jp. Zoom URL will be provided to only registered persons. If you have any questions, please feel free to contact the above registration email.

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Date: March 3, 2021

Venue: Virtual Conference

Program (Tokyo time)

9:00	Opening remarks Prof Naoto Kasahara (Department Chair, NEM, UTokyo) Mr Duan Chunming (Director, International Cooperation Department, NCEPU)
Morning Session (Session Chair: Dr Guangtao Duan)	
9:20	Prof Hiroyuki Takahashi: Introduction to the Department of Nuclear Engineering and Management, The University of Tokyo
10:05	Dr Han Wang: Experimental investigation of the critical heat flux on downward-facing cylindrical and spherical slices under natural circulation condition
10:50	Prof Kenichi L. Ishikawa: First-principles computation of laser-matter interaction
11:35	Dr Yang Liu: Development of wide bandgap radiation detection and application
12:20	Lunch time
Afternoon Session (Session Chair: Dr Han Wang)	
13:30	Prof Hiroyuki Matsuzaki: Geochemistry of Anthropocene -Environmental records of anthropogenic radionuclides
14:15	Prof Xubo Ma: Development and verification of a fast reactor multigroup cross section generation code MGGCV2.0
15:00	Prof Kazuyuki Demachi: Behavior monitoring for nuclear security and occupational safety using deep neural network.
15:45	Mr Yijun Huang: Shaking table experiments on reduced-scale CAP1400 spent fuel storage rack considering the effect of fluid-structure interaction Mr Jingpin Fu: Experimental research on the primary and secondary side coupling natural convection heat transfer characteristics of the passive residual heat removal system in AP1000
16:30	Closing remarks Prof Akira Yamaguchi (UTokyo) Prof Daogang Lu (NCEPU)