



NSTDA – Osaka University Webinar 23 December 2021

ORGANIZED BY

National Science and Technology Development Agency (NSTDA), Thailand Osaka University, Japan

EVENT PURPOSE

- 1. To introduce research interest in Biotechnology, Welding Technology, and Information Science and Technology between NSTDA and Osaka University
- 2. To find mutual interest to establish research collaboration

PROGRAM

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10:30 - 10:35	Welcome Remarks By Prof. Prasit Palittapongarnpim, NSTDA Executive Vice President
10:35 - 10:40	Opening Remark By Prof. Genta Kawahara, Osaka University Executive Vice President
10:40 - 10:55	Introduction to NSTDA By Dr. Lily Eurwilaichitr, Vice President, NSTDA
10:55 – 11:10	Introduction to Osaka University By Prof. Genta Kawahara, Osaka University Executive Vice President
11:10 – 11:25	Introduction on eAsia Joint Research Program (e-Asia JRP) By Ms. Emi Kaneko, Director, Japan Science and Technology Agency (JST)
11:25 – 12:00	Break
Parallel Session	
12:00 – 14:00	 Parallel Session Biotechnology: Microbial System Design and Application Joining and Welding Technology Information Science and Technology: Digital City
14:00 - 14.20	Discussion for Collaboration
14:20	End





Parallel Session Program:

Session 1: Biotechnology on Microbial System Design and Application				
12:00 – 12:20	Development of yeast expression system for heterologous protein production: molecular genetics and secretion mechanisms By Dr. Niran Roongsawang, Principal Researcher, BIOTEC, NSTDA			
12:20 – 12:40	Molecular breeding of oleaginous yeast Rhodotorula toruloides for lipid production By Prof. Dr. Kazuhito Fujiyama, International Center for Biotechnology, Osaka University			
12:40 – 13:00	Metagenomic Exploration of uncultured microbial bioresources for biotechnological application By Dr. Verawat Champreda, Director, Biorefinery Technology and Bioproducts Research Group, BIOTEC, NSTDA			
13:00 – 13:20	Development of a microbiota modification technique using antisense peptide nucleic acids By Dr. OKANO Kenji, International Center for Biotechnology, Osaka University			
13.20 – 13.40	Bioprocess engineering and metabolic flux redistribution toward microbial production of value-added chemicals By Dr. Kanokarn Kocharin, Researcher, Biorefinery Technology and Bioproducts Research Group, BIOTEC, NSTDA			
13:40 – 14:00	Comparative 13C-metabolic flux analysis indicate elevation of ATP regeneration, carbon dioxide, and heat production in industrial Saccharomyces cerevisiae strains By Prof. Dr. Fumio Matsuda, Graduate School of Information Science and Technology, Osaka University			
14:20 – 14:40	AMR in Southeast Asia By Dr. Yukihiro Akeda, Department of Bacteriology I, National Institute of Infectious Diseases, Tokyo, Japan/Research Institute for Microbial Diseases, Osaka University			
14:40 - 15:00	Discussion for collaboration			
15:00	End			
Session 2: Joining and Welding Technology				
12:00 – 12:20	Linear Friction Welding of Various Metals with 100% Joint Efficiency By Prof. Dr. Hidetoshi Fujii, JWRI, Osaka University			
12:20 – 12:40	Dissimilar Materials Joining for Mobility Applications By Dr. Sinthu Chanthapan, Researcher of RMT, NSTDA			
12:40 – 13:00	Development of Additively Manufacturing for Copper using High Brightness Blue Diode Laser By Prof. Dr. Yuji Sato, JWRI, Osaka University			
13:00 – 13:20	Microstructure and hardness of novel 316L/TiN composite fabricated by SLM By Dr. Dhritti Tanprayoon, Researcher of MTEC, NSTDA			
13:20 - 13:40	Aluminum Honeycomb Panel for Electric Vehicle Battery Enclosure By Dr. Sutee Olarnrithinun, Researcher of RMT, NSTDA			
13:40 – 14:00	Discussion for Collaboration			
14:00	End			





Session 3: Information Science and Technology	: Digital City
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12:00 – 12:20	Real-time Forecasting of Big Time-series Data: Foundations and Challenges By Prof. Yasushi Sakurai, Osaka University
12:20 – 12:40	Big Data Research By Dr. Marut Buranarach, Director of Data Science and Analytics Research Group (DSARG), NECTEC, NSTDA
12:40 - 13:00	Human-Robot Interaction in Cyber-Physical System By Assist. Prof. Photchara Ratsamee, Osaka University
13.00 – 13.20	Introduction to Intelligent SCADA Research Team By Dr. Nathavuth Kitbutrawat, Researcher of Intelligent SCADA Research Team (IST), NECTEC, NSTDA
13:20 – 13:40	When Learning Techniques Meet Our Real-World Problems: Challenges and Solutions By Dr. Hamada Rizk, Specially appointed Assistant Professor, Graduate School of Information Science and Technology, Osaka University,
13:40 - 14:00	Discussion for collaboration
14:00	End ************************************

Registration:

https://meeting-nstda.webex.com/meeting-nstda/j.php?RGID=rf9d20c85ca78c9478b099b8a4da681d4