



## 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**

Welcome and Introduction Session		
(Thai time)		
10:30 – 10:35	Welcome Remarks	
10.00 10.00	Py Drof Dracit Dalitanongarphim NCTDA Evacutiva Vice President	
	By Prof. Prasit Palittapongarnpim, NSTDA Executive Vice President	
<b>10:35</b> - 10:40	Opening Remark	
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	By Prof. Genta Kawahara, Osaka University Executive Vice President	
10: <b>40 - 10:55</b>	Introduction to NSTDA	
10.70 - 10.55		
	By Dr. Lily Eurwilaichitr, Vice President, NSTDA	
10:55 - 11:10	Introduction to Osaka University	
10.55 11.10	•	
	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	
11.25 12.00	bicak	
Parallel Session		
(Thai time)		
12:00 - 14:00	Parallel Session	
	Biotechnology: Microbial System Design and Application	

Parallel Session  Biotechnology: Microbial System Design and Applicati Joining and Welding Technology  Information Science and Technology: Digital City
Discussion for Collaboration
End

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# **Parallel Session Program:**

Session 1: Biotechnology on Microbial System Design and Application		
(Thai time) 12:00 – 12:20	Development of veast 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	<b>AMR in Southeast Asia</b> 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		
(Thai time) 12:00 – 12:20	<b>Linear Friction Welding of Various Metals with 100% Joint Efficiency</b> By Prof. Dr. Hidetoshi Fujii, JWRI, Osaka University	
12:20 - 12:40	<b>Dissimilar Materials Joining for Mobility Applications</b> 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	<b>Aluminum Honeycomb Panel for Electric Vehicle Battery Enclosure</b> By Dr. Sutee Olarnrithinun, Researcher of RMT, NSTDA	
13:40 - 14:00	Discussion for Collaboration	
14:00 Session 3: Informat	End tion Science and Technology: Digital City	
(Thai time)		
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	<b>Big Data Research</b> By Dr. Marut Buranarach, Director of Data Science and Analytics Research Group (DSARG), NECTEC, NSTDA	
12:40 - 13:00	<b>Human-Robot Interaction in Cyber-Physical System</b> 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	
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## Registration:

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