

The 1st International Workshop on Carbon Value Science & Technology

(https://www.rs.tus.ac.jp/carbonvalue/en/news_1st_International_Workshop.html)

- ✚ Date: Wednesday, October 26th, 2022
- ✚ Venue: Zoom on-line at Tokyo University of Science (TUS)
- ✚ Organized by Carbon Value Research Center (CVRC), Research Institute for Science and Technology (RIST), TUS
- ✚ Cooperation: Consortium of All Nippon Artificial Photosynthesis Project for Living Earth (CanApple)

Time				Speaker	Title
Japan time	PDT	AEST	CEST		
Session 1: Artificial Photosynthesis (Chair: Yumi Tanaka)					
9:00 -9:05	10/25 17:00 -17:05	10:00 -10:05	2:00 -2:05	Yasuo Kogo Vice president, TUS	Opening remarks
9:05 -9:35	10/25 17:05 -17:35	10:05 -10:35	2:05 -2:35	Akihiko Kudo CVRS, TUS	Introduction of CVRC Artificial photosynthesis for Carbon Value
9:35 -10:15	10/25 17:35 -18:15	10:35 -11:15	2:35 -3:15	(Invited) Shane Ardo (University of California Irvine, USA)	Technoeconomically Viable Ensembles of Artificial Photosynthetic Nanoreactors for Z-Scheme Solar Water Splitting
10:15 -10:55	10/25 18:15 -18:55	11:15 -11:55	3:15 -3:55	(Invited) Takeshi Morikawa (Toyota Central R&D Labs., Inc.)	Solar-driven CO ₂ reduction by semiconductor/metal-complex hybrid photosystems
Group photo shoot					
Break time					
Session 2: Photo/Electrocatalyst (Chair: Akihiko Kudo)					
11:10 -11:30	10/25 19:10 -19:30	12:10 -12:30	4:10 -4:30	Yuichi Negishi CVRC, TUS	Activation of Photo/Electrocatalysts using Controlled Metal Clusters
11:30 -12:10	10/25 19:30 -20:10	12:30 -13:10	4:30 -5:10	(Invited) Lianzhou Wang (University of Queensland, Australia)	Semiconductor Nanomaterials for Photoelectrochemical Energy Conversion
12:10-13:40 Lunch time					
Session3: Energy material & CO ₂ reduction (Chair: Kiyoshi Dowaki)					
13:40 -14:20	10/25 21:40 -22:20	14:40 -15:20	6:40 -7:20	(Invited) Seong-Ju Hwang (Yonsei University, Korea)	Fine-control of the interface and defect structures of 2D nanostructured hybrids applicable for renewable energy technology
14:20 -14:40	10/25 22:20 -22:40	15:20 -15:40	7:20 -7:40	Chiaki Terashima Norihiro Suzuki CVRS, TUS	Purification and Condensation of Formic Acid Produced by Electrochemical CO ₂ Reduction
14:40 -15:20	10/25 22:40 -23:20	15:40 -16:20	7:40 -8:20	(Invited) Antoni W. Morawski (West Pomeranian University of Technology in Szczecin, Poland)	New photocatalytic processes for the reduction of CO ₂ into valuable chemicals
Break time					
Session 4: Fuel Cell and Rechargeable Ion Battery (Chair: Yuichi Negishi)					
15:35 -16:15	10/25 23:35 -0:15	16:35 -17:15	8:35 -9:15	(Invited) Eiji Ohira (NEDO, Japan)	Hydrogen and Fuel Cells perspective in Japan
16:15 -16:55	10/25 0:15 10/26 0:55	17:15 -17:55	9:15 -9:55	(Invited) Stefano Passerini (Helmholtz Institute Ulm & Karlsruhe Institute of Technology, Germany)	Bio-waste derived hard carbons for Sodium-ion battery anodes
16:55 -17:15	10/26 0:55 -1:15	17:55- 18:15	9:55- 10:15	Shinichi Komaba CVRS, TUS	Na-ion and K-ion chemistry for next generation battery

17:15 -17:20	10/26 1:15 1:20	18:15- 18:20	10:15- 10:20	Hiroshi Nishihara Director RIST, TUS	Closing remarks
Group photo shoot					

PDT: Pacific Daylight Time AEST: Australian Eastern Standard Time CEST: Central European Summer Time
Presentation time including 5-10 min for discussion

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