



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

-CENTER FOR ENERGY SYSTEMS DESIGN - WORKSHOP

DATE: FRIDAY, FEBRUARY 2ND, 2024

TIME: 10:00AM –5:05PM (JST)

VENUE: I²CNER HALL, KYUSHU UNIVERSITY

Time	Speaker	Affiliation	Title
10:00 a.m.	Hiroshige Matsumoto	Kyushu University	Opening Remark
10:05 a.m.	Leonard Kwati	Kyushu University	Scaled Ceramic Protonic Membranes for Hydrogen Technologies (PCEC/PCFC)
10:30 a.m.	Junichiro Otomo	Tokyo Institute of Technology	Device and System design for Next Generation Fuel Cells
10:55 a.m.	Yuan Gao	Kyushu University	Deployment of Artificial Intelligence Algorithms in Renewable Energy Systems
11:20 a.m.	Yoichi Yamada	RIKEN	Illuminating Organic Transformation Reactions: A Symphony of Microwaves, Light, and Nanostructured Catalysts
11:45 a.m. - 1:10 p.m.	Lunch		
1:10 p.m.	Junji Hyodo	Kyushu University	Development of Novel Functional Ceramics for Contributing Carbon-Neutrality
1:35 p.m.	Zhanglin Guo	Kyushu University	Halide Perovskite Solar Cells for Outdoor and Indoor Applications
2:00 p.m.	Adroit T. N. Fajar	Kyushu University	Machine Learning in A Thermodynamic Framework for Exploring Uncharted Chemical Space
2:25 p.m.	Guillaume Lambard	National Institute for Materials Science (NIMS)	SMILES-X: Autonomous Characterization and Design of Small Molecules
2:50 p.m. - 3:15 p.m.	Break		
3:15 p.m.	Jill Engel-Cox	National Renewable Energy Laboratory (NREL)	Designing Future Research for Sustainable Energy Systems
3:45 p.m.	Shintaro Ida	Kumamoto University	Fabrication of 2D-material-based Proton Conducting Membranes and Fuel Cells Using Them as Electrolytes

4:10 p.m.	Nobutaka Maeda	Kyushu University	Modulation Excitation Spectroscopy: Potentials for Carbon Neutral and Energy Research
4:35 p.m.	Ken-ichi Shimizu	Hokkaido University	Continuous CO ₂ Capture and Hydrogenation over Heterogeneous Catalysts
5:00 p.m.	Masahiko Demura	National Institute for Materials Science (NIMS)	Closing Remark