



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

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## -CENTER FOR ENERGY SYSTEMS DESIGN -

### KICK-OFF WORKSHOP

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DATE: THURSDAY, FEBRUARY 2ND & FRIDAY, FEBRUARY 3RD, 2023

TIME: 3:00PM –8:00PM & 9:30AM – 1:00PM (JST)

VENUE: I²CNER HALL/HYBRID, ITO CAMPUS, KYUSHU UNIVERSITY

Time	Speaker	Affiliation	Title
Thursday, February 2			
3:00 p.m.	Hiroshige Matsumoto	Kyushu University	About Center for Energy Systems Design
Session1: Data Science			
3:20 p.m.	Guillaume Lambard	National Institute for Materials Science (NIMS)	Data-driven design of materials
3:45 p.m.	Aleksandar Staykov	Kyushu University	Autonomous design of ring opening reactions through machine learning and first principle simulations
Session2: Materials / Transport			
4:00 p.m.	Shin-ichi Orimo	Tohoku University	Advanced Hydride Materials Design for Energy-Related Applications
4:25 p.m.	Masanobu Kubota	Kyushu University	Mitigation of hydrogen embrittlement by impurities and creep in hydrogen
Session3: Materials Conversion			
4:40 p.m.	Yoichi Yamada	RIKEN	Development of Spatial Catalysts for Organic Transformations
5:05 p.m.	Ken-ichi Shimizu	Hokkaido University	Computational, data science, and spectroscopic studies for design of heterogeneous catalysis
5:30 p.m.	Miho Yamauchi	Kyushu University	Inorganic Nanomaterials to Achieve Efficient Hydrogenation Reactions
6:00 p.m.	Free Discussion		
Friday, February 3			
Session4: Electric Conversion			
9:30 a.m.	Tatsumi Ishihara	Kyushu University	Intermediate temperature steam and CO2 electrolysis by using LaGaO3 electrolyte cells

Session5: Photo Conversion			
9:45 a.m.	Shintaro Ida	Kumamoto University	About Institute of Industrial Nanomaterials
10:10a.m.	Toshinori Matsushima	Kyushu University	Efficient and stable solar power conversion from hybrid perovskites
Session6: Energy Analysis			
10:25 a.m.	Andrew Chapman	Kyushu University	The Role of Energy Analysis Toward Sustainability and Carbon Neutrality
10:40 a.m.	Junichiro Otomo (virtual presentation)	Tokyo Institute of Technology	Integrated Energy Science in Tokyo Tech
11:05 a.m.	General Discussion		
11:35 a.m.	Lunch Break 1: CESD Lunch meeting at I <sup>2</sup> CNER meeting room <i>*invitees only</i>		
11:35 a.m.	Lunch Break 2: Lunch on your own <i>*Bringing your own lunch is recommended.</i>		