

The 2nd International Symposium on Hydrogen Energy-based Society

Research Center for Hydrogen Energy-based Society (ReHES)

Date: November. 20 Mon and 21 Tue. 2017

Venue: Conference Room of International House, Tokyo Metropolitan University

Nov. 20 Mon.

9:30 Desk open

10:00–10:15 Opening remarks

10:15–10:45 Protic Ionic Liquids as Proton Conductor for Fuel Cells Under Non-humidifying Conditions

(Prof. Masayoshi Watanabe, Yokohama National University)

10:45–11:00 Coffee brake

11:00–11:20 Fabrication and Characterization of Composite Membrane for Non-humidified Intermediate Temperature Fuel Cells Composed by Ionic Liquid and Phosphoric Acid/ 3-Dimensionally Ordered Macroporous Polyimide

(Dr. Yu Jie, Tokyo Metropolitan University)

11:20–11:40 Ion Conductive Polymer Nanofiber Framework: Fabrication, Characterization and Application to Polymer Electrolyte Fuel Cells

(Dr. Manabu Tanaka, Tokyo Metropolitan University)

11:40–13:00 Lunch

13:00–13:30 Study on Electromagnetic Disturbance of Buck Chopper Circuit into Control Area Network Communications

(Prof. Toshihisa Shimizu, Tokyo Metropolitan University)

13:30–13:50 Anodizing Process for Hydrogen Energy Synthesis

(Prof. Takashi Yanagishita, Tokyo Metropolitan University)

13:50–14:20 Development of Innovative Ion Conductive Membranes for Next Generation Fuel Cells

(Prof. Kenji Miyatake, Yamanashi University)

- 14:20–14:50 Artificial Photosynthesis: Photosynthesis and Dye Sensitized Solar Cells
(Prof. Sule Erten Ela, Ege University (Turkey))
- 14:50–15:10 Towards Robust and Panchromatic Dye-sensitized Photoelectrochemical Water
Splitting Devices
(Prof. J. Y. Mulyana, Tokyo Metropolitan University)
- 15:10–15:30 Visible Light Induced Water Splitting Sensitized by Earth-abundant Metalloporphyrin
(Dr. Fazalurahman Kuttassery, Tokyo Metropolitan University)
- 15:30–15:50 Coffee break
- 15:50–16:20 Catalysts for Synthesis/Decomposition of Ammonia as Hydrogen Carrier
(Prof. Katsutoshi Nagaoka, Oita University)
- 16:20–16:50 Heterogeneous catalysts for synthesis of glycerol carbonate from biodiesel
by-product glycerol
(Prof. Fidelis S. H. Simanjuntak, Prasetiya Mulya University (Indonesia))
- 16:50–17:20 Biocatalyst and Dye Hybrid System with for Visible-light Driven Carbon Dioxide
Reduction and Fixation
(Prof. Yutaka Amao, Osaka City University)
- 17:30–19:30 Banquet (Lever son Verre, International House)

Nov. 21 Tue.

- 10:00–11:40 Poster session (Foyer, International House)
- 11:40–13:20 Lunch
- 13:20–13:40 Hydrogen desorption and absorption in MgH_2 assisted by catalytic effect of Nb_2O_5
(Prof. Toru Mirayama, Tokyo Metropolitan University)
- 13:40–14:00 Climate Adaptation Technology and Evaluation Method for Green Building
Components in Asia
(Prof. Masayuki Ichinose, Tokyo Metropolitan University)
- 14:00–14:10 Closing remarks
(Director of ReHES)