

【Program】 The 5th GREEN Symposium December 17 (Mon), 2012 Namiki site, NIMS

Time	Title
9:00- 9:05	Opening Remarks Dr. Sukekatsu Ushioda President of NIMS / Director-General of GREEN
9:05-9:10	Greeting Mr. Daisuke Baba Deputy Director, Office for Materials Science and Nanotechnology Development, Research Promotion Bureau, Ministry of Education, Culture, Sports, Science and Technology (MEXT)
9:10-9:15	Greeting Prof. Kazuhito Hashimoto Professor; Department of Applied Chemistry, School of Engineering, The University of Tokyo / Program Director of GREEN
9:15-9:20	GREEN Prize
9:20-9:40	Development of novel spectroscopic method for in-situ characterization of energy conversion processes at solid/liquid interface Prof. Katsuyoshi Ikeda Associate Professor; Hokkaido University, Member Institutions of GREEN
9:40-10:00	In-situ analysis of solid/liquid interfacial reaction using vibrational spectroscopy Dr. Mikio Ito NIMS Postdoctoral Researcher; Nanointerface Laser Spectroscopy Group
10:00-10:30	Overview of current status and future direction of battery and fuel cell research in GREEN Prof. Kohei Uosaki GREEN Coordinator; Batteries and Fuel Cells Field
10:30-11:00	Intrinsic electrochemical properties of active materials for batteries Prof. Kiyoshi Kanamura Professor; Tokyo Metropolitan University / GREEN Leader; Interface- Controlled Battery Materials Group
11:00-11:15	Coffee Break
11:15-11:45	Post Lithium-ion Batteries (Invited) Prof. Takeshi Abe Professor; Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University
11:45-12:15	Solvent-free Lithium-ion Polymer Battery using $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ and Graphite (Invited) Dr. Yo Kobayashi Senior Research Scientist; Central Research Institute of Electric Power Industry
12:15-13:20	Poster Presentation, Lunch

Time	Title
13:20-13:40	Novel Solid Polymer Electrolyte for High Voltage Lithium Ion Cell Prof. Takaya Sato Professor; Tsuruoka National College of Technology, GREEN Open-lab Guest Researcher
13:40-14:00	Epitaxial thin film growth for basic research on solid-state Li-ion battery Dr. Tsuyoshi Ohnishi GREEN Leader; All Solid-state Rechargeable Battery Group
14:00-14:20	Prospect of electron microscopy study on solid-state Li-ion battery Dr. Kazutaka Mitsuishi GREEN Leader; In-situ Interface Analysis Group
14:20-14:40	First-principles calculation collaborated with experiments concerning ion diffusion in a solid electrolyte Dr. Yoshinori Tanaka NIMS Postdoctoral Researcher; Green Computational Materials Science Group
14:40-14:55	Coffee Break
14:55-15:25	Development and Catalysis of High Performance and Durable Pt- Based Catalysts for Polymer Electrolyte Fuel Cells (Invited) Prof. Masahiro Watanabe Professor, Director; Fuel Cell Nanomaterials Center, University of Yamanashi
15:25-15:55	Technical Challenges for Further Cost Reduction of FCEV (Invited) Dr. Kazuhiko Shinohara Senior Research Engineer; Nissan Research Center
15:55-16:15	In-situ observation of energy conversion processes at solid/liquid interface using SOR and other techniques Dr. Takuya Masuda NIMS Special Researcher; Nanostructured Electrocatalyst Group
16:15-16:35	Reversible growth and decomposition of Li_2O_2 at the cathode of Li-air battery Dr. Yoshimi Kubo* and Dr. Kimihiko Ito# GREEN Leaders; *Air Battery Group and #Thin Film Battery Group
16:35-16:40	Closing Remarks Prof. Kohei Uosaki GREEN Coordinator; Batteries and Fuel Cells Field
16:40-16:45	Remarks Dr. Tsuyoshi Ohnishi Executive Committee Chairman of GREEN Symposium
16:45-17:45	Poster Presentation
17:50-19:00	Reception Party (at Foyer in front of Large Seminar room, Namiki site, NIMS) (Fee : JPY2,000 will be charged on site.)

* Programs are subject to change without notice.