

**【Program】 The 4<sup>th</sup> GREEN Symposium June 26 (Tue), 2012 Namiki site, NIMS**

	<b>Title</b>	<b>Lecturer</b>
9:00 - 9:05	Opening Remarks	Dr. Sukekatsu Ushioda President of NIMS / Director-General of GREEN
9:05 - 9:10	Greeting	Mr. Masanori Nagai Director 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 - 9:30	GREEN Prize Ceremony	
9:30 - 10:00	A few visions of materials for sustainable energy technologies	Prof. Louis Schlapbach Deputy Director-General of GREEN
10:00 - 10:40	Development of Dye-sensitized Solar Cells for Energy Harvesting Applications	Dr. Hiroshi Matsui Chief Researcher; Environment and Energy Laboratory, Fujikura Ltd.
10:40 - 11:00	Towards Highly Efficient Dye-sensitized Solar Cells based on Ionic Liquid Electrolytes	Dr. Masatoshi Yanagida GREEN Leader; Organic/Inorganic Hybrid Photovoltaics Group
11:00 - 11:20	Coffee Break	
11:20 - 12:00	Ultrafast spectroscopic study on interfacial electron transfer in solar cell nanomaterials	Dr. Akihiro Furube Senior Researcher; Research Institute of Instrumentation Frontier, AIST
12:00 - 12:20	Design, Synthesis, and Evaluation of Ethynylated Fullerenes for OPVs	Dr. Yasuhiro Shirai, GREEN Leader; Photovoltaic Polymer Materials Group
12:20 - 13:20	Poster Presentation, Lunch	

Title	Lecturer
13:20-14:00	<b>Self-Assembled Structures for Solar Energy Conversion</b> <b>Prof. Hiroshi Imahori</b> <b>Professor; Institute for Integrated Cell-Material Sciences (WPI-iCeMS),</b> <b>Kyoto University</b>
14:00-14:20	Development of Photocatalysts for Water Splitting toward Solar Energy Utilization. <b>Dr. Tsuyoshi Takata</b> <b>NIMS Special Researcher; Photochemical Energy Conversion Group</b>
14:20-15:00	<b>Solar CO<sub>2</sub> reduction utilizing semiconductor / metal-complex hybrid</b> <b>Photocatalysts - conjugation of CO<sub>2</sub> reduction with H<sub>2</sub>O oxidation</b> <b>Dr. Takeshi Morikawa</b> <b>Principal Researcher; Toyota Central Research and Development Labs., Inc.</b>
15:00-15:20	Coffee Break
15:20-16:00	<b>Theoretical Study on Electron Injection and Recombination in Organic Solar Cells</b> <b>Prof. Koichi Yamashita</b> <b>Professor; Department of Chemical System Engineering, School of Engineering,</b> <b>The University of Tokyo</b>
16:00-16:40	<b>Simultaneous treatment of photo-excitation and carrier splitting in materials by</b> <b>first-principles simulation</b> <b>Dr. Yoshiyuki Miyamoto</b> <b>Group Leader; Nanosystem Research Institute, AIST</b>
16:40-17:00	<b>Development of Novel Polymer Electrolyte using Concentrated Polymer Brush and</b> <b>Ionic Liquids</b> <b>Dr. Takashi Morinaga</b> <b>Principal Researcher; Innovative Polymer Electrolyte Group</b>
17:00-17:20	<b>Recent application of TOF-SIMS analysis in the GREEN-related field</b> <b>Dr. Akiya Karen</b> <b>GREEN Leader; Applied Ion Beam Analysis Group</b>
17:25-18:25	<b>Poster Presentation</b>
18:25-19:20	<b>Reception Party (at Café near Auditorium, Namiki site, NIMS)</b> (Fee : JPY2,000, It will be charged on site.)
19:20-19:25	<b>Remarks</b> <b>Dr. Masatoshi Yanagida</b> <b>Executive Committee Chairman of GREEN Symposium</b>
19:25-19:30	<b>Closing Remarks</b> <b>Dr. Kenjiro Miyano</b> <b>GREEN Coordinator of Solar Energy Conversion Field</b>

\* Programs are subject to change without notice.