

【Program】

	Title	Lecturer
9:00 - 9:05	Opening Remarks	Dr. Sukekatsu Ushioda President of NIMS / Director-General of GREEN
9:05 - 9:10	Greeting	Dr. Shuichi Sakamoto 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
Theme 1 "Secondary Battery"		
9:15 - 9:45	Self-Organized Core-Shell Structure Enhancing Power Density of Solid-State Lithium Batteries	Dr. Kazunori Takada, Unit Director , Battery Materials Unit, NIMS
9:45 - 10:15	Recent Researches on Materials for New Battery System	Prof. Kiyoshi Kanamura, Professor, Tokyo Metropolitan University / GREEN Leader , Interface-Controlled Battery Materials Group
10:15 - 10:25	Thin film growth of Li ionic conductor: $\text{Li}_{0.33}\text{La}_{0.55}\text{TiO}_3$	Dr. Tsuyoshi Ohnishi, GREEN Leader , All Solid-state Rechargeable Battery Group
10:25 - 10:35	La ordering in planer defect blocking Li conduction in ion conductive perovskite	Dr. Kazutaka Mitsuishi, GREEN Leader, In-situ Interface Analysis Group
10:35 - 10:45	A concept of "Multi-electrolytes system cells"	Dr. Makoto Ue, GREEN Leader, Multi-electrolytes System Battery Group
10:45 - 11:00	Open Discussion	
11:00 - 11:10	Coffee Break	
Theme 2 "Fuel Cell"		
11:10 - 11:40	R&D of FCEV in NISSAN for Future Commercialization	Dr. Kazuhiko Shinohara, Senior Manager, Nissan Research Center
11:40 - 11:50	Design of interface on Pt and cerium oxide for development of high quality cathode and anode in fuel cells	Dr. Toshiyuki Mori, GREEN Leader, Hetero-interface Design Group
11:50 - 12:00	Electrochemical interfaces studied by sum frequency generation spectroscopy	Dr. Hidenori Noguchi, GREEN Leader, Nanointerface Laser Spectroscopy Group
12:00 - 12:10	In situ EQCM and EC-AFM study of potential dependent adsorption/desorption of Nafion on gold electrode	Dr. Takuya Masuda, NIMS Special Researcher, Nanostructured Electrocatalyst Group, GREEN
12:10 - 12:25	Open Discussion	
12:25 - 13:30	Poster Presentation, Lunch	

Theme 3 "Photo Catalytic"

- 13:30-14:00 Photocatalytic overall water splitting using visible light: Behavior of photoexcited carriers
Prof. Jun Kubota
Associate Professor, Department of Chemical System Engineering, the University of Tokyo
- 14:00-14:10 Construction of solid-liquid interface for high efficient and durable photovoltaics
Dr. Masatoshi Yanagida,
GREEN Leader, Organic/Inorganic Hybrid Photovoltaics Group
- 14:10-14:20 Molecular adsorption property on TiO₂ surfaces: an STM/STS study
Dr. Nobuyuki Ishida,
NIMS Postdoctoral Researcher, Nano Interface Characterization Group, GREEN
- 14:20-14:30 Synthesis of ethynyl-fullerene derivatives for organic solar cells
Dr. Yasuhiro Shirai, GREEN Leader, Photovoltaic Polymer Materials Group
- 14:30-14:40 Control of observation environments in a transmission electron microscope by specimen holders
Dr. Ayako Hashimoto, GREEN Leader, Environmental Microscopy Group
- 14:40-14:55 Open Discussion
- 14:55-15:05 Coffee Break

Theme 4 "Computational Science"

- 15:05-15:35 First-Principles Study on Semiconductor / Liquid Interfaces for Energy and Environmental issues
Dr. Yoshitaka Tateyama, Group Leader, Nano-System Computational Science Group, NIMS
- 15:35-16:05 Molecular Dynamics Study on the Properties of Nanostructured Materials
Dr. Masato Shimono, Group Leader, Thermodynamic Modeling Group, NIMS
- 16:05-16:15 First Principles Study on Li diffusion in solid electrolyte La-Li-Ti-O.
Dr. Yoshinori Tanaka,
NIMS Postdoctoral Researcher, Green Computational Materials Science Group, GREEN
- 16:15-16:25 Diffusion mechanism of polaron-Li complex in cathode material LiFe_{1-y}MnyPO₄ (y=0,0.5,1)
Dr. Van An Dinh,
NIMS Postdoctoral Researcher, Green Computational Materials Science Group, GREEN
- 16:25-16:40 Open Discussion
- 16:40-16:45 Remarks Dr. Kazutaka Mitsuishi
Executive Committee Chairman of GREEN Symposium
- 16:45-17:45 Poster Presentation
- 17:45-17:50 Closing Remarks
Prof. L. Schlappach, Deputy Director-General of GREEN

- 18:00-19:30 Reception Party (at Foyer in front of Large Seminar room, Namiki site, NIMS)
(Fee : JPY2,000, It will be charged on site.)

* Programs are subject to change without notice.