



5th International Symposium on Advanced Plasma Science  
and its Applications for Nitrides and Nanomaterials

**ISPlasma2013**



# Energy Revolution

What are the requirements of a smart city? Although green energy devices (e.g. Solar cell, Fuel cell, etc.) are of course important elements for smart city, sustainable society cannot be achieved only by developing such energy generating devices. Systematic combination of several kinds of energy devices (i.e. energy generators, energy storage devices, DC-AC convertors, and so on) is also required. In this "Energy Revolution" session, we will discuss the achievability of smart city with the combination of present energy devices and the necessary improvements of each device.

**Friday, February 1, 2013, 13:30-16:45**  
**Toyoda Auditorium, Nagoya University**

## PROGRAM

### 13:30 – 15:20 Keynote & Invited Lectures

- Chair: **Mineo Hiramatsu** (Meijo University, JAPAN)
- 13:30-14:00 **Tomohiro Nozaki** (Tokyo Institute of Technology, JAPAN)  
**Keynote** "Plasma catalysis for next generation C<sub>1</sub>-Chemistry"
- 14:00-14:25 **Yoshinori Nishikitani** (JX Nippon Oil & Energy Corporation, JAPAN)  
**Invited** "Recent developments and future prospects for organic solar cells"
- 14:25-14:50 **Indrajit Mukhopadhyay** (Pandit Deendayal Petroleum University, INDIA)  
**Invited** "Recent development in solar power in Gujarat: case study for large power plant and solar city"
- 14:50-15:20 **Leon L. Shaw** (Illinois Institute of Technology, USA)  
**Keynote** "Energy storage enabled by nanomaterials and advanced processing"

### 15:30 – 16:45 Panel Discussion **Towards Smart Energy Cities**

- Moderator: **Tomohiro Nozaki** (Tokyo Institute of Technology, JAPAN)
- Panelists: **Takeshi Matsumoto** (Osaka Gas Co., Ltd., JAPAN)\*  
**Indrajit Mukhopadhyay** (Pandit Deendayal Petroleum University, INDIA)  
**Masanobu Nakayama** (Nagoya Institute of Technology, JAPAN)  
**Yoshinori Nishikitani** (JX Nippon Oil & Energy Corporation, JAPAN)  
**Leon L. Shaw** (Illinois Institute of Technology, USA)  
**Wladyslaw Walukiewicz** (Lawrence Berkeley National Laboratory, USA)\*

\***SHORT PRESENTATION GIVEN**

\* Program is subject to change.

**REGISTRATION**  
available on  
<http://www.isplasma.jp/>  
Energy Revolution Session  
is a part of ISPlasma2013.

## CONTACT

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