

Asian Nations Joint Workshop on Photovoltaics

(JSPS 11th Workshop on the Future Direction of Photovoltaics)

The scope of this workshop is to provide an opportunity to review and discuss the present status and future of innovative solar cells. The aim is to contribute to further development in the science and technology of photovoltaics in order to meet worldwide sustainable energy targets.

Organized by: The Japan Society for the Promotion of Science,
The 175th Committee on Innovative Photovoltaic Power Generating Systems

Japanese Chair: Makoto Konagai, Tokyo Institute of Technology

Chinese Chair: Ying Zhao, Nankai University

Korean Chair: Jinsoo Song, KIER

Schedule of the Asian Nations Joint Workshop on Photovoltaics

Kyoto International Conference Center (Conf. venue of the WCPEC-6) **Room B-1**

Nov. 23 (Sunday) 2014

Opening Session

Chairperson: Yuzuru Ueda

10:00-10:15 **Opening Remarks**

Makoto Konagai, Ying Zhao, Jinsoo Song

Session 1

Chairperson: Yuzuru Ueda

10:15-10:35 **Recent Progress in Development of Innovative Solar Cells in Japan**

Makoto Konagai (Tokyo Institute of Technology)

10:35-10:55 **China Photovoltaic Development Roadmap**

Yuwen Zhao, Honorary Director of China Photovoltaic Society (CPVS)

10:55-11:15 **History of Korean PV**

Jinsoo Song (KIER)

Session 2

Chairperson: Makoto Tanaka

11:15-11:30 **R&D Activities of NEDO and JST Programs in Japan**

Masafumi Yamaguchi (Toyota Technological Institute)

11:30-11:45 **Defect Engineering in Multicrystalline Silicon**

Deren Yang (Zhejiang University)

11:45-12:00 **Loss Factor Minimization Passivation Technology for High Efficiency Solar Cell Fabrication**

Junsin Yi (SungKyunKwan University)

12:00-13:30 Lunch

Session 3

Chairperson: Amornrat Limmanee

- 13:30-13:45 **Recent Progress in High Performance Silicon Solar Cells**
Makoto Tanaka (Panasonic)
- 13:45-14:00 **Opportunities for Thin Film Solar Cells**
Zhao Ying (Nankai University)
- 14:00-14:15 **Modeling of Light-induced Degradation and Regeneration Kinetics in Silicon Solar Cells of B-doped Cz Wafers**
Donghwan Kim (Korea University)
- 14:15-14:30 **R&D Progress of HIT Solar Cell in SIMIT-Trina Joint-lab**
Zhengxin Liu (Shanghai Institute of Microsystem and Information Technology)
- 14:30-14:45 **Recent Progress of Photovoltaic Industry and Research in Taiwan**
Chung-wen Lan (National Taiwan University)
- 14:45-15:00 **Performance of PV Modules and Systems in the Tropics**
Armin ABERLE (National University of Singapore)

15:00-15:15 *Break***Session 4**

Chairperson: Donghwan Kim

- 15:15-15:30 **Mission and Strategy for Next Generation PV Systems**
Michio Kondo (Fukushima Renewable Energy Research Center)
- 15:30-15:45 **High-Efficiency Crystalline Silicon PV Modules: a Strategic Decision Process for Low Levelized Cost of Electricity**
Zhiqiang Feng (Technology of Trina Solar)
- 15:45-16:00 **Perovskite Solar Cell Technology**
Nam-Gyu Park (Sungkyunkwan University)
- 16:00-16:15 **Current Status and Future Prospect of CIS-based Thin-film PV Technology**
Katsumi Kushiya (Solar Frontier)
- 16:15-16:30 **Current Status of CIGS Research and Development Activities in Korea**
Byung Tae Ahn (KAIST)
- 16:30-16:45 **Thailand's Solar PV Development: Toward Strategic Positioning in ASEAN**
Amornrat Limmanee, Aswin Hongsingthong, Taweewat Krajangsang,
Sorapong Inthisang, Jaran Sritharathikhun and Kobsak Sriprapha (NSTDA)
- 16:45-17:00 **The Research and Demonstration of Distributed PV and its Hybrid Power System**
Honghua Xu (Beijing Corona Sciences & Technology Co., Ltd)
- 18:00- **Welcome Reception (WCPEC-6)**