

1st Taiwan-Japan Joint Workshop on PV

Venue: International Conference Hall

4F, Bldg. 51, Chung Hsing Campus, ITRI, Hsinchu, Taiwan

Time: 26~27 November 2009

Program

Time	Activity	Speaker
25 November 2009 (Wednesday)		
18:00~21:00	Reception Party	Ambassador Hotel Hsinchu
26 November 2009 (Thursday)		
09:00~09:10	Opening Address	
09:10~09:20	Welcome Address	
09:20~9:50	Plenary –1 PV R&D Program in Japan – METI and MEXT	J-1, Makoto Konagai, Tokyo Tech.
9:50~10:20	Plenary –2 PV R&D Program in Taiwan	T-1, Chung-Wen Lan, ITRI
10:20~10:40	Coffee Break	
10:40~11:05	CPV-1 High-efficiency III-V Compound Multi-junction and Concentrator Solar Cells	J-2, Masafumi Yamaguchi, Toyota Technological Institute
11:05~11:30	CPV-2 The Challenge from the Large Scale On-Grid Application of HCPV Technology	T-2, Andrew Tzeng, Arima Eco Energy Technologies Corp.
11:30~11:55	Dye Sensitized Solar Cell– 1 TCO-less dye sensitized solar cells	J-3, Shuzi Hayase, Kyushu Institute of Technology
11:55~13:30	Lunch	
13:30~13:55	Dye Sensitized Solar Cell–2 High-Performance Counter Electrodes based on PXDOT Films for Dye-Sensitized Solar Cells	T-3, Kuo-Chuan Ho, National Taiwan University

13:55~14:20	Dye Sensitized Solar Cell– 3 Highly Efficient Dye-sensitized Solar Cells	J-4, Liyuan Han, NIMS
14:20~14:40	Coffee Break	
14:40~15:05	CIGS Thin Film PV– 1 Progress in CIGS solar cell and module technology	J-5, Shigeru Niki, AIST
15:05~15:30	CIGS Thin Film PV – 2 CIGS R&D in ITRI	T-4, Song-Yeu Tsai, ITRI
15:30~15:55	CIGS Thin Film PV– 3 Lift-off process for Cu(In,Ga)Se ₂ thin-film and solar cells	J-6, Takashi Minemoto, Ritsumeikan University
15:55~16:20	CIGS Thin Film PV– 4 Surface polarities of single-crystalline and poly-crystalline CIGS thin films	T-5, Li-Chung Yang, National Formosa University
16:20~16:45	CIGS Thin Film PV– 5 High efficiency CIGS solar cells grown by active source method and evaluation of their grain boundaries	J-7, Akira Yamada, Tokyo Tech.
18:00~21:00	Banquet	Hotel Royal Hsinchu

Friday, 27 November 2009

Time	Activity	Speaker
27 November 2009 (Friday)		
09:00~09:30	Plenary –3 Current Status and Prospects of PV Industry in Japan	J-8, Izumi Kaizuka, RTS
09:30~10:00	Plenary –4 Status Quo of Photovoltaic Industry Development and Business Outlook in Taiwan	T-6, Joeng-Shein Chen, ITRI
10:00~10:20	Coffee Break	

10:20~10:45	Silicon Solar Cells –1 High-efficiency multi-crystalline Si solar cell technologies for mass production	J-9, Takehiko Sato, Mitsubishi Electric
10:45~11:10	Silicon Solar Cells –2 High Efficiency Silicon Solar Cell Development at E-Ton Solar Tech.	T-7, Jiun-Hua Allen Guo, E-Ton Solar Tech.
11:10~11:35	Silicon Thin Film Solar Cells-1 High Efficiency Multi-Junction Thin Film Silicon Solar Cells and Modules	J-10, Kenji Yamamoto, KANEKA
11:35~12:00	Silicon Thin Film Solar Cells-2 Thermal Annealing Study on a-Si, nc-Si and μ c-Si Solar Thin Films Grown by Electron Cyclotron Resonance Chemical Vapor Deposition	T-8, Li Ting Tung, National Central University
12:00~12:25	Silicon Thin Film Solar Cells-3 Research and development of microcrystalline silicon-germanium alloys and solar cells	J-11, Takuya Matsui, AIST
12:25~14:00	Lunch	
14:00~14:25	PV System – 1 Recent results of outdoor performance evaluation on PV systems in Japan	J-12, Yuzuru Ueda, Tokyo Tech.
14:25~14:50	PV System -2 Experiences of PV system installation in Taiwan	T-9, Charles Tsai, Delta Electronics
14:50~15:10	Coffee Break	
15:10~15:35	Standard Measurement Method–1 Accurate Performance Test of PV Cells and Modules	J-13, Yoshihiro Hishikawa, AIST
15:35~16:00	Standard Measurement Method–2 Experience from PV Module Type Approval Testing	T-10, Robert Struwe, TÜV

16:00~16:30	Concluding Remark	Makoto Konagai & Chung-wen Lan
18:00~21:00	Banquet	Peng's agora garden

- TIME ALLOWANCE FOR PRESENTATION

The time allocated for each presentation is as follows:

Plenary Presentation : 30 minutes (Q&A is also included in this time)

Invited Presentation : 25 minutes (Q&A is also included in this time)

Reception Party	
Date: November 25 (Wednesday)	Time: 18:00-21:00
Venue: The Chinese Restaurant (9F), Ambassador Hotel Hsinchu No.188,Sec.2, Zhonghua Rd.Hsinchu City, Taiwan Tel: (886) 3-515-1111 www.ambassador-hsinchu.com.tw	

Banquet	
Date: November 26 (Thursday)	Time: 18:00-21:00
Venue: Ming Court Restaurant(3F), Hotel Royal Hsinchu No. 227,Kuan-Fu Rd., Sec. 1, Hsinchu, 300, Taiwan. Tel: (886) 3-563-1122 www.royal-hsinchu.com.tw	

Banquet	
Date: November 27(Friday)	Time: 18:00-21:00
Venue: Peng's agora garden No. 151,Kuan-Fu Rd., Sec. 2, Hsinchu, 300, Taiwan. Tel: (886) 3-573-0788	

J-Speaker List

J-1

Makoto Konagai, Tokyo Institute of Technology
PV Research and Development Programs in Japan – METI and MEXT

J-2

Masafumi Yamaguchi, Toyota Technological Institute
High-efficiency III-V Compound Multi-junction and Concentrator Solar Cells

J-3

Shuzi Hayase, Kyushu Institute of Technology
TCO-less dye sensitized solar cells

J-4

Liyuan Han, Advanced Photovoltaics center, National Institute for Materials
Science (NIMS)
Highly Efficient Dye-sensitized Solar Cells

J-5

Shigeru Niki, Shogo Ishizuka, Hironori Komaki, Shigenori Furue, Koji Matsubara
and Norio Terada, AIST
Progress in CIGS solar cell and module technology

J-6

Takashi Minemoto, Shintaro Osada, Yasuhiro Abe, and Hideyuki Takakura,
Ritsumeikan University
Lift-off process for Cu(In,Ga)Se₂ thin-film and solar cells

J-7

Akira Yamada, Tokyo Institute of Technology
High efficiency CIGS solar cells grown by active source method and
evaluation of their grain boundaries

J-8

Izumi Kaizuka, Takashi Ohigashi, Hiroshi Matsukawa and Osamu Ikki, RTS
Corporation
Current Status and Prospects of PV Industry in Japan

J-9

Takehiko Sato, Kunihiro Nishimura, Shyuichi Hiza, Shigeru Matsuno, Satoshi
Hamamoto, Takashi Ishihara, and Hiroaki Morikawa, Mitsubishi Electric
High-efficiency multi-crystalline Si solar cell technologies for mass
production

J-10

Kenji Yamamoto, Tomomi Meguro, Kaneka Corporation
High Efficiency Multi-Junction Thin Film Silicon Solar Cells and Modules

J-11

Takuya Matsui, Chia-Wen Chang, Haijun Jia, Michio Kondo, Research Center for Photovoltaics, National Institute of Advanced Industrial Science and Technology (AIST)

Research and development of microcrystalline silicon-germanium alloys and solar cells

J-12

Yuzuru Ueda, Kosuke Kurokawa, Tokyo Institute of Technology

Recent results of outdoor performance evaluation on PV systems in Japan

J-13

Yoshihiro Hishikawa and Yuuki Tsuno, AIST

Accurate Performance Test of PV Cells and Modules

T-Speaker List

T-1

Chung-Wen Lan(藍崇文),PVTC, ITRI
PV R&D Program in Taiwan

T-2

Andrew Tzeng(曾衍彰), Arima Eco Energy Technologies Corp.
The Challenge from the Large Scale On-Grid Application of HCPV
Technology

T-3

Kuo-Chuan Ho(何國川), National Taiwan University
High-Performance Counter Electrodes based on PXDOT Films for
Dye-Sensitized Solar Cells

T-4

Song-Yeu Tsai(蔡松雨),PVTC, ITRI
CIGS R&D in ITRI

T-5

Li-Chung Yang (楊立中), National Formosa University
Surface polarities of single-crystalline and poly-crystalline CIGS thin films

T-6

Joeng-Shein Chen(陳榮顯), PVTC,ITRI
Status Quo of Photovoltaic Industry Development and Business Outlook in
Taiwan

T-7

Jiun-Hua Allen Guo(郭俊華), E-Ton Solar Tech
High Efficiency Silicon Solar Cell Development at E-Ton Solar Tech.

T-8

Li Ting Tung(利定東), National Central University
Thermal Annealing Study on a-Si, nc-Si and $\mu\text{c-Si}$ Solar Thin Films Grown by
Electron Cyclotron Resonance Chemical Vapor Deposition

T-9

Charles Tsai(蔡文蔭), Delta Electronics
Experiences of PV system installation in Taiwan

T-10

Robert Struwe, TÜV
Experience from PV Module Type Approval Testing