WEDNESDAY, 21 OCTOBER 2020

	07:00	Summary & Introduction	Zhengxin Liu, Tongwei Solar, TW Solar/ Shanghai Insitute of Microsystem and Information Technology, SIMIT
ADVANCED CONCEPT & CHARACTER- IZATION 7:05-8:55	07:05	Advanced characterization of high-efficiency cells at I-V test	Ron Sinton, Sinton Instruments
	07:35	Scaling perovskite/silicon tandems	Zachary Holman, Arizona State University, ASU
Chairman: Zhenxin Liu <i>TW Solar/SIMIT</i>	07:55	Improving perovksite solar cells for low-cost tandem on silicon	Jixian Xu, University of Science and Technology of China, USTC
	08:15	Efficient textured perovskite/silicon tandems: three ways to make them & first outdoor tests	Stefaan De Wolf, King Abdullah University of Science and Technology, KAUST
	08:35:	Defect engineering and transport mechanisms for high efficiency single- and double-junction front/back contacted solar cells	Paul Procel, Delft University of Technology, TU Delft
	08:55	Break	
CONTACTS & DEVICE 9:10-10:50	09:10	Heterojunction solar cells: reducing the gap from lab to fab	Delfina Munoz, Institut national de l'énergie solaire, CEA-INES
Chairman: Christophe Ballif <i>CSEM</i>	09:30	From silicon heterojunction solar cells to transparent passivating contact	Kaifu Qiu, Forschungszentrum Jülich GmbH, JÜLICH
	09:50	Optimized a-Si:H microstructure towards higher fill factor in SHJ solar cells	Zhuopeng Wu, Shanghai Insitute of Microsystem and Information Technology, SIMIT
	10:10	TCOs for SHJ solar cells: What is a good choice?	Bernd Stannowski, Helmholtz-Zentrum Berlin, HZB
	10:30	Beyond traditional contacts for silicon heterojunction solar cells	Mathieu Boccard, École Polytechnique Fédérale de Lausanne, EPFL
	10:50	Summary & Outlook	Christophe Ballif, Swiss Center for Electronics and Microtechnology, CSEM

STEERING COMMITTEE

Prof. Christophe Ballif, CSEM Dr. Kaining Ding, JÜLICH Dr. Mikio Taguchi, Panasonic Corporation Prof. Zhengxin Liu, TW Solar/SIMIT Prof. Zachary Holman, ASU

ORGANIZERS

Shanghai Insitute of Microsystem and Information Technology, SIMIT

Phone: +49 2461 61-6310 Email: shj_workshop@fz-juelich.de

CONTACT

Forschungszentrum Jülich GmbH, JÜLICH



3rd International workshop on Silicon HeteroJunction solar cells: **SCIENCE AND INDUSTRY TECHNOLOGY**

19-21 October 2020 | Virtual Workshop | CEST 7:00-11:00 am www.fz-juelich.de/shj_workshop

> VIRTUAL WORKSHOP











SCOPE

The 1st and 2nd international workshops on silicon heterojunction solar cells which were held in Shanghai and Chengdu in 2018 and in 2019 have played a positive role in promoting the scientifi c and technical exchanges as well as the industrialization of SHJ solar cells. Due to COVID-19 pandemic, the 3rd international workshop on SHJ solar cells will be held as a virtual meeting instead of a physical meeting. JÜLICH and SIMIT will host this virtual event.

The workshop will involve high level representatives from

international research and industry covering diff erent aspects of SHJ technology. Workshop topic includes Stability and Reliability, Module and System, Industrial Processes, Equipment Manufacturing as well as Material and Process Development.

Further information: www.fz-juelich.de/shj_workshop

PROGRAMME

MONDAY, 19 OCTOBER 2020

	07:00	Introduction	Kaining Ding, Forschungszentrum Jülich GmbH
PRODUCTION & FINANCE 7:10-8:40	07:10	Review: Industrialization trends of SHJ solar cell in China	Zhengxin Liu, Tongwei Solar, TW Solar/ Shanghai Insitute of Microsystem and Information Technology, SIMIT
Chairman: Kaining Ding, <i>JÜLICH</i>	07:40	Overview on Commercialization of HJT cell/Module Technologies	Shravan Chunduri, <i>TaiyangNews</i>
	08:00	Heterojunction industry and investment trends in China	Haijun Zheng, Three Gorges Capital Holdings Co., Itd
	08:20	Silicon heterojunction cells and modules in mass production and utility scale operation	Dmitriy Andronikov, <i>Hevel Solar</i>
	08:40	Break	
PROCESS & EQUIPMENT 9:00-11:00	09:00	Advantage of Cat-CVD Technology in Fabrication of SHJ Solar Cells	Hideki Matsumura, Japan Advanced Institute of Science and Technology, JAIST
Chairman: Weiyuan Duan, <i>JÜLICH</i>	09:20	Advanced SHJ Solar PV Technologies and Applications	Akira Terakawa, Panasonic Corporation
	09:40	Futher into HJT volumn production: large capacity equipment, application technology and cost reduction	Qian Luo, G <i>S-Solar</i>
	10:00	High Throughput Magnetron Sputtering Technology at 10,000 wafers per hour for Cost-Competitive Manufacturing of transparent conductive oxides (TCO)	Eric Schneiderlöchner, Von Ardenne GmbH
	10:20	Efficiency and reliability of SHJ solar cell vs N type silicon wafer quality	Fanying Meng, Tongwei Solar, TW Solar/ Shanghai Insitute of Microsystem and Information Technology, SIMIT
	10:40	Roadmap for industrial mass production equipment for high efficiency silicon heterojunction solar cells	Xuemei Cheng, <i>Singulus</i>

TUESDAY, 20 OCTOBER 2020

	07:00	Summary & Introduction	Zachary Holman, Arizona State University, ASU
MODULE & APPLICATIONS	07:05	Silicon heterojunction field observations	Dirk Jordan, National Renewable Energy Laboratory, NREL
Chairman: Zachary Holman, <i>ASU</i>	07:35	Advanced characterisation methods and their applications for SHJ cells	Ziv Hameiri, The University of New South Wales, UNSW
	07:55	Research of light and elevated Temperature Induced performance changes of silicon heterojunction solar cells and modules	Yanfeng Cui, <i>Risen Energy Co., Ltd.</i>
	08:15	Potential-induced degradation of silicon heterojunction photovoltaic modules	Keisuke Ohdaira, Japan Advanced Institute of Science and Technology, JAIST
	08:35	Increased PID Resistance of Silicon Heterojunction Solar Cells via Optimized Module Packaging	Olatz Arriaga, École Polytechnique Fédérale de Lausanne, EPFL
	08:55	Break	
WAFER BASED 9:10-09:50	09:10	Progress in defect-engineered heterojunction solar cells	Brett Hallam, The University of New South Wales, UNSW
Chairman: Mikio Taguchi, <i>Panasonic</i> <i>Corporation</i>	09:30	Mono wafer updates as substrate for High efficiency solar cell	Yichun Wang, LONGi Green Energy Technology Co., Ltd., LONGi
PANEL DISCUSSION 9:50-11:00	09:50	Global Heterojunction Industrialization Outlook	Akira Terakawa, <i>Panasonic Corporation</i> Wenzhong Shen, <i>Shanghai Jiao Tong University</i> Gunter Erfurt, <i>Meyer Burger</i>
Chairman: Kaining Ding, JÜLICH	10:25	Next-Generation PV Industry Technologies	Radovan Koppecek, <i>ISC Konstanz</i> Qiang Huang, <i>Risen Energy Co., Ltd.</i> Frank Feldmann, <i>Fraunhofer Institute for Solar</i> <i>Energy Systems ISE, Fraunhofer ISE</i>

The time is based on CEST time.