

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Area Leading invited	1Mo01	1Mo01.1	Cell Technology(1)	DEVELOPMENT OF MASS-PRODUCTION TECHNOLOGY FOR BACK-CONTACT TYPE SOLAR CELLS AND MODULES	Monday	2017/11/13	8:30-8:45	Room1+2+3	Naoki Koide	Sharp Corporation
Oral		1Mo01.2	Cell Technology(1)	INDUSTRY RELATED APPROACHES FOR BI-FACIAL P-TYPE PERX SOLAR CELLS	Monday	2017/11/13	8:45-9:00	Room1+2+3	Tobias Fellmeth	Fraunhofer ISE
Oral		1Mo01.3	Cell Technology(1)	22.8% LOW COST BIFACIAL n-PERT CELL WITH Ni/Ag CO-PLATED CONTACTS AND MORE THAN 95% BIFACIALITY	Monday	2017/11/13	9:00-9:15	Room1+2+3	Philip Pieters	imec
Oral		1Mo01.4	Cell Technology(1)	FORMATION OF BLACK SILICON USING THE SIGE SELF-ASSEMBLED ISLANDS AS A MASK FOR SELECTIVE ETCHING	Monday	2017/11/13	9:15-9:30	Room1+2+3	Yushi Ota	Nagoya University
Oral		1Mo01.5	Cell Technology(1)	HIGH-EFFICIENCY C-SI SOLAR CELLS WITH DIFFERENT THERMAL BUDGETS	Monday	2017/11/13	9:30-9:45	Room1+2+3	Miro Zeman	Delft University of Technology
Oral		1Mo01.6	Cell Technology(1)	INTERDIGITATED BACK-CONTACT SILICON HETEROJUNCTION SOLAR CELL FOR LIQUID PHASE CRYSTALLIZED SILICON ON GLASS WITH 14.2% EFFICIENCY	Monday	2017/11/13	9:45-10:00	Room1+2+3	Cham Thi Trinh	Helmholtz-Zentrum Berlin fr Materialien und Energie GmbH
Oral	5Mo03	5Mo03.1	High Performance Cells	HIGH PERFORMANCE PEROVSKITE MODULES FOR BUILDING INTEGRATED PHOTOVOLTAICS	Monday	2017/11/13	8:30-8:45	Room5	Lucija Rakocevic	Imec, partner in Solliance, Leuven, 3001, Belgium
Oral		5Mo03.2	High Performance Cells	203mm x 203mm largest sized highly efficient MAPbI3 solar module	Monday	2017/11/13	8:45-9:00	Room5	Hiroshi Higuchi	Panasonic corporation
Oral		5Mo03.3	High Performance Cells	Monolithic perovskite/silicon-heterojunction tandem solar cells	Monday	2017/11/13	9:00-9:15	Room5	Xiaodan Zhang	Nankai University
Oral		5Mo03.4	High Performance Cells	OPTIMUM PEROVSKITE CELL FOR HIGHLY EFFICIENT PEROVSKITE/SILICON TANDEM SOLAR CELL	Monday	2017/11/13	9:15-9:30	Room5	Wayesh Qarony	The Hong Kong Polytechnic University
Oral		5Mo03.5	High Performance Cells	OPTICAL DEVICE DESIGN OF HIGHLY EFFICIENT CH3NH3Pb(I, Br)3/Cu(In, Ga)Se2-BASED DOUBLE AND TRIPLE TANDEM SOLAR CELLS	Monday	2017/11/13	9:30-9:45	Room5	Hiroyuki Fujiwara	Gifu University
Oral		5Mo03.6	High Performance Cells	PEROVSKITE / TEXTURED SILICON HETEROJUNCTION FOR MECHANICALLY STACKED TANDEM SOLAR CELL	Monday	2017/11/13	9:45-10:00	Room5	Hiroyuki Kanda	University of Hyogo
Invited	7Mo05	7Mo05.1	PV Performance Characterization (I)	LASER-DSR: COMPREHENSIVE REFERENCE CELL CALIBRATION IN LABORATORY AND ITS IMPACT ON OUTDOOR MEASUREMENTS	Monday	2017/11/13	8:30-9:00	Room6	Stefan Winter	Physikalisch-Technische Bundesanstalt (PTB), Germany
Oral		7Mo05.2	PV Performance Characterization (I)	INHERENT UNCERTAINTY OF ENERGY RATINGS OF MULTI-JUNCTION CELLS BY FLUCTUATION OF ATMOSPHERIC PARAMETERS	Monday	2017/11/13	9:00-9:15	Room6	Kenji Araki	Toyota Technological Institute
Oral		7Mo05.3	PV Performance Characterization (I)	TEMPERATURE DEPENDENCE OF THE SHORT CIRCUIT CURRENT AND SPECTRAL RESPONSE OF VARIOUS KINDS OF CRYSTALLINE SILICON PV DEVICES	Monday	2017/11/13	9:15-9:30	Room6	Masahiro Yoshita	AIST
Oral		7Mo05.4	PV Performance Characterization (I)	OPTIMISED FITTING OF INDOOR (E.G. IEC 61853 MATRIX) AND OUTDOOR PV MEASUREMENTS FOR DIAGNOSTICS AND ENERGY YIELD PREDICTIONS	Monday	2017/11/13	9:30-9:45	Room6	Steve J Ransome	Steve Ransome Consulting Limited
Oral		7Mo05.5	PV Performance Characterization (I)	PV MODULE IRRADIANCE SENSOR FOR PRECISE OUTDOOR MEASUREMENT - STRUCTURE, RESPONSE SIMILARITY AND ANGULAR DEPENDENCE COMPARISON WITH THE MODULE UNDER TEST -	Monday	2017/11/13	9:45-10:00	Room6	Takuya DOI	National Institute of Advanced Industrial Science and Technology (AIST)

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Invited	1Mo02	1Mo02.1	Cell Technology (2) (Device)	Present status and future perspectives of bifacial PERC+ solar cells and modules	Monday	2017/11/13	10:30-11:00	Room1+2+3	T. Dullweber	ISFH
Oral		1Mo02.2	Cell Technology (2) (Device)	22.0% EFFICIENCY BIPERC WITH 17.5% BACK BASED ON INDUSTRIAL PROCESS	Monday	2017/11/13	11:00-11:15	Room1+2+3	Xiajie Meng	LONGi Solar Technology Co., LTD
Oral		1Mo02.3	Cell Technology (2) (Device)	INVESTIGATION OF THE ALUMINUM PASTE COMPOSITION AND LASER CONTACT OPENING GEOMETRY FOR PERC SOLAR CELLS	Monday	2017/11/13	11:15-11:30	Room1+2+3	Masahiro Nakahara	Toyo Aluminum
Oral		1Mo02.4	Cell Technology (2) (Device)	DEVELOPMENT OF PASSIVATION FILMS FOR N-TYPE CRYSTALLINE SILICON SOLAR CELLS	Monday	2017/11/13	11:30-11:45	Room1+2+3	Kunihiko Nishimura	Mitsubishi Electric Corporation
Oral		1Mo02.5	Cell Technology (2) (Device)	DEVELOPMENT OF HIGH EFFICIENT AND LONG-TERM RELIABLE CRYSTALLINE SILICON SOLAR CELLS AND MODULES BY LOW COST MASS PRODUCTION PROCESS	Monday	2017/11/13	11:45-12:00	Room1+2+3	Yuta Irie	Kyocera Corporation
Invited	5Mo04	5Mo04.1	High Performance (Efficiency)	HYSTERESIS-FREE PEROVSKITE SOLAR CELLS MADE OF POTASSIUM-DOPED ORGANOMETAL HALIDE PEROVSKITE	Monday	2017/11/13	10:30-11:00	Room5	Hiroshi Segawa	Univ. Tokyo
Oral		5Mo04.2	High Performance (Efficiency)	LOW-TEMPERATURE PREPARED NIOBIUM-DOPED AMORPHOUS TITANUM OXIDE COMPACT LAYER IN HIGHLY EFFICIENT AND DURABLE PEROVSKITE SOLAR CELLS	Monday	2017/11/13	11:00-11:15	Room5	Youhei Numata	Toin University of Yokohama
Oral		5Mo04.3	High Performance (Efficiency)	HIGH EFFICIENT AND STABLE MAPB13 BASED PEROVSKITE SOLAR CELLS	Monday	2017/11/13	11:15-11:30	Room5	Liyuan Han	National Institute for Materials Science
Oral		5Mo04.4	High Performance (Efficiency)	18.3% RECORD-EFFICIENCY FLEXIBLE PEROVSKITE SOLAR CELLS	Monday	2017/11/13	11:30-11:45	Room5	Shengzhong Frank Liu	Dalian Institute of Chemical Physics
Oral		5Mo04.5	High Performance (Efficiency)	TOWARDS ACCURATE SPECTRAL RESPONSE MEASUREMENTS OF PEROVSKITE SOLAR CELLS	Monday	2017/11/13	11:45-12:00	Room5	Martin Bliss	Loughborough University
Oral	7Mo06	7Mo06.1	PV Performance Characterization (II)	FACTORS FOR IMPROVING THE PRECISION OF OUTDOOR PHOTOVOLTAIC PERFORMANCE MEASUREMENT	Monday	2017/11/13	10:30-10:45	Room6	Yoshihiro HISHIKAWA	AIST
Oral		7Mo06.2	PV Performance Characterization (II)	ACCURATE MEASUREMENT AND ESTIMATION OF SOLAR CELL TEMPERATURE IN PHOTOVOLTAIC MODULE OPERATING IN REAL ENVIRONMENTAL CONDITIONS	Monday	2017/11/13	10:45-11:00	Room6	Kensuke Nishioka	University of Miyazaki
Oral		7Mo06.3	PV Performance Characterization (II)	LONGTERM PERFORMANCE AND DEGRADATION RATE ANALYSIS OF PV MODULE EXPOSED IN FIELD OF THE GOBI DESERT, MONGOLIA	Monday	2017/11/13	11:00-11:15	Room6	Bat-Erdene Bayandelger	Tokyo University of Science
Oral		7Mo06.4	PV Performance Characterization (II)	FILTERING METHOD OF DETECTING SOLAR IRRADIANCE CONDITIONS FOR PV MODULE PERFORMANCE CHARACTERIZATION UNDER UNSTABLE IRRADIANCE	Monday	2017/11/13	11:15-11:30	Room6	Zhang Junfang	Gifu University
Oral		7Mo06.5	PV Performance Characterization (II)	ELECTRICAL PERFORMANCE OF BIFACIAL SILICON PV MODULES UNDER DIFFERENT INDOOR SETTINGS AFFECTING THE REAR REFLECTED IRRADIANCE	Monday	2017/11/13	11:30-11:45	Room6	Juan Lopez-Garcia	European Commission, Joint Research Centre (JRC)
Oral		7Mo06.6	PV Performance Characterization (II)	TBD	TBD	Monday	2017/11/13	11:45-12:00	Room6	TBD

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Opening talks			Opening Ceremony	Opening Address	Monday	2017/11/13	13:30-13:35	Room1+2+3	Takahiro Wada	Ryukoku University
Opening talks			Opening Ceremony	Welcome Address	Monday	2017/11/13	13:35-13:40	Room1+2+3	Taizo Mikazuki	Governor of Shiga Prefecture
Opening talks		OL1	Opening lecture	RENEWABLE ENERGY POLICY IN JAPAN	Monday	2017/11/13	13:40-14:10	Room1+2+3	Takuya Yamazaki	Agency for Natural Resources and Energy
Opening talks		OL2	Opening lecture	SHIGA ENERGY VISION ~FOR THE REALIZATION OF A NEW ENERGY SOCIETY~	Monday	2017/11/13	14:10-14:25	Room1+2+3	Yoichi Nakajima	Shiga Prefecture
Opening talks		OL3	Opening lecture	THE FIRST PRACTICAL REVERSE FLOW PV SYSTEM IN A JAPANESE HOUSE HAS BEEN RUNNING STEADILY FOR 25 YEARS	Monday	2017/11/13	14:25-14:40	Room1+2+3	Yukinori Kuwano	Photovoltaic Power Generation Technology Research Association, Japan
Opening talks			Award Presentation	PVSEC Award PVSEC Special Award Hamakawa Award	Monday	2017/11/13	14:40-15:35	Room1+2+3		
Keynote & Plenary talks		KN.1	Keynote & Plenary talks	HIGH EFFICIENCY HETEROJUNCTION CRYSTALLINE SI SOLAR CELLS	Monday	2017/11/13	16:00-16:30	Room1+2+3	Kenji Yamamoto	Kaneka Corporation
Keynote & Plenary talks		KN.2	Keynote & Plenary talks	From powering satellites to powering humanity : what role for international R&D on Photovoltaics?	Monday	2017/11/13	16:30-17:00	Room1+2+3	Daniel Lincot	CNRS, Institut Photovoltaïque Ile de France (IPVF)
Keynote & Plenary talks		10MoPL.1	Keynote & Plenary talks	The arising Role of PV and Wind Energy in the Power Sector and beyond	Monday	2017/11/13	17:00-17:30	Room1+2+3	Christian Breyer	Lappeenranta University of Technology
Invited		4MoOS.1	Special talks	DESIGN OF POLYMERS WITH STRONG TEMPERATURE-DEPENDENT AGGREGATION FOR HIGH PERFORMANCE ORGANIC PHOTOVOLTAICS	Monday	2017/11/13	17:45-18:15	Room1+2+3	Henry He Yan	Hong Kong University of Science and Technology
Oral		1MoOS.2	Special talks	Multicrystalline silicon solar cells exceeding 22%	Monday	2017/11/13	18:15-18:30	Room1+2+3	Stefan W. Glunz	Fraunhofer Institute for Solar Energy Systems
Oral		1MoOS.3	Special talks	FOUR-TERMINAL PEROVSKITE-SILICON MULTI-JUNCTION SOLAR MODULES	Monday	2017/11/13	18:30-18:45	Room1+2+3	Philip Pieters	imec
Oral		10MoOS.4	Special talks	DEVELOPING UTILITY SCALE PV IN THE NEW FIT ACT ERA IN JAPAN	Monday	2017/11/13	18:45-19:00	Room1+2+3	James Buford	First Solar Japan
Plenary talks		1TuPI.1	Plenary talks	RECORD EFFICIENCY INDUSTRIAL SCREEN-PRINTED MULTICRYSTALLINE SILICON SOLAR CELL	Tuesday	2017/11/14	8:30-9:00	Room1+2	Hao Jin	Jinko Solar Holdings Co., Ltd
Plenary talks		3TuPI.2	Plenary talks	HIGH EFFICIENCY PHOTOVOLTAICS ENABLED BY III-V MATERIALS	Tuesday	2017/11/14	9:00-9:30	Room1+2	Frank Dimroth	Fraunhofer Institute for Solar Energy Systems ISE
Plenary talks		9TuPI.3	Plenary talks	THE VALUE OF RENEWABLE INTEGRATION STUDIES	Tuesday	2017/11/14	9:30-10:00	Room1+2	Carlo Brancucci	National Renewable Energy Laboratory

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Oral	1Tu01	1Tu01.1	Characterization 1	PHOTOLUMINESCENCE IMAGING AT UNIFORM EXCESS CARRIER DENSITY USING NON-UNIFORM ILLUMINATION	Tuesday	2017/11/14	10:30-10:45	Room1+2	Yan Zhu	University of New South Wales
Oral		1Tu01.2	Characterization 1	DETAILED ANALYSIS OF CONTACT RESISTANCE INVESTIGATION USING PHOTOLUMINESCENCE TECHNIQUE IN A SOLAR CELL	Tuesday	2017/11/14	10:45-11:00	Room1+2	Amit Singh Rajput	Research Assistant, Solar Energy Research Institute of Singapore (SERIS)
Oral		1Tu01.3	Characterization 1	UNCERTAINTY IN THE DETERMINATION OF LOCAL RECOMBINATION CURRENT DENSITIES	Tuesday	2017/11/14	11:00-11:15	Room1+2	Hannes Hffler	Fraunhofer ISE
Oral		1Tu01.4	Characterization 1	TRACKING AND VISUALIZATION OF DISLOCATION GENERATION IN MULTICRYSTALLINE SILICON BY PHOTOLUMINESCENCE IMAGE PROCESSING	Tuesday	2017/11/14	11:15-11:30	Room1+2	Yusuke Hayama	Nagoya University
Oral		1Tu01.5	Characterization 1	RELATIONSHIP BETWEEN LOCAL OXYGEN PRECIPITATION AND MINORITY CARRIER LIFETIME IN CZOCHRALSKI SILICON	Tuesday	2017/11/14	11:30-11:45	Room1+2	Rabin Basnet	The Australian National University
Oral		1Tu01.6	Characterization 1	DETERMINATION OF CARBON CONCENTRATION IN PHOSPHORUS-DOPED N-TYPE CZOCHRALSKI-GROWN Si CRYSTALS BY LIQUID-NITROGEN-TEMPERATURE PHOTOLUMINESCENCE AFTER ELECTRON IRRADIATION	Tuesday	2017/11/14	11:45-12:00	Room1+2	Yoichiro Ishikawa	Meiji University
Invited	2Tu04	2Tu04.1	Industry and Related Technologies	PROGRESS IN HIGH EFFICIENCY CIGS SOLAR CELL AND MODULE RESEARCH AT SOLAR FRONTIER	Tuesday	2017/11/14	10:30-11:00	Room3	Takuya Kato	Solar Frontier
Oral		2Tu04.2	Industry and Related Technologies	CIGS _{Se} MODULES OVER 18% EFFICIENCY WITH TUNABLE WIDE BAND GAP BUFFER LAYERS	Tuesday	2017/11/14	11:00-11:15	Room3	Thomas Dalibor	AVANCIS GmbH
Oral		2Tu04.3	Industry and Related Technologies	FLEXIBLE CU(IN, GA)SE ₂ BASED SOLAR CELLS USING MOLYBDENUM SUBSTRATE	Tuesday	2017/11/14	11:15-11:30	Room3	Negar Naghavi	CNRS
Oral		2Tu04.4	Industry and Related Technologies	NEW APPROACH FOR AN INDUSTRIAL LOW-TEMPERATURE ROLL-TO-ROLL CI(G)S DEPOSITION PROCESS	Tuesday	2017/11/14	11:30-11:45	Room3	Nikolaus Weinberger	University of Innsbruck
Oral		2Tu04.5	Industry and Related Technologies	NUMERICAL MODELING OF SHADING-INDUCED BREAKDOWN IN CIGS PHOTOVOLTAIC DEVICES	Tuesday	2017/11/14	11:45-12:00	Room3	Marco Nardone	Bowling Green State University
Oral	5Tu07	5Tu07.1	Mechanism and dynamics	M DISSOCIATION OF GEMINATE CHARGE PAIRS IN ORGANO LEAD TRIHALIDE PEROVSKITES	Tuesday	2017/11/14	10:30-10:45	Room5	Vidmantas Gulbinas	Center for Physical Sciences and Technology
Oral		5Tu07.2	Mechanism and dynamics	TOWARDS HOT CARRIER PEROVSKITE SOLAR CELLS	Tuesday	2017/11/14	10:45-11:00	Room5	Tze Chien Sum	Nanyang Technological University
Oral		5Tu07.3	Mechanism and dynamics	INTERFACE ENGINEERING, PHOTOEXCITED CARRIER DYNAMICS AND MECHANISM FOR IMPROVING PHOTOVOLTAIC PERFORMANCE OF PEROVSKITE SOLAR CELLS	Tuesday	2017/11/14	11:00-11:15	Room5	Qing Shen	The University of Electro-Communications
Oral		5Tu07.4	Mechanism and dynamics	Perovskite Solar Cells: Morphological Crystal Structure and Interface Architecture	Tuesday	2017/11/14	11:15-11:30	Room5	Satoshi Uchida	The University of Tokyo
Oral		5Tu07.5	Mechanism and dynamics	TBD	Tuesday	2017/11/14	11:30-11:45	Room5	TBD	TBD
Oral		5Tu07.6	Mechanism and dynamics	A SPATIALLY SMOOTHED DEVICE MODEL FOR MESO-STRUCTURED PEROVSKITE SOLAR CELLS	Tuesday	2017/11/14	11:45-12:00	Room5	Hansong Xue	National University of Singapore

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Oral	1Tu02	1Tu02.1	Noble Technologies, Hybrid	PROGRESS WITH POLYMER/SILICON HETEROJUNCTION SOLAR CELLS	Tuesday	2017/11/14	13:30-13:45	Room1+2	Jan Schmidt	Institute for Solar Energy Research Hamelin (ISFH)
Oral		1Tu02.2	Noble Technologies, Hybrid	CRYSTALLINE-SI HETEROJUNCTION WITH ORGANIC THIN-LAYER (HOT) SOLAR CELLS	Tuesday	2017/11/14	13:45-14:00	Room1+2	Hajime Shirai	Saitama University
Oral		1Tu02.3	Noble Technologies, Hybrid	TOWARDS THE INDUSTRIALISATION OF PEROVSKITE-SILICON TANDEM CELLS	Tuesday	2017/11/14	14:00-14:15	Room1+2	Daniel Kirk	Oxford PV (UK) Ltd.
Oral		1Tu02.4	Noble Technologies, Hybrid	COLORLED SOLAR MODULE USING AUTOMOTIVE PAINTINGS	Tuesday	2017/11/14	14:15-14:30	Room1+2	Yuki Kudo	Toyota Motor Corporation
Oral		1Tu02.5	Noble Technologies, Hybrid	<1G/W SOLAR CELLS ON FLEXIBLE SILICON SUBSTRATES	Tuesday	2017/11/14	14:30-14:45	Room1+2	Andr Augusto	Arizona State University
Oral		1Tu02.6	Noble Technologies, Hybrid	DEVELOPMENT OF 65 μm THIN FREE-STANDING Cz SILICON HETEROJUNCTION CELLS WITH Voc UP TO 749 mV	Tuesday	2017/11/14	14:45-15:00	Room1+2	Shruti Jambaldinni	imec, Belgium
Oral		1Tu02.7	Noble Technologies, Hybrid	NOVEL SILVER PASTE FOR N-TYPE BIFACIAL PERT CELL	Tuesday	2017/11/14	15:00-15:15	Room1+2	Kyotaro Nakamura	Meiji University
Oral		1Tu02.8	Noble Technologies, Hybrid	EFFECTS OF CHEMICAL ROUNDING ON THE PERFORMANCE OF PYRAMID-TEXTURED P-TYPE EMITTERS PASSIVATED BY ALOX IN N-TYPE SI SOLAR CELLS	Tuesday	2017/11/14	15:15-15:30	Room1+2	Hyunju Lee	Toyota Technological Institute
Invited	3Tu05	3Tu05.1	High Efficiency multijunction	HERITAGE TRIPLE JUNCTION III-V SOLAR CELLS EXCEEDING 31% EFFICIENCY	Tuesday	2017/11/14	13:30-14:00	Room3	James Ermer	SpectroLab
Area Leading invited		3Tu05.2	High Efficiency multijunction	III-V THIN-FILM SOLAR CELL MODULES DEVELOPED FOR SPACE AND TERRESTRIAL ENVIRONMENT	Tuesday	2017/11/14	14:00-14:15	Room3	Hiroshi Yamaguchi	SHARP
Oral		3Tu05.3	High Efficiency multijunction	STEP-TUNNEL InGaAs/GaAsP QUANTUM WELL SUPERLATTICE FOR 1.15-eV MIDDLE CELL IN 4-JUNCTION SOLAR CELLMENT	Tuesday	2017/11/14	14:15-14:30	Room3	Masakazu Sugiyama	University of Tokyo
Oral		3Tu05.4	High Efficiency multijunction	FABRICATION OF GAAS SOLAR CELLS GROWN WITH INGAP WINDOW LAYERS BY HYDRIDE VAPOR PHASE EPITAXY	Tuesday	2017/11/14	14:30-14:45	Room3	Ryuji Oshima	National Institute of Advanced Industrial Science and Technology
Oral		3Tu05.5	High Efficiency multijunction	CHARACTERIZATION OF INVERTED GROWN LATTICE-MATCHING MULTI-JUNCTION SOLAR CELLS WITH 1.0 eV DILUTE NITRIDE SUBCELL	Tuesday	2017/11/14	14:45-15:00	Room3	Naoya Miyashita	The University of Tokyo
Oral		3Tu05.6	High Efficiency multijunction	OUTPUT EVALUATION OF A WORLD'S HIGHEST EFFICIENCY FLAT SUB-MODULE WITH InGaP/GaAs/InGaAs INVERTED TRIPLE-JUNCTION SOLAR CELL UNDER OUTDOOR OPERATION	Tuesday	2017/11/14	15:00-15:15	Room3	Yasuyuki Ota	University of Miyazaki
Oral		3Tu05.7	High Efficiency multijunction	FLIGHT DEMONSTRATION OF IMM3J SPACE SOLAR CELL FILM IN SPACE	Tuesday	2017/11/14	15:15-15:30	Room3	Taishi Sumita	Japan Aerospace Exploration Agency

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Invited	9Tu08	9Tu08.1	PV System Integration Including	LESSONS LEARNED FROM RECENT DEMONSTRATIONS COMBINING PHOTOVOLTAIC GENERATION AND BATTERY STORAGE	Tuesday	2017/11/14	13:30-14:00	Room5	Ben York	EPRI
Oral		9Tu08.2	PV System Integration Including	IMPACT ASSESSMENT OF SHORT-TERM FLUCTUATION OF HIGH PENETRATION PV POWER GENERATION ON POWER SYSTEM FREQUENCY CONTROL	Tuesday	2017/11/14	14:00-14:15	Room5	Zhiping Tan	Nagoya University
Oral		9Tu08.3	PV System Integration Including	REGIONAL PHOTOVOLTAICS POWER ESTIMATION USING A GEO-STATIONARY SATELLITE HIMAWARI-8	Tuesday	2017/11/14	14:15-14:30	Room5	Hideaki Ohtake	National Institute of Advanced Industrial Science and Technology (AIST), JAPAN
Oral		9Tu08.4	PV System Integration Including	TBD	Tuesday	2017/11/14	14:30-14:45	Room5	TBD	TBD
Oral		9Tu08.5	PV System Integration Including	ENERGY MANAGEMENT CONTROLLER FOR PHOTOVOLTAIC CHARGING STATION (PVCs) IN ELECTRIC VEHICLE APPLICATION	Tuesday	2017/11/14	14:45-15:00	Room5	Ayda Esfandyari	Dublin Institute of Technology(DIT)
Oral		9Tu08.6	PV System Integration Including	DAY AHEAD PLANNING OF PV POWER GENERATION TO MINIMIZE IMBALANCE COST CONSIDERING SOLAR RADIATION FORECAST ERROR	Tuesday	2017/11/14	15:00-15:15	Room5	Ayumu Iio	Tokyo University of Science
Oral		9Tu08.7	PV System Integration Including	LINEAR COMBINATION OF DAY-AHEAD CH	Tuesday	2017/11/14	15:15-15:30	Room5	Takahiro Sasaki	Tokyo University of Science
Area Leading invited	8Tu03	8Tu03.1	Emerging Technologies	Photovoltaic power systems deployment for half a century and our technical contribution in Asia	Tuesday	2017/11/14	18:30-18:45	Room1+2	Yosuke Nozaki	NTT-F
Area Leading invited		8Tu03.2	Emerging Technologies	PV MODULE REUSE&RECYCLING BUSINESS AND MODULE DEFECTS IN THE FIELD	Tuesday	2017/11/14	18:45-19:00	Room1+2	Masafumi Ito	NPC
Oral		8Tu03.3	Emerging Technologies	DEVELOPMENT OF HIGH PRECISION FAULT DETECTION METHOD OF LARGE-SCALE PV USING PV STRING MEASUREMENT DATA	Tuesday	2017/11/14	19:00-19:15	Room1+2	Takuro Kida	Tokyo University of Science
Oral		8Tu03.4	Emerging Technologies	FIELD EXPERIENCE AND PERFORMANCE ANALYSIS OF FLOATING PV TECHNOLOGIES IN THE TROPICS	Tuesday	2017/11/14	19:15-19:30	Room1+2	Haohui Liu	National University of Singapore
Oral		8Tu03.5	Emerging Technologies	ALL-BLACK FRONT SURFACES FOR BUILDING-INTEGRATED PHOTOVOLTAICS	Tuesday	2017/11/14	19:30-19:45	Room1+2	Beniamino Iandolo	Technical University of Denmark
Oral		8Tu03.6	Emerging Technologies	ELECTROSTATIC CLEANING EQUIPMENT FOR REMOVAL OF DUST FROM SOLAR PANELS	Tuesday	2017/11/14	19:45-20:00	Room1+2	Hiroyuki Kawamoto	Waseda University

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Oral	2Tu06	2Tu06.1	Device Characterization and TCO	CRITICAL ROLE OF LIGHT EXPOSURE ON CO-EVAPORATED Cu(In,Ga)Se ₂ SOLAR CELLS	Tuesday	2017/11/14	18:30-18:45	Room3	Roland Scheer	Martin-Luther-Universitt
Oral		2Tu06.2	Device Characterization and TCO	THE ORIGIN AND PROPAGATION OF REVERSE BIAS INDUCED DEFECTS IN CIGS PHOTOVOLTAIC DEVICES	Tuesday	2017/11/14	18:45-19:00	Room3	Harvey L Guthrey	National Renewable Energy Laboratory
Oral		2Tu06.3	Device Characterization and TCO	ANALYSIS OF RECOMBINATION RATES IN CU(IN,Ga)(S,SE) ₂ -BASED SOLAR CELLS WITH CDS, ZNS(O,OH), AND (Cd,Zn)S BUFFER LAYERS	Tuesday	2017/11/14	19:00-19:15	Room3	Jakapan Chantana	Ritsumeikan University
Oral		2Tu06.4	Device Characterization and TCO	EFFECT OF CESIUM FLUORIDE POST-DEPOSITION TREATMENT ON THIN FILM CU(IN,Ga)SE ₂ SOLAR CELLS: SELF-ADJUSTMENT AND INTERFACIAL ENGINEERING AT CIGS/CDS INTERFACE	Tuesday	2017/11/14	19:15-19:30	Room3	Tzu-Ying Lin	National Tsing Hua University, Taiwan
Oral		2Tu06.5	Device Characterization and TCO	CHALLENGES OF AN HYDROGEN DOPED INDIUM OXIDE WINDOW LAYER IN CIGS MODULES	Tuesday	2017/11/14	19:30-19:45	Room3	Darja Erfurt	Helmholtz-Zentrum Berlin fr Materialien und Energie, Germany
Oral		2Tu06.6	Device Characterization and TCO	SURFACE MODIFICATION OF FTO BY PLASMA ION IMPLANTATION FOR THE APPLICATION ON CDTE SOLAR CELLS	Tuesday	2017/11/14	19:45-20:00	Room3	Cai Liu	Sichuan University
Area Leading invited	6Tu09	6Tu09.1	Quantum Well Solar Cells and Up/down Conversion	NOVEL MICRO CPV MODULE INTEGRATED WITH PLASTIC LENS, CIRCUIT BOARD AND III-V COMPOUND SEMICONDUCTOR UTILIZING INJECTION MOLDING AND SURFACE MOUNTING	Tuesday	2017/11/14	18:30-18:45	Room5	Michihiko Takase	Panasonic Corporation
Oral		6Tu09.2	Quantum Well Solar Cells and Up/down Conversion	BROADBAND-SENSITIVE UPCONVERSION OF Er ³⁺ , Ni ²⁺ -CO-DOPED GARNETS	Tuesday	2017/11/14	18:45-19:00	Room5	Yasuhiko Takeda	Toyota Central Research and Development Laboratories, Inc.
Oral		6Tu09.3	Quantum Well Solar Cells and Up/down Conversion	ECO-FRIENDLY CUGAS ₂ /ZNS QUANTUM DOTS HARVESTING UV-LIGHT AND EMITTING A WIDE RANGE OF VISIBLE LIGHT WITH HIGHLY PHOTOLUMINESCENCE QUANTUM YIELD FOR ENHANCING THE PERFORMANCE OF SOLAR CELLS	Tuesday	2017/11/14	19:00-19:15	Room5	Mohammed Jalalah	Hanyang University
Oral		6Tu09.4	Quantum Well Solar Cells and Up/down Conversion	INVESTIGATION OF CARRIER TRANSPORT MECHANISM IN SUPERLATTICE SOLAR CELLS WITH STRAIN RELAXATION LAYER	Tuesday	2017/11/14	19:15-19:30	Room5	Hideaki Takeda	University of Miyazaki
Oral		6Tu09.5	Quantum Well Solar Cells and Up/down Conversion	THIN-FILM MULTIPLE QUANTUM WELLS SOLAR CELLS FABRICATED BY EPITAXIAL LIFT OFF PROCESS	Tuesday	2017/11/14	19:30-19:45	Room5	Tatsuya Nakata	University of Tokyo
Oral		6Tu09.6	Quantum Well Solar Cells and Up/down Conversion	ELECTROLUMINESCENCE AND RECIPROCITY RELATION IN MULTIPLE QUANTUM WELL SOLAR CELLS	Tuesday	2017/11/14	19:45-20:00	Room5	Kasidit Toprasertpong	The University of Tokyo

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Plenary talks		4WePl.1	Plenary talks	REDUCTION OF PHOTON ENERGY LOSS IN POLYMER SOLAR CELLS	Wednesday	2017/11/15	8:30-9:00	Room1+2	Itaru Osaka	Hiroshima University
Plenary talks		5WePl.2	Plenary talks	21 Century Disruptive Photovoltaics: Perovskite Solar Cell	Wednesday	2017/11/15	9:00-9:30	Room1+2	Nam-Gyu Park	Sungkyunkwan University
Plenary talks		8WePl.3	Plenary talks	TOWARDS NEW MOBILITY SOCIETY BY USING SOLAR ENERGY	Wednesday	2017/11/15	9:30-10:00	Room1+2	Masaki Nakaoka	TOYOTA MOTOR CORPORATION
Invited	8We01	8We01.1	Smart Systems	REALIZATION OF NEXT GENERATION ENERGY SOCIAL SYSTEM THROUGH COLLABORATION, CASE STUDY OF FUJISAWA SST	Wednesday	2017/11/15	10:30-11:00	Room1+2	Hagihara Ryuzo	Panasonic
Oral		8We01.2	Smart Systems	A CASE STUDY FOR ACHIEVING 100% RESIDENTIAL HAWAII HOME ENERGY NEEDS WITH RENEWABLES BY OPTIMIZING ROOFTOP SOLAR PV AND HOT WATER WITH ELECTRICAL AND THERMAL (HOT&COLD) BATTERY STORAGE INTEGRATION	Wednesday	2017/11/15	11:00-11:15	Room1+2	John O Borland	J.O.B. Technologies
Oral		8We01.3	Smart Systems	EV SOLAR STATION, A KEY INFRASTRUCTURE FOR ABSORBING SURPRASS ENERGY GENERATION OF PV ON THE CAR-ROOF	Wednesday	2017/11/15	11:15-11:30	Room1+2	Kenji Araki	Toyota Technological Institute
Oral		8We01.4	Smart Systems	ADVANCED MODELLING OF ENVIRONMENT INTEGRATED PV SYSTEMS: FROM LOCATION TO LOAD	Wednesday	2017/11/15	11:30-11:45	Room1+2	Rudi Santbergen	Delft University of Technology
Oral		8We01.5	Smart Systems	DEVELOPMENT OF AN AUTOMATIC FAILURE DETECTION ALGORITHM FOR RESIDENTIAL PV SYSTEM BY USING OPTI METHOD	Wednesday	2017/11/15	11:45-12:00	Room1+2	Masato Ajisaka	Tokyo University of Science
Oral	2We03	2We03.1	CZTS Devices	CHARACTERRIZATION OF CU2ZNSNSE4 SOLAR CELL WITH CONVERSION EFFICIENCY OF 11.7%	Wednesday	2017/11/15	10:30-10:45	Room3	Hitoshi Tampo	National Institute of Advanced Industrial Science and Technology
Oral		2We03.2	CZTS Devices	Characterization of the Cu ₂ ZnSn(SXSe _{1-X}) ₄ (CZTSSe) absorber thin films deposited by a sputtering process	Wednesday	2017/11/15	10:45-11:00	Room3	Myeng gil Gang	Chonnam National University
Oral		2We03.3	CZTS Devices	A COMPARATIVE STUDY OF LIGANDS IN Cu ₂ ZnSn(S, Se) ₄ SOLAR CELLS PREPARED FROM NANOPARTICLE INKS	Wednesday	2017/11/15	11:00-11:15	Room3	Yongtao Qu	Northumbria University at Newcastle
Oral		2We03.4	CZTS Devices	SURFACE TREATMENT EFFECT ON Cu ₂ ZnSn(S, Se) ₄ SOLAR CELLS	Wednesday	2017/11/15	11:15-11:30	Room3	Takuya Ebi	Tokyo Institute of Technology
Oral		2We03.5	CZTS Devices	CZTSE:GE SOLAR CELLS FABRICATION FROM MBE-DEPOSITED METALLIC STACK PRECURSORS	Wednesday	2017/11/15	11:30-11:45	Room3	Edgardo Saucedo	Catalonia Institute for Energy Research (IREC)
Oral		2We03.6	CZTS Devices	ANNEALING EFFECT AFTER CdS LAYER DEPOSITION ON Cu ₂ ZnSn(S, Se) ₄ SOLAR CELLS	Wednesday	2017/11/15	11:45-12:00	Room3	Kanta Sugimoto	Tokyo Institute of Technology

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Invited	4We05	4We05.1	Organic and Dye-Sensitized Solar Cells I	PV FOR INDOOR USE AND ITS STANDARDIZATION	Wednesday	2017/11/15	10:30-11:00	Room5	Shinji Aramaki	CEREBA/Mitsubishi Chemical
Oral		4We05.2	Organic and Dye-Sensitized Solar Cells I	TI-CONJUGATION EFFECTS OF OLIGO (THIENYLENEVINYLENE) SIDE CHAINS IN SEMICONDUCTING POLYMERS ON PHOTOVOLTAIC PERFORMANCE	Wednesday	2017/11/15	11:00-11:15	Room5	Keisuke Tajima	RIKEN
Oral		4We05.3	Organic and Dye-Sensitized Solar Cells I	ORGANIC SOLAR CELLS UTILIZING NON-PERIPHERAL OCTAHEXYLPHthalocyanine AND ITS ANALOGUES	Wednesday	2017/11/15	11:15-11:30	Room5	Quang-Duy Dao	Osaka University
Oral		4We05.4	Organic and Dye-Sensitized Solar Cells I	IMPROVED VOC IN SMALL MOLECULE ORGANIC SOLAR CELLS WITHOUT CONCOMITANT DECREASE IN JSC	Wednesday	2017/11/15	11:30-11:45	Room5	James W. Ryan	National Institute for Materials Science
Oral		4We05.5	Organic and Dye-Sensitized Solar Cells I	μM-THICK VACUUM DEPOSITED Pthalocyanine :C60 PHOTOVOLTAIC CELLS UTILIZING CO-EVAPORANT INDUCED CRYSTALLIZATION	Wednesday	2017/11/15	11:45-12:00	Room5	Toshihiko Kaji	Tokyo University of Agriculture and Technology
Oral	5We07	5We07.1	High Performance (Durability etc)	MIXED METAL PEROVSKITE CONSISTING OF TIN WITH LOW VOLTAGE LOSS	Wednesday	2017/11/15	10:30-10:45	Room6	Shuzi Hayase	Kyushu Insitutute of Technology
Oral		5We07.2	High Performance (Durability etc)	TBD	Wednesday	2017/11/15	10:45-11:00	Room6	TBD	TBD
Oral		5We07.3	High Performance (Durability etc)	MICROWAVE IRRADIATION FOR ORGANIC-INORGANIC HYBRID LEAD HALIDE CRYSTALLIZATION APPLIED TO PEROVSKITE SOLAR CELLS	Wednesday	2017/11/15	11:00-11:15	Room6	Masato Maitani	The University of Tokyo
Oral		5We07.4	High Performance (Durability etc)	HIGH STABILITY OF SEMI-TRANSPARENT PEROVSKITE SOLAR CELLS SHOWING NO DEGRADATION OVER 1000 HOURS OF CONTINUOUS OPERATION	Wednesday	2017/11/15	11:15-11:30	Room6	Yasuhiro Shirai	National Institute for Materials Science
Oral		5We07.5	High Performance (Durability etc)	A PROMISING ELECTRODE MATERIAL FOR HYBRID HALIDE PEROVSKITE SOLAR CELLS: CD2SNO4 TRANSPARENT CONDUCTIVE OXIDE	Wednesday	2017/11/15	11:30-11:45	Room6	Xia Hao	Sichuan University
Area Leading Invited		5We07.6	High Performance (Durability etc)	METAL OXIDE AND LOW TEMPERATURE PROCESS BASED PEROVSKITE SOLAR CELLS AND HIGH EFFICIENCY DEVELOPMENT	Wednesday	2017/11/15	11:45-12:00	Room6	Tsutomu Miyasaka	Toin University of Yokohama

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Oral	1We02	1We02.1	Crystal Growth and Wafering	Recent Progress and Challenges of Cast Silicon for Photovoltaic Industry	Wednesday	2017/11/15	13:30-13:45	Room1+2	Chung Wen Lan	National Taiwan University
Oral		1We02.2	Crystal Growth and Wafering	METAL PRECIPITATE DISTRIBUTIONS IN HIGH-PERFORMANCE AND CONVENTIONAL MULTICRYSTALLINE SILICON	Wednesday	2017/11/15	13:45-14:00	Room1+2	Amanda Youssef	Massachusetts Institute of Technology
Oral		1We02.3	Crystal Growth and Wafering	CONTROL OF CRUCIBLE MOVEMENT ON MELTING PROCESS AND CARBON CONTAMINATION IN CZOCHRALSKI SILICON CRYSTAL GROWTH	Wednesday	2017/11/15	14:00-14:15	Room1+2	Xin Liu	Kyushu University
Oral		1We02.4	Crystal Growth and Wafering	COMBINING THE ULTRA SIMPLIFIED SOLENNOID CELL CONCEPT WITH N-TYPE CRYSTALMAX SILICON	Wednesday	2017/11/15	14:15-14:30	Room1+2	Raphal Cabal	CEA Tech INES
Oral		1We02.5	Crystal Growth and Wafering	PERFORMANCE OF DIAMOND SAWING MULTI-CRYSTALLINE SILICON WAFER AND CELL	Wednesday	2017/11/15	14:30-14:45	Room1+2	Deren Yang	Zhejiang University
Area Leading invited	2We04	2We04.1	New Materials and Concept	RECENT PROGRESS IN HIGH EFFICIENCY PURE SULFIDE CIGS SOLAR CELLS	Wednesday	2017/11/15	13:30-13:45	Room3	Hiroki Sugimoto	Solar Frontier
Oral		2We04.2	New Materials and Concept	A CORRELATIVE MICROSCOPY APPROACH TO DELINEATE THE IMPACT OF STRUCTURAL DEFECTS ON THE LOW MINORITY CARRIER LIFETIME IN TIN SULFIDE THIN FILMS	Wednesday	2017/11/15	13:45-14:00	Room3	Amanda Youssef	Massachusetts Institute of Technology
Oral		2We04.3	New Materials and Concept	EFFECT OF SB-DOPED N+-BASi2 SURFACE LAYER ON THE CARRIER TRANSPORT PROPERTIES AND SPECTRAL RESPONSE	Wednesday	2017/11/15	14:00-14:15	Room3	Komomo Kodama	University of Tsukuba
Oral		2We04.4	New Materials and Concept	FORMATION OF A NOVEL MG-P-ZN TERNARY SEMICONDUCTOR: A KEY MATERIAL OF EFFICIENCY ENHANCEMENT IN Zn3P2-BASED SOLAR CELLS	Wednesday	2017/11/15	14:15-14:30	Room3	Ryoji Katsube	Kyoto University
Oral		2We04.5	New Materials and Concept	OPTIMIZATION OF THE RECOMBINATION JUNCTION IN MONOLITHIC TWO-TERMINAL HYBRID CIGS TANDEM DEVICES	Wednesday	2017/11/15	14:30-14:45	Room3	Johan Blanker	Delft University of Technology
Oral	4We06	4We06.1	Organic and Dye-Sensitized Solar Cells II	IMPROVED CONVERSION EFFICIENCY OF 10% FOR SOLID-STATE DYE SENSITIZED SOLAR CELLS USING P-TYPE CUI	Wednesday	2017/11/15	13:30-13:45	Room5	Naohiko Kato	TOYOTA CENTRAL R&D LABS., INC.
Oral		4We06.2	Organic and Dye-Sensitized Solar Cells II	DESIGN OF SEMICONDUCTING POLYMERS TOWARDS HIGHLY THERMALLY STABLE SOLAR CELLS	Wednesday	2017/11/15	13:45-14:00	Room5	Masahiko Saito	Hiroshima University
Oral		4We06.3	Organic and Dye-Sensitized Solar Cells II	Cold Isostatic-Pressured Silver Nanowire Electrodes for Flexible Organic Solar Cells via Room-Temperature Processes	Wednesday	2017/11/15	14:00-14:15	Room5	Ji Hoon Seo	Ulsan National Institute of Science and Technology (UNIST)
Oral		4We06.4	Organic and Dye-Sensitized Solar Cells II	INDUCED CRYSTALLIZATION OF ORGANIC SEMICONDUCTOR IN THIN FILM BY SURFACE SEGREGATED MONOLAYERS	Wednesday	2017/11/15	14:15-14:30	Room5	Seiichiro Izawa	Institute for Molecular Science
Oral		4We06.5	Organic and Dye-Sensitized Solar Cells II	COMPARATIVE COMPUTATIONAL STUDY OF FULLERENE DERIVATIVES: EFFECTS DUE TO FULLERENE SIZE, ADDENDS, AND CRYSTALLINITY ON BANDSTRUCTURE, CHARGE TRANSPORT AND OPTICAL PROPERTIES	Wednesday	2017/11/15	14:30-14:45	Room5	Sergei Manzhos	National University of Singapore

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Area Leading invited	7We08	7We08.1	Module Materials	IMPACT OF PERC SOLAR CELL REAR METALLIZATION ON PV MODULE RELIABILITY	Wednesday	2017/11/15	13:30-13:45	Room6	Marwan Dhamrin	TOYO ALUMINIUM K. K.
Oral		7We08.2	Module Materials	ELECTRICAL IDENTIFICATION OF "AGING SIGNATURE" IN CRYSTALLINE SILICON PHOTOVOLTAIC MODULES EXPOSED IN FIELD FOR LONG-TERM	Wednesday	2017/11/15	13:45-14:00	Room6	Tadanori Tanahashi	National Institute of Advanced Industrial Science and Technology (AIST)
Oral		7We08.3	Module Materials	ADHESION DEGRADATION OF THE METALLIZATION-ENCAPSULANT INTERFACE	Wednesday	2017/11/15	14:00-14:15	Room6	Nick S Bosco	National Renewable Energy Laboratory
Oral		7We08.4	Module Materials	LOSS ANALYSIS AND DESIGN OPTIMIZATION OF SHINGLED BIFACIAL PHOTOVOLTAIC MODULES	Wednesday	2017/11/15	14:15-14:30	Room6	Jai Prakash Singh	National University of Singapore
Oral		7We08.5	Module Materials	CONCEPTS FOR PV MODULES OPTIMIZED FOR DIFFERENT CLIMATIC CONDITIONS: BACKSHEETS AND ENCAPSULANTS	Wednesday	2017/11/15	14:30-14:45	Room6	Gernot Oreski	Polymer Competence Center Leoben
Plenary talks		2ThPI.1	Plenary talks	CIGS SOLAR CELLS WITH ABOVE 22% EFFICIENCY: CHARACTERISTICS AND HIGHLIGHTS	Thursday	2017/11/16	8:30-9:00	Room1+2	Michael Powalla	Zentrum fr Sonnenenergie- und Wasserstoff-Forschung Baden-Wrttemberg
Plenary talks		6ThPI.2	Plenary talks	TBD	Thursday	2017/11/16	9:00-9:30	Room1+2	Harry A. Atwater	
Plenary talks		7ThPI.3	Plenary talks	A PERSPECTIVE ON THE WHOLE LIFE CYCLE OF PV MODULES	Thursday	2017/11/16	9:30-10:00	Room1+2	Donghwan Kim	Korea University
Area Leading invited	1Th01	1Th01.1	Characterization II	CRYSTAL GROWTH AND EVALUATION OF ULTRA-LONG CARRIER LIFETIME CZOCHRALSKI SILICON	Thursday	2017/11/16	10:30-10:45	Room1+2	Yuta Nagai	GlobalWafer Japan
Oral		1Th01.2	Characterization II	IMPROVED UNDERSTANDING OF LIGHT-INDUCED DEGRADATION AND REGENERATION IN MULTICRYSTALLINE SILICON SOLAR CELLS	Thursday	2017/11/16	10:45-11:00	Room1+2	Schmidt Jan	Institute for Solar Energy Research Hamelin (ISFH)
Oral		1Th01.3	Characterization II	EFFECTS OF CARBON CONCENTRATION ON OXYGEN PRECIPITATION THROUGH ANNEALING PROCESS IN N-TYPE CZ-SILICON EVALUATED BY IR LIGHT SCATTERING TOMOGRAPHY	Thursday	2017/11/16	11:00-11:15	Room1+2	Kosuke Kinoshita	Meiji University
Oral		1Th01.4	Characterization II	FAST OPTICAL DETERMINATION OF MICROVOID SIZE IN HYDROGENATED AMORPHOUS SILICON LAYERS BASED ON DATA OBTAINED FROM POSITRON ANNIHILATION SPECTROSCOPY	Thursday	2017/11/16	11:15-11:30	Room1+2	Nobuyuki Matsuki	Kanagawa University
Oral		1Th01.5	Characterization II	EVALUATION OF EFFECTIVE DIFFUSIVITIES AND THREE-DIMENSIONAL SIMULATION OF CARRIER DISTRIBUTION IN PHOSPHORUS-IMPLANTED EMITTER OF SI SOLAR CELL USING SCANNING NONLINEAR DIELECTRIC MICROSCOPY	Thursday	2017/11/16	11:30-11:45	Room1+2	Yasuo cho	Tohoku University
Oral		1Th01.6	Characterization II	XSOLAR-HETERO: CURRENT STATUS OF THE WEB-BASED SOLAR CELL SIMULATION PLATFORM DEVELOPED AT SERIS	Thursday	2017/11/16	11:45-12:00	Room1+2	Rolf Stangl	Solar Energy Research Institute of Singapore (SERIS), National University of Singapore (NUS), Singapore

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Oral	4Th03	4Th03.1	Organic and Dye-Sensitized Solar CellsIII	EFFECTS OF IMPURITY DOPING AT PPM LEVEL IN PHOTOVOLTAIC ORGANIC SEMICONDUCTORS	Thursday	2017/11/16	10:30-10:45	Room3	MASAHIRO HIRAMOTO	Institute for Molecular Science (IMS)
Oral		4Th03.2	Organic and Dye-Sensitized Solar CellsIII	HOLE RELAXATION IN POLYMER:FULLERENE SOLAR CELLS EXAMINED BY MICROWAVE SPECTROSCOPY OF A DEVICE	Thursday	2017/11/16	10:45-11:00	Room3	Akinori Saeki	Osaka University
Oral		4Th03.3	Organic and Dye-Sensitized Solar CellsIII	FABRICATION AND PERFORMANCE OF ORGANIC SOLAR CELLS USING MoO3 / Mg AS CATHODE INTERLAYERS	Thursday	2017/11/16	11:00-11:15	Room3	Hiroshi Kageyama	University of the Ryukyus
Oral		4Th03.4	Organic and Dye-Sensitized Solar CellsIII	CHANGE IN OUTPUT POWER OF ORGANIC PHOTOVOLTAIC MODULES CONNECTED TO ELECTRIC POWER GRID FOR 2 YEARS	Thursday	2017/11/16	11:15-11:30	Room3	Ritsuko Sato	National Institute of Advanced Industrial Science and Technology
Oral		4Th03.5	Organic and Dye-Sensitized Solar CellsIII	PREFERRED ORIENTATION OF C8-BTBT MOLECULES ON INORGANIC SINGLE CRYSTAL SUBSTRATES WITH VARIOUS ORIENTATION	Thursday	2017/11/16	11:30-11:45	Room3	Aye M Moh	Toyohashi University of Technology
Oral		4Th03.6	Organic and Dye-Sensitized Solar CellsIII	STUDY OF DYE-SENSITIZED SOLAR CELLS PERFORMANCE UNDER LOW LIGHT INTENSITIES AND INDOOR-LIGHT CONDITIONS.	Thursday	2017/11/16	11:45-12:00	Room3	Anna B. Nikolskaia	Institute of Biochemical Physics, Russian Academy of Sciences
Oral	6Th05	6Th05.1	Intermediate Band and Hot Carrier Solar Cells	EFFICIENT TWO-STEP PHOTOCURRENT IN INTERMEDIATE BAND SOLAR CELLS USING HIGHLY HOMOGENEOUS INAS/GAAS QUANTUM-DOT SUPERLATTICE	Thursday	2017/11/16	10:30-10:45	Room5	Kazuki Hirao	Kobe University
Oral		6Th05.2	Intermediate Band and Hot Carrier Solar Cells	FULL SPECTRUM QUANTUM EFFICIENCY MAPPING ON TYPE-II QUANTUM NANOSTRUCTURE SOLAR CELLS	Thursday	2017/11/16	10:45-11:00	Room5	Ryo Tamaki	The University of Tokyo
Oral		6Th05.3	Intermediate Band and Hot Carrier Solar Cells	TWO-STEP PHOTON UP-CONVERSION SOLAR CELLS INCORPORATING A VOLTAGE BOOSTER HETERO-INTERFACE	Thursday	2017/11/16	11:00-11:15	Room5	Shigeo Asahi	Kobe University
Oral		6Th05.4	Intermediate Band and Hot Carrier Solar Cells	INFRARED ABSORPTION CHARACTERISTICS IN TWO-STEP PHOTON UP- CONVERSION SOLAR CELLS	Thursday	2017/11/16	11:15-11:30	Room5	Kazuki Kusaki	Kobe University
Oral		6Th05.5	Intermediate Band and Hot Carrier Solar Cells	In(Ga)As / Al0.2GaAs QUANTUM DOT INTERMEDIATE-BAND-ASSISTED HOT-CARRIER SOLAR CELL WITH FABRY-PEROT CAVITY	Thursday	2017/11/16	11:30-11:45	Room5	Benoit Behaghel	Centre de Nanosciences et de Nanotechnologies (C2N-CNRS), Paris-Saclay University
Oral		6Th05.6	Intermediate Band and Hot Carrier Solar Cells	HOT CARRIER COOLING IN BULK CESIUM LEAD HALIDE PEROVSKITE AND THE QUANTUM DOTS	Thursday	2017/11/16	11:45-12:00	Room5	Qing Shen	The University of Electro-Communications

Talk category	Session Code	Personal Code	Session Title	Presentation Title	Date1	Date2	Time (Presentation)	Room	Presenter	Affiliation
Oral	1Th02	1Th02.1	Cell Technology (3) (Heterojunction)	TOWARDS INDUSTRIALIZATION OF HETEROJUNCTION WITH THIN AND ULTRA- THIN WAFERS	Thursday	2017/11/16	13:30-13:45	Room1+2	Samuel HARRISON	CEA-LITEN
Oral		1Th02.2	Cell Technology (3) (Heterojunction)	INFLUENCE OF THE THICKNESSES OF THE AMORPHOUS SILICON LAYERS ON THE EFFICIENCY OF SILICON HETEROJUNCTION SOLAR CELLS FOR VARIOUS CLIMATES	Thursday	2017/11/16	13:45-14:00	Room1+2	Jean Cattin	Ecole Polytechnique Fdrale de Lausanne
Oral		1Th02.3	Cell Technology (3) (Heterojunction)	"FLASH" FIRED HOLE SELECTIVE SILICON-BASED HETEROJUNCTION CONTACTS	Thursday	2017/11/16	14:00-14:15	Room1+2	Andrea Ingenito	cole Polytechnique Fdrale de Lausanne (EPFL), Institute of Microengineering (IMT)
Oral		1Th02.4	Cell Technology (3) (Heterojunction)	PECVD LAYERS FOR HIGH AND LOW TEMPERATURE IMPROVED INDUSTRIAL SOLAR CELL PROCESSES	Thursday	2017/11/16	14:15-14:30	Room1+2	Christophe Alleb	CSEM
Oral		1Th02.5	Cell Technology (3) (Heterojunction)	REAR-EMITTER SILICON HETEROJUNCTION SOLAR CELLS: ADVANCED FRONT-CONTACT MATERIALS FOR HIGH-EFFICIENCY INDUSTRIAL CELLS	Thursday	2017/11/16	14:30-14:45	Room1+2	Bernd Stannowski	Helmholtz-Zentrum Berlin
Oral		1Th02.6	Cell Technology (3) (Heterojunction)	IMPACT OF WAFER THICKNESS ON A-SI:H/C-SI HETEROJUNCTION SOLAR CELLS	Thursday	2017/11/16	14:45-15:00	Room1+2	Hitoshi Sai	AIST
Oral		1Th02.7	Cell Technology (3) (Heterojunction)	>23% SILICON HETEROJUNCTION SOLAR CELLS IN MEYER BURGER' S DEMO LINE: RESULTS OF PILOT PRODUCTION ON MASS PRODUCTION TOOLS	Thursday	2017/11/16	15:00-15:15	Room1+2	Jun Zhao	Meyer Burger (Germany) AG
Oral		1Th02.8	Cell Technology (3) (Heterojunction)	FABRICATION OF SILICON HETEROJUNCTION SOLAR CELLS WITH BARIUM DISILICIDE THIN FILMS PREPARED BY THERMAL EVAPORATION	Thursday	2017/11/16	15:15-15:30	Room1+2	Kazuma Takahashi	Nagoya University
Invited	2Th04	2Th04.1	CIGS Devices I	DEVELOPMENTS IN ALKALI TREATED CIGS SOLAR CELLS: FLEXIBLE AND TANDEM DEVICES WITH PEROVSKITE	Thursday	2017/11/16	13:30-14:00	Room3	Ayodhya N. Tiwari	Laboratory for Thin Films and Photovoltaics, Empa - Swiss Federal Laboratories for Materials Science and Technology
Oral		2Th04.2	CIGS Devices I	IMPACTS OF LONG-TERM HEAT-LIGHT SOAKING ON CIGS SOLAR CELLS WITH KF POST-DEPOSITION TREATMENT	Thursday	2017/11/16	14:00-14:15	Room3	Jiro Nishinaga	AIST
Oral		2Th04.3	CIGS Devices I	INVESTIGACION ON ALKALI-TREATMENT MECHANISMS FOR IMPROVING ENERGY CONVERSION EFFICIENCY OF Cu(In, Ga) (Se, S)2 MODULES	Thursday	2017/11/16	14:15-14:30	Room3	Jyh-Lih Wu	Atsugi Research Center, Solar Frontier K.K., Japan
Oral		2Th04.4	CIGS Devices I	EFFECTS OF RUBIDIUM FLUORIDE POST DEPOSITION TREATMENTS ON QUATERNARY CIGS AND TERNARY CGS THIN FILM SOLAR CELLS	Thursday	2017/11/16	14:30-14:45	Room3	Shogo Ishizuka	National Institute of Advanced Industrial Science and Technology
Oral		2Th04.5	CIGS Devices I	INVESTIGATING THE PROPERTIES OF RbF-TREATED CIGS THIN-FILMS AND RESULTING DEVICES	Thursday	2017/11/16	14:45-15:00	Room3	Tim Kodalle	PVcomB/Helmholtz-Zentrum Berlin fr Materialien und Energie, Germany
Oral		2Th04.6	CIGS Devices I	COMPARATIVE STUDY OF HEAT LIGHT SOAKING ON MF (M= K, Cs) TREATED CIGS SOLAR CELLS WITH CDS BUFFER LAYER	Thursday	2017/11/16	15:00-15:15	Room3	Ishwor Khatri	Tokyo University of Science
Oral		2Th04.7	CIGS Devices I	EXPERIMENTAL INVESTIGATION OF Cd- AND Zn-DIFFUSION EFFECT FOR Cu(In, Ga)Se2 SOLAR CELLS WITH Cu-POOR LAYER	Thursday	2017/11/16	15:15-15:30	Room3	Hiroki Sugiura	Tokyo Institute of Technology

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Invited	6Th06	6Th06.1	Quantum Dot Solar Cells and Emerging Technologies	THE ROLE OF RATCHETS IN PHOTOVOLTAICS	Thursday	2017/11/16	13:30-14:00	Room5	Ned Ekins-Daukes	University of New South Wales
Oral		6Th06.2	Quantum Dot Solar Cells and Emerging Technologies	Optimizing the Front Contacts of PbSe Quantum Dot Solar Cell with Additional Au Grids	Thursday	2017/11/16	14:00-14:15	Room5	Zihan Chen	University of New South Wales
Oral		6Th06.3	Quantum Dot Solar Cells and Emerging Technologies	PASSIVATING LEAD SELENIDE QUANTUM DOT THIN FILM SOLAR CELLS WITH INORGANIC PEROVSKITE NANOPARTICLES	Thursday	2017/11/16	14:15-14:30	Room5	Zhilong Zhang	The University of New South Wales
Oral		6Th06.4	Quantum Dot Solar Cells and Emerging Technologies	SURFACE AND ENERGY BAND ENGINEERING OF ENVIRONMENTALLY FRIENDLY QUANTUM DOTS FOR MULTIPLE EXCITONS SOLAR CELLS	Thursday	2017/11/16	14:30-14:45	Room5	Vladimir Svrcek	National Institute of Advanced Industrial Science and Technology
Oral		6Th06.5	Quantum Dot Solar Cells and Emerging Technologies	ENHANCEMENT ON PHOTOVOLTAIC PROPERTIES OF HEAVILY PHOSPHORUS-DOPED SUPER-HIGH DENSITY SI QUANTUM DOT THIN FILM BY S PIN-ON METHOD	Thursday	2017/11/16	14:45-15:00	Room5	Pin-Ruei Huang	National Chiao Tung University
Oral		6Th06.6	Quantum Dot Solar Cells and Emerging Technologies	LOOKING AT THE TUNNEL RECOMBINATION JUNCTIONS OF AN A-SI:H/NC-SI:H/SHJ SOLAR CELL FOR WATER SPLITTING APPLICATIONS	Thursday	2017/11/16	15:00-15:15	Room5	Paula Perez-Rodriguez	Delft University of Technology
Oral		6Th06.7	Quantum Dot Solar Cells and Emerging Technologies	NONEQUILIBRIUM THEORY ON THE CONVERSION EFFICIENCY LIMIT OF SOLAR CELLS INCLUDING FINITE THERMALIZATION AND EXTRACTION TIME	Thursday	2017/11/16	15:15-15:30	Room5	Kenji Kamide	AIST
Invited	1Fr01	1Fr01.1	Thin Film Technologies	WYSIPS® CRYSTAL TECHNOLOGY: AN INVISIBLE ENERGY HARVESTING SOLUTION FOR LOW POWER OLED DISPLAYS	Friday	2017/11/17	8:30-9:00	Room1+2	Barthold Veenendaal	Sunparther Technologies
Oral		1Fr01.2	Thin Film Technologies	Silicon-based Multi-junction Solar Cells	Friday	2017/11/17	9:00-9:15	Room1+2	Xiaodan Zhang	Nankai University
Oral		1Fr01.3	Thin Film Technologies	MINI-MODULES BASED ON THIN LIQUID-PHASE CRYSTALLIZED SILICON ON GLASS	Friday	2017/11/17	9:15-9:30	Room1+2	Stefan Gall	Helmholtz-Zentrum Berlin, Institut für Silizium-Photovoltaik, Germany
Oral		1Fr01.4	Thin Film Technologies	HYDROGEN PLASMA ETCHING OF RCA CHEMICAL OXIDE AND ITS USE IN HETEROJUNCTION SOLAR CELL APPLICATIONS	Friday	2017/11/17	9:30-9:45	Room1+2	JIA GE	Solar Energy Research Institute of Singapore
Oral		1Fr01.5	Thin Film Technologies	INFLUENCE OF DC POWER ON THE PROPERTIES OF i-a-Si:H PASSIVATION LAYER DEPOSITED BY FACING TARGET SPUTTERING	Friday	2017/11/17	9:45-10:00	Room1+2	Yuta Shiratori	Tokyo Institute of Technology
Oral	2Fr03	2Fr03.1	Materials Characterization	ELECTRONIC DEFECTS IN CIGSe: A COMPREHENSIVE MODEL	Friday	2017/11/17	8:30-8:45	Room3	Susanne Siebentritt	University of Luxembourg
Oral		2Fr03.2	Materials Characterization	IMPACT OF KF-POST DEPOSITION TREATMENT ON SURFACE ELECTRONIC STRUCTURE OF CIGS _{Se} AND CIGSe ABSORBERS	Friday	2017/11/17	8:45-9:00	Room3	Norio Terada	Kagoshima University
Oral		2Fr03.3	Materials Characterization	DEEP LEVEL EMISSION IN POLYCRYSTALLINE CUGASE2 THIN-FILMS OBSERVED BY MICRO-PHOTOLUMINESCENCE	Friday	2017/11/17	9:00-9:15	Room3	Muhammad M Islam	University of Tsukuba
Oral		2Fr03.4	Materials Characterization	FIRST PRINCIPLES STUDIES ON EFFECTS OF LIGHT AND HEAVY ALKALI ELEMENTS IN Cu(In,Ga)Se ₂ SOLAR CELLS	Friday	2017/11/17	9:15-9:30	Room3	Tsuyoshi Maeda	Ryukoku University
Oral		2Fr03.5	Materials Characterization	BAND OFFSET AT THE INTERFACE BETWEEN CDS BUFFER AND CZTGSE ABSORBER LAYER	Friday	2017/11/17	9:30-9:45	Room3	Takehiko Nagai	National Institute of Advanced Industrial Science and Technology (AIST)
Oral		2Fr03.6	Materials Characterization	OPTICAL PROPERTIES OF Cu ₂ ZnGeSe ₄ WITH VERY LOW URBACH ENERGY: COMPARISON WITH Cu-Se-BASED MATERIALS	Friday	2017/11/17	9:45-10:00	Room3	Shohei Fujimoto	Gifu University

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Invited	10Fr05	10Fr05.1	PV Deployment and Sustainability	CHANCES AND CHALLENGES FOR PHOTOVOLTAICS IN EUROPE AFTER THE FEED-IN-TARIF SCHEMES	Friday	2017/11/17	8:30-9:00	Room5	Arnulf Jaeger Woldaw	EC JRC
Oral		10Fr05.2	PV Deployment and Sustainability	Innovative Framework Model for Post-Subsidy PV Market Forecast	Friday	2017/11/17	9:00-9:15	Room5	Gatan Masson	Becquerel Institute
Oral		10Fr05.3	PV Deployment and Sustainability	TBD	Friday	2017/11/17	9:15-9:30	Room5	TBD	TBD
Oral		10Fr05.4	PV Deployment and Sustainability	ROSPETS OF PV DEPLOYMENT IN JAPAN TOWARDS 2030	Friday	2017/11/17	9:30-9:45	Room5	Koichi SUGIBUCHI	RTS Corporation
Oral		10Fr05.5	PV Deployment and Sustainability	PV RECYCLING SIMPLY WITH LIGHT: NEW, INNOVATIVE AND ECONOMIC	Friday	2017/11/17	9:45-10:00	Room5	Wolfram J. Palitzsch	Losser Chemie GmbH
Oral	7Fr07	7Fr07.1	Potential-Induced Degradation	JSC AND VOC REDUCTIONS IN SILICON HETEROJUNCTION PHOTOVOLTAIC MODULES BY POTENTIAL-INDUCED DEGRADATION TESTS	Friday	2017/11/17	8:30-8:45	Room6	Keisuke Ohdaira	Japan Advanced Institute of Science and Technology
Oral		7Fr07.2	Potential-Induced Degradation	SODIUM DISTRIBUTIONS AT THE SURFACE OF SILICON NITRIDE FILM AFTER POTENTIAL INDUCED DEGRADATION TEST AND RECOVERY TEST OF PV MODULES	Friday	2017/11/17	8:45-9:00	Room6	Fumitaka Ohashi	Gifu University
Oral		7Fr07.3	Potential-Induced Degradation	INFLUENCE OF BIAS APPLICATION ON POTENTIAL INDUCED DEGRADATION FOR CRYSTALLINE SILICON PHOTOVOLTAIC MODULES	Friday	2017/11/17	9:00-9:15	Room6	Sachiko Jonai	National Institute of Advanced Industrial Science and Technology (AIST)
Oral		7Fr07.4	Potential-Induced Degradation	ESTIMATING THE PERFORMANCE OF PID-INFLUENCED PV MODULES FROM QUANTITATIVE ELECTROLUMINESCENCE MEASUREMENTS	Friday	2017/11/17	9:15-9:30	Room6	Karl G. Bedrich	NUS Singapore
Oral		7Fr07.5	Potential-Induced Degradation	Carrier Dynamics in the Potentially Induce Degraded Photovoltaic Modules	Friday	2017/11/17	9:30-9:45	Room6	Mohammad Aminul Islam	Nara Institute of Science and Technology
Oral		7Fr07.6	Potential-Induced Degradation	EFFECTS OF LIGHT IRRADIATION DURING POTENTIAL-INDUCED DEGRADATION TESTS FOR P-TYPE CRYSTALLINE SILICON PHOTOVOLTAIC MODULES	Friday	2017/11/17	9:45-10:00	Room6	Yukiko Hara	National Institute of Advanced Industrial Science and Technology
Oral	1Fr02	1Fr02.1	Carrier Selective Contact	ANALYSIS OF WORKFUNCTION OF MOOX AT MOOX/SIO2 INTERFACE BY CAPACITANCE-VOLTAGE MEASUREMENT	Friday	2017/11/17	10:30-10:45	Room1+2	Takefumi Kamioka	Toyota Technological Institute
Oral		1Fr02.2	Carrier Selective Contact	TUNABLE ELECTRON AND HOLE SELECTIVITY OF TITANIUM OXIDE BASED CONTACTS FOR CRYSTALLINE SILICON SOLAR CELLS	Friday	2017/11/17	10:45-11:00	Room1+2	Takuya Matsui	Fraunhofer ISE
Oral		1Fr02.3	Carrier Selective Contact	POLY-SI(O)X PASSIVATING CONTACTS FOR MINIMIZING PARASITIC ABSORPTION IN IBC C-SI CELLS	Friday	2017/11/17	11:00-11:15	Room1+2	Guangtao Yang	Delft University of Technology
Oral		1Fr02.4	Carrier Selective Contact	PASSIVATING CONTACTS BASED ON LAYERS OF SILICON-OXIDE AND CARBIDE FOR CRYSTALLINE SILICON SOLAR CELLS	Friday	2017/11/17	11:15-11:30	Room1+2	Franz-Josef Haug	Ecole Polytechnique Fdrale de Lausanne
Oral		1Fr02.5	Carrier Selective Contact	INDUSTRIALLY FEASIBLE, DOPANT-FREE, CARRIER-SELECTIVE PASSIVATING CONTACTS FOR HIGH-EFFICIENCY CRYSTALLINE SILICON SOLAR CELLS	Friday	2017/11/17	11:30-11:45	Room1+2	XINBO YANG	Australian National University
Oral		1Fr02.6	Carrier Selective Contact	EMBEDDED METAL ELECTRODE FOR HIGH-EFFICIENCY PEDOT:PSS/SI NANOWIRE HYBRID SOLAR CELLS	Friday	2017/11/17	11:45-12:00	Room1+2	Deokjae Choi	Ulsan National Institute of Science and Technology (UNIST)

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Area Leading invited	2Fr04	2Fr04.1	CIGS Devices II	DEVICE STRUCTURE AND PROCESS CONTROL FOR CIGS SOLAR CELLS ON FLEXIBLE SUBSTRATE	Friday	2017/11/17	10:30-10:45	Room3	Jae Ho Yun	KIER
Oral		2Fr04.2	CIGS Devices II	AMORPHOUS IN2O3-BASED FRONT CONTACT LAYERS FOR CU(IN,GA)SE2 SOLAR CELLS	Friday	2017/11/17	10:45-11:00	Room3	Takashi Koida	National Institute of Advanced Industrial Science and Technology
Oral		2Fr04.3	CIGS Devices II	DOPING MANIPULATED AZO AS FRONT TCO BY USING SERIAL CO-SPUTTERING FOR CIGS SOLAR CELLS	Friday	2017/11/17	11:00-11:15	Room3	Stefan Krner	Technical University of Berlin
Oral		2Fr04.4	CIGS Devices II	EFFECTS OF SUBSTRATE TEMPERATURE ON CONTROLLING INTERFACIAL QUALITY OF Cu(In,Ga)Se2 SOLAR CELLS BY Se ANNEALING	Friday	2017/11/17	11:15-11:30	Room3	Akihide Kaneko	Tokyo Institute of Technology
Oral		2Fr04.5	CIGS Devices II	OPTICAL AND RECOMBINATION LOSSES IN CIGSe, CZTSSe AND CdTe SOLAR CELLS DETERMINED BY GLOBAL EQE ANALYSIS METHOD	Friday	2017/11/17	11:30-11:45	Room3	Hiroyuki Fujiwara	Gifu University
Oral		2Fr04.6	CIGS Devices II	QUASI FERMI LEVEL SPLITTING OF CU-RICH AND CU-POOR CIS ABSORBER LAYERS	Friday	2017/11/17	11:45-12:00	Room3	Alberto Lomuscio	University of Luxembourg
Invited	3Fr06	3Fr06.1	Concentrator PV	LUMINESCENT SOLAR CONCENTRATOR DESIGNS	Friday	2017/11/17	10:30-11:00	Room5	Angele Reinders	University of Twente
Area Leading invited		3Fr06.2	Concentrator PV	CPV and storage battery	Friday	2017/11/17	11:00-11:15	Room5	Takashi Iwasaki	Sumitomo Electric
Oral		3Fr06.3	Concentrator PV	CHARACTERIZATION OF III-V ON SI TANDEM SOLAR CELLS UNDER LOW CONCENTRATION USING A PULSED SOLAR SIMULATOR AND COMPONENT CELLS	Friday	2017/11/17	11:15-11:30	Room5	Elias Veinberg-Vidal	CEA, LETI
Oral		3Fr06.4	Concentrator PV	DEVELOPMENT OF DUAL AXIS MICROTRACKING SYSTEM FOR CONCENTRATOR PHOTOVOLTAIC	Friday	2017/11/17	11:30-11:45	Room5	Masakazu Nakatani	Sun Marion Co., Ltd.
Oral		3Fr06.5	Concentrator PV	SOLAR POWERED CAR BY STATIC CONCENTRATOR PHOTOVOLTAICS	Friday	2017/11/17	11:45-12:00	Room5	Taizo Masuda	Toyota motor corporation
Area Leading invited	7Fr08	7Fr08.1	Module Reliability and Characterization	NEW CHALLENGE ON MECHANICAL LOAD TEST FOR MODULE CERTIFICATION	Friday	2017/11/17	10:30-10:45	Room6	Hung-Sen Wu	ITRI
Oral		7Fr08.2	Module Reliability and Characterization	ACCELERATION TEST OF COMBINED STRESSES FOR FLEXIBLE SOLAR MODULES	Friday	2017/11/17	10:45-11:00	Room6	Akihiro Takano	F-WAVE Company Limited
Oral		7Fr08.3	Module Reliability and Characterization	DOES CURRENT INJECTION DURING ENVIRONMENTAL STRESS TESTING ACCELERATE THE TARGET DEGRADATION MECHANISMS?	Friday	2017/11/17	11:00-11:15	Room6	Jiang Zhu	Loughborough University
Oral		7Fr08.4	Module Reliability and Characterization	DETECTION OF PREMONITORY SYMPTOM IN DEFECTIVE MODULES BY DARK I-V CHARACTERISTICS WITH EL DIAGNOSIS	Friday	2017/11/17	11:15-11:30	Room6	Takashi Fuyuki	Active Solar Innovation, Inc.
Oral		7Fr08.5	Module Reliability and Characterization	IMPROVEMENT ON THE VERIFICATION METHOD OF ELECTROLUMINESCENCE IMAGING OF THE DEGRADED PV MODULE	Friday	2017/11/17	11:30-11:45	Room6	Panom Parinya	King Mongkut' s University of Technology Thonburi
Oral		7Fr08.6	Module Reliability and Characterization	OUTDOOR PHOTOLUMINESCENCE MEASUREMENTS OF PHOTOVOLTAIC MODULES UNDER FULL SUNLIGHT ILLUMINATION	Friday	2017/11/17	11:45-12:00	Room6	Raghavi Bhoopathy	University of New South Wales, Sydney, Australia