

EST	UTC	JST	2024 April 23	2024 April 24	2024 April 25	2024 April 26
19:00	0:00	9:00				
19:15	0:15	9:15				
19:30	0:30	9:30				
19:45	0:45	9:45		[OWPT3-01(Special)] The First Demonstration of Laser Power Beaming in Orbit Paul Jaffe1, Elias Wilcoski1, Chris DePuma1, Ellen Wagner1, David Chen2, James Baughman3 (1. U.S. Naval Research Laboratory, 2. University of Virginia, 3. GulfView Research, Inc.)	[OWPT5-01(Invited)] Power-over-Fiber Applied for In-Flight Entertainment System *Joao Batista Rosolem1, João Roberto Nogueira Júnior1, Fábio Renato Bassan1, Carla Cristiane Furoni1, Alexandre Barbosa dos Santos 2, Leonardo Martins Wolinger 2, Pedro Jun Nagano 2, José Juliano Fioretto 2, Luiz Augusto Rodrigues Neresky 2, Marcelo Prado de Oliveira 2 (1. CPQD - Research and Development Center in Telecommunications, 2. Embratel)	[OWPT9-01(Invited)] PoF-based Wireless and Optical Convergent Access Towards 6G *Arismar Cerqueira Sodré Junior1,2, Leticia C Souza1 (1. National Institute of Telecommunications (Inatel), 2. Instituto Brasileiro de Tecnologia e Inovação (IBTI))
20:00	1:00	10:00		[OWPT3-02] Design of the cell connection configuration of photovoltaic panel using an optimization algorithm *Natsuha Ochiai1, Kazuto Kashiwakura1, Yohel Toriumi1, Yukiko Suzuki1, Toru Tanaka1 (1. NTT Space Environment and Energy Laboratories)	[OWPT5-02] PV Cell-Based Divider for Power-Over-Fiber Using Double-Clad Fibers *Yu Miyakawa1, Yuya Yaguchi1, Shih-Chun Lin2, Suresh Subramanian3, Hiroshi Hasegawa4, Motoharu Matsuura1 (1. University of Electro-Communications, 2. North Carolina State University, 3. George Washington University, 4. Nagoya University)	[OWPT9-02] Optically Powered Hybrid 5G System Integrating A-RoF/FSO/VLC Technologies *Leticia Carneiro de Souza1, Tomás Powell Villena Andrade1, Felipe Batista Faro Pinto1, Luis Gustavo Shvez2, Francisco Martins Portelina Junior2, Rodnei Cordeiro3, Evandro Lee Anderson3, Arismar Cerqueira Sodré Junior1 (1. Laboratory WOCA, National Institute of Telecommunications, Inatel, 2. Inatel Competence Center (ICC), National Institute of Telecommunications, Inatel, 3. MPTCable)
20:15	1:15	10:15		[OWPT3-03] Laser power beaming: flexible lunar power distribution Mitchell A. Kirby1, Joseph A. Summers1, Jonathan J. Gort1, Drew Cardwell1, Tom Nugent Jr.1 (1. PowerLight Technologies) Coffeetbreak	[OWPT5-03] Backscattering-Based and Crosstalk-Based Monitoring Techniques for Power over Fiber Signals in Spatial Division Multiplexed Links. *Rubén Altuna Pérez1, Javier Barco Álvarez1, Carmen Vázquez García1 (1. Universidad Carlos III de Madrid)	[OWPT9-03] Scaling Requirements for Eye-Safe Optical Wireless Power Transmission *Dominic Andrew Duffy1,2, Stephen John Sweeney1,2 (1. University of Glasgow, 2. ZINIR Ltd.)
20:30	1:30	10:30		[OWPT4-01(Invited)] Self-Power-Feeding Bi-directional Data Transmission using 125-µm Cladding Diameter 4-core Fiber *Masaki Wada1, Kanji Kurakawa2, Takashi Matsui1, Hiroaki Iida1, Kazuhiko Nakajima1 (1. NTT Corporation, 2. Kitami Institute of Technology)	[OWPT6-01(Invited)] Optical Wireless Power Transmission for Moving Object using Image Recognition *Takeo Maruyama1 (1. Kanazawa University)	[OWPT10-01] Performance Evaluation of Optically Powered High-Power Photo Diodes *Yuki Gomi1, Souya Sugura1, Mizuki Fukuyama1, Kai Murakami1, Motoharu Matsuura1 (1. University of Electro-Communications)
21:00	2:00	11:00		[OWPT4-02] Evaluation of Nonlinear Effects in Hollow-Core Fibers for High-Power Transmission *Souya Sugura1, Kai Murakami1, Hironori Yamaji1, Motoharu Matsuura1, Takeshi Takag2, Kazunori Mukasa2 (1. University of Electro-Communications, 2. Furukawa Electric)	[OWPT6-02] Integrative Dynamic Safety System for OWPT: Real-Time Velocity and Distance-Based Safety Control *CHEN ZUO1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology)	[OWPT10-02] Continuous driving of small mobility vehicles with dynamic charging by optical wireless power transmission on a course including non-irradiation sections *Yusuke Suda1, Mahiro Kawakami1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology)
21:15	2:15	11:15		[OWPT4-03] Simultaneous Data and Power Transmission Using a Hollow-Core Fiber for Passive Optical Network *Hironori Yamaji1, Kai Murakami1, Souya Sugura1, Motoharu Matsuura1, Takeshi Takag2, Kazunori Mukasa2 (1. University of Electro-Communications, 2. Furukawa Electric)	[OWPT6-03] LED Based Automatable Optical Wireless Power Transmission for Large Size Beam 2D Aiming *Mingzhi Zhao1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology)	Closing Remarks
22:00	3:00	12:00		Lunch	Lunch	
23:30	4:30	13:30		Poster Presentation [OWPTP-01] Successive Positioning and Attitude Determination of Solar Cell by Differential Absorption Image Sensor for OWPT *Kaoru Asaba1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology) [OWPTP-02] Improvement of communication quality by adaptive optics using Convolutional Neural Network *Morami Teranishi1, Kayo Ogawa1 (1. Japan Women's University) [OWPTP-03] Design and Analysis of Optical Transmitter and Receiver Modules for Inter-Satellite Link Application Kuan-Ming Cheng1, Tsu-Hsin Wu1, Teng-Yao Yang1, Chun-Yen ChLin1, Lan-Yin Chen1, Yu-Ting Lai1, *Chien-Hung Yeh1, Ching-Wei Chen2, Liang-Tang Chen2 (1. Fang Chia University, 2. Taiwan Space Agency (TASA)) [OWPTP-04] Power over Fiber Based on Wavelength Division Multiplexing in Multimode Fibers *Yao Guo1, Yuamei Liu1, Ziyang Xiao2, Dehus Chen1, Zhiguo Zhang1 (1. State Key Lab of Information Photonics and Optical Communications, Beijing University of Posts and Telecommunications, 2. State Grid Jiangxi Information and Telecommunication Branch) [OWPTP-05] Efficient Power Supply Sequencing Algorithm and Experimental Validation for Numerous Small IoT terminals using OWPT Takuto Mizutani1, *Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology) [OWPTP-06] Beam Shape Control System for Wide Angle Oblique Beam Irradiation in Optical Wireless Power Transmission *Kenji Moriama1, Kaoru Asaba1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology) [OWPTP-07] Extending the Flight Range of OWPT Dynamic Charged Micro-drones Based on Effective Use of Optical Beams *Tomoya Watanabe1, Takuo Nagasaki1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology) [OWPTP-08] Laser irradiation position dependence of conversion efficiency of CIGS solar cells *Shuntaro Fujii1, Shunsuke Shibui1, Moeika Chiba1, Hironori Komaki2, Hiroaki Nakamura2, Hiroshi Tomita2, Takato Ishiuchi2, Shiro Uchida1 (1. Chiba Institute of Technology, 2. Idemitsu Kosan Co., Ltd.) [OWPTP-09] Improvement of Power Conversion Efficiency under High Intensity Laser Irradiation Using Thick Gold Plating *Takaya Oshimo1, Yuga Motomura1, Yukiko Suzuki2, Natsuha Ochiai2, Kazuto Kashiwakura2, Yohel Toriumi2, Kensuke Nishioka1, Masakazu Arai1 (1. Univ. of Miyazaki, 2. NTT Space Environment and Energy Laboratories)	[OWPT7-01(Invited)] C-band Multi-Junction Photonic Power Converters: AI Techniques for Optimized Designs and Role of Luminescent Coupling *Karin Hinzler1, Robert F. H. Hunter1, D. Paige Wilson1, Gavin P. Forcade1, Meghan N. Beattie1, Christopher E. Veldvliet1, Oliver Höhn2, Louis-Philippe St-Arnaud1, David Lackner2, Yurii Grinberg3, Mathieu de Lafontaine1, Carmine Pellegrino2, Jacob J. Krich1, Alexandre W. Walker3, Henning Helmers2 (1. University of Ottawa, 2. Fraunhofer Institute for Solar Energy Systems ISE, 3. National Research Council of Canada) [OWPT7-02] High Efficiency (> 40%) InGaAsP Photovoltaic Device for 1.06-µm-range Laser Power Transmission Yuga Motomura1, Takaya Oshimo1, Masahiro Koga2, Koukei Watanabe2, Shiro Uchida2, Kouichi Akahane3, Yukiko Suzuki4, Natsuha Ochiai4, Kazuto Kashiwakura4, Yohel Toriumi4, Kensuke Nishioka1, *Masakazu Arai1 (1. University of Miyazaki, 2. Chiba Institute of Technology, 3. National Institute of Information and Communications Technology, 4. NTT Space Environment and Energy Laboratories) [OWPT7-03] Photoelectric conversion characteristics of CIGS solar cells under 1064nm laser light irradiation *Moeika Chiba1, Shunsuke Shibui1, Shuntaro Fujii1, Hironori Komaki2, Hiroaki Nakamura2, Hiroshi Tomita2, Takato Ishiuchi2, Shiro Uchida1 (1. Chiba Institute of Technology, 2. Idemitsu Kosan) [OWPT7-04] 3-junction InGaAs solar cells for optical wireless power transmission *Reo Aoyama1, Shunsuke Shibui1, Koukei Watanabe1, Junichi Suzuki1, Ryota Wariyagat1, Kouichi Akahane2, Shiro Uchida1 (1. Chiba Institute of Technology, 2. National Institute of Information and Communications Technology)	[OWPT10-03] Improving Efficiency Factors for Laser Power Beaming *Tom Nugent, Jr.1, Jonathan Gort1, Drew Cardwell1 (1. PowerLight Technologies)
23:45	4:45	13:45	Opening Remarks			
0:00	5:00	14:00	[OWPT1-01(Penary)] Power over Fiber as enabler in 6G optical fronthaul *Carmen Vázquez1, Rubén Altuna1, Javier Barco1, David Sánchez-Montero1 (1. Universidad Carlos III de Madrid)			
0:15	5:15	14:15				
0:30	5:30	14:30	[OWPT1-02(Invited)] High-irradiance photoconversion using multijunction photovoltaic devices *John F. Geisz1, Daniel J. Friedman1, Myles A. Steiner1, Ryan M. France1, Kevin L. Schulte1, Sarah Collins1, Darin Meeker1 (1. National Renewable Energy Laboratory)			
0:45	5:45	14:45				
1:00	6:00	15:00	Coffeetbreak			
1:30	6:30	15:30	[OWPT2-01] Multi-junction photovoltaic laser power converter product developments Simon Fafard1, *Denis Masson1 (1. Broadcom) [OWPT2-02] Temperature Measurements of Laser Power Converters using Luminescence *Drew W Cardwell1 (1. PowerLight Technologies)	[OWPT8-01(Invited)] Near-UV photoelectric transducers for OWPT systems based on GaInN multiple quantum-well structures *Makoto Miyoshi1 (1. Nagoya Institute of Technology)		
1:45	6:45	15:45				
2:00	7:00	16:00	[OWPT2-03] 30 Years of Power by Light Culminate in 10 W LPCs Bound to Shape the Future *Jan Gustav Werthen1, Ta-Chung Wu1, James Q Liu1 (1. Broadcom)	[OWPT8-02] Study of Laser Power Converters based on GaN for High Power Applications *Javier F. Lozano1, Natalia Seco1, Enrique Comesaña2, Florencia Almonacid3, Eduardo F. Fernández3, Antonio García-Loureiro1 (1. Centro Singular de Investigación en Tecnoloxías de Información (CITIUS), Departamento de Electrónica e Computación, Universidade de Santiago de Compostela, 2. Escola Politécnica Superior de Enxeñaría, Campus Terra, Universidade de Santiago de Compostela, Lugo, 3. Advances in Photovoltaic Technology (AdPVTech), CEACTEMA, University of Jaén)		
2:15	7:15	16:15	[OWPT2-04] Characterizing OWPT Efficiency of An LED Row Transmitter Under Misalignments With The Receiver *Dinh Hoa Nguyen1 (1. Kyushu University)	OPIC Plenary Session	[OWPT8-03] Incident Laser Wavelength dependence of temperature characteristics of InGaIn solar cells for optical wireless power transmission *Junichi Suzuki1, Shunki Hayashi1, Shunsuke Shibui1, Masahiro Koga1, Ryusei Takahashi1, Reo Aoyama1, Takahiro Noguchi1, Takahiro Fujisawa2, Toshihiko Fukamachi3, Koichi Naniwa3, Shiori Iida, Ruka Watanabe4, Makoto Miyoshi2, Tetsuya Takeuchi4, Satoshi Kamiyama4, Shiro Uchida1 (1. Chiba Institute of Technology, 2. Nagoya Institute of Technology, 3. Ushio Inc., 4. Meijo University)	
2:30	7:30	16:30	[OWPT2-05(Invited)] Products and Future Prospects of High-Power Fiber Lasers *Masoud Harooni1 (1. IPG Photonics)		[OWPT8-04] Effective placement methods of light source infrastructure for dynamic EV charging using optical wireless power transmission *Mahiro Kawakami1, Yusuke Suda1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology)	
2:45	7:45	16:45			[OWPT8-05] Suppression of water wave effects in blue laser-based underwater-to-air OWPT by a fly-eye lens system *Tatsuhisa Koizumi1, Yamato Takahashi1, Tomoyuki Miyamoto1 (1. Tokyo Institute of Technology)	
3:00	8:00	17:00				