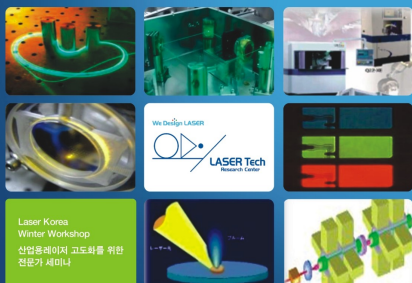


2024 (14th) Laser Korea Congress



| 일자 : 2024. 1. 10.(수) ~ 1. 12.(금)
 | 장소 : 김대중컨벤션센터 4층 컨벤션홀
 | 주관 : 한국레이저가공학회, 나노융합산업연구조합
 | 후원 : OSK 한국광학학회 Optical Society of Korea, 광주광역시관광공사 광주광역시관광진흥위원회 광주광역시관광진흥위원회, 산업용레이저기업협의회



Program

(10th Jan.) Laser Safety Session

- 13:00-14:00 Registration and Exhibition (14:00-17:00)
- 14:00-14:30 Laser Safety Standards and Laser Hazard Analysis (Dr. Swook Hann, KOPTI, Korea)
- 14:30-15:00 Laser Safety talked by Dermatologist (Prof. Jibeom Lee, Chonnam National University Hospital, Korea)
- 15:00-16:00 Exhibition
- 16:00-16:30 Laser Safety talked by Ophthalmologist (Prof. CK Joo, CK St. Mary's Eye Center, Korea)
- 16:30-17:00 Laser Safety in Clinic (JM Yoo, Director of External Cooperation in Laser Medical Systems, SNU Bundang Hospital, Korea)
- 18:00-20:00 Welcome Reception (Invited Speakers and Chairs)

(11th Jan.) Recent issues in Laser Industries

Chair: Dr. Friedrich Bachmann

- 09:00-10:00 Registration and Exhibition
- 10:00-10:30 Laser-Lithotripsy: A never ending development (Prof. Dr. Ronald Sroka, Laser-Forschungslabor/LIFE Center, Univ. Muenchen, Germany)
- 10:30-11:00 High Power Diode Lasers for Aesthetic Applications (Dr. Wentao Hu, General Manager, QPC Lasers, USA)
- 11:00-11:30 How MicroOptics can change Life Science (Asim Rexhepi, Sales Manager for Medical and Life Sciences Applications, Global Key Account Manager Medical and Life Science Applications, Suss MicroOptics SA, Switzerland)
- 11:30-12:00 Laser Additive Manufacturing for Space and Aerospace Industries (Robert Martinsen, CTO, nLight, USA)
- 12:00-13:00 Lunch Box (Exhibition)

Chair: Dr. Burkhard Fechner

- 13:30-14:00 (Tutorial) Principles of Beam Shaping for Optics and Lasers (Prof. Yongjoo Chung, GIST, Korea)
- 14:00-14:30 3D Sensing with better than DOE optics and its applications (Yang Zhen, Scivax Corp., Japan)
- 14:30-15:00 Synchronizing Laser and Optics: Beam-Shaping Solutions for Industrial Laser Applications (Robert Dai, President of Pan-Semiconductor Solutions Business Unit, Focuslight, China)
- 15:00-16:00 Exhibition
- 16:00-16:30 Ultra-Short pulse laser machining with multi-beams and cascaded systems (Prof. Dr. A. Gillner, Fraunhofer ILT, Germany)
- 16:30-17:00 One of the most versatile femtosecond lasers for precision micromachining applications (Mr. Mantvydas Jasinskas, CSO, EKSPLA uab, Lithuania)
- 17:00-18:30 Optical tools for laser machining across six orders of magnitude (Tobia Koenig, Dr. Daniel Flamm, Expert LAC R&D Advanced Development, Trumpf Laser-und Systemtechnik GmbH, Germany)
- 17:30-18:00 Sensors for laser welding process and quality monitoring (R. Steinbrecht, Managing Director, Lessmuller Lasertechnik GmbH, Germany)
- 18:00-20:00 Honor Award and Congress Dinner
 - Award Ceremony
 - Korean Traditional Performance by 가향

(12th Jan.) Hot issues in Laser Industries

Chair: Dr. Swook Hann

- 08:30-09:00 Registration and Exhibition
- 09:00-09:30 How can Chinese Laser companies get the competitive in Chinese Markets (Ms. Jally Qu, DMK Laser, China)
- 09:30-10:00 Laser-Based Manufacturing Solutions for E-Mobility and EV Batteries (Dr. Majid Abbasi, Battery Industry Manager, Coherent, USA)
- 10:00-10:30 Exhibition
- 10:30-11:00 Battery Drying Process with state-of-the-art VCSEL technologies (Ronald Verstraeten, Sales Manager, Trumpf Photonic Components GmbH, Germany)
- 11:00-11:30 Ultra-Efficiency Direct Diode Laser Heater/Dryer for Battery and Other Industries (Dr. Harlon O. Neumann, Director of Laser Solutions, IPG Photonics, USA)
- 11:30-12:00 Laser Drying Technologies of electrodes for Battery cells by Diode Laser (Dr. SunWon Kim, Laserline Korea, Korea)
- 12:00-12:10 Ending remarks