



**INTERNATIONAL MEET AND EXPO ON
SEMICONDUCTORS AND OPTOELECTRONICS**

**INTERNATIONAL MEET AND EXPO ON
BIOPOLYMERS AND POLYMER SCIENCE**

**INTERNATIONAL MEET AND EXPO ON
LASER, OPTICS, AND PHOTONICS**

**April 10-12, 2025 | Mercure Budapest Castle Hill,
Budapest, Hungary
Meeting Room : Mezzanine Room**

**FINAL
PROGRAM**



Venue: Mercure Budapest Castle Hill, Budapest, Hungary
Meeting Room : Mezzanine Room

Day 1- April 10, 2025

08:00 - 08:30	Onspot Registrations	
08:30 - 09:00	Introduction and Opening Ceremony by Conference Chair Thomas J Webster and Co-Chair Medvids Arturs.	
Plenary Sessions		
Optoelectronic Devices and Applications		
Nano Electronics Devices		
Semiconductor Devices and Devices Modelling		
Photonic Materials and Metamaterials		
09:00 - 09:40	Title: Eliminating Infection in 30,000 Humans to Date: The Impact of Nanomedicine Thomas J Webster, Hebei University of Technology, China	P
09:40 - 10:20	Title: Quantum Cone-Nano Source of Light with Dispersive Spectrum: Technology and Properties Medvids Arturs, Riga Technical University, Latvia	P
10:20 - 11:00	Title: 2D Materials for Electronics: Computing, Sensing and Beyond Bin Yu, National Academy of Inventors (NAI), USA	P
11:00 - 11:15	Coffee Break @ Foyer	
11:15 - 11:55	Title: Fiber-Based Polarized and Tunable Multimode Laser Buks Eyal, The Helen Diller Quantum Center, Israel	P
11:55 - 12:35	Title: High Quality A-Plane Al(Ga)N Films Prepared on R-Sapphire Substrates for Nonpolar Deep-Ultraviolet LEDs Jianchang Yan, Chinese Academy of Sciences, China	P
12:35 - 13:15	Title: Secured LiFi using ML-based Channel Detection Hoa Le Minh, Northumbria University, UK	P
13:15 - 13:25	Group Photo	
13:25 - 14:10	Lunch @ Restaurant	
14:10 - 14:50	Title: First Principles Numerical Modeling of Optoelectronic and Photonic Devices Avik Ghosh, University of Virginia, USA	P
14:50 - 15:30	Title: High-Energy Yellow Lasers for Medical Applications, Based on Raman Generation in KGW Crystals Aleksandr Tarasov, Laseroptek Ltd, South Korea	P
15:30 - 16:10	Title: Dense BST-Cu_x (x = 5, 12.5, 15, 20, 30, and 40%) Ceramic Composites: Fabrication, Electrical, and Optical Properties Mohammed Tihth, University of Miskolc, Hungary	P

16:10 - 16:25	Coffee Break @ Foyer	
Keynote Session		
Semiconductor Devices and Devices Modelling		
16:25 - 16:55	Title: Nanoplasmonics for Laser Assisted Nuclear Fusion Kroo Norbert , Hungarian Academy of Sciences, Hungary	K
16:55 - 17:25	Title: The Invention of Copper Cysteamine Illumination Many Areas Wei Chen , Xi'an Jiaotong-Liverpool University, China	K
17:25 - 17:55	Title: Advancements in Inorganic Hole Transport Materials for Stable and High-Performance Perovskite Solar Cells Seckin Akin , Necmettin Erbakan University, Turkey	K
17:55 - 18:25	Title: Functional Polymers with Dual Porosity and Controlled Degradability Daniel Grande , Director at Charles Sadron Institute, France	K
18:25 - 18:50	<i>Certificate Appreciations</i>	
<i>Day 1 Closing Ceremony</i>		

Day 2- April 11, 2025		
08:00 - 09:00	Onspot Registrations	
Plenary Sessions		
Optoelectronic Devices and Applications		
Photonic Materials and Metamaterials		
09:00 - 09:40	Title: The Study of Wearable UV-Photodetectors on PET Substrates Based on TiO₂-ZnO Nanocomposite via Sol-Gel Process Roslan Hashim , University of Science Malaysia, Malaysia	P
09:40 - 10:20	Title: Microfluidic Devices Fabricated by Laser Technologies for Biological Applications Maria Teresa Flores-Arias , Universidade de Santiago de Compostela, Spain	P
10:20 - 11:00	Title: Functional and Decorative 3D Application of Bio-Polymers on Shoe Uppers Thomas W Schmidt , Fujian Huafeng New Materials Co Ltd, China	P
11:00 - 11:15	Coffee Break @ Foyer	
Keynote Session		
Applications of Polymers		
11:15 - 11:45	Title: The Best Method for Supramolecular Architecture – The Langmuir and Blodgett Method Nanocomposite Chemical Sensor Applications George Ivanov , University of Architecture, Civil Engineering and Geodesy Sofia, Bulgaria	K

11:45 - 12:15	Title: Modeling and Performance Analysis of Micro-Optical Ring-Resonator as Optical Filters with an Embedded Bragg Grating Sanjoy Mandal, Indian Institute of Technology, India	K
12:15 - 12:45	Title: Semiconductors and Optoelectronics Shashi Paul, De Montfort University, UK	K
12:45 - 13:15	Title: Syntheses and Properties of Biomass Polymers bearing Functionality and Sustainability Atsushi Tahara, Tohoku University, Japan	K
13:15 - 14:00	Lunch @ Restaurant	
14:00 - 14:30	Title: Transforming Rice Straw into Sustainable Polymers: Advances in Lignin-Based Polyol Functionalise Polymers and Produced more Sustainable Adhesives for Footwear Applications Henoc Perez Aguilar, INESCOP, Spain	K
14:30 - 15:00	Title: Biopolymers in Advanced Environmental Engineering Techniques Jaroslav Filip, Tomas Bata University in Zlin, Czech Republic	K
15:00 - 15:30	Title: Plasmonics in 2D Materials: Fundamentals and Perspectives Yuliy Bludov, University of Minho, Portugal	K
15:30 - 16:00	Title: Semiconductor Devices at Cryogenic Temperatures Ingo Tobehn-Steinhäuser, CiS Research Institute for Micro Sensors GmbH, Germany	K
16:00 - 16:15	Coffee Break @ Foyer	
16:15 - 16:45	Title: Bio-Corrosion Response of Sputtered Ta-Ti-Nb Thin Films Jacob C. Huang, National Sun Yat-sen University, Taiwan	K
16:45 - 17:15	Title: Effect of Boron Doping and Thermo-Mechanical Treatment on the Microstructure and Mechanical Properties of Ti65Zr7 Medium Entropy Alloy Po-Sung Chen, National Central University, Taiwan	K
17:15 - 17:45	Title: Enhance Mechanical Properties of CoCrNiAlTi Quinary Medium-Entropy Alloy by Boron Doping and Heat Treatment Jason Shian-Ching Jang, National Central University, Taiwan	K
17:45 - 18:15	Poster Presentations	
Polymer Chemistry		
Biopolymers and Bioplastics		

Poster - 001	Title: Electron Beam Induced Compatibilization of PLA/ PBAT Blends in Presence of Epoxidized Soybean Oil Lena Marbach , Fraunhofer UMSICHT, Germany
Poster - 002	Title: Microbial Upcycling of Agricultural Cabbage Waste into Phytoene Encapsulated in Poly (3-hydroxybutyrate) Yong Jun Choi , University of Seoul, South Korea
Poster - 003	Title: Steam gasification Characteristics of Polylactic Acid(PLA) in a Fluidized Bed Reactor Myung Won Seo , University of Seoul, South Korea
Poster - 004	Title: A study on Design and Fabrication of 4H-SiC SCR based ESD Protection Device with High Holding Voltage Byung Seok Lee , Dankook University, South Korea
Poster 005	Title: Solution-Based Synthesis and Performance Evaluation of NiCo₂O₄ MIS Capacitors Yusuf Atmaca , Gazi University, Turkey
18:15 - 18:30	<i>Certificate Appreciations</i>
<i>Day 2 Closing Ceremony</i>	

Day 3- April 12, 2025		
Virtual Presentations		
London Time Zone (GMT+1)		
09:00 - 09:25	Title: Motion Control of Wafer Scanners in Lithography Systems: From Multi-DOF Stage to Multi-Stage Coordination, towards Next Generation Fazhi Song , Harbin Institute of Technology, China	I
09:25 - 09:55	Title: The Industrialization and Application Technology of 5-Hydromethylfurfural Josef You , Zhejiang Sugar Energy Technology, China	K
09:55 - 10:20	Title: Non-Monochromatic Modes and Nonlinearity in Piet Hein Quantum Semiconductor Waveguides Shahid Idrees , Chinese Academy of Sciences, China	I
10:20 - 11:00	Title: Refining of Lignin into Value-added N-containing Aromatic Chemicals Changzhi Li , Chinese Academy of Sciences, China	P
11:00 - 11:40	Title: Quantum Dots for Green Quantum Technologies Dieter Bimberg , Bimberg Chinese-German Center for Green Photonics, Germany	P

11:40 - 12:10	Title: Semiconductor and Optoelectronics Pawan K Khanna , Defence Institute of Advanced Technology, India	K
12:10 - 12:35	Title: Bismuth based Photocatalyst For Efficient Photodegradation And CO 2 Reduction Seema Garg , Amity University, India	I
12:35 - 13:00	Title: Semiconductor and Optoelectronics Debdatta Ray , Indian Institute of Technology Kanpur, India	I
13:00 - 13:40	Title: Modeling the Processes of Reflection and Refraction of Photon Waves within the Framework of their New Wave Structure. Valentyn Nastasenko , Kherson State Maritime Academy, Ukraine	P
13:40 - 14:10	Title: Structural, optical and Electronic Properties of Cu₂S Nanofilms Paulo Cesar De Moraes , Catholic University of Brasilia, Brazil	K
14:10 - 14:50	Title: Creating Materials with a Desired Refraction Coefficient and Other Applications Alexander Ramm , Kansas State University, USA	P
14:50 - 15:15	Title: The Study of Transmission Parameters from PT-Symmetric Waveguides Chengnian Huang , Hong Kong Polytechnic University, China	I
15:15 - 15:45	Title: Synergistic Effects of Polyaniline and Graphene Nanoplate Hybrid Fillers on the Mechanical, Electrical, and Microwave Absorption Properties of Thermoplastic Rubber Nanocomposite Sahrim Ahmad , Universiti Kebangsaan, Malaysia	K
<i>Day 3 Closing Ceremony</i>		
<i>End of the Conference</i>		

Next Edition

2nd International Meet and Expo on **Semiconductor, Optoelectronics and Photonics**

SEMICONMEET2026 | April 20-22, 2026 | Kuala Lumpur, Malaysia

2nd International Meet and Expo on **Bio-Polymers & Polymer Science**

POLYMEET2026 | April 20-22, 2026 | Kuala Lumpur, Malaysia

2nd International Meet and Expo on **Laser, Optics and Photonics**

LOPMEET2026 | June 15-17, 2026 | Dubai, UAE