



 **ISSON2024**
International Summit on
Semiconductors, Optoelectronics and Nanostructures
May 29-31, 2024 | Prague, Czech Republic
E: isson2024@spectrumconferences.com
W: <https://www.spectrumconferences.com/2024/isson>

TENTATIVE PROGRAM

Conference Chair



Prof. Guy Le Lay
Aix-Marseille University
France

Conference Co-Chair



Prof. Roman Sobolewski
University of Rochester
USA

Organizing Committee Members



Prof. George S. Dulikravich
Florida International University
United States



Dr. Jorge Morales Ferreiro
University of Mayor
Chile



Prof. Haruo Kobayashi
Gunma University
Japan



ISSON2024

International Summit on Semiconductors, Optoelectronics and Nanostructures

May 29-31, 2024 | Prague, Czech Republic

Chair		Guy Le Lay , <i>Aix-Marseille University, France</i>
Co-Chair		Roman Sobolewski , <i>University of Rochester, USA</i>
Day 01, May 29, 2024		
9:30-10:10	P	<p>Title: GaSb-based SESAMs, VECSELs and MIXSELs in the Short-Wave Infrared Regime</p> <p>Ursula Keller, <i>Secretary-ETH Zurich, Switzerland</i></p>
10:10-10:50	P	<p>Title: Extreme Nonlinear Optics in 3D and 2D Semiconducting Materials</p> <p>Jerome V Moloney, <i>Director-Arizona Center for Mathematical Sciences, USA</i></p>
10:50-11:05		Refreshment Break
11:05-11:45	P	<p>Title: Conductometric Biosensors: Semiconductor Technology for Precise Measurements of Molecules</p> <p>Sharath Sriram, <i>Chief Investigator-RMIT University, Australia</i></p>
11:45-12:25	P	<p>Title: Xenos, an Extraordinary 2D Family</p> <p>Guy Le Lay, <i>Aix-Marseille University, France</i></p>
12:25-13:05	P	SLOT AVAILABLE
13:05-14:05		Group Photo
		Lunch Break
14:05-14:35	K	<p>Title: Atomic Scale Revelation of sites, Constellations, Elemental Nature and Dynamics of Individual Atoms in 2-D Materials Envisaged for Quantum Device Development</p> <p>Ursel Bangert, <i>Bernal Chair-Microscopy & Imaging University of Limerick, Ireland</i></p>
14:35-15:05	K	<p>Title: Terahertz Inverse Spin Hall Effect in Spintronic Nanostructures</p> <p>Roman Sobolewski, <i>University of Rochester, USA</i></p>
15:05-15:35	K	<p>Title: Physical Mechanism of Ferro Electricity in HfO₂-Based Thin Films from Oxygen Vacancy Ordering Principle</p> <p>Jinfeng Kang, <i>Peking University, China</i></p>
15:35-15:50		Refreshment Break
15:50-16:20	K	<p>Title: Uniting Distant Atoms: Exploring Shared Radiant Modes in Nanophotonic Waveguides</p> <p>Hamidreza Siampour Ashkavandi, <i>Queen's University Belfast, UK</i></p>
16:20-16:50	K	SLOT AVAILABLE

16:50-17:15	I	Title: A New Type of Phononic Crystal with Complete Band-Gap: A Theoretical Study
		David Rohlig , <i>Free State of Saxony, Germany</i>
17:15-17:40	I	Title: Error Correction and Self-Calibration of Analogue-Digital Mixed-Signal Integrated Circuits
		Haruo Kobayashi , <i>Gunma University, Japan</i>
17:40-18:05	I	Title: Advanced ZnO Based Piezo-Phototronic Optoelectronics
		Wenbo Peng , <i>Xi'an Jiaotong University, China</i>
18:05-18:30	I	SLOT AVAILABLE
Poster	P01	Title: Electro-Optical Up-Controller Based on a SOA-MZI Standard Modulation Approach
		Hassan Termos , <i>ICFO-The Institute of Photonic Sciences, Spain</i>
End of Day 01		
***Note: This is a Tentative Program, it is subjected to slight changes till Final Program		

Chair		Guy Le Lay , <i>Aix-Marseille University, France</i>
Co-Chair		Roman Sobolewski , <i>University of Rochester, USA</i>
Day 02, May 30, 2024		
9:30-10:10	P	Title: Biomimetic Hierarchical Nanostructures for Clean Energy and Water
		Sharmila M. Mukhopadhyay , <i>Director-Frontier Institute for Research in Sensor Technologies, USA</i>
10:10-10:50	P	Title: Nonlinear Charge Transport in Semiconductor Superlattices and Excitability: Devices and Applications in Other Fields
		Luis L Bonilla , <i>Director-G. Millan Institute of Fluid Dynamics, Nanoscience & Industrial Mathematics, Spain</i>
10:50-11:05		Refreshment Break
11:05-11:45	P	Title: Theory And Simulations of High-Speed Micro-OLEDs and Organic Laser Diodes
		Daan Lenstra , <i>Eindhoven University of Technology, Netherlands</i>
11:45-12:25	P	SLOT AVAILABLE
12:25-13:05	P	Title: Will Be Updated Soon
		Ifor Samuel , <i>University of ST Andrews, UK</i>
13:05-14:05		Group Photo
		Lunch Break

14:05-14:35	K	Title: Unusual Anisotropic Magnetoresistance in Bilayer Heterostructure Xiangrong Wang , <i>University of Science and Technology, Hong Kong</i>
14:35-15:05	K	Title: Vanderwaals Epitaxy of Oxycompounds for Advanced Electronics Ying-Hao Eddie Chu , <i>National Tsing Hua University, Taiwan</i>
15:05-15:35	K	Title: Will be updated soon Jorge Morales Ferreiro , <i>Director-School of Engineering, University of Mayor, Chile</i>
15:35-15:50		Refreshment Break
15:50-16:20	K	Title: Will be updated soon Giovanni A. Salvatore , <i>University of Venice Ca Foscari, Italy</i>
16:20-16:50	K	SLOT AVAILABLE
16:50-17:20	K	SLOT AVAILABLE
17:20-17:45	I	Title: Exactly Solvable Potentials for the One-Dimensional Dirac Equation: Applications in Nanophysics A M Ishkhanyan , <i>Institute for Physical Research, Armenia</i>
17:45-18:10	I	Title: Ultrafast and Continuous Wave of Nonlinear Optical Properties of Au-Fe ₂ O ₃ -Decorated Reduced Graphene Oxide Saravanan , <i>Department of Physics-Anna University, India</i>
18:10-18:35	I	SLOT AVAILABLE
Poster	PO2	SLOT AVAILABLE
End of Day 02		
***Note: This is a Tentative Program, it is subjected to slight changes till Final Program		

Chair		Guy Le Lay , <i>Aix-Marseille University, France</i>
Co-Chair		Roman Sobolewski , <i>University of Rochester, USA</i>
Day 03, May 31, 2024		
9:30-10:10	P	Title: Boron Arsenide, a Potentially New Powerful Semiconductor for High Power Electronics Zhifeng Ren , <i>Director-Texas Center for Superconductivity, University of Houston, USA</i>

10:10-10:50	P	Title: Semiconductor Ionics and Materials for Emerging Fuel Cell Applications
		Bin Zhu , <i>Southeast University, China</i>
10:50-11:05		Refreshment Break
11:05-11:45	P	Title: Towards Hexagonal-SiGe Light Sources
		Erik Bakkers , <i>Eindhoven University, Netherlands</i>
11:45-12:25	P	Title: Will be updated soon
		Zuqing Zhu , <i>University of Science and Technology, China</i>
12:25-13:05	P	SLOT AVAILABLE
12:55-13:55		Group Photo
		Lunch Break
14:05-14:35	K	Title: Advanced Machine Learning Algorithm Based Edm Machines For Aerospace Application
		Martin Sagayam , <i>Karunya Institute of Technology and Sciences, India</i>
14:35-15:05	K	SLOT AVAILABLE
15:05-15:35	K	SLOT AVAILABLE
15:35-15:50		Refreshment Break
15:50-16:20	K	SLOT AVAILABLE
16:20-16:45	I	Title: Will be updated soon
		Oluwaseun John Dada , <i>Professorial Chair-Signature EcoSystems Technologies, Hong Kong</i>
16:45-17:15	I	Title: Will be updated soon
		Salah AM Elmoselhy , <i>The University of Coimbra, Portugal</i>
17:15-17:40	I	Title: Will be updated soon
		Runwei Mo , <i>University of Science and Technology, Shanghai, China</i>
17:40-16:05	I	SLOT AVAILABLE
16:05-18:30	I	SLOT AVAILABLE
Poster	PO3	SLOT AVAILABLE

End of Day 03

*****Note: This is a Tentative Program, it is subjected to slight changes till Final Program**