

Tentative Schedule

10TH DECEMBER 2024

8.30 - 9.00	REGISTRATION & MORNING COFFEE
9.00 - 9.15	OPENING CEREMONY
<i>Room: Amphi Chaudron</i>	
9.15 - 10.35	Session: 2D Materials
	Itai Epstein (Tel Aviv University, Israel) <i>"Light-matter interaction in 2D semiconductors"</i>
	Slaven Garaj (National University of Singapore, Singapore)
	Habib Rostami (University of Bath, UK) <i>"Dichroism and Kerr rotation in bulk WSe₂"</i>
	Antonio Di Bartolomeo (Universita' degli Studi di Salerno, Italy)
10.35 - 10.55	COFFEE BREAK & NETWORKING
11.00 - 12.00	PLENARY TALK: "Commercializing Nanomedicine: 30,000 Spinal Implants in Humans with No Failures" Thomas Webster (Hebei University of Technology, China)
12.00 - 13.00	Academia to Business Panel Discussion (Q&A)
13.00 - 14.00	LUNCH
<i>Room: Biblioth�que</i>	
14.00 - 15.00	PLENARY TALK: "From hyper-Rayleigh to hyper-Raman optical activity" Ventsislav Valev (University of Bath, UK)
15.00 - 15.20	COFFEE BREAK & NETWORKING
15.20 - 17.00	Session: Nanophotonics
	Frederic Gardes (University of Southampton, UK)
	Louise Bradley (Trinity College Dublin, Ireland)
	Maria Kafesaki (University of Crete, Greece) <i>"Controllable circular polarization lasing based on chiral metamaterials"</i>
	Ivan Fernandez-Corbaton (Karlsruher Institut fur Technologie, Germany) <i>"Computing the optical response of molecular materials: From nano to device scales"</i>
	Emilija Petronijevic (Sapienza University of Rome, Italy)
17.00 - 19.00	WINE WELCOME RECEPTION POSTER SESSION

11TH DECEMBER 2024

8.30- 9.00	REGISTRATION & MORNING COFFEE
<i>Room: Amphi Chaudron</i>	
9.00 - 10.40	Session: Innovations in Energy: Advancements in Nanoscience and Photovoltaics

	Ibrahim Yehia
	Gideon Segev (Tel Aviv University, Israel) <i>"Ratchet-based ion pumps for selective ion separations"</i>
	Hani Bahrom (Tel Aviv University, Israel)
	Lioz Etgar (Hebrew University of Jerusalem, Israel) <i>"Chirality and piezoelectricity in low dimensional perovskite and fully printable solar cells"</i>
	Gilbert Daniel Nessim (Bar Ilan University, Israel) <i>"One-step synthesis of single atom catalysts (SACs) on nanocarbons using thermal delamination: a new paradigm for high performance, binder-free, electrodes for water splitting"</i>
10.40 - 11.00	COFFEE BREAK & NETWORKING
11.00 - 12.00	PLENARY TALK: "Are four small brains as good as one big one? a computing fabrics perspective" Yoel Fink (Massachusetts Institute of Technology, USA)
12:00 - 13:00	Smart, Functional Fibers and Textiles
	Yuanyuan Guo (Tohoku University, Japan) <i>"Thermally-drawn fiber technologies with sensing and actuation capabilities for neuroscience and healthcare applications"</i>
	Fabien Sorin (Ecole Polytechnique Fédérale de Lausanne, Switzerland) <i>"Liquid Metal-Based Soft Electronic Fibers and Textiles"</i>
	Burak Temelkuran (Imperial College London, UK) <i>"Thermally Drawn Catheters for Endovascular Interventions"</i>
13.00 - 14.00	LUNCH
14.00 - 16.00	Smart, Functional Fibers and Textiles
	Alexander Gumennik (Indiana University, USA) "TBA"
	Amit Sitt (Tel Aviv University, Israel) <i>"Unique Shape-Morphing Behaviors in Hierarchical Responsive Microfiber Architectures"</i>
	Michael Fokine (KTH Royal Institute of Technology, Sweden) <i>"Advanced Glass Fabrication and 3D Printing using CO₂-laser"</i>
	Sylvain Danto (University of Bordeaux, France) <i>"Recent progresses in the fabrication of multimaterial fibers using thermoplastic polymers and glasses with intermediate T_g"</i>
	Viktor Filatov (SkyLab AG, Switzerland) <i>"Towards functional textiles using laundry detergents: the novel sustainable technologies for improvement of appearance, color, elasticity, and regeneration of microdamages"</i>
	Merve Gocke (Indiana University Bloomington, USA) <i>"Selective stress/proximity sensing by time domain reflectometry in a deformable fiber-antenna"</i>
16.00 - 16.20	COFFEE BREAK & NETWORKING SESSION
16.20 - 18.00	THz Optoelectronics and Photonics
	Giacomo Scalari (ETH Zürich, Switzerland) <i>"An active planarized platform for coherent THz optics: from combs to on-chip WDMs"</i>
	Masayoshi Tonouchi (Osaka University, Japan) <i>"Terahertz Emission Spectroscopy on GaN-based Superlattices"</i>
	Jessica Boland (The University of Manchester, UK) <i>"Terahertz and topology: exploring optoelectronic properties of topological insulators via terahertz spectroscopy and microscopy"</i>

	David Citrin (DWI Leibniz Institute for Interactive Materials and RWTH Aachen University, Germany)
	Etienne Cardi (LPENS, France) <i>"TeraHertz generation from femtosecond laser-induced micro-plasma"</i>
Room: Amphi Moissan	
12:00 - 13:15	NanoPhotonics
	Sebastian Klembt (University of Würzburg, Germany)
	Bruce Ou (University of Southampton, UK) <i>"Meta-scope: metalens-based compact multifunctional microscope"</i>
	Pavel Ginzburg (Tel Aviv University, Israel)
13.15 - 14.15	LUNCH
14.15 - 16.00	Microscopy and Microspectroscopy
	Sylvie Roke (Ecole Polytechnique Fédérale de Lausanne, Switzerland) <i>"A magic wand for material characterization"</i>
	Hiroki Okamoto (Institute for Molecular Science, Japan) <i>"Imaging Chiral Optical Fields in Nano-/Micro-Structured Materials"</i>
	Kevin MacDonald (University of Southampton, UK) <i>"Picometrology with topologically structured light"</i>
	Hilton De Aguiar (ENS, France)
	Jan Přebyl (Masaryk University, Czechia) <i>"Advanced characterization of nano and biomaterials using AFM and Raman microscopy"</i>
	Ayodele Olomieja (Ogun State Institute of Technology, Nigeria) <i>"Synthesis and Photocatalytical Degradation of Pharmaceutical Pollutants using Green Synthesized Nanocomposite"</i>
16.00 - 16.20	COFFEE BREAK & NETWORKING SESSION
16.20 - 18.00	New Materials Developments
	Simona Achilli (University of Milan, Italy) <i>"Theoretical and experimental analysis of the pivotal role of the substrate in the growth of ordered 2D structures"</i>
	Jonas Johansson (Lund University, Sweden) <i>"Heteroepitaxial Growth Modes Revisited"</i>
	Bat-El Pinchasik (Tel Aviv University, Israel) <i>"Optomechanical Manipulation: Fundamentals and Biological Applications Symposium"</i>
	Mohamad Danial Shafiq (Universiti Sains Malaysia, Malaysia) <i>"Interparticle Interactions Between Carbon in Oil: Effect of Poly-isobutylene-Ionic-Liquid Dispersants"</i>
20.00 -	GALA DINNER
12TH DECEMBER 2024	
8.30 - 9.00	REGISTRATION & MORNING COFFEE
9.00 - 10.00	POSTER SESSION

Room: Salle 6	
10.00 - 12.00	New Materials Development
	Andrey Sukhorukov (Australian National University, Australia) <i>"Generating Optically Tunable Entangled Photon Pairs From Metasurfaces"</i>
	Michael Vanner (Imperial College London, UK)
	Nur Hidayatul Nazirah Kamarudin (Universiti Kebangsaan Malaysia, Malaysia) <i>"Development of Smart Anti-Microbial Drug Releasing Dental Implant"</i>
	Hassan Alshahrani (Najran University, Saudi Arabia) <i>"Development of Novel 3D Printed Core-Shell Polymeric Composite"</i>
	Kseniia Mamaeva (Trinity College Dublin, Ireland)
Room: Amphi Moissan	
11.00 - 12.00	Optical Systems and Networks
	Toms Salgals (Riga Technical University, Latvia)
	Eugenio Maggolini (Johannes Kepler University Linz, Austria) <i>"Quantum nonlinear optics in exciton-polariton circuits"</i>
	Inga Brice (University of Latvia, Latvia) <i>"Tailoring whispering gallery mode resonator for wide range of potential applications"</i>
12.00 - 13.00	LUNCH
13.00 - 14.00	THz Optoelectronics and Photonics
	SaeJune Park (Queen Mary University of London, UK) <i>"Free-space and on-chip terahertz biosensing and other applications"</i>
	Anna Tasolamprou (National and Kapodistrian University of Athens, Greece) <i>"THz graphene-based metasurfaces for wave manipulation"</i>
	Eve Ammerman (Empa, Switzerland) <i>"Ultrafast Terahertz Scanning Tunneling Microscopy of Single Atomic Defects"</i>
	Sara Cibella (IFN CNR, Italy) <i>"Optical beatnote detection of a portable THz QCL comb by direct microwave mixing onto an Hot-electron bolometer"</i>
14.00 - 14.20	COFFEE BREAK & NETWORKING SESSION
14.20 - 17.00	Quantum Optics and Quantum Metrology
	Pavlos Savvidis (Westlake University, China)
	Ferruccio Renzoni (University College London, UK) <i>"Electromagnetic Induction Imaging with Atomic Magnetometers: Coming of Age"</i>
	Vladimir Antonov (Royal Holloway University of London, UK) <i>"Development of a new quantum device: the Bloch transistor"</i>
	Alina Karabchevsky (Ben Gurion University of Negev, Israel)
	Ortwin Hess (Trinity College Dublin, Ireland)
	Takis Kontos (ENS, France)

	Marianna D'Amato (Sorbonne University, France) "Room-temperature integrated single-photon sources based on solid-state quantum emitters coupled to optical nanofibers"
Room: Amphi Chaudron	
13.00 - 14.40	2D Materials
	Vladimir Dyakonov (University of Würzburg, Germany) "Coherent Control and Sensing Applications of the Color Centers in hexagonal Boron Nitride"
	Hao Xu (University of Electronic Science and Technology of China, China) "2D TMDs: Large-Scale Growth, Integrated Optoelectronics and Beyond"
	Nicholas Bergeal (ESPCI Paris, France) "Superconducting oxide interfaces"
	Anastasios D. Koulouklidis (Regensburg Center for Ultrafast Nanoscopy, Germany) "Magnetic Control of Quasi-1D Excitons and Coulomb Correlations in CrSBr"
	Igor Rozhansky (University of Manchester, UK) "2D van der Waals Magnets as a promising host for strong-correlated phenomena"
14.40 - 15.00	COFFEE BREAK & NETWORKING SESSION
15.00 - 16.00	Sensors and Spectroscopy: Materials and Methodologies
	Haider Butt (Khalifa University, United Arab Emirates)
	Yossi Rosenwaks (Tel Aviv University, Israel) "Electronic Nose Based on a Single Silicon Gas Sensor"
	Muhammad Ameerullah Sahudin (Universiti Malaya, Malaysia) "Schiff Base Complex: Fluorescence Chemosensor for Food Safety Monitoring"
16.00 - 17.00	Nanomaterials in Biology and Medicine
	Francis Rey Cortes (Universitat Jaume I, Spain) "Pulsed laser fragmentation synthesis of carbon quantum dots (CQDs) for the non-enzymatic glucose detection"
	Yon Ju-Nam (Swansea University, UK) "Green synthesis and spectroscopic characterisation of positively charged gold nanoparticles and their use in biomedical applications"
	Gangaraju Gedda (Chung-Ang University, South Korea) "Assessment of function of fluorescent carbon dot's role in the male Reproductive system"
17.00 - 18.00	PLENARY TALK: "Tailoring Carbon Nanoparticles for drug delivery" Silvia Giordani (Dublic City University, Ireland)
18.00 - 19.00	WINE RECEPTION & NETWORKING
13TH DECEMBER 2024	
8.30 - 9.00	REGISTRATION & MORNING COFFEE
9.00 - 10.00	PLENARY TALK: "Preserving the Past, Protecting the Future: A Cross-disciplinary Review of Recent Innovations in Materials for Safeguarding Heritage in a Changing Climate" Giuseppina Padeletti (Institute of Nanostructured Materials, CNR Italy)
10.00 - 12.30	Characterisation Methods in Art and Heritage

	Daniel Caurant (CNRS, France) <i>Several investigations on glazes on ceramics from Antiquity to the present day</i>
	Gilles Wallez (Sorbonne University, France) <i>Written in (lead) white: the chemical skills of the masters of the Renaissance painting</i>
	Anne Bouquillon (Ministry of Culture, France)
	Koen Janssens (University of Antwerp, Belgium) <i>Characterization of painted works of art from the macro to the nanoscale for the benefit of art historians and art conservators</i>
	Sorin Hermon (Cyprus Institute, Cyprus) <i>Towards an open, cross-disciplinary Cultural Heritage – first steps</i>
	Gabriella Di Carlo (National Research Council, Italy) <i>Sustainable conservation of metal objects: innovative materials from waste and renewable sources</i>
	Luca Totorà (Roma Tre University, Italy)
12:30- 12.45	Closing and Award Ceremony
13.00 - 14.00	WOMEN in STEMM LUNCH
14.00 -	SOCIAL PROGRAMME