

Tentative Program

(as of 02/07/2025)

Wednesday July 02, 2025

08:00-08:45	Registration	
08:45-09:00	Opening	
09:00-09:40	Olivier Pages (Lorraine University, France) Raman scattering on phonons/phonon-polaritons of disordered semiconductor mixed crystals	P
09:40-09:55	Nimrod Bachar (Ariel University, Israel) Raman spectroscopy of the magneto-elasticity in 2D magnets	O
09:55-10:10	Henrik Hoyer (TU Darmstadt, Germany) Enlightening the Defect Dynamics in Copper-Ceria Catalysts Using Raman Modulation Excitation Spectroscopy	O
10:10-10:30	Tim Schaffus (Infineon, Germany) Non-destructive and Precise: Raman Spectroscopy for Modern Semiconductor Technologies	I
10:30-11:10	Coffee Break / Poster Session / Exhibition	
11:10-11:40	Yury Gogotsi (Drexel University, USA) What Raman Spectroscopy Can Do for MXenes	K
11:40-11:55	Loay Akmal Madbouly (Federal Institute for Materials Research and Testing (BAM), Germany) Chemical Analysis of Commercial Functionalized Graphene along the Production Process	O
11:55-12:10	Riccardo Dal Moro (CNR-IFN, Italy) Combustion diagnostics: a time resolved Raman approach	O
12:10-12:25	Fabio Melison (National Research Council of Italy, Italy) A Raman Effect-Based Approach to Hydrogen Detection	O
12:25-12:40	Piotr Radomski (Poznan University of Technology, Poland) Probing Disorder with Vibrational Spectroscopy – Characterization of Pr ³⁺ -doped Lu _{1.5} Y _{1.5} Al ₅ -xSc _x O ₁₂ (x=0.0-2.0) Mixed Garnets with Scandium-induced Lattice Distortion	O
Company Talks		
12:40-12:50	STJapan GmbH	
12:50-13:00	HORIBA	
13:00-14:00	Lunch	
14:00-14:30	Poster Session I / Exhibition	
14:30-15:00	Silke Christiansen (Fraunhofer IKTS, Germany) Raman Spectroscopy at the Core of Multi-Modal, Scale-Bridging Analytics: Driving Insight and Innovation Across Materials and Life Sciences	K
15:00-15:15	Jyothi Balchandran Nair (Leibniz-Institut für Photonische Technologien eV Forschungsabteilung Nanooptik, Germany) Leveraging SERS-Based Targeted Nanoparticle Probes to Analyze Molecular Events in In Vitro Cancer Models	O
15:15-15:30	Shuang Ni (Laser Fusion Research Center, Chinese Academy of Engineering Physics, China) Research on Intelligent Blocking Algorithm for Protein Raman Spectroscopy Based on Electron Density	O
15:30-15:45	Daniele Barbiero (CNR-IFN Padova, Italy) Clostridia in milk: hydrogen detection through Raman gas spectroscopy	O
15:45-16:45	Coffee Break / Poster Session / Exhibition	
16:45-17:05	Stefan Schlatt (University of Münster, Germany) Novel Raman-based insights into spermatozoal biology: From bench to bedside	I

17:05-17:20	Clara Dubois (HORIBA FRANCE SAS, France) Towards the automatization of catalysts synthesis thanks to real-time in-situ Raman spectroscopy coupled with artificial intelligence	O
17:20-17:35	Oleksii Ilchenko (Lightnovo ApS, Denmark) Fast and Accurate – Novel Crystallographic Orientation Mapping by Raman Microscopy	O
17:35-17:50	Alice Fiocco (HORIBA France SAS, France) Proximity-induced “magic” Raman bands in TERS spectra of MoS2 and WS2 deposited on the 1L h-BN-capped gold	O
20:00	Conference Dinner	

Thursday July 03, 2025

09:00-09:30	Volker Deckert (Friedrich-Schiller-Universität Jena, Germany) Synergetic TERS on Polymer Nanoparticles	K
09:30-09:45	Jessica Gabb (IS-Instruments, UK) Deep-UV Raman for Biological sample analysis	O
09:45-10:00	Gohar Soufi (Technical University of Denmark, Denmark) Integration of nanopillar SERS Substrates in Lab-on-Disc SERS Platforms for Label-Free Detection in Complex Samples	O
10:00-10:20	Anders Kristensen (DTU, Denmark) Raman Optofluidics	I
10:20-11:15	Coffee Break / Poster Session / Exhibition	
11:15-11:35	Ruben Esteban (CFM-EHU/CSIC, Spain) Collective vibrational response in Surface Enhanced Raman Spectroscopy	I
11:35-11:50	Hiroyuki Takei (Toyo University, Japan) SERS devices designed for various industrial applications in food sciences, agriculture and environmental monitoring	O
11:50-12:05	Giorgi Shtenberg (Agricultural Research Organization Volcani Center, Israel) A Nanostructured Microarray-Based SERS Sensor Targeted at Multiplex Mycotoxins Detection in Food and Feedstuff Using Handheld Apparatus	O
12:05-12:20	Pablo Rabasco (Instituto de Cerámica y Vidrio (ICV/CSIC), Spain) Raman spectroscopy and chemometric study of feldspathic glass-ceramic for anti-counterfeiting applications	O
12:20-12:35	Alicia Gómez (Instituto de Catálisis y Petroleoquímica (CSIC), Spain) Raman mapping applied to the optimization of coating methods for catalytic air converter filters	O
12:35-12:50	Ilijana Bajama (Babes-Bolyai University, Romania) Fine powders from aged waste: pollutants adsorbents or new, enriched phosphate minerals? Raman tools to decide	O
12:50-13:10	George Sarau (Fraunhofer IKTS, Germany) Identification of relevant chemical and morphological descriptors of micro- and nanoplastics driving their toxicity	I
13:10-14:10	Lunch	
14:10-14:40	Poster Session 2 / Exhibition	
14:40-15:00	Naresh Kumar (ETH Zürich, Switzerland) TERS for Functional Thin Films: Nanoscale Insights into Polymeric, Semiconductor, and Smart Material	I
15:00-15:15	Jana Hahn (Paul-Ehrlich-Institut, Germany) Quantifying Components in a Model Vaccine with Machine-Learning-Augmented Raman Spectroscopy	O
15:15-15:30	Victoria Barygina (University of Florence, Italy) Multispectral Optical Sensing of Stress Responses in Human Skin	O
15:30-15:45	Wenbo Mo (China Academy of Engineering Physics, China) Raman rapid diagnosis of tumor pathology based on spectral-image fusion intelligent method	O
15:45-16:00	Christina Odenwald (Saarland University, Germany) Raman-Detection of Precipitation Processes in a Microjet-Reactor	O
16:00-16:15	Hainer Wackerbarth (Institut für Nanophotonik Göttingen e.V., Germany) Identification of Critical Care Medications: Optical Approaches	O
16:15	Closing & RamanFest2026 announcement	