

Tentative Program

(as of 08/10/2026)

Wednesday November 04, 2026

08:00-08:45	Welcome & registration		
08:45-09:15	Introduction		
S1 · BIO & HEALTHCARE – Diagnosis, Microbiology and SERS Biosensing for Precision Medicine			
09:15-09:55	Juergen Popp (Leibniz-IPHT, Germany) From Molecular Raman Fingerprints to AI-Driven Precision Medicine		P
09:55-10:25	Giulia Manina (Institut Pasteur, France) Mycobacterial phenotypic variation: Insights and opportunities		K
10:25-11:00	Coffee Break / Poster Session / Exhibition		
11:00-11:15	Julia Gala de Pablo (University of Leeds, UK) Raman Vibrational Imaging of Colorectal Cancer Progression		O
11:15-11:30	Wenbo Mo (China Academy of Engineering Physics, China) Rapid and Multiplexed Molecular Pathology of Breast Cancer via Label-Free SERS and Spectral-Image Fusion		O
11:30-11:45	Oleksii Ilchenko (Lightnovo ApS, Denmark) Raman Spectroscopy for In Vivo Bacterial Infection Diagnostics: From Animal Models to Patient Samples		O
11:45-12:00	Jean-Christophe Blancon (Liom Health, Switzerland) From benchtop to the wrist: calibration-free, robust transcutaneous spectroscopy for noninvasive glucose sensing		O
12:00-12:15	Daojian Qi (China Academy of Engineering Physics, China) Research on Intelligent Diagnostic Method for Respiratory Viruses Based on SERS-FLIA		O
Company Flash Talks			
12:15-12:20	ST Japan		
12:20-12:25	Specto Photonics		
12:25-12:30	Lightnovo		
12:30-12:35	Polytec		
12:35-12:40	HORIBA		
12:40-13:40	Lunch & Poster Session / Exhibition		
13:40-14:15	Poster Session 1		
S2 · NOVEL / RENEWABLE ENERGIES – Catalysis, Batteries, Electrochemistry and Carbon Capture Monitored Operando			
14:15-14:45	Miguel A. Bañares (CSIC-Instituto de Catalisis, Spain) Raman to monitor changing materials and materials in change		K
14:45-15:05	Juan Carlos González Rosillo (IREC, Spain) Nanoscale imaging of grain boundaries in ceramic energy devices and operando battery chemistry via Tip-Enhanced Raman Spectroscopy		I
15:05-15:25	Rudolph Erasmus (University of the Witwatersrand, Johannesburg, South Africa) Variable temperature Raman spectroscopy: a "benchtop" technique to complement synchrotron characterisation.		I
15:25-15:40	Madjid Tarabet (HORIBA France SAS, France) In Situ EC-Raman Analysis of Ni-based Layered Double Hydroxide Phase Transition Under Alkaline OER		O
15:40-15:55	Jessica Gabb (IS-Instruments, UK) Hollow-Core Fibre-Enhanced Raman Spectroscopy of High-Pressure Gases		O
15:55-17:00	Coffee Break / Poster Session / Exhibition		

S3 · ARTIFICIAL INTELLIGENCE – Machine Learning, Chemometrics and Explainable AI Applied to Raman Spectroscopy

17:00-17:30	Sylvie Roussel (Ondalys, France) Machine Learning for Raman Spectroscopy: From Spectra to Robust Industrial Models	K
17:30-17:50	Cyril Ruckebusch (University of Lille, France) Chemometrics-driven data acquisition to accelerate confocal Raman imaging	I
17:50-18:05	Nathan Blake (Kings College London, UK) Causal Responsibility Based Explainable AI for Raman Spectroscopy	O
18:05-18:20	Kuo Zhan (University of Oulu, Finland) Physics-Aligned Deep Learning Enables SM-SERS DNA Oligomers decoding	O
20:00	Conference Dinner	

Thursday November 05, 2026

S4 · ADVANCED RAMAN – Plasmonics, SERS, TERS, Modelling and Emerging Techniques

09:00-09:30	Ewelina Lipiec (Jagiellonian University, Poland) Mind the gap! Plasmonic nanocavity for trapping of local molecular rearrangements in selected biomolecules	K
09:30-09:50	Tommaso Giovannini (University of Rome Tor Vergata, Italy) Surface-Enhanced Raman Scattering: Insights from Atomistic Modelling	I
09:50-10:10	Claire Mangeney (Université Paris - Descartes, France) SERS-Encoded Metallic Nanoparticles Based on Aryl Diazonium Chemistry for Raman Imaging and Nanosensing	I
10:10-10:25	Eleonora Bolli (CNR-ISM, Italy) Nanoscale Chemical Mapping and Local Heterogeneity in PEPOT/SSp-PTh Polymer Blends	O
10:25-10:40	Morteza Behrouzitabar (Specto Photonics, Italy) Full vibrational spectroscopy for simultaneous mechanical, structural and chemical analysis	O
10:40-11:25	Coffee Break / Poster Session / Exhibition	

S5 · ENVIRONMENT, INDUSTRY & PROCESS – Microplastics, Quality Control, Industrial Process Monitoring and Bioprocesses

11:25-11:55	Andrea Mario Rossi (INRIM, Italy) Microplastics and Nanoplastics in Drinking Water: Quantification and Polymer Identification	K
11:55-12:15	Hilton B. de Aguiar (Laboratoire Kastler Brossel - CNRS, France) From High-Speed to Ultrafast Sensing Enabled by (Spontaneous) Compressive Raman Technology	I
12:15-12:30	Eric Michele Fantuzzi (Cambridge Raman Imaging, Italy) Single-Shot Multiplex SRS: High-Throughput Chemical Imaging for Industrial Quality Control and Environmental Monitoring	O
12:30-12:45	Nicole Dambruin (TU Delft, The Netherlands) Investigation of different methods for quantitative microbial biomass monitoring in microbial fermentations using Raman spectroscopy	O
12:45-13:00	Andrea Chiarello (University of Padova, Italy) Real-time detection of gas-producing bacteria in milk by Raman spectroscopy	O
13:00-14:00	Lunch & Poster Session / Exhibition	

14:00-14:30 Poster Session 2

S6 · SEMICONDUCTORS & INNOVATIVE MATERIALS – Graphene, 2D Materials and Semiconductors: From Metrology to Production

14:30-15:10	Andrea Ferrari (Cambridge Graphene Centre / University of Cambridge, UK) Chemometric Raman Imaging	P
15:10-15:30	Cinzia Casiraghi (University of Manchester, UK) Raman Spectroscopy of Graphene: From Metrology and Manufacturing to Qualification in Extreme Environments	I
15:30-15:50	Van Hoan Le (CEA Leti, France) Characterization of MoS2 by Raman and Photoluminescence Spectroscopy: From Growth to Property Enhancement	I

15:50-16:05	Yuhan Huang (Université de Bordeaux, France) TERS with in situ mechanical loading for nanoscale stress probing in suspended graphene	O
16:05-16:20	Manjunath Balagopalan (International Iberian Nanotechnology Laboratory, Portugal) Grain-boundaries in nanocrystalline silicon: Insights from Raman Spectroscopy	O
16:20-16:35	Coffee Break	
Closing Session · Tribute to Dietrich R.T. Zahn – TERS and Semiconductor Nanostructures, a Career Dedicated to Raman		
16:35-16:50	Tribute to Dietrich R.T. Zahn	
16:50-17:20	Dietrich RT Zahn (TU Chemnitz, Germany) Tip-enhanced Raman Spectroscopy and Photoluminescence of 0- and 2-dimensional Semiconductor Nanostructures	K
17:20-17:40	Poster Awards Ceremony	
17:40-18:00	Concluding remarks and RamanFest2027 announcement	