

Tentative Program

(as of 06/10/2026)

Wednesday November 04, 2026

07:00-08:30	Logisitc + welcome	
08:30-09:00	Welcome & registration	
09:00-09:30	Introduction	
S1 · BIO & HEALTHCARE – Diagnostic, microbiologie et biosensing SERS au service de la médecine de précision		
09:30-10:10	Juergen Popp (Leibniz-IPHT, Germany) From Molecular Raman Fingerprints to AI-Driven Precision Medicine	P
10:10-10:40	Giulia Manina (Institut Pasteur, France) Mycobacterial phenotypic variation: Insights and opportunities	K
10:40-11:30	Coffee Break / Poster Session / Exhibition	
11:30-11:45	Julia Gala de Pablo (University of Leeds, UK) Raman Vibrational Imaging of Colorectal Cancer Progression	O
11:45-12:00	Oleksii Ilchenko (Lightnovo ApS, Denmark) Raman Spectroscopy for In Vivo Bacterial Infection Diagnostics: From Animal Models to Patient Samples	O
12:00-12:15	Jean-Christophe Blancon (Liom Health, Switzerland) From benchtop to the wrist: calibration-free, robust transcutaneous spectroscopy for noninvasive glucose sensing	O
12:15-12:30	Daojian Qi (China Academy of Engineering Physics, China) Research on Intelligent Diagnostic Method for Respiratory Viruses Based on SERS-FLIA	O
Company Talks		
12:30-12:40	ST Japan	
12:40-12:50	Spectro	
12:50-13:00	Lightnovo	
13:00-14:30	Lunch & Poster Session / Exhibition	
S2 · NOVEL / RENEWABLE ENERGIES – Catalyse, batteries, électrochimie et capture du carbone suivies en operando		
14:30-15:00	Miguel A. Bañares (CSIC-Instituto de Catalisis, Spain) Raman to monitor changing materials and materials in change	K
15:00-15:20	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
15:20-15:40	Rudolph Erasmus (University of the Witwatersrand, Johannesburg, South Africa) Variable temperature Raman spectroscopy: a "benchtop" technique to complement synchrotron characterisation.	I
15:40-15:55	Madjid Tarabet (HORIBA France SAS, France) In Situ EC-Raman Analysis of Ni-based Layered Double Hydroxide Phase Transition Under Alkaline OER	O
15:55-16:10	Jessica Gabb (IS-Instruments, UK) Hollow-Core Fibre–Enhanced Raman Spectroscopy of High-Pressure Gases	O
Company Talks		
16:10-16:20	Polytec	
16:20-16:30	HORIBA	
16:30-17:15	Coffee Break / Poster Session / Exhibition	

S3 · ARTIFICIAL INTELLIGENCE – Machine learning, chimiométrie et IA explicable appliqués aux spectres Raman		
17:15-17:45	Sylvie Roussel (Ondalys, France) Machine Learning for Raman Spectroscopy: From Spectra to Robust Industrial Models	K
17:45-18:05	Cyril Ruckebusch (University of Lille, France) Chemometrics-driven data acquisition to accelerate confocal Raman imaging	I
18:05-18:20	Nathan Blake (Kings College London, UK) Causal Responsibility Based Explainable AI for Raman Spectroscopy	O
18:20-18:35	Kuo Zhan (University of Oulu, Finland) Physics-Aligned Deep Learning Enables SM-SERS DNA Oligomers decoding	
20:00	Conference Dinner	

Thursday November 05, 2026

S4 · SEMICONDUCTORS & INNOVATIVE MATERIALS – Graphène, matériaux 2D et semi-conducteurs : de la métrologie à la production		
09:00-09:40	Andrea Ferrari (Cambridge Graphene Centre / University of Cambridge, UK) Title to be defined	P
09:40-10:00	Cinzia Casiraghi (University of Manchester, UK) Raman Spectroscopy of Graphene: From Metrology and Manufacturing to Qualification in Extreme Environments	I
10:00-10:20	Van Hoan Le (CEA Leti, France) Characterization of MoS2 by Raman and Photoluminescence Spectroscopy: From Growth to Property Enhancement	I
10:20-10:35	Yuhan Huang (Université de Bordeaux, France) TERS with in situ mechanical loading for nanoscale stress probing in suspended graphene	O
10:35-10:50	Manjunath Balagopalan (International Iberian Nanotechnology Laboratory, Portugal) Grain-boundaries in nanocrystalline silicon: Insights from Raman Spectroscopy	O
10:50-11:20	Coffee Break / Poster Session / Exhibition	
S5 · ADVANCED RAMAN – Plasmonique, SERS, TERS, modélisation et nouvelles techniques		
11:20-11:50	Ewelina Lipiec (Jagiellonian University, Poland) Mind the gap! Plasmonic nanocavity for trapping of local molecular rearrangements in selected biomolecules	K
11:50-12:10	Tommaso Giovannini (University of Rome Tor Vergata, Italy) Surface-Enhanced Raman Scattering: Insights from Atomistic Modelling	I
12:10-12:30	Claire Mangeney (Université Paris - Descartes, France) SERS-Encoded Metallic Nanoparticles Based on Aryl Diazonium Chemistry for Raman Imaging and Nanosensing	I
12:30-12:45	Eleonora Bolli (CNR-ISM, Italy) Nanoscale Chemical Mapping and Local Heterogeneity in PEPOT/SSp-PTh Polymer Blends via TERS	O
12:45-13:00	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
13:00-13:15	Morteza Behrouzitabar (Specto Photonics, Italy) Full vibrational spectroscopy for simultaneous mechanical, structural and chemical analysis	O
13:15-14:30	Lunch & Poster Session / Exhibition	
S6 · ENVIRONMENT, INDUSTRY & PROCESS – Microplastiques, contrôle qualité, suivi de procédés industriels et bioprocédés		
14:30-15:00	Andrea Mario Rossi (INRIM, Italy) Microplastics and Nanoplastics in Drinking Water: Quantification and Polymer Identification	K

15:00-15:20	Hilton B. de Aguiar (Laboratoire Kastler Brossel - CNRS, France) From High-Speed to Ultrafast Sensing Enabled by (Spontaneous) Compressive Raman Technology	I
15:20-15:35	Eric Michele Fantuzzi (Cambridge Raman Imaging, Italy) Single-Shot Multiplex SRS: High-Throughput Chemical Imaging for Industrial Quality Control and Environmental Monitoring	O
15:35-15:50	Nicole Dambruin (TU Delft, The Netherlands) Investigation of different methods for quantitative microbial biomass monitoring in microbial fermentations using Raman spectroscopy	O
15:50-16:05	Andrea Chiarello (University of Padova, Italy) Real-time detection of gas-producing bacteria in milk by Raman spectroscopy	O
16:05-16:35	Coffee Break / Poster Session / Exhibition	
SÉANCE DE CLÔTURE · HOMMAGE À DIETRICH R.T. ZAHN – TERS et nanostructures semi-conductrices, une carrière au service du 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
17:20-17:50	Posters prices	
17:50-18:10	Conclusion	