

Wednesday June 17			
8:30 – 9:15	Registration		
9:15 – 9:30	Welcome		
9:30 – 10:15	Plenary speaker Andrea Centrone	<i>Time Resolved AFM-IR: Chemical Imaging and Beyond</i>	
10:15 – 10:45	Coffee Break		
10:15 – 13:10	Theory, methodology and innovations		
	10:15 – 10:40	keynote talk Elad Gross	<i>High Spatial Resolution Operando IR Nanospectroscopy Mapping Reveals Structure-Reactivity Correlations in Pd Nanoparticles</i>
	10:40 – 10:55	Carla Collange	<i>IR Force-Volume applied to complex samples</i>
	10:55 – 11:10	Masbah Hakim	<i>Influence of Cantilever Mechanics on Signal Transduction Efficiency in Resonance-Enhanced Infrared Nanospectroscopy: An Experimental Study</i>
	Coffee Break		
	11:40 - 11:55	Qichi Hu	<i>Gated Peak Force IR for enhanced nanoscale IR spectroscopic study</i>
	11:55 – 12:10	Francesco Simone Ruggeri	<i>Acoustical-Mechanical Suppressed Infrared Nanospectroscopy: from Single Polymer Chain Analysis to Protein Phosphorylation State</i>
	12:10 – 12:25	Karolina Kosowska	<i>Probing Molecular Alignment and Microstructural Heterogeneity with Photothermal Microscopy: Polarized AFM-IR and O-PTIR</i>
	12:25 – 12:40	Jeremie Mathurin	<i>How to evaluate and correct acoustic signal in AFM-IR</i>
	12:40 – 12:55	Giovanni Birarda	<i>Nanoscale Infrared Spectroscopic Characterization of Organic Materials at SSSI-Bio-Offline facility</i>
12:55 – 13:10	Maciej Roman	<i>Infrared nanospectroscopy at the SOLARIS synchrotron</i>	
13:10 – 14:20	Lunch		
14:20 – 16:00	Biosystems and molecular processes		
	14:20 – 14:45	Keynote talk Dmitry Kurouski	<i>Elucidation of molecular mechanisms of amyloid aggregation using nano-Infrared spectroscopy</i>
	14:45 – 15:00	Quentin Machiels	<i>Amyloid beta and Hfq-CTR38 coaggregation revealed by ATR-FTIR and AFM-IR</i>
	15:00 – 15:15	Giacomo Nisini	<i>Structural investigation of FUS fibrils formed via liquid-solid transition</i>
	15:15 - 15:30	Claudia Testi	<i>Correlative spectro-mechanical microscopy of intracellular protein aggregates using Brillouin microscopy and infrared nanospectroscopy</i>
15:30 – 15:45	Katarzyna Pogoda	<i>Physicochemical Signatures of Cellular Identity and Drug Resistance Preserved in Giant Plasma Membrane Vesicles</i>	

	15:45 – 16:00	Federica Piccirilli	<i>Synergistic Multiscale Vibrational Microscopy Reveals Chirality-Dependent Structure-Dynamics Coupling in Peptide Nanotubes</i>
16:00 – 16:10	Break		
16:10 – 17:10	Industrial session (Bruker, Photothermal Corporation, Attocube, Digital Surf, Park System)		
17:10 – 19:30	Poster session and aperitif		
Thursday June 18			
9:00 – 09:45	Plenary speaker Oxana Klementieva		<i>Correlative photothermal infrared imaging of amyloids in cells and tissues</i>
09:45 – 11:10	Biosystems and molecular processes		
	09:45 – 10:10	Ariane Deniset-Besseau	<i>Structural Characterization of Early Prion Oligomers using AFM-IR</i>
	10:10 – 10:25	Mengsha Hu	<i>Nano-Imaging of Protein Aggregation in the Human Brain of Alzheimer's Disease Patients</i>
	10:25 – 10:40	Anna Zetterström	<i>A comparison of FTIR, QCL and O-PTIR based imaging of renal cancer tissue</i>
	10:40 - 10:55	Zuzanna Bednarczyk	<i>Multiscale vibrational spectroscopy of Candida species: from sample preparation to antifungal resistance and persistence</i>
	10:55 – 11:10	Karolina Chrabąszcz	<i>When lipids adapt: Nanospectroscopic evidence of cannabidiol-induced remodeling of cellular lipids</i>
11:10 – 11:25	Coffee Break		
11:25 – 13:35	Material science		
	11:25 – 11:50	Keynote talk Kristina Duswald	Fast Optical Pre-Screening for Targeted O-PTIR Analysis
	11:50 – 12:05	Julia Chudzik	Formation and nanoscale characterization of magnetic domains in CoBr ₂ -functionalized P4VP-b-PS thin films and particles
	12:05 – 12:20	Ewa Pięta	Photothermal infrared detection of nanoplastics in human cells
	12:20 - 12:35	Naomi Farrer	Insights Into Volatile Presence Within Epoxy Amine Coatings Using Nano-Thermal Analysis
	12:35 - 12:50	Suzanne Morsch	<i>Mapping degradation in complex composite materials using photothermal nanospectroscopy</i>
	12:50 - 13:05	Paolo Negro	<i>g-C₃N₄/TiO₂-based polytypes: heterostructure or functionalized TiO₂? Shedding light via O-PTIR spectroscopy and s-SNOM imaging</i>
	13:05 - 13:20	Michał Wyskiel	<i>Infrared nanospectroscopy study of the effect of PMMA on the phase composition and morphology of PVDF-based ultrathin films</i>
	13:20 - 13:35	Philip Schäfer	<i>Correlative Raman and AFM-IR Spectroscopy of LG@MOF</i>
13:35 – 14:45	Lunch		
15:30 – 19:00	Social event		

19:00 – 22:00	Social Aperitif		
Friday June 19			
9:00 – 09:45	Plenary speaker Xiaoji Xu		<i>Atomic Force Microscopy Based Two-dimensional Infrared Spectroscopy (AFM-2DIR)</i>
09:45 – 10:45	Techniques and implementations		
	09:45 – 10:10	keynote talk Francesco Capitani	<i>OPTIR Spectroscopy and Imaging at Extreme Pressures</i>
	10:10 – 10:25	Georg Ramer	<i>Understanding spatial resolution in nanoscale photothermal chemical imaging</i>
	10:25 – 10:40	Linda Biondelli	<i>Local environment influence on mid-infrared photothermal contrast</i>
	10:40 – 10:55	Hrishikesh Ingole	<i>Development of an Atomic Force Microscopy-assisted Photothermal Terahertz Imaging System</i>
	10:55 – 11:10	Julien Rojas	<i>Frequency-sweep force volume AFM-IR: monitoring mechanical artifacts</i>
11:10 – 11:45	Coffee Break		
11:45 – 12:45	Cultural heritage and archaeometry applications		
	11:45– 12:00	Keynote talk Margaux Petay	<i>Egyptian Mummy Tissues Preservation State Exploration Thanks to Infrared Nano-Spectroscopy</i>
	12:00 – 12:15	Alessandro Ciccola	<i>Infra-Raphael: a combined approach of Synchrotron FTIR and OPTIR to rediscover the Deposition</i>
	12:15 – 12:30	Chloe Smith	<i>Plasticisation vs Embrittlement: an Evaluation using AFM-IR to Examine the Relationship Between Water Uptake and Oxidation in Weathered Paint</i>
	12:30 - 12:45	Antoine Vite	<i>Sub-micrometric characterization of an insect trapped in amber with IR nanospectro-imaging</i>
12:45 – 13:00	Closing remarks		